



*Personal Systems Reference*  
*IBM ThinkPad Notebooks*  
*1992 to 2001 - withdrawn*

*January 2001 - Version 214*



# IBM ThinkPad® 240 - withdrawn

IBM® ThinkPad®																																																																																																																																																																																														
Processor	Intel® Mobile Celeron™ 300, 366, or 400MHz <sup>1</sup> / 66MHz system bus																																																																																																																																																																																													
Processor features	No upgrade / processor on Ball Grid Array (H-PBGA)																																																																																																																																																																																													
L2 cache	128KB / onboard (full speed) / synchronous pipelined burst / ECC / write-back																																																																																																																																																																																													
Diskette drive	External 3.5" 1.44MB / connects to left side with FDD port / includes case and cable																																																																																																																																																																																													
CD-ROM	Option: External CD-ROM / via Portable Drive Bay and 24X-10X <sup>5</sup> CD-ROM UltraslimBay Drive																																																																																																																																																																																													
DVD-ROM	Option: External DVD-ROM / via Portable Drive Bay and DVD-ROM UltraslimBay Drive																																																																																																																																																																																													
Type-model	≈ 2609-21U																																																																																																																																																																																													
Processor	Celeron 300MHz																																																																																																																																																																																													
Disk - size / ms	6.4GB <sup>4</sup> / 13ms read / Ultra DMA/33 or PIO Mode 4																																																																																																																																																																																													
Preload (see side)	Windows 98 <sup>7</sup>																																																																																																																																																																																													
Avail / withdrawn date	June 1999 / February 2000																																																																																																																																																																																													
Type-model	≈ 2609-31U																																																																																																																																																																																													
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Type-model	≈ 2609-41U																																																																																																																																																																																													
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Disk - size / ms	12.0GB / 12ms read / ATA-66 or PIO4																																																																																																																																																																																													
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Display - size and type	10.4" TFT color (264.16mm) / Active Matrix																																																																																																																																																																																													
Display - technology	SVGA / 800x600 / 15ms refresh (typical) / 50 to 110 nits 16.7 million simultaneous colors / 250 to 1 contrast (typical)																																																																																																																																																																																													
Graphics - controller	NeoMagic™ MagicMedia128XD™ (NM2160C) / 128-bit accelerator / DDC2B / 2MB / SGRAM (embedded) / color space conversion																																																																																																																																																																																													
Graphics - features	Simultaneous LCD and CRT <sup>26</sup> / 180 degree tilt / no multiple-monitor support / ext SVGA to 1024x768 with 65,536 colors																																																																																																																																																																																													
Memory - std / max	64MB / 192MB <sup>33</sup>																																																																																																																																																																																													
Memory - features	SDRAM / non-parity / 66MHz / 3.3 volt / 64-bit 1 available socket for JEDEC 144-pin SO DIMM / std memory soldered to motherboard / socket accessed by removing three screws and keyboard																																																																																																																																																																																													
Disk controller / disk	EIDE / PCI 2.1 / supports one internal disk / customer can remove disk for upgrade (by removing three screws on base)																																																																																																																																																																																													
Keyboard	Keyboard palm rest / 95% size of current standard ThinkPad keyboards / 18mm key pitch																																																																																																																																																																																													
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / sensitivity / spare caps																																																																																																																																																																																													
Dimensions	10.2 x 8.0 x 1.05" (86 cubic inches) / 260mm x 202mm x 26.6mm																																																																																																																																																																																													
Weight <sup>2</sup>	Approximately 2.98 lbs (1.35 kg) with battery and disk																																																																																																																																																																																													
Case material	IBM ThinkPad UltraCarbon™ casing / Top: carbon-fiber reinforced plastic; Bottom: glass-fiber reinforced plastic																																																																																																																																																																																													
Battery - type	Li-Ion (3 cell) / intelligent / left side																																																																																																																																																																																													
Battery - life <sup>10</sup>	21U: 1.9 hrs 31U: 1.8 hrs 41U: 1.7 hrs Optional 6 cell battery 3.8 hrs (21U) or 3.6 hrs (31U) or 3.4 hrs (41U)																																																																																																																																																																																													
Charge time <sup>10</sup>	3.5 hrs on / 3.0 hrs off																																																																																																																																																																																													
Architecture	Intel 440DX PCIset / Intel 82371EB PIIX4M (EIDE, PCI to ISA bridge, USB) Texas Instruments® TI1211 PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)																																																																																																																																																																																													
Docking station	None																																																																																																																																																																																													
Port replicator	None (all standard ports already on back of system)																																																																																																																																																																																													
PC Card Std slots	1 Type I or 1 Type II / CardBus 32-bit / PCMCIA 2.1 / no Zoomed Video support																																																																																																																																																																																													
USB / serial / parallel	One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)																																																																																																																																																																																													
Other features	APM-aware BIOS / Ultraslim AC adapter, barrel, 3-prong, 56 watts																																																																																																																																																																																													
Video (TV) out	None																																																																																																																																																																																													
MPEG decoder	None (software support for MPEG-1 in Windows 98)																																																																																																																																																																																													
Data/fax modem	56K <sup>37</sup> V.90 / integrated in system / Mini PCI Type IIIb / Lucent 1646 / not voice-capable																																																																																																																																																																																													
Audio	16-bit SoundBlaster Pro™ support / ESS 1946 / PCI / full duplex																																																																																																																																																																																													
Speaker	One internal speaker (.5 watt)																																																																																																																																																																																													
Audio features	Internal microphone / Fn+Insert and Fn+Delete volume control with mute																																																																																																																																																																																													
Audio in/out jacks	Microphone jack (mono) / headphone jack (stereo) / line-in jack (stereo)																																																																																																																																																																																													
Infrared ports	Infrared port on right side / IrDA 1.1 compatible / up to 4Mbps																																																																																																																																																																																													
Security	Power-on password / setup password / disk password / security keyhole																																																																																																																																																																																													
Limited warranty <sup>11</sup>	1 year - carry-in or ThinkPad EasyServ™ <sup>31</sup> (door-to-door depot repair service)																																																																																																																																																																																													
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date																																																																																																																																																																																													
<table border="1"> <thead> <tr> <th>Color depth</th> <th>LCD</th> <th colspan="4">External Monitor</th> <th colspan="2">OPTIONS</th> <th>FEATURES</th> </tr> <tr> <th>Resolution</th> <th>TFT</th> <th>60Hz</th> <th>70Hz</th> <th>75Hz</th> <th>85Hz</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>640x480</td> <td>16M</td> <td>16M</td> <td>--</td> <td>16M</td> <td>16M</td> <td>- 32MB SO DIMM 3.3v NP SDRAM</td> <td>76H0294</td> <td>Wired for Management 1.1a compliant</td> </tr> <tr> <td>800x600</td> <td>16M</td> <td>16M</td> <td>--</td> <td>16M</td> <td>16M</td> <td>- 64MB SO DIMM 3.3v NP SDRAM</td> <td>20L0241</td> <td>DMI 2.0 compliant</td> </tr> <tr> <td>1024x768*</td> <td>64K</td> <td>64K</td> <td>64K</td> <td>64K</td> <td>--</td> <td>- 128MB SO DIMM 3.3v NP SDRAM</td> <td>01K1150</td> <td>PC 98 compliant</td> </tr> <tr> <td>1280x1024</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>- 12GB disk, 12ms read, ATA-66</td> <td>05K9245</td> <td>ACPI ready (APM enabled)</td> </tr> <tr> <td colspan="6">* Virtual screen mode on 10.4" LCD</td> <td>- High-capacity 6-cell Li-Ion Battery</td> <td>02K6580</td> <td>Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card</td> </tr> <tr> <td colspan="6">All models:</td> <td>- Ultraslim 56 watt AC Adapter (3-prong)</td> <td>02K6545</td> <td>System Status Indicators</td> </tr> <tr> <td colspan="6">- C: drive is FAT16 of 2GB</td> <td>- V.90 PC Card Modem with XJACK<sup>24</sup></td> <td>10L7393</td> <td>Reset switch on bottom</td> </tr> <tr> <td colspan="6">- D: drive is FAT32 of remaining space</td> <td>- V.90 56K PC Card Modem with Cellular Capability<sup>24</sup></td> <td>02K4196</td> <td>Plug and Play 1.0a</td> </tr> <tr> <td colspan="6">Pressing F1 during startup brings up IBM BIOS Setup Utility</td> <td>- 10/100 Ethernet CardBus PC Card</td> <td>08L3147</td> <td>Standby, suspend, redisafe, and hibernation modes</td> </tr> <tr> <td colspan="6">- ThinkPad Proven™ solutions<sup>12</sup> (visit www.ibm.com/pc/us/thinkpad/proven)</td> <td>- 10/100 EtherJet plus 56K modem<sup>37</sup></td> <td>08L3167</td> <td>ENERGY STAR compliant</td> </tr> <tr> <td colspan="6"></td> <td>- Turbo 16/4 Token-Ring PC Card II</td> <td>34L1401</td> <td>International Warranty Service<sup>14</sup></td> </tr> <tr> <td colspan="6"></td> <td>- Smart Card Security Kit</td> <td>33L5075</td> <td>IBM SystemXtra<sup>35</sup></td> </tr> <tr> <td colspan="6"></td> <td>- IBM Portable Drive Bay (UltraslimBay)</td> <td>37L1511</td> <td>24 hour / 7 day<sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</td> </tr> <tr> <td colspan="6"></td> <td>- Zip 100MB UltraslimBay Drive</td> <td>37L1507</td> <td></td> </tr> <tr> <td colspan="6"></td> <td>- SuperDisk LS-120 UltraslimBay Drive</td> <td>20L1929</td> <td></td> </tr> <tr> <td colspan="6"></td> <td>- DVD-ROM UltraslimBay Drive</td> <td>05K8890</td> <td></td> </tr> <tr> <td 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Indicators	- C: drive is FAT16 of 2GB						- V.90 PC Card Modem with XJACK <sup>24</sup>	10L7393	Reset switch on bottom	- D: drive is FAT32 of remaining space						- V.90 56K PC Card Modem with Cellular Capability <sup>24</sup>	02K4196	Plug and Play 1.0a	Pressing F1 during startup brings up IBM BIOS Setup Utility						- 10/100 Ethernet CardBus PC Card	08L3147	Standby, suspend, redisafe, and hibernation modes	- ThinkPad Proven™ solutions <sup>12</sup> (visit www.ibm.com/pc/us/thinkpad/proven)						- 10/100 EtherJet plus 56K modem <sup>37</sup>	08L3167	ENERGY STAR compliant							- Turbo 16/4 Token-Ring PC Card II	34L1401	International Warranty Service <sup>14</sup>							- Smart Card Security Kit	33L5075	IBM SystemXtra <sup>35</sup>							- IBM Portable Drive Bay (UltraslimBay)	37L1511	24 hour / 7 day <sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support							- Zip 100MB UltraslimBay Drive	37L1507								- SuperDisk LS-120 UltraslimBay 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<p><b>WINDOWS 98 PRELOAD<sup>16</sup></b></p> <ul style="list-style-type: none"> <li>- Microsoft® Windows® 98 (Model 21U) or Microsoft® Windows® 98 Second Edition (Model 31U and 41U)</li> <li>• Online User's Guide</li> <li>• ThinkPad Configuration Program</li> <li>• ThinkPad Utilities</li> <li>• ThinkPad on the Net</li> <li>• Access ThinkPad</li> <li>• IBM Update Connector</li> <li>• RingCentral Fax</li> <li>• IBM Registration</li> <li>• IBM Global Network Dialer</li> <li>• Netscape Communicator</li> <li>• PC-Doctor</li> <li>• ConfigSafe®</li> <li>• Norton AntiVirus™ (OEM Version)</li> <li>• Universal Management Services (web)</li> <li>✧ Software Selections CD</li> <li>✧ Lotus® SmartSuite Millennium CD</li> <li>✧ Recovery CD-ROM (Windows 98)</li> <li>✧ Recovery CD-ROM (Windows 95)<sup>7</sup></li> </ul> <p>Disks are S.M.A.R.T.<sup>29</sup> compliant</p>																																																																																																																																																																																														

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≈ = Withdrawn from marketing

No warranties are expressed or implied in this summary  
(240) © IBM Corp. January 2001

# IBM ThinkPad® 240X - withdrawn

<b>IBM® ThinkPad®</b>				
Processor	<b>Intel® Mobile Celeron™ 450MHz<sup>1</sup> or Intel Mobile Pentium® III 500MHz / 100MHz system bus</b>			
L2 cache	<i>Celeron: 128KB / onboard (at processor speed); Pentium III: 256KB / onboard (at processor speed)</i>			
Diskette drive	External 3.5" 1.44MB / connects to left side with FDD port / includes case and cable			
CD-ROM	<i>Option: External via USB port or via Portable Drive Bay 2000 and 24X-10X<sup>5</sup> CD-ROM Ultrabay 2000 Drive</i>			
LS-120 and CD-RW	<i>Option: External via Portable Drive Bay 2000 and drive option / no support for DVD in the Portable Drive Bay</i>			
Type-model	<b>2609-51U</b>	<b>2609-52U</b>	<b>2609-61U</b>	<b>2609-62U</b>
Processor	<b>Celeron 450MHz</b>	<b>Celeron 450MHz</b>	<b>Pentium III 500MHz</b>	<b>Pentium III 500MHz</b>
Disk - size / ms	<b>6.0GB<sup>2</sup> / 13ms read / Ultra DMA/33 or PIO Mode 4</b>		<b>12.0GB / 12ms read / ATA-66 or PIO4</b>	
Preload (see side)	<b>Windows 98<sup>7</sup> SE</b>	<b>Windows 2000</b>	<b>Windows 98<sup>7</sup> SE</b>	<b>Windows 2000</b>
Available date	June 2000	June 2000	June 2000	June 2000
Display - size and type	<b>10.4" TFT color (264.16mm) / Active Matrix</b>			
Display - technology	<b>SVGA / 800x600 / 15ms refresh (typical) / 50 to 110 nits</b> 16.7 million simultaneous colors / 150 to 1 contrast (typical)			
Graphics - controller	<b>Silicon Motion® Lynx EM+ SM712G™ / DDC2B / 2MB / SGRAM (embedded) / color space conversion / multiple monitor support<sup>26</sup> for Windows 98</b>			
Graphics - features	Simultaneous LCD and CRT <sup>26</sup> / 180 degree tilt / external SVGA to 1024x768 with 65,536 colors			
Memory - std / max	<b>64MB / 192MB<sup>33</sup></b>			
Memory - features	SDRAM / non-parity / <b>100MHz / 3.3 volt / 64-bit</b> 1 available socket for JEDEC 144-pin SO DIMM / std memory soldered to motherboard / socket accessed by removing three screws and keyboard			
Disk controller / disk	EIDE / PCI 2.1 / supports one internal disk / customer can remove disk for upgrade (by removing three screws on base)			
Keyboard	Keyboard palm rest / 95% size of current standard ThinkPad keyboards / 18mm key pitch			
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / sensitivity / spare caps			
Dimensions	10.2 x 8.0 x 1.05" (86 cubic inches) / 260mm x 202mm x 26.6mm			
Weight <sup>2</sup>	51U/52U: approximately 2.98 lbs (1.35 kg) with battery and disk 61U/62U: approximately 3.28 lbs (1.49 kg) with battery and disk			
Case material	IBM ThinkPad UltraCarbon™ casing / Top: carbon-fiber reinforced plastic; Bottom: glass-fiber reinforced plastic			
Battery - type	51U/52U: Li-Ion (3 cell); 61U/62U: Li-Ion (6 cell); All: intelligent / left side			
Battery - life <sup>10</sup>	51U/52U: 2.1 hrs 61U/62U: 4.2 hrs 51U/52U: Optional 6 cell battery for 4.2 hrs			
Charge time <sup>10</sup>	3.5 hrs on / 3.0 hrs off			
Architecture	<b>Intel 440MX PCiset (82443MX) / combines Host Bridge and PIIX4 in single chip / TI1211 PCMCIA controller / NS PC97338 (FDC, IR, I/O) / PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)</b>			
Docking station	None			
Port replicator	None (all standard ports already on back of system)			
PC Card Std slots	1 Type II or 1 Type I / CardBus 32-bit / PCMCIA 2.1 / no Zoomed Video support			
USB / serial / parallel	One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)			
Other features	72 watt AC adapter			
Video (TV) out	None			
Data/fax modem	<b>56K<sup>37</sup> V.90 / Mini PCI Type IIIb / Lucent 1646</b>			
Audio	16-bit SoundBlaster Pro™ support / CS4281 PCI audio / CS4297A AC97 codec			
Speaker	One internal speaker (.5 watt)			
Audio features	Internal microphone / Fn+Insert and Fn+Delete volume control with mute			
Audio in/out jacks	Microphone jack (mono) / headphone jack (stereo) / line-in jack (stereo)			
Infrared ports	Infrared port on right side / IrDA 1.1 compatible / up to 4Mbps			
Security	Power-on password / setup password / disk password / security keyhole			
Limited warranty <sup>11</sup>	<b>1 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> (door-to-door depot repair service)			
Service options <sup>15</sup>	Service upgrades available based on specific ThinkPad purchased			

### WINDOWS 98 PRELOAD<sup>16</sup>

- Microsoft® Windows® 98 Second Edition
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- Access ThinkPad
- IBM Update Connector
- PC-Doctor
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- Universal Manageability Services (web)
- ✦ Software Selections CD
- ✦ Lotus® SmartSuite® Millennium CD
- ✦ Recovery CD-ROM (Windows 98)
- ✦ Recovery CD-ROM (Windows 95)<sup>7</sup>

### WINDOWS 2000 PRELOAD<sup>16</sup>

- Windows 2000® Professional
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- PC-Doctor
- ConfigSafe
- Norton AntiVirus™ (OEM Version)
- IBM Update Connector
- Universal Manageability Services (web)
- ✦ Software Selections CD
- ✦ Lotus® SmartSuite® Millennium CD
- ✦ Recovery CD-ROM (Windows 2000)
- ✦ Recovery CD-ROM (Windows NT)<sup>40</sup>

Color depth LCD		External Monitor				OPTIONS				FEATURES
Resolution	TFT	60Hz	70Hz	75Hz	85Hz					
640x480	16M	16M	--	16M	16M	- 32MB SO DIMM 100MHz NP SDRAM	20L0253			Toll-free hardware support during the warranty period Personalized web-based support Wired for Management 1.1a compliant DMI 2.0-compliant PC 99-compliant ACPI ready (APM enabled) Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card System Status Indicators Reset switch on bottom Plug and Play 1.0a Standby, suspend, redisafe, and hibernation modes ENERGY STAR compliant International Warranty Service <sup>14</sup> IBM SystemXtra®. <sup>35</sup> 24 hour / 7 day <sup>30</sup> telephone, fax, electronic, and Internet (www.ibm.com/pc/us) support
800x600	16M	16M	--	16M	16M	- 64MB SO DIMM 100MHz NP SDRAM	20L0254			
1024x768*	64K	64K	64K	64K	--	- 128MB SO DIMM 100MHz NP SDRAM	20L0255			
1280x1024	--	--	--	--	--	- 12GB disk, 12ms read, ATA-66	05K9245			
						- High capacity 6-cell Li-Ion Battery	02K6580			
* Virtual screen mode on 10.4" LCD						- UltraSlim 72 watt AC Adapter	02K6699			
All models:						- DC Auto Adapter	02K3381			
- C: drive is FAT16 of 2GB						- V.90 56K Intern Modem with GSM	02K4280			
- D: drive is FAT32 of remaining space						- 10/100 EtherJet™ CardBus Adapter	34L5301			
Pressing F1 during startup brings up IBM BIOS Setup Utility						- IBM 16/4 Token-Ring CardBus Adap	34L4801			
Disks are S.M.A.R.T. <sup>29</sup> compliant						- Smart Card Security Kit	33L5075			
- ThinkPad Proven™ solutions <sup>12</sup> (visit www.ibm.com/pc/us/thinkpad/proven)						- IBM Portable Drive Bay 2000	19K4480			
						- IBM MultiPort USB Hub	00N8215			
						- IBM 340MB microdrive	00N8073			
						- IBM USB Portable CD-ROM Drive	33L5151			
						- IBM USB Mobile Mouse	33L3243			
						- IBM USB Numeric Keypad	33L3225			

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Withdrawn from marketing effective February 2001

No warranties are expressed or implied in this summary  
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# IBM ThinkPad 300, 500, 700, 700C - withdrawn

IBM® ThinkPad®:	⩾ 300 monochrome	⩾ 500 sub-notebook	⩾ 700 monochrome	⩾ 700C color TFT
Processor type	<b>80386 SL</b>	<b>80486 SLC2</b>	<b>80486 SLC</b> <input checked="" type="checkbox"/>	<b>80486 SLC</b> <input checked="" type="checkbox"/>
Processor speed	<b>25 MHz</b>	<b>50/25 MHz</b>	<b>25 MHz</b>	<b>25 MHz</b>
Memory cache	64 KB external	16 KB internal	16 KB internal	16 KB internal
Coprocessor socket	Yes (for 387 SL)	No	Yes (for 387 SL)	Yes (for 387 SL)
Diskette drive	3.5" 1.44 MB	<b>External</b> 3.5" 1.44 MB	3.5" 1.44 MB	3.5" 1.44 MB
Price (retail USD)	\$ 1,999   \$ 2,199	\$ 1,999   \$ 2,499	\$ 2,750   \$ 2,950	\$ 4,350
Type - model	2615-065   2615-067	2603-081   2603-171	9552-300   9552-301	9552-30B
Hard drive - size	<b>80 MB</b> <input checked="" type="checkbox"/>   <b>120 MB</b>	<b>85 MB</b>   <b>170 MB</b>	<b>82 MB</b> <input checked="" type="checkbox"/>   <b>122 MB</b> <input checked="" type="checkbox"/>	<b>120 MB</b> <input checked="" type="checkbox"/>
Hard drive - speed	19 ms   17 ms	15 ms   15 ms	17 ms <input type="radio"/>   17 ms <input type="radio"/>	17 ms <input type="radio"/>
Available date	Oct 92   Oct 92	June 93   Aug 93	Oct 92   Oct 92	Oct 92
Withdrawal date	Oct 93   Oct 93	Dec 93   Dec 93	Oct 93   Oct 93	Oct 93
Display - type	VGA mono <input checked="" type="checkbox"/>	VGA mono	VGA mono <input checked="" type="checkbox"/>	<b>VGA color</b>
Display - grey scales	64 grey scales <input checked="" type="checkbox"/>	64 grey scales	64 grey scales <input checked="" type="checkbox"/>	256 colors 640x480
Display - technology	STN <input checked="" type="checkbox"/>	STN	STN <input checked="" type="checkbox"/>	Thin film transistor
Display - light source	LCD - Side-lit <input checked="" type="checkbox"/>	LCD - backlit	LCD - backlit <input checked="" type="checkbox"/>	Active matrix
Display - size (diag)	9.5 inch <input checked="" type="checkbox"/>	7.4 inch	9.5 inch <input checked="" type="checkbox"/>	10.4 inch
Display - contrast ratio	13 to 1 <input checked="" type="checkbox"/>	18 to 1	18 to 1 <input checked="" type="checkbox"/>	100 to 1
180 degree display tilt	Yes	Yes (external SVGA)	Yes	Yes
Memory - std / max	4 / 12 MB 80 ns	4 / 12 MB 80 ns	4 / 16 MB 80 ns	4 / 16 MB 80 ns
Mem - sockets empty	2 sockets (parity)	1 socket (non-parity)	2 sockets (parity)	2 sockets (parity)
SIMM/ICs available	2, 8 MB SIMMs	4, 8 MB ICs (3.3 volt)	2, 4, 8 MB ICs	2, 4, 8 MB ICs
Keyboard / # of keys	Full size alp/num/ 82	90% size alp/num/ 81	Full size alp/num/ 84	Full size alp/num/84
Fn key functions	Yes (back panel)	11 (in any appl)	None	None
Keyboard slope	Miniature (option)	No	8 degrees (legs)	8 degrees (legs)
Mouse/pointing	Yes	<b>TrackPoint II™</b>	<b>TrackPoint II</b>	<b>TrackPoint II</b>
Ext keyboard support	12 (in any appl)	No	Yes (with opt cable)	Yes (with opt cable)
Dimensions	12.1 x 8.5 x 1.7"	10.1 x 7.2 x 1.6"	11.7 x 8.3 x 1.9"	11.7 x 8.3 x 2.2"
Cubic inches	175 inches	116 inches	185 inches	214 inches
Carrying case	Blk nylon (option)	Blk nylon (option)	Blk nylon (option)	Blk nylon (option)
Color	Charcoal grey	Black	Black	Black
Weight (with battery)	5.9 pounds	3.8 pounds	6.5 pounds	7.6 pounds
Battery - type	Nickel hydride	<b>Sealed lead acid</b>	Nickel hydride	Nickel hydride
Batt - life (per battery)	3 to 10 hours	3 to 9 hours	3.8 to 7.5 hours	2 to 4 hours
Charge time - on / off	10 hrs / 2 hrs	2.5 hrs / 1.2 hrs	3 hrs / 2 hrs	1.5 hrs / 1.4 hrs
Battery - options	None	Nickel hydrid (\$49)	Yes - status indicator	Yes - status indicator
Architecture	AT bus	AT bus	Micro Channel®	Micro Channel
External AT/MCA port	No	No	Yes	Yes
Comm Ctrrdge (1 card)	No (fast parallel)	No	Yes (black)	Yes (black)
Docking Station	No	No	Yes (3550-002) blk	Yes (3550-002) blk
Port replicator	Yes	No	Yes (black)	Yes (black)
Modem/serial slot	None	No	Yes	Yes
PCMCIA 2.01 slots	Modem only	<b>1 Type I or 1 Type II</b>	None	None
Visible LEDs - closed	Yes - batt charge	Yes	Yes	Yes
Serial / parallel ports	Yes / Yes (EPP)	Yes (cable) / Yes (EPP)	Yes / Yes (DMA)	Yes / Yes (DMA)
APM-aware BIOS	APM-aware BIOS	APM-aware BIOS	APM-aware BIOS	APM-aware BIOS
Other features	Hrdw security loop	Hibernation mode	Hrdw security loop	Hrdw security loop
Preinstalled software	None	DOS 5.02, PRODIGY®	DOS 5.02, PRODIGY	DOS 5.02, PRODIGY
Warranty	1 year - carry in or EasyServ (opt onsite)	1 year - carry in or EasyServ (opt onsite)	<b>3 year</b> - carry in or EasyServ (opt onsite)	<b>3 year</b> - carry in or EasyServ (opt onsite)

The 700/720 family hard disks, batteries, and docking station are NOT compatible with 360, 750, 755. The 700/720 memory IS compatible with 360, 750, 755.

<p><b>FEATURES OF 500</b></p> <p><b>Most powerful sub-notebook</b> with 486SLC2  <b>Lightweight 3.8 pounds</b>  <b>Hibernation mode</b> saves memory to the hard drive and shuts system off          External VGA is SVGA (to 800 x 600)          Std external floppy (9 oz) plugs into back          Personalized nameplate in molded indentation  <b>Coupon book with \$4,000 in savings</b>          Self charging battery with <b>integrated wall plug</b> and <b>no memory effect</b> (081, 171)</p> <p><i>ThinkPad 500 models 081 and 171 withdrawn due to problems with the sealed lead acid battery and replaced by models 08N and 17N with a nickel hydride battery</i></p>	<p><b>FEATURES OF 300</b></p> <p>Upgradeable to TFT active color; 8.4" Ethernet on planar for 10baseT, 10base2          Upgradeable to 120 MB (80 MB version)          External VGA is SVGA (to 1024 x 768)          2 level password security          Hot key setup in any application          Standby mode and rest mode          Rest mode lasts up to 2 weeks</p>	<p><b>FEATURES OF 700/700C and 720/720C</b></p> <p><b>3 year international warranty</b>  <b>700/720 mono upgradeable to TFT color</b>  <b>700/700C upgradeable to 486SLC2 50/25</b>  <b>Upgradeable to 120, 160, 240, or 340 MB</b>  <b>Removable hard disk</b>  <b>Pressure activated TrackPoint II</b>          Optional battery w/ power status indicators          Quick Charger holds 2 batt; discharge button  <b>Coupon book with \$4,000 in savings</b></p>
<p><b>FEATURES OF ALL PRODUCTS</b></p> <p>Suspend/resume mode; battery life indicator          Non-disruptive battery exchange          Simultaneous LCD and external CRT          US EPA Energy Star compliant  <b>International warranty</b></p> <p><b>IBM or dealer warranty/service</b>  <b>30 day money back guarantee</b>  <b>24 hour / 7 day fax support</b>  <b>24 hour / 7 day bulletin board support</b>  <b>24 hour / 7 day telephone support at 1-800-772-2227</b></p>		

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight).  
 STN = Super twisted nematic;  = Upgradeable;  = Removable; ⩾ = Withdrawn

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 (1THINKW) Compiled by Roger Dodson, IBM, May 1994



# IBM ThinkPad® 310E and 310ED (EMEA) - withdrawn

IBM® ThinkPad®:	310E	310E	310ED
Processor type	12.1" Dual Scan SVGA color	11.3" TFT SVGA color	12.1" Dual Scan SVGA color / 10X CD-ROM
Processor upgrade	<b>Pentium® MMX™ 133/66MHz<sup>1</sup>   Pentium MMX 150/60MHz   Pentium MMX 133/66MHz</b>		
Processor features	None		
L2 cache	MMX technology / P55CLM / 64-bit to transfers to L2 cache and memory		
External FDD port	<b>256KB</b> / write-back / direct mapped / 7ns / synchronous pipelined burst		
Diskette drive	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)		
CD-ROM drive	Internal 3.5" 1.44MB (on left side)		
Code name	<b>None</b> (upgrade available)   <b>10X<sup>6</sup> CD-ROM</b> / bootable (left side) / CAV LaCrosse-2		
Price	<b>2600-400</b>   <b>2600-600</b>   <b>2600-500</b>		
Type - model	<b>Windows 95 OSR2</b>		
Preload (see side)	November 1997 / July 1998		
Avail / withdrawn date	<b>1.6GB<sup>4</sup></b> / 13ms read; 14ms write / PIO Mode 4 / SMART		
Disk - size / ms	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Disk controller	<b>12.1" Dual Scan SVGA color</b>   <b>11.3" TFT SVGA color</b>   <b>12.1" Dual Scan SVGA color</b>		
Display - size and type	12.1" SVGA color / 640 x 480 or 800 x 600		
Display - technology	256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio   11.3" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio		
Graphics - controller	C&T™ 65550 HiQV32™ / 64-bit SVGA accelerator / 1MB EDO DRAM / 70ns		
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion		
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support		
Graphics - external	External SVGA to 1024x768 with 256 colors		
Memory - std / max	<b>16MB</b> / 64MB / one 16MB SO-DIMM is installed in one of two sockets		
Memory - features	60ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system		
Memory - upgrade	1 socket available for two JEDEC 144 pin EDO SO-DIMM of 8, 16, or 32MB		
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)		
Keyboard slope	Large palm rest / keyboard remains flat (no slope) / no liftup keyboard		
Pointing device	TrackPoint® III / no drag lock keys		
Palm rest	Integrated palm rest / external keyboard support (no optional cable)		
Dimensions	11.7 x 8.9 x 2.0" (208 cubic inches) / 298 mm x 227 mm x 49 mm		
Weight <sup>2</sup>	6.6 pounds (3.0 kg)   6.6 pounds (3.0 kg)   7.1 lbs (3.2 kg)		
Battery - life	3.0 hours   3.5 hours   3.0 hours		
Charge time - on / off	3.5 to 10 hrs / 2.0 hrs / no non-disruptive battery exchange		
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side		
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PCI1131 CardBus (PCI)		
Docking Station	None		
Port replicator	None		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 <b>CardBus 32-bit PCI / Zoomed Video support in lower slot</b>		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	<b>16-bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715</b> Internal stereo speakers / .5 watt / Fn key volume control		
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)		
Telephone	None		
Infrared ports	None		
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility)/ diskette and disk write protect and disable / security keyhole / electronic personalization		
Preinstalled software	Microsoft® Windows® 95 with applications (listed on right)		
Limited warranty <sup>11</sup>	<b>1 year</b> - carry-in		
BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.	<b>OPTIONS</b>		
Fn + F1 = Hot key help	- 2.1GB disk, 13/14ms (user upgradeable) 11J8643		
Fn + F2 = Brightness/contrast	- 3.2GB disk, 13/14ms (user upgradeable) 05K8864		
Fn + arrows = Adjust brightness/contrast	- NiMH Battery 11J8639		
Fn + F3 = LCD/CRT/Simultaneous	- AC Adapter, 3 prong without power cord 11J8699		
Fn + F4 = Fuel gauge	- 16MB SO DIMM 3.3v NP EDO 64-bit, gold 11J8636		
Fn + F5 = Audio volume	- 32MB SO DIMM 3.3v NP EDO 64-bit, gold 11J8637		
Fn + arrows = Adjust volume	- 10X CD-ROM w/ external FDD/cable (dealer installable only) 11J8676		
Fn + F6 = Power mgmt and system info	- 20X-8X Portable CD-ROM 1969010		
Fn + F7 = Standby	- 20X-8X Portable Stereo CD-ROM 1969011		
Fn + F8 = Hibernation	- PCMCIA 33.6Kbps International Data/Fax 42H4319		
Fn + Esc = Close Hot key icon	- PCMCIA 33.6Kbps Modem w/ XJACK 55H6759		
	System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.		
	No suspend mode; has standby and hibernation mode		
	<b>FEATURES</b>		
	Plug and Play 1.0a		
	Standby and hibernation modes		
	Color LED indicator		
	ENERGY STAR compliant		
	Personalized nameplate indentation		
	<b>International Warranty Service<sup>14</sup></b>		
	<b>IBM SystemXtra™</b>		
	<b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</b>		
	<b>IBM and dealer warranty/service</b>		

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# IBM ThinkPad® 310E and 310ED (EMEA) - Spring 1998 - withdrawn

IBM® ThinkPad®:	310E	310E	310ED
Processor type	12.1" Dual Scan SVGA color	12.1" TFT SVGA color	12.1" Dual Scan SVGA color / CD-ROM
Processor upgrade	<b>Pentium® MMX™ 166/66MHz<sup>1</sup></b>		
Processor features	None		
L2 cache	MMX technology / P55CLM / 64-bit to transfers to L2 cache and memory		
External FDD port	<b>256KB</b> / write-back / direct mapped / 7ns / synchronous pipelined burst		
Diskette drive	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)		
CD-ROM drive	Internal 3.5" 1.44MB (on left side)   External 3.5" 1.44MB (connect to rear)		
Price	<b>None</b> (dealer upgrade available)   <b>20X-8X<sup>2</sup> x CD-ROM</b> / bootable (left side) / CAV		
Type - model	<b>2600-A00</b>	<b>2600-C00</b>	<b>2600-B00</b>
Preload (see side)	<b>Windows 95 OSR2</b>		
Avail / withdrawn date	March 1998 / September 1998		
Disk - size / ms	<b>2.1GB<sup>4</sup></b> / 13ms read; 14ms write / PIO Mode 4 / SMART		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	<b>12.1" Dual Scan SVGA color</b>	<b>12.1" TFT SVGA color</b>	<b>12.1" Dual Scan SVGA color</b>
Display - technology	12.1" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio		12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio
Graphics - controller	C&T™ 65550 HiQV32™ / 64-bit SVGA accelerator		
Graphics - memory	1MB EDO DRAM / 70ns		
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion		
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support		
Graphics - external	External SVGA to 1024 x 768 with 256 colors		
Memory - std / max	<b>16MB</b> / 64MB		<b>32MB</b> / 64MB
Memory - implement	One 16MB SO-DIMM is installed in one of two sockets		
Memory - features	60ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system		
Memory - upgrade	1 socket available for two JEDEC 144 pin EDO SO-DIMM of 16 or 32MB		
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)		
Keyboard slope	Large palm rest / keyboard remains flat (no sloop) / no liftup keyboard		
Pointing device	TrackPoint® III / no drag lock keys		
Palm rest	Integrated palm rest / external keyboard support (no optional cable)		
Dimensions	11.7 x 8.9 x 2.0" (208 cubic inches) / 298 mm x 227 mm x 50 mm		
Weight <sup>2</sup>	6.6 pounds (3.0 kg)	6.6 pounds (3.0 kg)	6.9 lbs (3.1 kg)
Battery - life	3.0 hours	2.8 hours	3.0 hours
Charge time - on / off	3.5 to 10 hrs / 2.0 hrs / no non-disruptive battery exchange		
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side		
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1 / 32-bit / 33 Mhz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PCI1131 CardBus (PCI)		
Docking Station	None		
Port replicator	None		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 <b>CardBus 32-bit PCI / Zoomed Video support in lower slot</b>		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	<b>16-bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715</b> Internal stereo speakers / .5 watt / Fn key volume control		
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)		
Telephone	None		
Infrared ports	None		
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility) / diskette and disk write protect and disable / security keyhole / electronic personalization		
Preinstalled software	Microsoft® Windows® 95 with applications (listed on right)		
Limited warranty <sup>11</sup>	<b>1 year</b> - carry-in		
BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.	<b>OPTIONS</b>		System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.
Fn + F1 = Hot key help	- 2.1GB disk 13/14ms (user upgradeable)	11J8643	No suspend mode; has standby and hibernation mode
Fn + F2 = Brightness/contrast	- 3.2GB disk 13/14ms (user upgradeable)	05K8864	
Fn + arrows = Adjust brightness/contrast	- NiMH Battery	11J8639	
Fn + F3 = LCD/CRT/Simultaneous	- AC Adapter, 3 prong without power cord	11J8699	
Fn + F4 = Fuel gauge	- 16MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8636	
Fn + F5 = Audio volume	- 32MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8637	
Fn + arrows = Adjust volume	- 10X CD-ROM w/ external FDD/cable (dealer installable only)	11J8676	
Fn + F6 = Power mgmt and system info	- 20X-8X CD-ROM w/ external FDD/cable (dealer installable only)	05K8867	
Fn + F7 = Standby	- 20X-8X Portable CD-ROM	1969010	
Fn + F8 = Hibernation	- 20X-8X Portable Stereo CD-ROM	1969011	
Fn + Esc = Close Hot key icon	- PCMCIA 33.6Kbps International Data/Fax	42H4319	
	- PCMCIA 33.6Kbps Modem w/ XJACK	55H6759	<b>FEATURES</b>
			Plug and Play 1.0a Standby and hibernation modes Color LED indicator ENERGY STAR compliant Personalized nameplate indentation <b>International Warranty Service<sup>14</sup></b> <b>IBM SystemXtra™</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</b> <b>IBM and dealer warranty/service</b>

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# IBM ThinkPad 345 (non-US) - withdrawn

<b>IBM® ThinkPad®:</b>	⊗ <b>345CS</b> dual scan color	⊗ <b>345C</b> TFT color	<b>ThinkPad 345 is a fast, lightweight, full function, TFT or dual scan color notebook at a very attractive price point</b>	
Processor type	<b>IntelDX4</b>		⊕ <b>Entry priced ThinkPad</b>	
Processor speed	<b>75/25 MHz / 3.3 volt</b>		⊕ <b>Large color 10.4" dual scan or TFT display</b>	
Memory cache	16 KB internal (no L2 cache)		⊕ <b>Fast IntelDX4 75/25 MHz</b>	
Coprocessor socket	Integrated in DX4		⊕ <b>Lightweight (5.2 or 5.5 pounds)</b>	
Processor / L2 upgrade	None		⊕ <b>TrackPoint III</b>	
Diskette drive	3.5" 1.44 MB (not removable)			
Removable CD-ROM	None			
Price	\$	\$	\$	\$
Type - model	2610-EYF	2610-EYG	2610-FYF	2610-FYG
IDE disk - size	<b>360 MB</b>	<b>540 MB</b>	<b>360 MB</b>	<b>540 MB</b>
Hard drive - speed	13 ms	13 ms	13 ms	13 ms
Avail / withdrawn date	Sep 1995 / Jan 1996		Sep 1995 / Apr 1996	
Display - type	<b>VGA color / 640 x 480</b>		<b>VGA color / 640 x 480</b>	
Display - colors	256 simultaneous colors		256 simultaneous colors	
Display - technology	<b>Dual Scan</b> - passive matrix		<b>Black Matrix TFT - active matrix</b>	
Display - diagonal size	<b>10.4 inch</b>		<b>10.4 inch</b>	
Display - contrast ratio	20 to 1		100 to 1	
180 degree display tilt	Yes		Yes	
Graphics - controller	WD90C24A Rev C with 1 MB DRAM			
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 60 Hz)			
Graph - arch/data path	VL-Bus local bus / 32 bit / Simultaneous LCD and CRT			
Memory - std / max	4 MB / 20 MB 70 ns / non-parity / 5 volt		Memory upgraded via	
Mem - sockets empty	1 socket		1 open socket for IC DRAM	
Mem - options available	4, 8, 16 MB IC DRAM		memory card for 20 MB max	
Keyboard / # of keys	Full size alp/num / 85 keys / quiet keyboard			
Fn key functions	7 (in any appl)			
Keyboard slope	None			
Mouse/pointing	<b>TrackPoint III™</b> (no drag lock)			
Ext keyboard support	Yes (with optional cable)			
Dimensions	11.7 x 8.3 x 1.9"		11.7 x 8.3 x 2.0"	
Cubic inches	184 inches		194 inches	
Color	Black		Black	
Weight (with battery)	5.2 pounds		5.5 pounds	
Battery - type	Nickel hydride (NiMH) / non-intelligent			
Batt - life (per battery)	2.5 to 5 hours			
Charge time - on / off	2 hrs / 1.5 hr			
Architecture	AT bus (ISA)			
Docking Station	None			
Port replicator	None			
PCMCIA™ 2.1 slots	1 Type I or 1 Type II or 1 Type III			
Serial / parallel ports	Yes (one 9 pin) 16550A / Yes (EPP)			
Other features	APM-aware BIOS / Selectable boot AC adapter, 35 watts, worldwide, 3 pin, not wallmount			
Audio support	Audio beep only			
Security	Power-on password Locking device keyhole (Kensington™ MicroSaver™ cablelock)			
Preinstalled software	IBM DOS 7.0, Windows™ 3.11, and all appls listed to right:			
Warranty	1 year - ThinkPad EasyServ only			
Warranty options	None			

<p><b>PREINSTALLED APPLICATIONS</b></p> <ul style="list-style-type: none"> <li>- IBM PC DOS 7.0</li> <li>- Windows 3.11</li> <li>- IBM PC Card Director for PCMCIA</li> <li>- IBM ThinkPad Demo</li> <li>- ThinkPad features; Diskette Factory</li> <li>1. Lotus® cc:Mail, for the IBM Global® network,</li> <li>2. Lotus Organizer 1.12</li> <li>3. Lotus ScreenCam 1.0,</li> <li>4. Triton CoSession™ Host,</li> <li>5. PRODIGY®,</li> <li>6. SofNet FaxWorks™ 3.0</li> <li>7. AlphaNet™ FollowFax™</li> <li>8. Sedona REPRINT™</li> <li>9. Video for Windows™ 1.1 Runtime</li> </ul>
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<p>The ThinkPad 345 family has the same physical design as the ThinkPad 340</p>	<p>Options for 345:</p> <ul style="list-style-type: none"> <li>- 4 MB IC DRAM 70 ns Parity 92G7232</li> <li>- 8 MB IC DRAM 70 ns Parity 92G7233</li> <li>- 16 MB IC DRAM 70 ns Parity 92G7234</li> <li>- 4 MB IC DRAM 70 ns non-Parity 92G7236</li> <li>- 8 MB IC DRAM 70 ns non-Parity 92G7237</li> <li>- 16 MB IC DRAM 70 ns non-Parity 92G7424</li> <li>- NiMH Battery Pack (Worldwide) 85G7637</li> <li>- NiMH Battery Pack (Japan) 95G7638</li> <li>- NiMH Battery Pack (EMEA) 85G7605</li> <li>- 35 watt AC Adapter (Worldwide) 85G6680</li> <li>- 35 watt AC Adapter (Japan) 85G6682</li> <li>- 35 watt AC Adapter (EMEA) 85G6683</li> </ul>	<p><b>FEATURES OF 345 FAMILY</b></p> <p>3 power saving modes: standby, suspend, and hibernation</p> <p>Personalized nameplate in molded indentation</p> <p>Battery life indicator</p> <p>Non-disruptive battery exchange</p> <p>US EPA Energy Star compliant</p>
<p>PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides:</p> <ol style="list-style-type: none"> <li>① automatic config of many PCMCIA cards;</li> <li>② visual/audible confirmation of insertion/removal of cards;</li> <li>③ ability to automatically launch an appl (e.g. async emulation) when card inserted;</li> <li>④ status and info on PCMCIA cards installed.</li> </ol>	<p>IC DRAM parity memory from the above options will work but without parity</p>	<p><b>HELPPWARE</b></p> <p><b>International Warranty Service</b>  <b>24 hour / 7 day telephone, bulletin board, fax, and electronic support</b>  <b>IBM or dealer warranty/service</b>  <b>Online Housecall (remote diagnostics)</b>  <b>30 day money back guarantee</b></p>
<p>Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.</p>		
<p>Hard disk and diskette drive are not removable. Keyboard does not lift up.</p>		

**ThinkPad EasyServ™:** customer calls 1-800-565-3344 in Canada, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).  
 □ = Upgradeable; ○ = Removable; ⊗ = Withdrawn from marketing

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 No warranties are expressed or implied in this summary  
 (345) Compiled by Roger Dodson, IBM. May 1996

# IBM ThinkPad 350, 350C, 500, 510Cs - withdrawn

IBM® ThinkPad®:	≧ 350 monochrome	≧ 350C passive color	≧ 500 sub-notebook	≧ 510Cs color sub-notebook
Processor type	All: <b>80486 SL</b> (no math co)		<b>80486 SLC2</b>	<b>Blue Lightning 486BL2-50</b>
Processor speed	All: <b>25 MHz</b>		<b>50/25 MHz</b>	<b>50/25 MHz</b>
Memory cache	All: 8 KB internal (no L2)		16 KB internal (no L2)	16 KB internal (no L2 cache)
Coprocessor socket	All: No		No	No
Diskette drive	All: 3.5" 1.44 MB		<b>External</b> 3.5" 1.44 MB	<b>External</b> 3.5" 1.44 MB (9 oz.)
Price (retail USD)	\$ 1,499	\$ 1,899	\$ 799	\$ 1,799
Type - model	2618-J0A	2618-L0A	2603-08N	2604-C2U
Hard drive - size	<b>125 MB</b>	<b>250 MB</b>	<b>85 MB</b>	<b>200 MB</b>
Hard drive - speed	15 ms	12 ms	15 ms	17 ms
Avail / withdrawal date	June 93 / withd Sep 94	June 93 / withd Sep 94	Dec 93 / withd Jan 95	June 94 / w May 95
Display - type	VGA mono	<b>VGA color</b>	VGA mono	<b>VGA color</b>
Display - grey scales	64 grey scales	256 colors 640 x 480	64 grey scales	256 colors 640 x 480
Display - technology	STN	STN - passive matrix	STN	STN - passive matrix
Display - light source	LCD - Backlit	LCD - Backlit	LCD - backlit	LCD - backlit
Display - size (diag)	9.5 inch	9.2 inch	7.24 inch	7.7 inch
Display - contrast ratio	18 to 1	13 to 1; Single scan	18 to 1	14 to 1; Single scan
180 degree display tilt	Yes (external SVGA)	Yes (external SVGA)	Yes (external SVGA)	Yes (external SVGA)
Graphics - controller	All: 65530 / External VGA is ISO capable (75Hz)		WD90C26	WD90C24A2 / 1 MB video mem
Graphics - vendor	All: Chips & Technologies, Inc.		Western Digital	Western Digital
Graphics - arch/data path	All: Local bus / 16 bit / Peripheral Interface		ISA 16 bit	VL-Bus / VESA 32 bit local bus
Memory - std / max	All: 4 / 20 MB 80 ns		4 / 12 MB 80 ns	4 / 20 MB 80 ns
Mem - sockets empty	All: 1 socket (non-parity)		1 socket (non-parity)	1 socket (non-parity)
Mem - options available	All: 4, 8, 16 MB SIMMs		4, 8 MB ICs (3.3 volt)	4, 8, 16 MB ICs (3.3 volt)
Keyboard / # of keys	All: Full size alp/num/ 85		90% size alp/num/ 81	90% size alp/num/ 81
Fn key functions	All: 2 (in any appl)		11 (in any appl)	15 (in any appl)
Keyboard slope	All: Yes (back panel)		No	No
Mouse/pointing	All: <b>TrackPoint II™</b>		<b>TrackPoint II</b>	<b>TrackPoint II</b>
Ext keyboard support	All: Yes (with opt cable)		No	Yes (on MultiPort)
Dimensions	11.7 x 8.3 x 1.9"	11.7 x 8.3 x 2.0"	10.1 x 7.2 x 1.6"	10.1 x 7.2 x 1.7"
Cubic inches	184 inches	194 inches	116 inches	124 inches
Carrying case	Many options	Many options	Many options	Many options
Color	Black	Black	Black	Black
Weight (with battery)	5.2 pounds	5.8 pounds	3.4 pounds / 3.7 (170M)	4.0 pounds
Battery - type	Nickel hydride (NiMH)	Nickel hydride (NiMH)	Nickel hydride (NiMH)	Nickel hydride (NiMH)
Batt - life (per battery)	2.7 to 9 hours	2 to 7.5 hours	3.5 to 9 hours	2.5 to 8 hours
Charge time - on / off	2 hrs / 1 hr	2 hrs / 1 hr	3 hrs / 1.5 hrs	2.5 hrs / 1.5 hrs
Architecture	All: AT bus (ISA)		AT bus (ISA)	AT bus (ISA)
Docking Station	All: No		No (withdrawn 500)	No
Port replicator	All: No		No had sealed lead	Yes (MultiPort ships standard)
Modem/serial slot	All: Modem only		No acid battery)	No
PCMCIA 2.01 slots	All: <b>1 Type I or 1 Type II</b>		<b>1 Type I or 1 Type II</b>	<b>1 Type I or 1 Type II</b>
Visible LEDs - closed	All: Yes		Yes	Yes
Serial / parallel ports	All: Yes / Yes		Yes (cable) / Yes (EPP)	Yes (MultiPort) / Yes (EPP)
APM-aware BIOS	All: APM-aware BIOS		APM-aware BIOS	APM-aware BIOS
Other features	All: Wallmount AC adapter		Hibernation mode	Microsaver™ security connector
	All: Personalized nameplate in indentation		Personalized nameplate	Hibernation mode
	All: Coupon book with \$4,000 in savings		Coupon book w/ sav	Personalized nameplate in indentation
Preinstalled software	All: IBM DOS 5.02, PRODIGY®		IBM DOS 6.1, PRODIGY	Personal greeting screen at startup
			After July 1 only on	IBM DOS 6.3, Windows 3.1,
			17N: see below	Demo, and 8 appls listed below
Warranty	All: 1 year - carry in or EasyServ (opt onsite)		1 year - carry in or EasyServ (opt onsite)	1 year - carry in or EasyServ (optional onsite for \$40 a year)

FEATURES OF 500 and 510Cs	SOFTWARE PREINSTALLED ON 500-17N (after July 1, 1994) and 510Cs	FEATURES OF ALL PRODUCTS
500: External cable has 2 connectors for serial port and external diskette drive 510: External cable has 1 connector for external diskette drive (serial port on MultiPort).	IBM DOS 6.3, Windows 3.1, Demo, and 8 appls: ① Lotus cc:Mail, ② Lotus Organizer 1.12, ③ Lotus ScreenCam 1.0, ④ Official Airline Guide Flight Disk 1.0, ⑤ Triton CoSession Host, ⑥ PRODIGY, ⑦ America Online, ⑧ SofNet FaxWorks 3.0	Suspend/resume mode; battery life indicator Non-disruptive battery exchange Simultaneous LCD and external CRT US EPA Energy Star compliant <b>International travelers warranty IBM or dealer warranty/service</b> <b>30 day money back guarantee</b> <b>24 hour / 7 day fax support</b> <b>24 hour / 7 day bulletin board support</b> <b>24 hour / 7 day telephone support at 1-800-772-2227</b>
<b>MultiPort:</b> A port replicator with connectors for diskette drive, external display, mouse/keyboard, and serial device (ships with 510Cs). Plugs into 160 pin connector on back. 3 power saving modes: doze, suspend, hibernation. Batteries in 500 and 510Cs are NOT compatible	EasyPlaying (PC Card Director™) is preloaded and on the utility diskette for DOS, Windows and OS/2; it provides status and info on PCMCIA cards installed. In Windows and OS/2, it can register an appl for PCMCIA cards and execute them automatically. Auto Configurator and Memory Device Driver enables supported PCMCIA cards by sensing them automatically (so do not need to install their device drivers).	ThinkPad 500 memory (4, 8 MB IC 3.3 volt) is compatible with ThinkPad 510Cs. ThinkPad 510Cs MultiPort is NOT compatible with ThinkPad 500.
≧ Withdrawn from marketing		

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for \$99.  
 \* Price decrease effective July 13 (350C) and Aug 18 (510), 1994.

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 No warranties are expressed or implied in this summary  
 (1THINK) Compiled by Roger Dodson, IBM. April 1995

# IBM ThinkPad 355 - withdrawn

IBM® ThinkPad®:	355	355Cs	355C
	monochrome	dual scan color	TFT color
Processor type	All: <b>80486 SX</b> (no math coprocessor)		
Processor speed	All: <b>33MHz</b> 3.3 volt (SL Enhanced)		
Memory cache	All: 8KB internal (no L2 cache)		
Coprocessor socket	All: No		
Removable diskette	All: 3.5" 1.44MB ○		
Price (retail USD)	\$ 1,899	\$ 2,599	\$ 3,399
Type - model	2619-I15	2619-K20	2619-L50
Removable disk - size	<b>125MB</b> ■	<b>170MB</b> ■	<b>125MB</b> ■
Hard drive - speed	15ms ○	15ms ○	15ms ○
Available date	June 94	June 94	July 94
Display - type	VGA mono	<b>VGA color</b>	<b>VGA color</b>
Display - grey scales	64 greyscales 640x480	256 colors 640 x 480	256 colors 640 x 480
Display - technology	STN	STN - passive matrix	<b>TFT - active matrix</b>
Display - light source	LCD - Backlit	LCD - Backlit	LCD - Backlit
Display - size (diag)	9.5 inch	9.5 inch <b>Dual scan</b>	8.4 inch
Display - contrast ratio	18 to 1	20 to 1	100 to 1
180 degree display tilt	Yes	Yes	Yes
Graphics - controller	All: WD90C24A2 with 1MB DRAM / Graphics WinMarks 4.0 = 3.7		
Graphics - vendor	All: Western Digital / External SVGA to 1024x768 with 256 colors		
Graph - arch/data path	All: VL-Bus / 32-bit VESA local bus / Simultaneous LCD and CRT		
Memory - std / max	All: 4 / 20MB 70ns		
Mem - sockets empty	All: 1 socket (non-parity)		
Mem - options available	All: 4, 8, 16MB ICs (5.0 volts)		
Keyboard / # of keys	All: Full size alp/num/ 85		Fn + F2 = Fuel gauge
Fn key functions	All: 10 (in any appl)		Fn + F3 = Standby
Keyboard slope	All: Yes (legs pop out)		Fn + F4 = Suspend
Mouse/pointing	All: <b>TrackPoint II™</b>		Fn + F5 = Audio off/down
Ext keyboard support	All: Yes (with optional cable)		Fn + F6 = Audio on/up
Dimensions	11.7 x 8.3 x 1.7"	11.7 x 8.3 x 2.0"	11.7 x 8.3 x 1.9"
Cubic inches	165 inches	194 inches	185 inches
Carrying case	Many options	Many options	Many options
Color	Black	Black	Black
Weight (with battery)	5.6 pounds	6.2 pounds	6.1 pounds
Battery - type	Nickel hydride	Nickel hydride	Nickel hydride
Batt - life (per battery)	4.6 to 10 hours	3 to 7 hours	3.5 to 7 hours
Charge time - on / off	2 hrs / 1.5 hr	2 hrs / 1.5 hr	2 hrs / 1.5 hr
Architecture	All: AT bus (ISA)		
Docking Station	All: No		
Port replicator	All: No		
Data/fax modem	All: 2400 data / 4800 receive fax / 9600 send fax		
PCMCIA 2.01 slots	All: <b>1 Type I or 1 Type II or 1 Type III</b>		
Serial / parallel ports	All: Yes (one 9 pin) / Yes		
Other features	All: APM-aware BIOS / Selectable boot		
	All: Wallmount AC adapter without powercord with retractable prongs, 30 watts		
	All: <b>Hibernation mode</b> saves memory to disk and shuts off system		
Security	All: Power-on password / Hard disk password / Hardware security loop / PCMCIA card lock / Optional Security Base		
Preinstalled software	All: MS DOS 6.21, Windows 3.1, Demo, and 8 applications: ① Works for Windows, ② ThinkPad Fitness, ③ ThinkPad Index, ④ Official Airline Guide Flight Disk® 1.0, ⑤ Triton CoSessions™ Host, ⑥ PRODIGY®, ⑦ America Online™, ⑧ SofNet FaxWorks™ 3.0		
Warranty	All: 1 year - carry in to retailer or EasyServ (optional onsite for \$40)		
The ThinkPad 355 family has the same physical design as the ThinkPad 360, 750, and 755.	Compatible in all 355, 360, 750, and 755 family: - Hard disks (170, 250, 340, 540, 810MB) - 1.44MB diskette drive - CDPD Mobile Communications Module - Keyboard/mouse connector - 355 battery does not work in ThinkPad 750/755, but 750/755 battery will work in 355 - Quick Charger - AC Adapter		<b>FEATURES</b> 3 power saving modes: standby, suspend, and hibernation Personalized nameplate in molded indentation External VGA is ISO capable (75Hz) Upgradeable disks: 170MB, 250MB, 340MB, 540MB, 810MB (all 2.5 inch) Battery life indicator Non-disruptive battery exchange US EPA Energy Star compliant <b>IBM or retailer warranty/service</b> <b>30 day money back guarantee</b> <b>24 hour / 7 day fax support</b> <b>24 hour / 7 day bulletin board support</b> <b>24 hour / 7 day telephone support at 1-800-772-2227</b>
EasyPlaying (PC Card Director™) is preinstalled and on the utility diskette for DOS, Windows and OS/2; it provides status and info on PCMCIA cards installed. In Windows and OS/2, it can register an appl for PCMCIA cards and execute them automatically. Auto Configurator and Memory Device Driver enables supported PCMCIA cards by sensing them automatically (so do not need to install their device drivers). This utility ships with ThinkPads 355, 360, 510Cs, and 755 family.	Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 355 (or 360). IC Memory from ThinkPad 700, 720, 750, and 755 will work but without parity.		
Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in Flash memory.	ThinkPad 750 and 755 options compatible ONLY in ThinkPad 355C: - TV tuner		

**ALL 355 MODELS**  
**Liftable (pop-up) keyboard to access and remove:**  
 ① diskette drive  
 ② disk  
 ③ battery  
 ④ memory

*Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ (355C only) to insert TV Tuner (on screen TV/VCR playback), or ④ to add other third party options.*

*An intelligent battery (standard in ThinkPad 750 and 755) is optional. The ThinkPad 355 battery is lower cost, easy to use because no storage-switch control is required, and shows % of remaining power (compared to hours of remaining power).*

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back within 2 business days (no shipping charges, most shipping is overnight). STN = Super twisted nematic; ■ = Upgradeable; ○ = Removable  
 All models withdrawn effective May 1995

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 No warranties are expressed or implied in this summary  
 (355) Compiled by Roger Dodson, IBM. August 1998

# IBM ThinkPad 360 - withdrawn

IBM® ThinkPad®:	≈ 360	≈ 360Cs	≈ 360C	≈ 360P	≈ Traveling Multimedia
	monochrome	dual scan color	TFT color	color pen	preconfigured system
Processor type	All: <b>80486 SX</b> (no math coprocessor)			The 360P supports	
Processor speed	All: <b>33 MHz</b> 3.3 volt (SL Enhanced)			pen based applications	
Memory cache	All: 8 KB internal (no L2 cache)			Available June 94;	
Coprocessor socket	All: No			Withdrawn May 1995	
Removable diskette	All: 3.5" 1.44 MB ○			Part #2337290	
Price (retail USD)	\$ 1,899	\$ 2,299	\$ 2,349	\$ 2,299	\$ 2,599
Type - model	2620-00D	2620-00F	2620-20D	2620-30D	2620-50D
Removable disk - size	<b>170 MB</b> □	<b>340 MB</b> □	<b>170 MB</b> □	<b>340 MB</b> □	<b>170 MB</b> □
Hard drive - speed	15 ms ○	14 ms ○	15 ms ○	14 ms ○	15 ms ○
Available date	May 94 / withd	May 95	May 94 / withd	Dec 95	June 94 / withd
Display - type	VGA mono		VGA color		VGA color
Display - grey scales	64 greyscales 640x480		256 colors 640 x 480		256 colors 640 x 480
Display - technology	STN		STN - passive matrix		STN - passive matrix
Display - light source	LCD - Backlit		LCD - Backlit		LCD - Backlit
Display - size (diag)	9.5 inch		9.5 inch <b>Dual scan</b>		9.5 inch <b>Dual scan</b>
Display - contrast ratio	18 to 1		20 to 1		18 to 1
180 degree display tilt	Yes		Yes		Yes
Graphics - controller	All: WD90C24A2 with 1 MB DRAM / Graphics WinMarks 4.0 = 3.7			Includes untethered	
Graphics - vendor	All: Western Digital / External SVGA to 1024 x 768 with 256 colors			stylus to write on	
Graph - arch/data path	All: VL-Bus / 32 bit VESA local bus / Simultaneous LCD and CRT			pen-enabled screen	
Memory - std / max	All: 4 / 20 MB 70 ns			Diskette drive can be removed ① to reduce weight, ② to insert	
Mem - sockets empty	All: 1 socket (non-parity)			cellular modem (CDPD), ③ (360C only) to insert TV Tuner (on	
Mem - options available	All: 4, 8, 16 MB ICs (5.0 volts)			screen TV/VCR playback), or ④ to add other third party options.	
Keyboard / # of keys	All: Full size alp/num/ 85		Fn + F2 = Fuel gauge		Fn + F7 = Ext display/LCD
Fn key functions	All: 10 (in any appl)		Fn + F3 = Standby		Fn + F8 = Reverse video (mono)
Keyboard slope	All: Yes (legs pop out)		Fn + F4 = Suspend		Fn + F9 = Hi-intensity text (mono)
Mouse/pointing	All: <b>TrackPoint II™</b>		Fn + F5 = Audio off/down		Fn + F11 = Power mgmt
Ext keyboard support	All: Yes (with optional cable)		Fn + F6 = Audio on/up		Fn + F12 = Hibernation mode
Dimensions	11.7 x 8.3 x 1.7"		11.7 x 8.3 x 2.0"		11.7 x 8.3 x 2.1"
Cubic inches	165 inches		194 inches		204 inches
Carrying case	Many options		Many options		Many options
Color	Black		Black		Black
Weight (with battery)	5.6 pounds		6.2 pounds		6.8 pounds
Battery - type	Nickel hydride		Nickel hydride		Nickel hydride
Batt - life (per battery)	4.6 to 10 hours		3 to 7 hours		3.3 to 7 hours
Charge time - on / off	2 hrs / 1.5 hr		2 hrs / 1.5 hr		2 hrs / 1.5 hr
Architecture	All: AT bus (ISA)			An intelligent battery (standard in ThinkPad 750	
Docking Station	All: <b>Yes</b> (Dock I and II; same as 750/755)			and 755) is optional. The ThinkPad 360 battery	
Port replicator	All: <b>Yes</b> (Port Replicator I and II)			is lower cost, easy to use because no storage-	
Modem/serial slot	All: No			switch control is required, and shows % of	
PCMCIA 2.01 slots	All: <b>2 Type I or 2 Type II or 1 Type III</b>			remaining power (compared to hours of remaining	
Serial / parallel ports	All: Yes (one 9 pin) / Yes (EPP)			power).	
Other features	All: APM-aware BIOS / Selectable boot				
	All: Wallmount AC adapter without powercord with retractable prongs, 30 watts				
	All: <b>Hibernation mode</b> saves memory to disk and shuts off system				
Security	All: Power-on password / Hard disk password / Hardware security loop / PCMCIA card lock / Optional Security Base				
Preinstalled software	All: IBM DOS 6.3, Windows 3.1, Demo, and 8 applications:			<b>360P</b> includes software to left and	
	① Lotus® cc:Mail, e-mail for Advantis® network, ② Lotus Organizer 1.12,			① PenDOS® 2.2, ② IBM ThinkWrite,	
	③ Lotus ScreenCam 1.0, ④ Official Airline Guide Flight Disk® 1.0,			③ Windows for Pen Computing 1.0	
	⑤ Triton CoSessions™ Host, ⑥ PRODIGY®, ⑦ America Online™, ⑧ SofNet FaxWorks™ 3.0				
Warranty	All: 1 year - carry in or EasyServ (optional onsite for \$40) / International travelers warranty				

**ALL 360 MODELS**  
**Liftable (pop-up)**  
**keyboard to access**  
**and remove diskette**  
**drive, disk, battery,**  
**and memory**

<p>The ThinkPad 360 family has the same physical design as the ThinkPad 750 and 755.</p> <p>EasyPlaying (PC Card Director™) is preinstalled and on the utility diskette for DOS, Windows and OS/2; it provides status and info on PCMCIA cards installed. In Windows and OS/2, it can register an appl for PCMCIA cards and execute them automatically. Auto Configurator and Memory Device Driver enables supported PCMCIA cards by sensing them automatically (so do not need to install their device drivers). This utility ships with ThinkPads 360, 510Cs, and 755 family.</p> <p>Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in Flash memory.</p>	<p>Compatible in all 360, 750, and 755 family:</p> <ul style="list-style-type: none"> <li>- Hard disks (170, 250, 340, 540, 810 MB)</li> <li>- 1.44 MB diskette drive</li> <li>- Dock I and Dock II</li> <li>- Port Replicator I and Port Replicator II</li> <li>- CDPD Mobile Module (not pen models)</li> <li>- FDD (diskette) External Attachment kit</li> <li>- Keyboard/mouse connector</li> <li>- 360 battery does not work in ThinkPad 750/755, but 750/755 battery will work in 360</li> <li>- Quick Charger</li> <li>- AC Adapter</li> </ul> <p>Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 360. IC Memory from ThinkPad 700, 720, 750, and 755 will work but without parity.</p> <p>ThinkPad 750 and 755 options compatible ONLY in ThinkPad 360C:</p> <ul style="list-style-type: none"> <li>- TV tuner and AD card</li> </ul>	<p><b>FEATURES OF 360 FAMILY</b></p> <p>3 power saving modes: standby, suspend, and hibernation</p> <p>Personalized nameplate in molded indentation</p> <p>External VGA is ISO capable (75 Hz)</p> <p>Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB (all 2.5 inch)</p> <p>Battery life indicator</p> <p>Non-disruptive battery exchange</p> <p>US EPA Energy Star compliant</p> <p><b>International travelers warranty</b></p> <p><b>IBM or dealer warranty/service</b></p> <p><b>30 day money back guarantee</b></p> <p><b>24 hour / 7 day fax support</b></p> <p><b>24 hour / 7 day bulletin board support</b></p> <p><b>24 hour / 7 day telephone support at 1-800-772-2227</b></p> <p>Winstone 94 for 360C = 26.4</p>
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**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.

All trademarks are the property of their respective owners. No warranties are expressed or implied in this summary (360THINK) Compiled by Roger Dodson, IBM, December 1995

STN = Super twisted nematic; □ = Upgradeable; ○ = Removable  
 ✦ Price decrease effective January 26, 1995; ≈ Withdrawn from marketing

# IBM ThinkPad 360CSE / CE - withdrawn

<b>IBM® ThinkPad®:</b>	≧ <b>360CSE</b> dual scan color	≧ <b>360CE</b> TFT color	The 360CSE / CE is the same as the 360 (older models) except:			
Processor type	<b>80486 DX2</b>		<b>360</b>		<b>360CSE / CE</b>	
Processor speed	50/25 MHz 3.3 volt (SL Enhanced)		Mono, Dual scan, TFT, Pen		Dual scan, TFT	
Memory cache	8 KB internal (no L2 cache)		486SX - 33 MHz		486DX2 - 50/25 MHz	
Coprocessor socket	Integrated in 486DX2		No math cop possible		Integrated math cop	
Removable diskette	3.5" 1.44 MB ○ / supports internal 2.88 MB diskette		170, 340 MB std models		170, 340, 540 MB std	
Removable CD-ROM	None				More preloaded apps	
Price (retail USD)	\$ 2,399 ↘	\$ 2,699 ↘	\$ 3,049 ↘	\$ 2,799	\$ 3,099	\$ 3,449
Type - model	2620-80D	2620-80F	2620-80G	2620-90D	2620-90F	2620-90G
Removable disk - size	170 MB □	340 MB □	540 MB □	170 MB □	340 MB □	540 MB □
Hard drive - speed	14 ms ○	14 ms ○	14 ms ○	14 ms ○	14 ms ○	14 ms ○
Available date	Oct 94 / withdrawn Dec 95			Oct 94 / withdrawn Dec 95		
Display - type	VGA color / 640 x 480			VGA color / 640 x 480		
Display - colors	256 simultaneous colors			256 simultaneous colors		
Display - technology	Dual scan - passive matrix			TFT - active matrix		
Display - size (diag)	9.5 inch			8.4 inch		
Display - contrast ratio	20 to 1			100 to 1		
180 degree display tilt	Yes			Yes		
Graphics - controller	WD90C24A or A2 with 1 MB DRAM					
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 75 Hz)					
Graph - arch/data path	VL-Bus local bus / 32 bit / Simultaneous LCD and CRT					
Memory - std / max	4 MB / 20 MB 70 ns / non-parity / 5.0 volt					
Mem - sockets empty	1 socket					
Mem - options available	4, 8, 16 MB ICs					
Keyboard / # of keys	Full size alp/num / 85 keys					
Fn key functions	8 (in any appl)					
Keyboard slope	Yes (legs pop out)					
Mouse/pointing	TrackPoint II™					
Ext keyboard support	Yes (with optional cable)					
Dimensions	11.7 x 8.3 x 2.0"			11.7 x 8.3 x 1.9"		
Cubic inches	194 inches			185 inches		
Color	Black			Black		
Weight (with battery)	6.2 pounds			6.1 pounds		
Battery - type	Nickel hydride (NiMH)			Nickel hydride (NiMH)		
Batt - life (per battery)	2.9 to 7 hours			3.2 to 7 hours		
Charge time - on / off	2 hrs / 1.5 hr			2 hrs / 1.5 hr		
Architecture	AT bus (ISA)					
Docking Station	Dock I and II					
Port replicator	Port Replicator I and II					
Modem/serial slot	No					
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III					
Serial / parallel ports	Yes (one 9 pin) 16550B / Yes (EPP)					
Other features	APM-aware BIOS / Selectable boot Some models will have Wallmount AC adapter without powercord with retractable prongs, 30 watts <b>Hibernation mode</b> saves memory to disk and shuts off system Power-on password / Hard disk password / Hardware security loop / PCMCIA card lock / Optional Security Base					
Security	Power-on password / Hard disk password / Hardware security loop / PCMCIA card lock / Optional Security Base					
Preinstalled software	IBM DOS 6.3, Windows™ 3.11, and all apps listed to right:					
Warranty	1 year - carry in or EasyServ (optional onsite for \$40)					

**ALL 360 MODELS**  
**Liftable (pop-up) keyboard to access and remove diskette drive, disk, battery, and memory**

The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure; \$135) to the Port Replicator Model I and II and Dock I and II.

- Diskette drive can be removed
- to reduce weight
  - to insert cellular modem (CDPD)
  - to insert TV Tuner (for on screen TV and VCR playback)
  - to insert 2.88 MB diskette
  - to add other third party options

#### PREINSTALLED APPLICATIONS

- IBM PC DOS 6.3
  - Windows 3.11
  - IBM PC Card Director for PCMCIA
  - IBM ThinkPad Demo
  - Online Users Guide
  - ThinkPad features
- Lotus® cc:Mail, e-mail for Advantis® network,
  - Lotus Organizer 1.12,
  - Lotus ScreenCam 1.0,
  - Official Airline Guide Flight Disk® 1.0,
  - Triton CoSession™ Host,
  - PRODIGY®,
  - America Online™ SM,
  - SofNet FaxWorks™ 3.0
  - Taxi™
  - Second Nature Screen Saver
  - Farallon® Replica™
  - AlphaNet™ FollowFax™
  - Sedona REPRINT™
  - COMPEL™ Personal Edition
  - Reuters™ Money® Network

<p>The ThinkPad 360 family has the same physical design as the ThinkPad 750 and 755 family.</p> <p>PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides:</p> <ol style="list-style-type: none"> <li>automatic config of many PCMCIA cards;</li> <li>visual/audible confirmation of insertion/removal of cards;</li> <li>ability to automatically launch an appl (e.g. async emulation) when card inserted;</li> <li>status and info on PCMCIA cards installed.</li> </ol> <p>Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.</p>	<p>Compatible in all 360 family, 360CSE / CE, 750 family, 755 family, 755CSE / CE, 755CD:</p> <ul style="list-style-type: none"> <li>- Disks: 170 MB IDE disk 66G2849</li> <li>250 MB IDE disk 84G2391</li> <li>340 MB IDE disk 66G2849</li> <li>540 MB IDE disk 84G2150</li> <li>810 MB IDE disk 84G8250</li> <li>- Dock I (1 slot / 1 bay) 3450001</li> <li>- Dock II (2 slot / 2 bay) 84G3587</li> <li>- Port Replicator I (w/ PCMCIA) 66G3510</li> <li>- Port Replicator II 66G3520</li> <li>- 1.44 MB diskette std in newer 66G0108</li> <li>- 2.88 MB diskette 66G0108</li> </ul> <p>Options for 360 (not pen), 360CSE / CE, 750 (not pen), 755, 755CSE / CE:</p> <ul style="list-style-type: none"> <li>- CDPD Mobile module 71G2560</li> </ul> <p>Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 360. IC Memory from ThinkPad 700, 720, 750, and 755 will work but without parity.</p> <p>Options only for TFT models - 360C, 360CE, 750C, 755C, 755CE, 755CD</p> <ul style="list-style-type: none"> <li>- TV Tuner 66G3689</li> </ul>	<p><b>FEATURES OF 360 FAMILY</b></p> <p>3 power saving modes: standby, suspend, and hibernation</p> <p>Personalized nameplate in molded indentation</p> <p>External VGA is ISO capable (75 Hz)</p> <p>Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB (all 2.5 inch)</p> <p>Battery life indicator</p> <p>Non-disruptive battery exchange</p> <p>US EPA Energy Star compliant</p>																			
	<p>Battery compatibility:</p> <table border="1"> <tr> <td></td> <td>All 360</td> <td>All 750</td> <td>All C/CS</td> <td>755 CE/ CSE/ CD</td> </tr> <tr> <td>84G2392 360 NiMH battery</td> <td>Y</td> <td>N</td> <td>N</td> <td>N</td> </tr> <tr> <td>66G2846 750 NiMH battery</td> <td>Y</td> <td>Y</td> <td>Y</td> <td>N</td> </tr> <tr> <td>85G1513 NiMH Batt Pack II</td> <td>N</td> <td>N</td> <td>N</td> <td>Y</td> </tr> </table> <p>Y = battery supported; N = not supported</p>		All 360	All 750	All C/CS	755 CE/ CSE/ CD	84G2392 360 NiMH battery	Y	N	N	N	66G2846 750 NiMH battery	Y	Y	Y	N	85G1513 NiMH Batt Pack II	N	N	N	Y
	All 360	All 750	All C/CS	755 CE/ CSE/ CD																	
84G2392 360 NiMH battery	Y	N	N	N																	
66G2846 750 NiMH battery	Y	Y	Y	N																	
85G1513 NiMH Batt Pack II	N	N	N	Y																	

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.

□ = Upgradeable; ○ = Removable; ↘ Price decrease effective February 14, 1995.

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No warranties are expressed or implied in this summary  
(360E) Compiled by Roger Dodson, IBM. December 1995

# IBM ThinkPad 360PE - withdrawn

<b>IBM® ThinkPad®:</b> <b>⋈ 360PE</b> dual scan color - pen		<b>The ThinkPad 360PE has the same features as 360CSE except:</b> ⤵ <b>Pen enabled display</b> ⤵ <b>Untethered batteryless stylus (pen)</b> ⤵ <b>Display folds down to flat position to write on</b> ⤵ <b>16 bit audio codec</b> (vs no audio) ⤵ <b>Audio in and audio out jacks</b> ⤵ <b>PenDOS, Pen Windows, and Monologue preinstalled</b> ⤵ <b>35 watt universal AC adapter</b> (vs 30 watt)																
Processor type <b>80486 DX2</b> Processor speed <b>50/25 MHz</b> 3.3 volt (SL Enhanced) Memory cache         8 KB internal (no L2 cache) Coprocessor socket    Integrated in 486DX2 Removable diskette    3.5" 1.44 MB ○ / supports internal 2.88 MB diskette Removable CD-ROM     None	<table border="1"> <tr> <td>Price (retail USD)</td> <td>\$ 3,699</td> <td>\$ 4,049</td> </tr> <tr> <td>Type - model</td> <td>2620-BOF</td> <td>2620-BOG</td> </tr> <tr> <td>Removable disk - size</td> <td><b>340 MB</b> □ ○</td> <td><b>540 MB</b> □ ○</td> </tr> <tr> <td>Hard drive - speed</td> <td>14 ms</td> <td>14 ms</td> </tr> <tr> <td>Avail / withdrawn date</td> <td>April 1995 / June 96</td> <td>July 1995 / June 1996</td> </tr> </table>		Price (retail USD)	\$ 3,699	\$ 4,049	Type - model	2620-BOF	2620-BOG	Removable disk - size	<b>340 MB</b> □ ○	<b>540 MB</b> □ ○	Hard drive - speed	14 ms	14 ms	Avail / withdrawn date	April 1995 / June 96	July 1995 / June 1996	<b>ALL 360 MODELS</b> <b>Liftable (pop-up) keyboard to access and remove diskette drive, disk, battery, and memory</b>
Price (retail USD)	\$ 3,699	\$ 4,049																
Type - model	2620-BOF	2620-BOG																
Removable disk - size	<b>340 MB</b> □ ○	<b>540 MB</b> □ ○																
Hard drive - speed	14 ms	14 ms																
Avail / withdrawn date	April 1995 / June 96	July 1995 / June 1996																
Display - type <b>VGA color / 640 x 480</b> Display - colors       256 simultaneous colors Display - technology <b>Dual scan</b> - passive matrix Display - size (diag) <b>9.5 inch / 20</b> to 1 contrast ratio Display - pen enabled <b>Pen enabled screen / folds flat / includes untethered batteryless stylus</b>	Graphics - controller    WD90C24A or A2 with 1 MB DRAM Graphics - vendor       Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 75 Hz) Graph - arch/data path   VL-Bus local bus / 32 bit / Simultaneous LCD and CRT		The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure) to the Port Replicator Model I and II and Dock I and II.  Diskette drive can be removed ① to reduce weight ② to add other third party options															
Memory - std / max    4 MB / 20 MB 70 ns / non-parity / 5.0 volt Mem - sockets empty    1 socket Mem - options available 4, 8, 16 MB ICs	<table border="1"> <tr> <td colspan="2">Memory options:</td> </tr> <tr> <td>4 MB IC DRAM 70 ns 5v parity</td> <td>92G7232</td> </tr> <tr> <td>8 MB IC DRAM 70 ns 5v parity</td> <td>92G7233</td> </tr> <tr> <td>16 MB IC DRAM 70 ns 5v parity</td> <td>92G7234</td> </tr> <tr> <td>4 MB IC DRAM 70 ns 5v non-parity</td> <td>92G7236</td> </tr> <tr> <td>8 MB IC DRAM 70 ns 5v non-parity</td> <td>92G7237</td> </tr> <tr> <td>16 MB IC DRAM 70 ns 5v non-parity</td> <td>92G7424</td> </tr> </table>		Memory options:		4 MB IC DRAM 70 ns 5v parity	92G7232	8 MB IC DRAM 70 ns 5v parity	92G7233	16 MB IC DRAM 70 ns 5v parity	92G7234	4 MB IC DRAM 70 ns 5v non-parity	92G7236	8 MB IC DRAM 70 ns 5v non-parity	92G7237	16 MB IC DRAM 70 ns 5v non-parity	92G7424	<b>PREINSTALLED APPLICATIONS</b>  - IBM PC DOS 6.3 - <b>PenDOS® 2.2</b> - <b>IBM ThinkWrite 1.21</b> - Windows 3.11 - <b>Windows for Pen computing® 1.0</b> - IBM PC Card Director for PCMCIA - Online Users Guide - ThinkPad features 1. Lotus® cc:Mail, for the IBM Global® network 2. Lotus Organizer 1.12 3. Lotus ScreenCam 1.0 4. Official Airline Guide Flight Disk® 1.0 5. Triton CoSession™ Host 6. PRODIGY® 7. America Online™ 8. SofNet FaxWorks™ 3.0 9. Taxi™ 10. Second Nature Screen Saver 11. Farallon® Replica™ 12. AlphaNet™ FollowFax™ 13. Sedona REPRINT™ 14. COMPEL™ Personal Edition 15. Reuters™ Money® Network 16. Monologue™	
Memory options:																		
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16 MB IC DRAM 70 ns 5v parity	92G7234																	
4 MB IC DRAM 70 ns 5v non-parity	92G7236																	
8 MB IC DRAM 70 ns 5v non-parity	92G7237																	
16 MB IC DRAM 70 ns 5v non-parity	92G7424																	
Keyboard / # of keys   Full size alp/num / 85 keys Fn key functions       8 (in any appl) Keyboard slope         Yes (legs pop out) Mouse/pointing        TrackPoint II™ Ext keyboard support   Yes (with optional cable)	Dimensions            11.7 x 8.3 x 2.1" Cubic inches            204 inches Color                    Black Weight (with battery)   6.8 pounds																	
Battery - type          Nickel hydride (NiMH) Batt - life (per battery) 3 to 7 hours Charge time - on / off   2 hrs / 1.5 hr	Architecture            AT bus (ISA) Docking Station        Dock I and II Port replicator         Port Replicator I and II PCMCIA™ 2.1 slots <b>2 Type I or 2 Type II or 1 Type III</b> Serial / parallel ports   Yes (one 9 pin) / Yes (EPP)																	
Audio support <b>16 bit audio codec on planar / Crystal Semiconductor™ CS4248 / int speaker</b> Audio in/out jack      Input jack / output jack Other features          APM-aware BIOS / Selectable boot AC adapter, 35 watts, worldwide, not wallmount Hibernation mode saves memory to disk and shuts off system	Security                 Power-on password / Hard disk password / Hardware security loop (secures unit, prevents opening keyboard) / PCMCIA card lock / Optional Security Base																	
Preinstalled software   IBM DOS 6.3, Windows™ 3.11, pen op systems, and all appls listed to right: Warranty                 1 year - ThinkPad EasyServ only Warranty options        Onsite via special bid only / ThinkPad EasyServ Overnight Repair Option																		
The ThinkPad 360 family has the same physical design as the ThinkPad 750 and 755 family. PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides: ① automatic config of many PCMCIA cards; ② visual/audible confirmation of insertion/removal of cards; ③ ability to automatically launch an appl (e.g. async emulation) when card inserted; ④ status and info on PCMCIA cards installed. Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.	Compatible in all 360 family, all 750 family, and all 755 family: - Disks: 170 MB IDE            66G2847 250 MB IDE                84G2391 340 MB IDE                66G2849 540 MB IDE                84G2150 810 MB IDE                84G8250 - Dock I (1 slot / 1 bay)       3545001 Dock II (2 slot / 2 bay)    3546001 - Port Replicator I (w/ PCMCIA) 66G3510 - Port Replicator II            66G3520 1.44 MB diskette            std in newer	<b>FEATURES OF 360 FAMILY</b> 3 power saving modes: standby, suspend, and hibernation Personalized nameplate in molded indentation External VGA is ISO capable (75 Hz) Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB (all 2.5 inch) Battery life indicator Non-disruptive battery exchange US EPA Energy Star compliant																
ThinkPad 360PE supported batteries: - 360 NiMH battery            84G2392 - 750 NiMH battery            66G2846 - 750 QuickCharger           66G2843	Options for 360PE: - AC Adapter, 35 watts        85G6680 - AC Adapter, 40 watts        49G2165 - AC Adapter, 40 w, wallmount 84G2148 - Car Battery Adapter         49G2167	<b>HELPWARE</b> <b>1 year warranty</b> <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, and electronic support</b> <b>IBM or dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b> <b>30 day money back guarantee</b>																
Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 360. IC DRAM memory from ThinkPad 700, 720, 750, and 755 will work but without parity.																		

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
 □ = Upgradeable; ○ = Removable; ⋈ = Withdrawn from marketing

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 No warranties are expressed or implied in this summary  
 (360PE) Compiled by Roger Dodson, IBM. June 1996



# IBM ThinkPad 365 (CD-ROM models) - withdrawn

IBM® ThinkPad®:	⋈ 365CSD	⋈ 365CD
	10.4" dual scan - CD-ROM	10.4" TFT - CD-ROM
Processor	Cyrix Cx 486DX4™ 75/25 MHz / integrated math coprocessor	
Processor upgrade	None	
Memory cache	8 KB in DX4 (write-back) / no L2 cache	
Diskette (not internal)	External 3.5" 1.44 MB (connects to back of system) / use simultaneously w/ CD-ROM	
CD-ROM (not remove)	<b>5.25" CD-ROM / double speed / multi-session / XA / front loaded / ATAPI</b>	
Price		
Type - model	<b>all 2625</b>	
Part number	2625-A05 38H5724	2625-W14 41H8663
Preload (see side)	SelectaSystem	Windows 95
Disk - capacity	<b>540 MB</b>	<b>540 MB</b>
Disk - ms / interface	13 ms / EIDE	13 ms / EIDE
Avail / withdrawn date	Nov 1995 / Jun 96	Nov 95 / Jun 96
Display - diagonal size	<b>10.4" Dual scan</b>	<b>10.4" Black Matrix TFT</b> - active matrix
Display - type	<b>VGA color / 640 x 480</b>	<b>VGA color / 640 x 480</b>
Display - color	256 simultaneous colors	<b>262,144 simultaneous colors</b>
Display - contrast	30 to 1	100 to 1
Graphics - controller	Chips and Technologies™ 65545 with 1 MB DRAM	
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 70 Hz	
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt	
Memory - std / max	<b>8 MB / 24 MB</b> 70 ns / non-parity / 3.3 volt / fast page	
Mem - upgrade	1 socket for one JEDEC 72 pin SO DIMM of 4 or 16 MB	
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	<b>Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk); CD-ROM is not removable</b>
Keyboard slope	Yes (legs pop out)	
Pointing	<b>TrackPoint III™</b>	
Ext keyboard support	Yes (with option cable or Port Replicator)	
Dimensions (cubic in)	11.7 x 8.3 x 2.0" (194 cubic inches)	
Weight (with battery)	6.4 pounds	6.3 pounds
Battery - type	NiMH / non-intelligent	
Battery - life	2.5 to 9 hours	
Charge time - on / off	6 hrs / 2 hrs	
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, 240 pin external expansion) VL-Bus 2.0 / 32 bit / 25 MHz (graphics, disk)	
Docking Station	None	
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)	
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Phoenix™ BIOS	
MPEG decoder	None	
Data/fax modem	None	
Audio support	<b>16 bit audio chip / 18 voice MIDI FM Synthesis / ESS1688 with OPL3 Internal speaker / .5 watt / dial volume control / internal microphone</b>	
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) Joystick/MIDI port (includes Joystick/MIDI cable)	
Infrared ports	<b>Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps</b>	
Security	Power-on password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)	
Preinstalled software	Choice of two preloaded configurations (listed to right)	
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in	

**ThinkPad 365 (CD-ROM models) strengths**

- ⊕ Entry-priced CD-ROM notebook
- ⊕ Integrated audio, microphone, speaker
- ⊕ Simultaneous external diskette
- ⊕ Joystick/MIDI port
- ⊕ Infrared port

**SELECTASYSTEM PRELOAD**

- IBM DOS 7.0
- Windows 3.11
- OS/2® Warp 3.0 (dual boot) with selected BonusPak applications
- IBM PC Card Director™ 1.4
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features ; Diskette Factory

1. Lotus® cc:Mail™, e-mail for IBM Global® Network
2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host
5. PRODIGY®
6. SofNet FaxWorks™
7. Video For Windows™ Runtime
8. Puma TranXit™
9. Compuserv for Windows
10. NetFinity for Windows and OS/2

**WINDOWS 95 PRELOAD**

- Microsoft Windows 95
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features; Diskette Factory

1. Lotus® cc:Mail™, e-mail for IBM Global® Network
2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host
5. PRODIGY®
6. SofNet FaxWorks™
7. Puma TranXit™
8. Compuserv for Windows

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365:

- 4 MB SO DIMM 3.3v non-parity 72 pin 92G7287
- 16 MB SO DIMM 3.3v non-parity 72 pin 92G7293
- 720 MB EIDE HDD 13 ms PIO Mode 3 38H6306
- 810 MB EIDE HDD 13 ms PIO Mode 4 442H4012
- 1.08 GB EIDE HDD 13 ms Mode 4 69H7956
- Port Replicator and Charger 38H6303
- NiMH Battery Pack 38H6304

Setup is entered by Ctrl + Alt + F11 from any full-screen DOS prompt

Fn + F2 = Battery guage  
 Fn + F3 = Standby  
 Fn + F4 = Suspend  
 Fn + F7 = LCD/CRT/Simultaneous  
 Fn + F8 = Reverse video  
 Fn + F11 = Power mgmt  
 Fn + F12 = Hibernation  
 PgUp = Speaker enable  
 PgDn = Speaker disable

System enters hibernation mode when keyboard is lifted up.

Disk is not removable (like 755/760 systems), but it can be upgraded via tools

**FEATURES OF 365 MODELS**

- Product Map
- LED indicator panel
- Plug and Play 1.0a
- Non-disruptive battery exchange
- Doze, standby, suspend, safe suspend, and hibernation modes
- US EPA Energy Star compliant
- Personalized nameplate in indentation
- Personalization screen at startup
- International Warranty Service**
- 24 hour / 7 day telephone, bulletin board, fax, and electronic support**
- IBM or dealer warranty/service**
- Online Housecall (remote diagnostics)**
- 30 day money back guarantee**

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
 ⋈ = Withdrawn from marketing

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 No warranties are expressed or implied in this summary  
 (365CD) Compiled by Roger Dodson, IBM. June 1996





# IBM ThinkPad 365ED - withdrawn

<b>IBM® ThinkPad®:</b>	<b>&gt; 365ED</b> 10.4" dual scan - CD-ROM		<b>ThinkPad 365 (CD-ROM models) strengths</b> ⇨ Entry-priced CD-ROM notebook ⇨ Integrated audio, microphone, speaker ⇨ Simultaneous external diskette ⇨ Joystick/MIDI port ⇨ Infrared port ⇨ MPC2 compliant
Processor Processor upgrade Memory cache Diskette (not internal) CD-ROM (not remove)	<b>IBM 5x86c™ 100/33 MHz</b> (Cyrix) / integrated math coprocessor None 16 KB in 5x86c (write-back) / no L2 cache External 3.5" 1.44 MB (connects to back of system) / use simultaneously w/ CD-ROM <b>5.25" CD-ROM / 4 x speed / multi-session / XA / front loaded / ATAPI</b>		
Price Type - model Preload (see side) Disk - capacity Disk - ms / interface Available date Withdrawn date	2625-W9G Windows 95 <b>540 MB</b> 13 ms / EIDE / PIO Mode 3 May 1996 October 1996		<b>WINDOWS 95 PRELOAD</b> - Microsoft Windows 95 - Online Users Guide - Diskette Factory - PC Card Director 1.4 1. Triton CoSession™ Host 2. Puma TranXit™ 3. NetFinity for Windows 4. CompuServ™ for Windows
Display - diagonal size Display - type Display - color Display - contrast	<b>10.4" Dual scan</b> <b>VGA color / 640 x 480</b> 256 simultaneous colors 30 to 1		
Graphics - controller Graphics - external Graph - arch/data path	Chips and Technologies™ 65545 with 1 MB DRAM External SVGA to 1024 x 768 w/ 256 colors up to 70 Hz VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt		
Memory - std / max Mem - upgrade	<b>8 MB / 24 MB</b> 70 ns / non-parity / 3.3 volt / fast page 1 socket for one JEDEC 72 pin SO DIMM of 4 or 16 MB		
Keyboard / # of keys Keyboard slope Pointing Ext keyboard support	Full size alp/num / 85 (8 Fn key functions) Yes (legs pop out) <b>TrackPoint III™</b> Yes (with option cable or Port Replicator)	<b>Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk);          CD-ROM is not removable</b>	
Dimensions (cubic in) Weight (with battery) Battery - type Battery - life Charge time - on / off	11.7 x 8.3 x 2.0" (194 cubic inches) 6.4 pounds NiMH / non-intelligent 2.3 hours 6 hrs / 2 hrs		
Architecture Docking Station Port replicator PCMCIA™ 2.1 slots Serial / parallel ports Other features	ISA (audio, PCMCIA, diskette, serial, parallel, 240 pin external expansion) VL-Bus 2.0 / 32 bit / 25 MHz (graphics, disk) None Port Replicator and Charger (with built-in battery charger and palm rest) 2 Type I or 2 Type II or 1 Type III One 9 pin; 16550A / one (IEEE P1284, EPP, ECP, bidirectional) APM-aware BIOS / Universal AC adapter (35 watts) / Phoenix™ BIOS		
MPEG decoder Data/fax modem Audio support Audio in/out jacks	None None <b>16 bit audio chip / 18 voice MIDI FM Synthesis / ESS1688 with OPL3 Internal speaker / .5 watt / dial volume control / internal microphone</b> Input jack (stereo) / microphone jack / output jack (stereo) Joystick/MIDI port (includes Joystick/MIDI cable)		
Infrared ports	<b>Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps</b>		
Security	Power-on password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)		
Preinstalled software Warranty	Windows 95 with utilities and applications (listed to right) <b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in		
<p>The <b>Port Replicator and Charger</b> provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.</p> <p>The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.</p> <p>Port Replicator and Charger connectors:</p> <ul style="list-style-type: none"> <li>- Serial (RS-232, 9 pin)</li> <li>- Parallel (EPP, ECP, 25 pin)</li> <li>- External display (15 pin)</li> <li>- Keyboard</li> <li>- Mouse</li> <li>- Diskette drive (26 pin)</li> <li>- Game with MIDI support (15 pin)</li> <li>- Audio in (3.5 mm)</li> <li>- Audio out (3.5 mm)</li> <li>- DC input connector</li> <li>- Spare battery connector (to charge 2nd battery)</li> </ul>	<p>Options for ThinkPad 365:</p> <ul style="list-style-type: none"> <li>- 4 MB SO DIMM 3.3v non-parity 72 pin 92G7287</li> <li>- 16 MB SO DIMM 3.3v non-parity 72 pin 92G7293</li> <li>- 810 MB EIDE HDD 13 ms Mode 4 42H4012</li> <li>- 1.08 GB EIDE HDD 13 ms Mode 4 69H7956</li> <li>- Port Replicator and Charger (old) 38H6303 replaced by 75H7529</li> <li>- NiMH Battery Pack 38H6304</li> <li>- 35 watt AC Adapter - 2 pin 85G6719</li> </ul> <p>Setup is entered by Ctrl + Alt + F11 from any full-screen DOS prompt</p> <p>Fn + F2 = Battery guage          Fn + F3 = Standby          Fn + F4 = Suspend          Fn + F7 = LCD/CRT/Simultaneous          Fn + F8 = Reverse video          Fn + F11 = Power mgmt          Fn + F12 = Hibernation          PgUp = Speaker enable          PgDn = Speaker disable</p> <p>System enters hibernation mode when keyboard is lifted up</p> <p>Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver</p>	<b>FEATURES OF 365 MODELS</b> Product Map LED indicator panel Plug and Play 1.0a Non-disruptive battery exchange Doze, standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service Online Housecall (remote diagnostics)</b>	

**ThinkPad EasyServ™:** customer calls IBM HelpCenter, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

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 (365ED) Compiled by Roger Dodson, IBM. October 1996



# IBM ThinkPad 365X (Fall 1996 models) - withdrawn

<b>IBM® ThinkPad®:</b> >= 365X		
10.4" SVGA TFT or 11.3" SVGA DSTN color		
Processor type	<b>Pentium® 120/60 or 133/66MHz</b> / 64-bit transfer to memory	
Processor upgrade	None	
L2 cache	None (not upgradeable)	
Diskette drive	Internal 3.5" 1.44MB m (not removable)	
External FDD port	External FDD port (used if purchase CD-ROM upgrade)	
Internal CD-ROM	None standard / 4 x or 8 x CD-ROM option available which includes an external diskette drive (not customer install)	
Price		
Type - model	2625-3E9	2625-2E9
Preload (see side)	<b>Windows 95</b>	<b>Windows 95</b>
Avail / withdrawn date	October 1996 / July 1997	October 1996 / October 1997
Pentium speed	<b>120/60MHz</b>	<b>133/66MHz</b>
Disk - size / ms	<b>810MB</b> / 13ms ○ / PIO Mode 4	<b>1.08GB</b> / 13ms ○ / PIO Mode 4
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	
Display - size and type	<b>10.4 inch TFT color</b>	<b>11.3 inch DSTN color</b>
Display - technology	<b>SVGA</b> / 640x480 or 800x600 <b>Black Matrix TFT</b> - active matrix 65,536 simultaneous colors / 100 to 1	<b>SVGA</b> / 640x480 or 800x600 <b>Dual scan</b> 256 simultaneous colors / 30 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9320 / 32-bit SVGA accelerator / 1 MB fast page DRAM / 70ns	
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 w/ 256 colors	
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt	
Memory - std / max	<b>8MB</b> / 40MB	
Memory - features	70ns / non-parity / 3.3 volt / EDO / 1 socket for one JEDEC 144 pin EDO SO DIMMs of 8, 16, or 32MB	
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions)	
Keyboard slope	Yes (legs pop out)	
Pointing / palm rest	<b>TrackPoint III™</b> / external keyboard support (w/ option cable or Port Replicator)	
Dimensions	11.7 x 8.3 x 1.9" (185 cu in)	
Weight	6.1 pounds (2.76 kg)	5.9 pounds (2.67 kg)
Battery - type	NiMH/non-intelligent	<b>Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk); diskette drive is not removable</b>
Battery - life	2.5 hours	
Charge time - on / off	1.5 hrs / 1.2 hrs	
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, infrared) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics)	
Docking Station	None	
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)	
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot	
Video in/out	None	
MPEG decoder	None	
Data/fax modem	None	
Audio support	<b>16-bit audio chip / 18 voice MIDI FM Synthesis / ESS1688</b> <b>One internal speaker / .5 watt / dial volume control / internal microphone</b>	
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) / no joystick port	
Infrared ports	<b>Infrared port in back / IrDA 1.0 compatible / up to 115Kbps</b>	
Security	Power-on pwd / Hard disk pwd / Supervisor pwd / Security keyhole (requires cable) / keyboard lock (requires cable)	
Preinstalled software	Microsoft Windows 95 wth applications (listed on right)	
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in	
<p>The <b>Port Replicator and Charger</b> provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.</p> <p>The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.</p> <p>Port Replicator and Charger connectors:</p> <ul style="list-style-type: none"> <li>- Serial (RS-232, 9 pin)</li> <li>- Parallel (EPP, ECP, 25 pin)</li> <li>- External display (15 pin)</li> <li>- Keyboard</li> <li>- Mouse</li> <li>- Diskette drive (26 pin)</li> <li>- Game with MIDI support (15 pin)</li> <li>- Audio in (3.5 mm)</li> <li>- Audio out (3.5 mm)</li> <li>- DC input connector</li> <li>- Spare battery connector (to charge 2nd battery)</li> </ul>		<p>Options for ThinkPad 365X:</p> <ul style="list-style-type: none"> <li>- <b>8MB SO DIMM 3.3v NP EDO 64-bit</b>    <b>92G7340</b></li> <li>- <b>16MB SO DIMM 3.3v NP EDO 64-bit</b>    <b>92G7341</b></li> <li>- <b>32MB SO DIMM 3.3v NP EDO 64-bit</b>    <b>92G7342</b></li> <li>- 810MB EIDE HDD 13ms                    42H4012</li> <li>- 1.08GB EIDE HDD 13ms                    69H7956</li> <li>- 1.4GB EIDE HDD 3L 12.5 mm            82H8161</li> <li>- 2.1GB HDD 13ms                            82H8175</li> <li>- Port Replicator and Charger            75H7529</li> <li>- NiMH Battery Pack                        38H6304</li> <li>- 35 watt AC Adapter (2 pin barrel)      85G6719</li> <li>- 35 watt AC Adapter (slim, 2 pin)       76H0139</li> <li>- 365X 4 x CD-ROM Drive                  73H7225</li> <li>- 8 x CD-ROM                                 83H6726</li> </ul> <p>Fn + F2 = Battery guage Fn + F3 = Standby Fn + F4 = Suspend Fn + F7 = LCD/CRT/Simultaneous Fn + F11 = Power mgmt Fn + F12 = Hibernation</p> <p>Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver</p>
		<p><b>WINDOWS 95 PRELOAD</b></p> <ul style="list-style-type: none"> <li>- Microsoft Windows 95</li> <li>- Online User's Guide</li> <li>- ThinkPad Features</li> <li>- PC Card Director 4.0</li> <li>- Diskette Factory</li> <li>1. Triton CoSession™ Host</li> <li>2. Compuserv for Windows</li> <li>3. NetFinity for Windows 95</li> <li>4. Puma TranXit™</li> <li>- Lotus SmartSuite 96 CD-ROM</li> </ul>
		<p>Easy-Setup is entered by holding F1 when turning on.</p> <p>810MB = DMA Mode 2 or PIO Mode 4 1.08GB = DMA Mode 2 or PIO Mode 4</p>
		<p><b>FEATURES OF 365 MODELS</b></p> <p>Quick Setup Guide LED indicator panel Plug and Play 1.0a Doze, standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet</b> <b>(http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b></p>

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
○ = Removable

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No warranties are expressed or implied in this summary  
(365X96) Compiled by Roger Dodson, IBM. May 1999

# IBM ThinkPad 365XD - withdrawn

<b>IBM® ThinkPad®:</b> <b>365XD</b> 10.4" SVGA DSTN / 10.4" SVGA TFT / 11.3" SVGA DSTN		Key differences between 365ED and 365XD:	
Processor type	<b>Pentium® 100/66 or 120/60MHz</b> / 64-bit transfer to memory	<b>365ED</b>	<b>365XD</b>
Processor upgrade	None	5x86c 100/33MHz	Pentium 100, 120, 133
L2 cache	None (not upgradeable)	8MB fast page (to 24MB)	8MB EDO (to 40MB)
Diskette drive	External 3.5" 1.44MB (connects to back of system) / enclosed in a case with a cable / use simultaneously with CD-ROM	VL-Bus graphics and disk	PCI graphics and disk
External FDD port	External FDD port (works with standard external diskette; no kit reqd)	10.4" VGA 640 x 480 LCD	10.4" or 11.3" SVGA
CD-ROM (not remove)	<b>5.25" CD-ROM / 4 x speed</b> / multi-session / XA / front loaded / ATAPI	540MB disk standard	810MB, 1.08, 1.35GB
Price		Phoenix BIOS	IBM BIOS
Type - model	≈ 2625-6E3	≈ 2625-DEF	≈ 2625-DEE
Preload (see side)	<b>Windows 95</b>	<b>Windows 95</b>	<b>OS/2 Warp Connect</b>
Avail / withdrawn date	May 1996 / January 1997	May 96 / Jan 97	July 1996 / Jan 1997
Pentium speed	<b>100/66MHz</b>	<b>120/60MHz</b>	<b>120/60MHz</b>
Disk - size / ms	<b>810MB</b> / 13ms ○ / PIO Mode 4	<b>1.08GB</b> / 13ms ○ / PIO Mode 4	<b>1.08GB</b> / 13ms ○ / PIO Mode 4
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	<b>10.4 inch DSTN color</b>	<b>10.4 inch TFT color</b>	<b>11.3 inch DSTN color</b>
Display - technology	<b>SVGA</b> / 640x480 or 800x600 <b>Dual scan</b> 256 sim colors / 25 to 1 contrast ratio	<b>SVGA</b> / 640x480 or 800x600 <b>Black Matrix TFT</b> - active matrix 65,536 sim col / 100 to 1 contrast ratio	<b>SVGA</b> / 640x480 or 800x600 <b>Dual scan</b> 256 sim colors / 30 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9320 / 32-bit SVGA accelerator / 1MB fast page DRAM / 70ns		
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 w/ 256 colors		
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt		
Memory - std / max	<b>8MB</b> / 40MB		
Memory - features	70ns / non-parity / 3.3 volt / EDO / 1 socket for one JEDEC 144 pin EDO SO DIMMs of 8, 16, or 32 MB		
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions)		
Keyboard slope	Yes (legs pop out)		
Pointing / palm rest	<b>TrackPoint III™</b> / external keyboard support (w/ option cable or Port Replicator)		
Dimensions	11.7 x 8.3 x 1.9" (185 cubic inches)		
Weight	6.4 pounds (2.9 kg)		
Battery - type	NiMH / non-intelligent	<b>Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk); CD-ROM is not removable</b>	
Battery - life	2.5 hours		
Charge time - on / off	1.5 hrs / 1.2 hrs		
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, infrared) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics)		
Docking Station	None		
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)		
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	<b>16-bit audio chip / 18 voice MIDI FM Synthesis / ESS1688</b> <b>One internal speaker / .5 watt / dial volume control / internal microphone</b>		
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) / no joystick port		
Infrared ports	<b>Infrared port in back / IrDA 1.0 compatible / up to 115Kbps</b>		
Security	Power-on pwd / Hard disk pwd / Supervisor pwd / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)		
Preinstalled software	Microsoft Windows 95 wth applications (listed on right)		
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in		
<p>The <b>Port Replicator and Charger</b> provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.</p> <p>The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.</p> <p>Port Replicator and Charger connectors:</p> <ul style="list-style-type: none"> <li>- Serial (RS-232, 9 pin)</li> <li>- Parallel (EPP, ECP, 25 pin)</li> <li>- External display (15 pin)</li> <li>- Keyboard</li> <li>- Mouse</li> <li>- Diskette drive (26 pin)</li> <li>- Game with MIDI support (15 pin)</li> <li>- Audio in (3.5 mm)</li> <li>- Audio out (3.5 mm)</li> <li>- DC input connector</li> <li>- Spare battery connector (to charge 2nd battery)</li> </ul>		<p>Options for ThinkPad 365XD:</p> <ul style="list-style-type: none"> <li>- <b>8MB SO DIMM 3.3v NP EDO 64-bit</b>    <b>92G7340</b></li> <li>- <b>16MB SO DIMM 3.3v NP EDO 64-bit</b>    <b>92G7341</b></li> <li>- <b>32MB SO DIMM 3.3v NP EDO 64-bit</b>    <b>92G7342</b></li> <li>- 810MB EIDE HDD 13ms                    42H4012</li> <li>- 1.08GB EIDE HDD 13ms                   69H7956</li> <li>- 1.4GB EIDE HDD 3L 12.5 mm            82H8161</li> <li>- 2.1GB HDD 13ms                            82H8175</li> <li>- Port Replicator and Charger            75H7529</li> <li>- NiMH Battery Pack                        38H6304</li> <li>- 35 watt AC Adapter (2 pin barrel)      85G6719</li> <li>- 35 watt AC Adapter (slim, 2 pin)       76H0139</li> <li>- 8 x CD-ROM                                 83H6726</li> </ul> <p>Fn + F2 = Battery guage Fn + F3 = Standby Fn + F4 = Suspend Fn + F7 = LCD/CRT/Simultaneous Fn + F11 = Power mgmt Fn + F12 = Hibernation</p> <p>Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver</p>	
		<p>Easy-Setup is entered by holding F1 when turning on.</p> <p>810MB = DMA Mode 2 or PIO Mode 4 1.08GB = DMA Mode 2 or PIO Mode 4</p>	
		<p><b>FEATURES OF 365 MODELS</b></p> <p>Quick Setup Guide LED indicator panel Plug and Play 1.0a Doze, standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet</b> <b>(http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b></p>	

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
○ = Removable

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(365XD) Compiled by Roger Dodson, IBM. May 1999

# IBM ThinkPad 365XD (Fall 1996+ models) - withdrawn

<b>IBM® ThinkPad®:</b> >= 365XD		10.4" SVGA TFT / 11.3" SVGA DSTN / 11.3" SVGA TFT - CD-ROM	
Processor type	<b>Pentium® 120/60 or 133/66MHz</b> / 64-bit transfer to memory		
Processor upgrade	None		
L2 cache	None (not upgradeable)		
Diskette drive	External 3.5" 1.44MB (connects to back of system) / enclosed in a case with a cable / use simultaneously with CD-ROM		
External FDD port	External FDD port (works with standard external diskette; no kit required)		
CD-ROM (not remove)	<b>5.25" CD-ROM / 4 x speed   5.25" CD-ROM / 6 x speed</b> (all systems upgradeable to 8 x CD-ROM)		
CD-ROM features	Multi-session / XA / front loaded / ATAPI / not bootable / upgradeable		
Type - model (code)	2625-4E9 (Clark 4)	2625-GE9 (Clark 4.5)	2625-1E9 (Clark 4)
Preload (see side)	<b>Windows 95</b>	<b>Windows 95 OSR2</b>	<b>Windows 95</b>
Avail / withdrawn date	October 1996 / July 1997	Feb 1997 / July 1997	October 1996 / October 1997
Pentium speed	<b>120/60MHz</b>	<b>120/60MHz</b>	<b>133/66MHz</b>
Disk - size / ms	<b>810MB</b> / 13ms ○	<b>1.08GB</b> / 13ms ○	<b>1.35 GB</b> / 13ms ○ / PIO Mode 4
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	<b>10.4 inch TFT color</b>		<b>11.3 inch TFT color</b>
Display - technology	SVGA / 640x480 or 800x600 <b>Black Matrix TFT</b> - active matrix 65,536 sim col / 100 to 1 contrast ratio		SVGA / 640x480 or 800x600 <b>Black Matrix TFT</b> - active matrix 65,536 sim col / 100 to 1 cont ratio
Graphics - controller	Trident™ CYBER9320 / 32-bit SVGA accelerator / 1 MB fast page DRAM / 70 ns		
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 w/ 256 colors		
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt		
Memory - std / max	<b>8MB</b> / 40MB		
Memory - features	70ns / non-parity / 3.3 volt / EDO / 1 socket for one JEDEC 144 pin EDO SO DIMMs of 8, 16, or 32 MB		
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions)		
Keyboard slope	Yes (legs pop out)		
Pointing / palm rest	<b>TrackPoint III™</b> / external keyboard support (w/ option cable or Port Replicator)		
Dimensions	11.7 x 8.3 x 1.9" (185 cubic inches)		
Weight	6.4 pounds (2.9 kg)	6.1 pounds (2.77 kg)	6.2 pounds (2.79 kg)
Battery - type	NiMH / non-intelligent	<b>Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk); CD-ROM is not removable</b>	
Battery - life	2.0 hours		
Charge time - on / off	1.5 hrs / 1.2 hrs		
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, infrared) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics)		
Docking Station	None		
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)		
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	<b>16-bit audio chip / 18 voice MIDI FM Synthesis / ESS1688</b> <b>One internal speaker / .5 watt / dial volume control / internal microphone</b>		
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) / no joystick port		
Infrared ports	<b>Infrared port in back / IrDA 1.0 compatible / up to 115Kbps</b>		
Security	Power-on pwd / Hard disk pwd / Supervisor pwd / Security keyhole (requires cable) / keyboard lock (requires cable)		
Preinstalled software	Microsoft Windows 95 wth applications (listed on right)		
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in		
<p>The <b>Port Replicator and Charger</b> provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.</p> <p>The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.</p> <p>Port Replicator and Charger connectors:</p> <ul style="list-style-type: none"> <li>- Serial (RS-232, 9 pin)</li> <li>- Parallel (EPP, ECP, 25 pin)</li> <li>- External display (15 pin)</li> <li>- Keyboard</li> <li>- Mouse</li> <li>- Diskette drive (26 pin)</li> <li>- Game with MIDI support (15 pin)</li> <li>- Audio in (3.5 mm)</li> <li>- Audio out (3.5 mm)</li> <li>- DC input connector</li> <li>- Spare battery connector (to charge 2nd battery)</li> </ul>		<p>Options for ThinkPad 365XD:</p> <ul style="list-style-type: none"> <li>- <b>8MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7340</b></li> <li>- <b>16MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7341</b></li> <li>- <b>32MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7342</b></li> <li>- 810MB EIDE HDD 13ms 42H4012</li> <li>- 1.08GB EIDE HDD 13ms 69H7956</li> <li>- 1.4GB EIDE HDD 3L 12.5 mm 82H8161</li> <li>- 2.1GB HDD 13ms 82H8175</li> <li>- Port Replicator and Charger 75H7529</li> <li>- NiMH Battery Pack 38H6304</li> <li>- 35 watt AC Adapter (2 pin barrel) 85G6719</li> <li>- 35 watt AC Adapter (slim, 2 pin) 76H0139</li> <li>- 8 x CD-ROM 83H6726</li> <li>- 2.1GB HDD 13ms 4000 rpm 82H8175</li> </ul> <p>Fn + F2 = Battery guage Fn + F3 = Standby Fn + F4 = Suspend Fn + F7 = LCD/CRT/Simultaneous Fn + F11 = Power mgmt Fn + F12 = Hibernation</p> <p>Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver</p>	
		<p><b>WINDOWS 95 PRELOAD MODELS 4E9 and 1E9</b></p> <ul style="list-style-type: none"> <li>- Microsoft Windows 95</li> <li>- Online User's Guide</li> <li>- ThinkPad Features Program</li> <li>- PC Card Director 4.0</li> <li>- Diskette Factory</li> <li>1. Triton CoSession™ Host</li> <li>2. CompuServ for Windows</li> <li>3. NetFinity for Windows 95</li> <li>4. Puma TranXit™</li> <li>- Lotus SmartSuite 96 CD-ROM</li> </ul> <p><b>WINDOWS 95 PRELOAD MODELS GE9 and FE9</b></p> <ul style="list-style-type: none"> <li>- Microsoft Windows 95 OSR2</li> <li>- Online User's Guide</li> <li>- ThinkPad Features Program</li> <li>- PC Card Director 4.0</li> <li>- Diskette Factory</li> <li>1. Triton CoSession™ Host</li> <li>2. CompuServ for Windows</li> <li>3. NetFinity for Windows 95</li> <li>4. Puma TranXit™</li> <li>5. IntelliLink Connect</li> <li>6. IBM Anti-Virus</li> <li>7. IGN/Netscape Internet</li> <li>8. IntelliQuest Registration Mailer</li> <li>9. Ergonomics</li> <li>- Lotus SmartSuite 96 CD-ROM</li> </ul>	
		<p>Easy-Setup is entered by holding F1 when turning on.</p> <p>810MB = DMA Mode 2 or PIO Mode 4 1.08GB = DMA Mode 2 or PIO Mode 4 1.35GB = DMA Mode 2 or PIO Mode 4</p> <p><b>FEATURES OF 365 MODELS</b></p> <p>Quick Setup Guide LED indicator panel Plug and Play 1.0a Doze, standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b></p>	

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
○ = Removable

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No warranties are expressed or implied in this summary  
(365XD96) Compiled by Roger Dodson, IBM. May 1999

# IBM ThinkPad 370C (non-US) - withdrawn

<b>IBM® ThinkPad®:</b>		≧ <b>370C</b> TFT color		<b>ThinkPad 370C is positioned between the ThinkPad 360 and ThinkPad 755 family</b>	
Processor type		<b>IntelDX4</b>		<b>Advantages over ThinkPad 360CE</b>	
Processor speed		<b>75/25 MHz / 3.3 volt</b>		⊕ <b>DX4 75/25 MHz</b> (vs DX2 50/25)	
Memory cache		16 KB internal (no L2 cache)		⊕ <b>10.4" color TFT</b> (vs 8.4" color TFT)	
Coprocessor socket		Integrated in DX4		⊕ <b>Black Matrix TFT</b> (vs not Black Matrix)	
Processor / L2 upgrade		None		⊕ <b>36 MB max mem</b> (vs 20 MB max memory)	
Removable diskette		3.5" 1.44 MB ○ / supports internal 2.88 MB diskette			
Removable CD-ROM		None			
Price				<b>ALL 370C MODELS</b>	
Type - model		9545-QPC	9545-QPD	84G2152	<b>Liftable (pop-up) keyboard to access and remove diskette drive, disk, battery, and memory</b>
Removable disk - size		<b>340 MB</b> □ ○	<b>540 MB</b> □ ○	84G6539	
Hard drive - speed		14 ms	14 ms	84G2153	
Available date		May 1995	May 1995	92G7232	
Withdrawn date		May 1996	May 1996	92G7233	
Display - type		<b>VGA color / 640 x 480</b>		92G7234	The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure) to the Port Replicator Model I and II and Dock I and II.  Diskette drive can be removed ① to reduce weight ② to insert cellular modem (CDPD) ③ to insert TV Tuner (for on screen TV and VCR playback) ④ to insert 2.88 MB diskette ⑤ to add other third party options
Display - colors		256 simultaneous colors		92G7236	
Display - technology		<b>Black Matrix TFT - active matrix</b>		92G7237	
Display - diagonal size		<b>10.4 inch / 100 to 1 contrast ratio / 180 degree tilt</b>		92G7424	
Graphics - controller		WD90C24A Rev B with 1 MB DRAM			
Graphics - vendor		Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 75 Hz)			
Graph - arch/data path		VL-Bus local bus / 32 bit / Simultaneous LCD and CRT			
Memory - std / max		4 MB / 36 MB 70 ns / non-parity / 5 volt			
Mem - sockets empty		1 socket			
Mem - options available		2, 4, 8, 16 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter			
Keyboard / # of keys		Full size alp/num / 85 keys			
Fn key functions		8 (in any appl)			
Keyboard slope		Yes (legs pop out)			
Mouse/pointing		<b>TrackPoint II™</b>			
Ext keyboard support		Yes (with optional cable)			
Dimensions		11.7 x 8.3 x 2.0"			
Cubic inches		194 inches			
Color		Black			
Weight (with battery)		6.3 pounds			
Battery - type		Nickel hydride (NiMH) / intelligent			
Batt - life (per battery)		2.9 to 8 hours			
Charge time - on / off		2 hrs / 1.5 hr			
Architecture		AT bus (ISA)			
Docking Station		Dock I and II			
Port replicator		Port Replicator I and II			
PCMCIA™ 2.1 slots		<b>2 Type I or 2 Type II or 1 Type III</b>			
Serial / parallel ports		Yes (one 9 pin) 16550B / Yes (EPP)			
Other features		APM-aware BIOS / Selectable boot AC adapter, 35 watts, worldwide, 3 pin, not wallmount Audio beep only			
Audio support		Power-on password / Hard disk password / Supervisor Password / Hardware security loop (secures unit and prevents opening keyboard) / PCMCIA card lock / Optional Security Base			
Security					
Preinstalled software		IBM DOS 7.0, Windows™ 3.11, and all appls listed to right:			
Warranty		1 year - ThinkPad EasyServ only			
Warranty options		Onsite via special bid only			

<p>The ThinkPad 370 family has the same physical design as the ThinkPad 360, 750, and 755 family.</p> <p>PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides:</p> <ol style="list-style-type: none"> <li>① automatic config of many PCMCIA cards;</li> <li>② visual/audible confirmation of insertion/removal of cards;</li> <li>③ ability to automatically launch an appl (e.g. async emulation) when card inserted;</li> <li>④ status and info on PCMCIA cards installed.</li> </ol> <p>Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.</p>		<p>Compatible in all 360 family, 370 family, 750 family, and 755 family:</p> <table border="0"> <tr><td>- Disks:</td><td>170 MB IDE</td><td>66G2847</td></tr> <tr><td></td><td>250 MB IDE</td><td>84G2391</td></tr> <tr><td></td><td>340 MB IDE</td><td>66G2849</td></tr> <tr><td></td><td>540 MB IDE</td><td>84G2150</td></tr> <tr><td></td><td>810 MB IDE</td><td>84G8250</td></tr> <tr><td></td><td>1.2 GB IDE</td><td>85G8562</td></tr> <tr><td>- Dock I (1 slot / 1 bay)</td><td></td><td>3545001</td></tr> <tr><td>- Dock II (2 slot / 2 bay)</td><td></td><td>3546001</td></tr> <tr><td>- Port Replicator I (w/ PCMCIA)</td><td></td><td>66G3510</td></tr> <tr><td>- Port Replicator II</td><td></td><td>66G3520</td></tr> <tr><td>- 1.44 MB diskette</td><td></td><td>std in newer</td></tr> <tr><td>- 2.88 MB diskette</td><td></td><td>66G0108</td></tr> </table> <p>Options for 370C:</p> <table border="0"> <tr><td>- TV Tuner</td><td>66G3689</td></tr> <tr><td>- CDPD Mobile module</td><td>71G2560</td></tr> <tr><td>- Car Battery Adapter</td><td>49G2167</td></tr> <tr><td>- FDD External Attachment Kit</td><td>66G3618</td></tr> </table> <p>IC DRAM memory from ThinkPad 700, 720, 750, and 755 will work but without parity</p>		- Disks:	170 MB IDE	66G2847		250 MB IDE	84G2391		340 MB IDE	66G2849		540 MB IDE	84G2150		810 MB IDE	84G8250		1.2 GB IDE	85G8562	- Dock I (1 slot / 1 bay)		3545001	- Dock II (2 slot / 2 bay)		3546001	- Port Replicator I (w/ PCMCIA)		66G3510	- Port Replicator II		66G3520	- 1.44 MB diskette		std in newer	- 2.88 MB diskette		66G0108	- TV Tuner	66G3689	- CDPD Mobile module	71G2560	- Car Battery Adapter	49G2167	- FDD External Attachment Kit	66G3618	<p><b>FEATURES OF 370C FAMILY</b></p> <p>3 power saving modes: standby, suspend, and hibernation</p> <p>Personalized nameplate in molded indentation</p> <p>External VGA is ISO capable (75 Hz)</p> <p>Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB, 1.2 GB (all 2.5 inch)</p> <p>Battery life indicator</p> <p>Non-disruptive battery exchange</p> <p>US EPA Energy Star compliant</p>	
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**ThinkPad EasyServ™:** customer calls 1-800-565-3344 in Canada, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

□ = Upgradeable; ○ = Removable; ≧ = withdrawn from marketing

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 No warranties are expressed or implied in this summary  
 (370) Compiled by Roger Dodson, IBM. June 1996

# IBM ThinkPad 380 - withdrawn

<b>IBM® ThinkPad®:</b>	<b>× 380</b> 12.1" SVGA DSTN																															
Processor type	<b>Pentium® 150/60 MHz</b> / 64 bit transfer to L2 cache / 64 bit transfer to memory None																															
Processor upgrade	None																															
L2 cache	<b>256 KB</b> / write-through / direct mapped / 8 ns / synchronous pipelined burst																															
Diskette drive	Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side																															
External FDD port	None since diskette internal																															
CD-ROM	None standard / 8 x CD-ROM internal option available (not customer install)																															
Type - model (code)	<b>2635-10U</b>	<b>All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up</b>																														
Preload (see side)	<b>Windows 95 OSR2</b>																															
Avail / withdrawn date	May 1997 / January 1998																															
Pentium speed	<b>150/60 MHz</b>																															
Disk - size / ms	<b>1.08 GB</b> / 13 ms / PIO Mode 4																															
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer																															
Display - size and type	<b>12.1 inch DSTN color</b> <b>SVGA</b> / 640 x 480 or 800 x 600 <b>Dual scan</b> 65,536 simultaneous colors / 30 to 1 contrast																															
Graphics - controller	<b>NeoMagic™ MagicGraph128ZV™</b> (NM2093) / 128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors																															
Graph - arch/data path	Simultaneous LCD and CRT / 150 degree tilt																															
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt																															
Memory - std / max	<b>16 MB</b> / 80 MB / non-parity / 3.3 volt / EDO 1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw																															
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw																															
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator																															
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator																															
Pointing / palm rest	TrackPoint III™ / no drag lock keys																															
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)																															
Weight	6.6 pounds (2.96 kg)																															
Battery - type / life	NiMH / non-intelligent / 2.2 hrs																															
Charge time - on / off	3.5 to 10 hrs / 2.8 hrs																															
Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCiset / Intel 82371MX PIIX / NS PC87338																															
Docking Station	None																															
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator																															
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / <b>Zoomed Video support in lower slot</b> / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)																															
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)																															
Other features	APM-aware BIOS / Univers AC adapter, barrel (35 watts) / Selectable boot																															
Video in/out	None																															
Data/fax modem	None																															
Audio support	<b>16 bit audio chip</b> / 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236 One internal speaker / .5 watt / dial volume control / internal mic / full duplex Input/microphone jack (stereo) / output jack (stereo) / no joystick port <b>Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps</b>																															
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port																															
Infrared ports	<b>Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps</b>																															
Security	Power-on password / Hard disk password / security keyhole																															
Preinstalled software	Microsoft Windows 95 OSR2 wth applications (listed on right)																															
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years																															
Service options	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years																															
<b>The ThinkPad Enhanced Port Replicator</b> provide cable management, additional I/O ports, and CardBus PC Card slots. Features include: - Dual IBM lock slots to secure the ThinkPad 380, PC Cards, and Port Replicator Port Replicator connectors: - USB - Serial (9 pin); parallel (EPP, ECP, 25 pin) - External display (15 pin) - Keyboard - Mouse - Audio in (3.5 mm) - Audio out (3.5 mm) - Joystick/MIDI port (15 pin) - not on system - External diskette drive connt - not on system - Power connector (requires AC power; can not run on battery) Features of the PC Card slots: - Two Type III slots (side by side) - PC Card Standard 95 compliant - CardBus compliant (PCI 2.1 / 32 bit) - 8/16 bit PC Card support (no Zoomed Video) - Texas Instruments PCI1131 controller - Requires no PCI-to-PCI bridge																																
Options for ThinkPad 380: <table border="0"> <tr> <td>- 8 MB SO DIMM 3.3v NP EDO 64 bit</td> <td><b>92G7340</b></td> </tr> <tr> <td>- 16 MB SO DIMM 3.3v NP EDO 64 bit</td> <td><b>92G7341</b></td> </tr> <tr> <td>- 32 MB SO DIMM 3.3v NP EDO 64 bit</td> <td><b>92G7342</b></td> </tr> <tr> <td>- 64 MB SO DIMM 3.3v NP EDO 64 bit</td> <td><b>76H0268</b></td> </tr> <tr> <td>- ThinkPad 560 Port Replicator</td> <td>46H4209</td> </tr> <tr> <td>- ThinkPad 380/385 Port Replicator</td> <td>84G1316</td> </tr> <tr> <td>- ThinkPad Enhanced Port Replicator</td> <td>11J8997</td> </tr> <tr> <td>- Li-Ion Battery Pack</td> <td>73H9793</td> </tr> <tr> <td>- 35 watt AC Adapter (slim, barrel)</td> <td>76H0139</td> </tr> <tr> <td>- 8 x CD-ROM</td> <td>73H9795</td> </tr> <tr> <td>- 2.1 GB HDD 13 ms</td> <td>73H9797</td> </tr> <tr> <td>- 3.2 GB Disk 13 ms</td> <td>02K0487</td> </tr> <tr> <td>- 5.1 GB Disk 12 ms</td> <td>02K0506</td> </tr> <tr> <td>- 33.6 Kbps Modem with XJACK</td> <td>55H6759</td> </tr> <tr> <td>- 56K PC Card Modem Kit</td> <td>04K0052</td> </tr> </table>			- 8 MB SO DIMM 3.3v NP EDO 64 bit	<b>92G7340</b>	- 16 MB SO DIMM 3.3v NP EDO 64 bit	<b>92G7341</b>	- 32 MB SO DIMM 3.3v NP EDO 64 bit	<b>92G7342</b>	- 64 MB SO DIMM 3.3v NP EDO 64 bit	<b>76H0268</b>	- ThinkPad 560 Port Replicator	46H4209	- ThinkPad 380/385 Port Replicator	84G1316	- ThinkPad Enhanced Port Replicator	11J8997	- Li-Ion Battery Pack	73H9793	- 35 watt AC Adapter (slim, barrel)	76H0139	- 8 x CD-ROM	73H9795	- 2.1 GB HDD 13 ms	73H9797	- 3.2 GB Disk 13 ms	02K0487	- 5.1 GB Disk 12 ms	02K0506	- 33.6 Kbps Modem with XJACK	55H6759	- 56K PC Card Modem Kit	04K0052
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<b>WINDOWS 95 PRELOAD</b> - Microsoft Windows 95 OSR2 (FAT16) - Online User's Guide - ThinkPad Features Program - SystemSoft CardWorks™ - Diskette Factory and Utilities 1. Triton CoSession™ Host 2. NetFinity for Windows 95 3. Puma TranXit™ 4. IntelliLink Connect 5. IBM Anti-Virus 6. IGN/Netscape Navigator browser 7. Media Player 8. IntelliQuest Registration Mailer 9. CompuServe WinCIM 10. Lotus Organizer 11. Ergonomics 12. Marketing Demo - Lotus SmartSuite CD-ROM - Recovery CD-ROM with boot diskette - Windows 95 CD-ROM (no installation)																																
Fn + F2 = Battery guage Fn + F3 = Standby Fn + F4 = Suspend Fn + F7 = LCD/CRT/Simultaneous Fn + F11 = Power mgmt Fn + F12 = Hibernation																																
Easy-Setup is entered by holding F1 when turning on. 1.08 GB = DMA Mode 2 or PIO Mode 4 1.35 GB = DMA Mode 2 or PIO Mode 4 2.1 GB = DMA Mode 2 or PIO Mode 4 3.2 GB = Ultra DMA/33 or PIO Mode 4 5.1 GB = Ultra DMA/33 or PIO Mode 4																																
<b>FEATURES OF 380 MODELS</b> Quick Setup Guide System Status Indicators Plug and Play 1.0a Standby, suspend, safe suspend (RediSafe), and hibernation modes US EPA Energy Star compliant Personalization screen at startup <b>International Warranty Service</b> <b>IBM SystemXtra Program</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>																																

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.

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 No warranties are expressed or implied in this summary  
 (380) Compiled by Roger Dodson, IBM. December 1997



# IBM ThinkPad 380D - withdrawn

<b>IBM® ThinkPad®:</b>	<b>× 380D</b> 12.1" SVGA DSTN or TFT / 8 x CD-ROM		
Processor type	<b>Pentium® 150/60 MHz or 150/60 MHz with MMX™ technology/</b> 64 bit transfer to L2 cache / 64 bit transfer to memory None		
Processor upgrade	None		
L2 cache	<b>256 KB</b> / write-through / direct mapped / 8 ns / synchronous pipelined burst		
Diskette drive	Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side		
External FDD port	None since diskette internal		
CD-ROM	<b>5.25" CD-ROM / 8 x speed/</b> multi-session / XA / ATAPI / not bootable / not removable / on right side		
Type - model (code)	<b>2635-2AU</b>	<b>2635-3AU</b>	<b>All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up</b>
Preload (see side)	<b>Windows 95 OSR2</b>	<b>Windows 95 OSR2</b>	
Avail / withdrawn date	May 1997 / January 1998	May 1997 / January 1998	
Pentium speed	<b>150/60 MHz</b>	<b>150/60 MHz with MMX technology</b>	
Disk - size / ms	<b>1.35 GB</b> / 13 ms / PIO Mode 4	<b>2.1 GB</b> / 13 ms / PIO Mode 4	
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer		
Display - size and type	<b>12.1 inch DSTN color</b>	<b>12.1 inch TFT color</b>	
Display - technology	<b>SVGA</b> / 640 x 480 or 800 x 600 <b>Dual scan</b> 65,536 sim colors / 30 to 1 contrast	<b>SVGA</b> / 640 x 480 or 800 x 600 <b>Black Matrix TFT</b> - active matrix 65,536 simultaneous colors / 100 to 1 contrast ratio	
Graphics - controller	<b>NeoMagic™ MagicGraph128ZV™</b> (NM2093) /128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw		
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors		
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt		
Memory - std / max	<b>16 MB</b> / 80 MB / non-parity / 3.3 volt / EDO		
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw		
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator		
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator		
Pointing / palm rest	TrackPoint III™ / no drag lock keys		
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)		
Weight	7.1 pounds (3.2 kg)	6.9 pounds (3.1 kg)	
Battery - type / life	NiMH / non-intelligent / 2.0 hrs		Li-Ion / non-intelligent / 2.6 hrs
Charge time - on / off	3.5 to 9 hrs / 2.5 to 3.5 hrs		
Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCiset / Intel 82371MX PIIX / NS PC87338		
Docking Station	None		
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / <b>Zoomed Video support in lower slot</b> / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Univers AC adapter, barrel (35 watts) / Selectable boot		
Video in/out	None		
Data/fax modem	None		
Audio support	<b>16 bit audio chip</b> / 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236 One internal speaker / .5 watt / dial volume control / internal mic / full duplex Input/microphone jack (stereo) / output jack (stereo) / no joystick port		
Audio in/out jacks	<b>Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps</b>		
Infrared ports			
Security	Power-on password / Hard disk password / security keyhole		
Preinstalled software	Microsoft Windows 95 OSR2 wth applications (listed on right)		
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years		
Service options			
<b>The ThinkPad Enhanced Port Replicator</b> provide cable management, additional I/O ports, and CardBus PC Card slots. Features include: - Dual IBM lock slots to secure the ThinkPad 380, PC Cards, and Port Replicator Port Replicator connectors: - USB - Serial (9 pin); parallel (EPP, ECP, 25 pin) - External display (15 pin) - Keyboard - Mouse - Audio in (3.5 mm) - Audio out (3.5 mm) - Joystick/MIDI port (15 pin) - not on system - External diskette drive connt - not on system - Power connector (requires AC power; can not run on battery) Features of the PC Card slots: - Two Type III slots (side by side) - PC Card Standard 95 compliant - CardBus compliant (PCI 2.1 / 32 bit) - 8/16 bit PC Card support (no Zoomed Video) - Texas Instruments PCI1131 controller - Requires no PCI-to-PCI bridge		Options for ThinkPad 380: <b>- 8 MB SO DIMM 3.3v NP EDO 64 bit 92G7340</b> <b>- 16 MB SO DIMM 3.3v NP EDO 64 bit 92G7341</b> <b>- 32 MB SO DIMM 3.3v NP EDO 64 bit 92G7342</b> <b>- 64 MB SO DIMM 3.3v NP EDO 64 bit 76H0268</b> - ThinkPad 560 Port Replicator 46H4209 - ThinkPad 380/385 Port Replicator 84G1316 - ThinkPad Enhanced Port Replicator 11J8997 - Li-Ion Battery Pack 73H9793 - 35 watt AC Adapter (barrel, slim) 76H0139 - 8 x CD-ROM 73H9795 - 2.1 GB HDD 13 ms 73H9797 - 3.2 GB Disk 13 ms 02K0487 - 5.1 GB Disk 12 ms 02K0506 - 33.6 Kbps Modem with XJACK 55H6759 - 56K PC Card Modem Kit 04K0052	
		<b>WINDOWS 95 PRELOAD</b> - Microsoft Windows 95 OSR2 (FAT16) - Online User's Guide - ThinkPad Features Program - SystemSoft CardWorks™ - Diskette Factory and Utilities 1. Triton CoSession™ Host 2. NetFinity for Windows 95 3. Puma TranXit™ 4. IntelliLink Connect 5. IBM Anti-Virus 6. IGN/Netscape Navigator browser 7. Media Player 8. IntelliQuest Registration Mailer 9. CompuServe WinCIM 10. Lotus Organizer 11. Ergonomics 12. Marketing Demo - Lotus SmartSuite CD-ROM - Recovery CD-ROM with boot diskette - Windows 95 CD-ROM (no installation)	
		Fn + F2 = Battery guage Fn + F3 = Standby Fn + F4 = Suspend Fn + F7 = LCD/CRT/Simultaneous Fn + F11 = Power mgmt Fn + F12 = Hibernation	
		Easy-Setup is entered by holding F1 when turning on. 1.08 GB = DMA Mode 2 or PIO Mode 4 1.35 GB = DMA Mode 2 or PIO Mode 4 2.1 GB = DMA Mode 2 or PIO Mode 4 3.2 GB = Ultra DMA/33 or PIO Mode 4 5.1 GB = Ultra DMA/33 or PIO Mode 4	
		<b>FEATURES OF 380 MODELS</b> Quick Setup Guide System Status Indicators Plug and Play 1.0a Standby, suspend, safe suspend (RediSafe), and hibernation modes US EPA Energy Star compliant Personalization screen at startup <b>International Warranty Service</b> <b>IBM SystemXtra Program</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>	

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.

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 No warranties are expressed or implied in this summary  
 (380D) Compiled by Roger Dodson, IBM. December 1997

# IBM ThinkPad 380E - withdrawn

<b>IBM® ThinkPad®:</b>	<b>380E</b> 12.1" SVGA FRSTN	
Processor type	<b>Pentium® MMX 150/60 MHz</b> / 64 bit transfer to L2 cache / 64 bit transfer to memory	
Processor upgrade	None	
L2 cache	<b>256 KB</b> / write-through / direct mapped / 8 ns / synchronous pipelined burst	
Diskette drive	Internal 3.5" 1.44 MB / on right side	
External FDD port	None since diskette internal	
CD-ROM	None standard / internal 8 x CD-ROM option available (not customer install)	
Type - model (code)	<b>2635-40U</b>	<b>All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up</b>
Preload (see side)	<b>Windows 95 OSR2</b>	
Avail / withdrawn date	September 1997 / July 1997	
Disk - size / ms	<b>2.1 GB</b> / 13 ms / PIO Mode 4	
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer	
Display - size and type	<b>12.1 inch FRSTN color</b>	
Display - technology	<b>SVGA</b> / 640 x 480 or 800 x 600 <b>Dual scan</b> / Fast Response Super Twisted Nematic (FRSTN) / 150 ms / 70 nits 65,536 simultaneous colors / 35 to 1 contrast ratio	
Graphics - controller	<b>NeoMagic™ MagicGraph128ZV™</b> (NM2093) / 128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw	
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors	
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt	
Memory - std / max	<b>16 MB</b> / 80 MB / non-parity / 3.3 volt / EDO	
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw	
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator	
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator	
Pointing / palm rest	TrackPoint III™ / no drag lock keys	
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)	
Weight	6.7 pounds (3.0 kg)	
Battery - type / life	NiMH / non-intelligent / 2.0 hrs	
Charge time - on / off	3.5 to 10 hrs / 2.8 hrs	
Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCISet / Intel 82371MX PIIx / NS PC87338	
Docking Station	None	
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad Enhanced Port Replicator	
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / <b>Zoomed Video support in lower slot</b> / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Universal AC adapter; barrel (35 or 56 watts)	
Video in/out	None	
MPEG decoder	None (software support for MPEG-1 in Windows 95)	
Data/fax modem	None	
Audio support	<b>16 bit audio chip</b> / 20 voice MIDI FM Synthesis / CS4236B One internal speaker / .5 watt / dial volume control / int mic / full duplex spk/mic	
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port	
Infrared ports	<b>Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps</b>	
Security	Power-on password / Hard disk password / security keyhole / personalization	
Preinstalled software	Microsoft Windows 95 OSR2 wth applications (listed on right)	
Warranty	<b>1 year</b> - ThinkPad EasyServ (depot repair service) or carry-in	
Service options	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years	

### WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features Program
- SystemSoft CardWorks™
- Diskette Factory and Utilities
- 1. Artisoft CoSession™ Host
- 2. NetFinity for Windows 95
- 3. Puma TranXit™
- 4. IBM Anti-Virus
- 5. IBM Global Network (IGN Dialer)
- 6. Netscape Navigator browser
- 7. Media Player
- 8. IntelliQuest Registration Mailer
- 9. Ergonomics
- 10. PointCast (with ThinkPad channel)
- 11. Marketing Demo
- 12. Voyetra Audio Station
- 13. Quicken SE
- Lotus SmartSuite CD-ROM
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)

- Fn + F2 = Battery guage
- Fn + F3 = Standby
- Fn + F4 = Suspend
- Fn + F7 = LCD/CRT/Simultaneous
- Fn + F11 = Power mgmt
- Fn + F12 = Hibernation

Easy-Setup is entered by holding F1 when turning on.

- 1.08 GB = DMA Mode 2 or PIO Mode 4
- 1.35 GB = DMA Mode 2 or PIO Mode 4
- 2.1 GB = DMA Mode 2 or PIO Mode 4
- 3.0 GB = DMA Mode 2 or PIO Mode 4
- 5.1 GB = Ultra DMA/33 or PIO Mode 4

### FEATURES OF 380 MODELS

- Quick Setup Guide
- System Status Indicators
- Plug and Play 1.0a
- Standby, suspend, safe suspend (RediSafe), and hibernation modes
- US EPA Energy Star compliant
- Personalization screen at startup
- International Warranty Service**
- IBM SystemXtra Program**
- 24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support**
- IBM and dealer warranty/service**
- Online Housecall (remote diagnostics)**

<p><b>The ThinkPad Enhanced Port Replicator</b> provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:</p> <ul style="list-style-type: none"> <li>- Dual IBM lock slots to secure the ThinkPad 380, PC Cards, and Port Replicator</li> </ul> <p>Port Replicator connectors:</p> <ul style="list-style-type: none"> <li>- USB</li> <li>- Serial (9 pin); parallel (EPP, ECP, 25 pin)</li> <li>- External display (15 pin)</li> <li>- Keyboard</li> <li>- Mouse</li> <li>- Audio in (3.5 mm)</li> <li>- Audio out (3.5 mm)</li> <li>- Joystick/MIDI port (15 pin) - not on system</li> <li>- External diskette drive conntr - not on system</li> <li>- Power connector (requires AC power; can not run on battery)</li> </ul> <p>Features of the PC Card slots:</p> <ul style="list-style-type: none"> <li>- Two Type III slots (side by side)</li> <li>- PC Card Standard 95 compliant</li> <li>- CardBus compliant (PCI 2.1 / 32 bit)</li> <li>- 8/16 bit PC Card support (no Zoomed Video)</li> <li>- Texas Instruments PCI1131 controller</li> <li>- Requires no PCI-to-PCI bridge</li> </ul>	<p><b>OPTIONS</b></p> <ul style="list-style-type: none"> <li>- <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7340</li> <li>- <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7341</li> <li>- <b>16 MB SO DIMM NP EDO 64 bit (new)</b> 01K1124</li> <li>- <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7342</li> <li>- <b>64 MB SO DIMM 3.3v NP EDO 64 bit</b> 76H0268</li> <li>- ThinkPad 560 Port Replicator 46H4209</li> <li>- ThinkPad 380/385 Port Replicator 84G1316</li> <li>- ThinkPad Enhanced Port Replicator 11J8997</li> <li>- ThinkPad 380/385 Li-Ion Battery (old) 73H9793</li> <li>- ThinkPad 380/385 Li-Ion Battery 02K6507</li> <li>- 35 watt AC Adapter (barrel, slim) 76H0139</li> <li>- 56 watt AC Adapter (barrel; 3 prong) 83H6739</li> <li>- 8 x CD-ROM 73H9795</li> <li>- 2.1 GB Disk 13 ms 73H9797</li> <li>- 3.2 GB Disk 13 ms 02K0487</li> <li>- 5.1 GB Disk 12 ms 02K0506</li> <li>- 33.6 Kbps Modem with XJACK 55H6759</li> <li>- 56K PC Card Modem Kit 04K0052</li> <li>- 56K PC Card Modem/Cellular Capable 02K4196</li> </ul>
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**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)

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No warranties are expressed or implied in this summary  
(380E) Compiled by Roger Dodson, IBM. June 1998

# IBM ThinkPad® 380ED - withdrawn

IBM® ThinkPad®			
Processor type	<b>Pentium® MMX™ 166/66MHz<sup>1</sup></b> / 64-bit transfer to L2 cache / 64-bit transfer to memory	<b>All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up</b>	
Processor upgrade	None		
L2 cache	<b>256KB</b> / write-through / direct mapped / 8ns / synchronous pipelined burst		
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side		
External FDD port	None since diskette internal		
CD-ROM	<b>5.25" CD-ROM / 20X-8X<sup>5</sup> speed</b> / CAV / multi-session / XA / ATAPI / not bootable / not removable / on right side		
Type - model	⚡ <b>2635-5AU</b>	⚡ <b>2635-6AU</b>	⚡ <b>2635-7AU</b>
Preload (see side)	<b>Windows 95 OSR2</b>	<b>Windows 95 OSR2</b>	<b>Windows 95 OSR2</b>
Avail / withdrawn date	September 1997 / September 1998	September 1997 / September 1998	September 1997 / September 1998
Disk - size / ms	<b>2.1GB<sup>4</sup></b> / 13ms / PIO Mode 4	<b>3.0GB</b> / 13ms / PIO Mode 4	<b>5.1GB</b> / 12ms / PIO Mode 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer		
Display - size and type	<b>12.1 inch FRSTN color</b>	<b>12.1 inch TFT color</b>	
Display - technology	<b>SVGA</b> / 640x480 or 800x600 <b>Dual scan</b> / FRSTN / 150ms / 70 nits 65,536 sim colors / 35 to 1 contrast	<b>SVGA</b> / 640x480 or 800x600 <b>Active Matrix TFT</b> / 75ms / 100 nits 65,536 simultaneous colors / 100 to 1 contrast ratio	
Graphics - controller	<b>NeoMagic™ MagicGraph128ZV™</b> (NM2093) / 128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw		
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024 x 768 with 256 colors		
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt		
Memory - std / max	<b>16MB</b> / 80MB / non-parity / 3.3 volt / EDO		
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB / socket accessed from bottom via screw		
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator		
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator		
Pointing / palm rest	TrackPoint® III / no drag lock keys		
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)		
Weight <sup>2</sup>	7.0 pounds (3.2 kg)		
Battery - type / life <sup>10</sup>	Li-Ion / non-intelligent / 2.0 hrs	Li-Ion / non-intelligent / 2.5 hrs	
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs		
Architecture	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338		
Docking Station	None		
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / <b>Zoomed Video support in lower slot</b> / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Universal AC adapter; barrel (35 or 56 watts)		
Video in/out	None		
MPEG decoder	None (software support for MPEG-1 in Windows 95)		
Data/fax modem	None		
Audio support	<b>16-bit audio</b> / 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236B One internal speaker / .5 watt / dial volume control / int mic / full duplex spk/mic		
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port		
Infrared ports	<b>Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps</b>		
Security	Power-on password / Hard disk password / security keyhole / personalization		
Preinstalled software	Microsoft® Windows® 95 OSR2 wth applications (listed on right)		
Limited warranty <sup>11</sup>	<b>1 year</b> - ThinkPad EasyServ (door-to-door depot repair service) or carry-in		
Service options <sup>15</sup>	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years		
<b>The ThinkPad Enhanced Port Replicator</b>	<b>OPTIONS</b>		
provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:	- <b>8MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7340</b> - <b>16MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7341</b> - <b>16MB SO DIMM NP 64-bit (new)</b> <b>01K1124</b> - <b>32MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7342</b> - <b>64MB SO DIMM 3.3v NP EDO 64-bit</b> <b>76H0268</b>		
- Dual IBM lock slots to secure the ThinkPad 380, PC Cards, and Port Replicator	- ThinkPad 560 Port Replicator    46H4209 - ThinkPad 380/385 Port Replicator    84G1316 - ThinkPad Enhanced Port Replicator    11J8997 - ThinkPad 380/385 Li-Ion Battery (old)    73H9793 - ThinkPad 380/385 Li-Ion Battery    02K6507 - 35 watt AC Adapter (barrel; slim)    76H0139 - 56 watt AC Adapter (barrel; 3 prong)    83H6739 - 8X CD-ROM    73H9795 - 2.1GB Disk 13ms    73H9797 - 3.2GB Disk 13ms    02K0487 - 5.1GB Disk 12ms    02K0506 - 33.6Kbps Modem with XJACK    55H6759 - 56K PC Card Modem Kit    04K0052		
Port Replicator connectors:			
- USB			
- Serial (9 pin), parallel (EPP, ECP, 25 pin)			
- External display (15 pin)			
- Keyboard			
- Mouse			
- Audio in (3.5 mm)			
- Audio out (3.5 mm)			
- Joystick/MIDI port (15 pin) - not on system			
- External diskette drive conntr - not on system			
- Power connector (requires AC power; can not run on battery)			
Features of the PC Card slots:			
- Two Type III slots (side by side)			
- PC Card Standard 95 compliant			
- CardBus compliant (PCI 2.1 / 32-bit)			
- 8/16-bit PC Card support (no Zoomed Video)			
- Texas Instruments PCI1131 controller			
- Requires no PCI-to-PCI bridge			
	Easy-Setup is entered by holding F1 when turning on.		
	1.08GB = DMA Mode 2 or PIO Mode 4 1.35GB = DMA Mode 2 or PIO Mode 4 2.1GB = DMA Mode 2 or PIO Mode 4 3.0GB = DMA Mode 2 or PIO Mode 4 5.1GB = Ultra DMA/33 or PIO Mode 4		
	<b>FEATURES</b>		
	Quick Setup Guide System Status Indicators Plug and Play 1.0a Standby, suspend, safe suspend (RediSafe), and hibernation modes ENERGY STAR compliant Personalization screen at startup <b>International Warranty Service<sup>14</sup></b> <b>IBM SystemXtra™</b> <b>24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>		

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)  
⚡ Withdrawn from marketing

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# IBM ThinkPad® 380XD - withdrawn

IBM® ThinkPad®				
Processor type	Intel® Pentium® MMX™ 233/66 or 266/66MHz <sup>1</sup> / 64-bit to L2 cache and memory		<b>All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; removable disk; keyboard does not lift up</b>	
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module			
L2 cache	512KB / write-through / direct mapped / 8.5ns data; 15ns tag / sync pipelined burst			
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side			
External FDD port	None since diskette internal			
CD-ROM	5.25" CD-ROM / 24X-10X <sup>5</sup> speed / CAV / multi-session / XA / ATAPI / bootable / not removable / on right side			
Type - model	2635-8AU	2635-BAU (Auth Assb Prog)	2635-9AU	2635-AAU
Processor	233/66MHz	233/66MHz	233/66MHz	266/66MHz
Preload (see side)	Windows 95 OSR2			
Avail / withdrawn date	March 1998 / September 1998	March 1998 / Sept 1998	March 1998 / Sept 1998	March 1998 / Sept 1998
Disk - size / ms	3.2GB <sup>4</sup> / 13ms / PIO Mode 4	Blank	4.0GB / 13ms / PIO 4	5.1GB / 12ms / PIO Mode 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer			
Display - size and type	12.1 inch HPA color		12.1 inch TFT color	
Display - technology	SVGA / 640x480 or 800x600 Dual scan / HPA / 150ms / 100 nits 16 mil sim colors / 50 to 1 contrast		SVGA / 640x480 or 800x600 Active Matrix TFT / 75ms / 100 nits 16.7 million simultaneous colors / 100 to 1 contrast ratio	
Graphics - controller	NeoMagic™ MagicGraph128XD™ (NM2160B) / 128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw			
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 with 65,536 colors			
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt			
Memory - std / max	32MB / 96MB / non-parity / 3.3 volt / EDO / 60ns			
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB / socket accessed from bottom via screw			
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator			
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator			
Pointing / palm rest	TrackPoint® III / no drag lock keys			
Dimensions / weight <sup>2</sup>	11.8 x 9.2 x 2.4" (260 cubic inches) / 7.1 pounds (3.2 kg)			
Battery - type / life <sup>10</sup>	Li-Ion / non-intelligent / 8AU: 3.5 hrs; 9AU: 4.5 hrs; AAU: 4.0 hrs			
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs			
Architecture	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O) Intel Triton 430TX PCiset / Intel PIIX4 (EIDE, USB, PCI to ISA bridge) Texas Instruments® TI1250A PCMCIA controller			
Docking station	None			
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator			
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / CardBus 32-bit PCI / Zoomed video PCMCIA 2.1 compatible / PC Card Standard 95			
USB / serial / parallel	One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)			
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts)			
Video in/out	None			
MPEG decoder	None (software support for MPEG-1 in Windows 95)			
Data/fax modem	None			
Audio	16-bit / CS4237B / SRS 3D audio / FM synthesis			
Speakers	Two front stereo speakers (.5 watt) / one subwoofer above keyboard (1 watt)			
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic			
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port			
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps			
Security	Power-on password / supervisor password / hard disk password / security keyhole / personalization screen at startup			
Preinstalled software	Microsoft® Windows® 95 OSR2 wth applications (listed on right)			
Limited warranty <sup>11</sup>	1 year - ThinkPad EasyServ (door-to-door depot repair service) or carry-in			
Service options <sup>15</sup>	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years			
<b>The ThinkPad Enhanced Port Replicator</b> provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:	<b>OPTIONS</b>			<ul style="list-style-type: none"> <li>Fn + F2 = Battery gauge</li> <li>Fn + F3 = Standby</li> <li>Fn + F4 = Suspend</li> <li>Fn + F7 = LCD/CRT/Simultaneous</li> <li>Fn + F11 = Power mgmt</li> <li>Fn + F12 = Hibernation</li> </ul>
<ul style="list-style-type: none"> <li>- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator</li> <li>Port Replicator connectors: <ul style="list-style-type: none"> <li>- USB, serial (9 pin), parallel ( 25 pin)</li> <li>- External display (15 pin)</li> <li>- Keyboard and mouse</li> <li>- Audio in (3.5 mm) and audio out (3.5 mm)</li> <li>- Joystick/MIDI port (15 pin) - not on system</li> <li>- External diskette drive conntnr - not on system</li> <li>- Power connector (requires AC power; can not run on battery)</li> </ul> </li> <li>Features of the PC Card slots: <ul style="list-style-type: none"> <li>- Two Type III slots (side by side)</li> <li>- PC Card Standard 95 compliant</li> <li>- CardBus compliant (PCI 2.1 / 32-bit)</li> <li>- 8/16-bit PC Card support (no Zoomed Video)</li> <li>- Texas Instruments PCI1131 controller</li> <li>- Requires no PCI-to-PCI bridge</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- 8MB SO DIMM 3.3v NP EDO 64-bit 92G7340</li> <li>- 16MB SO DIMM 3.3v NP EDO 64-bit 92G7341</li> <li>- 16MB SO DIMM NP EDO 64-bit (new) 01K1124</li> <li>- 32MB SO DIMM 3.3v NP EDO 64-bit 92G7342</li> <li>- 64MB SO DIMM 3.3v NP EDO 64-bit 76H0268</li> <li>- ThinkPad 560 Port Replicator 46H4209</li> <li>- ThinkPad 380/385 Port Replicator 84G1316</li> <li>- ThinkPad Enhanced Port Replicator 11J8997</li> <li>- ThinkPad 380/385 Li-Ion Battery (old) 73H9793</li> <li>- ThinkPad 380/385 Li-Ion Battery 02K6507</li> <li>- 56 watt AC Adapter (barrel; 3 prong) 83H6739</li> <li>- 4.0GB disk, 13ms 05K8871</li> <li>- 6.4GB disk, 13ms, Ultra DMA/33 02K0518</li> <li>- 33.6Kbps Modem with XJACK 55H6759</li> <li>- 56K PC Card Modem Kit 04K0052</li> <li>- 56K PC Card Modem/Cellular cpble 02K4196</li> <li>- 10/100 Ethernet CardBus PC Card 08L3147</li> </ul>	<p>3.2GB = DMA Mode 2 or PIO Mode 4 4.0GB = DMA Mode 2 or PIO Mode 4 5.1GB = Ultra DMA/33 or PIO Mode 4 All disks are SMART compliant</p>		
	Easy-Setup is entered by holding F1 when turning on.			<p><b>FEATURES</b></p> <p><b>Wired for Management 1.1a</b> <b>DMI 2.0 compliant</b> <b>PC 97 compliant</b> Setup Guide and User's Guide System Status Indicators Plug and Play 1.0a Standby, suspend, safe suspend (RediSafe), and hibernation modes ENERGY STAR compliant <b>International Warranty Service<sup>14</sup></b> <b>IBM SystemXtra™</b> <b>24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</b> <b>IBM and dealer warranty/service</b></p>

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)

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# IBM ThinkPad® 380XD (Pentium II) - withdrawn

IBM® ThinkPad®		
Processor type	<b>Intel® Mobile Pentium® II 233/66 or 266/66MHz<sup>1</sup></b> / 64-bit to L2 cache and memory	
Processor features	No upgrade / processor, L2 cache, and memory cntr (North Bridge) on Mobile Module	
L2 cache	<b>512KB</b> / write-back / 4 way set associative / sync pipelined burst / ECC / 1/2 speed	
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side	
External FDD port	None since diskette internal	
CD-ROM	<b>5.25" CD-ROM / 24X-10X speed</b> / CAV / multi-session / XA / ATAPI / bootable / not removable / on right side	
Type - model	<b>2635-EAU</b>	<b>2635-FAU</b>
Processor	<b>233/66MHz</b>	<b>266/66MHz</b>
Preload (see side)	<b>Windows 95</b>	
Avail / withdrawn date	May 1998 / December 1998	May 1998 / December 1998
Disk - size / ms	<b>4.0GB<sup>4</sup></b> / 13ms / PIO Mode 4	<b>5.1GB</b> / 12ms / PIO Mode 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer	
Display - size and type	<b>12.1 inch HPA color</b>	<b>12.1 inch TFT color</b>
Display - technology	<b>SVGA</b> / 640 x 480 or 800 x 600 Dual scan / HPA / 150ms / 100 nits <b>16 mil</b> sim colors / 50 to 1 contrast	<b>SVGA</b> / 640 x 480 or 800 x 600 <b>Active Matrix TFT</b> / 75ms / 100 nits <b>16.7 million</b> simultaneous colors / 100 to 1 contrast ratio ratio
Graphics - controller	<b>NeoMagic™ MagicGraph128XD™</b> (NM2160B) / 128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw	
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024 x 768 with 65,536 colors	
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt	
Memory - std / max	<b>32MB</b> / 96MB / non-parity / 3.3 volt / EDO / 60ns	
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB / socket accessed from bottom via screw	
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator	
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator	
Pointing / palm rest	TrackPoint® III / no drag lock keys	
Dimensions / weight <sup>2</sup>	11.8 x 9.2 x 2.4" (260 cubic inches) / 7.2 pounds (3.3 kg)	
Battery - type / life <sup>10</sup>	Li-Ion / non-intelligent / EAU: 3.1 hrs; FAU: 4.0 hrs	
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs	
Architecture	PCI 2.1 / 32-bit / 33Mhz (EIDE, graphics, PCMCIA, USB) ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O) Intel <b>440BX</b> PCset / Intel <b>PIIX4</b> (EIDE, USB, PCI to ISA bridge) Texas Instruments® <b>TI1250A</b> PCMCIA controller	
Docking station	None	
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator	
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32-bit PCI</b> / Zoomed video PCMCIA 2.1 compatible / PC Card Standard 95	
USB / serial / parallel	<b>One USB</b> / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts)	
Video in/out	None	
MPEG decoder	None (software support for MPEG-1 in Windows 95)	
Data/fax modem	None	
Audio	<b>16-bit</b> / CS4237B / SRS 3D audio / FM synthesis	
Speakers	Two front stereo speakers (.5 watt) / one subwoofer above keyboard (1 watt)	
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic	
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port	
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps	
Security	Power-on password / supervisor password / hard disk password / security keyhole / personalization screen at startup	
Preinstalled software	Microsoft® Windows® 95 OSR2.1 with applications (listed on right)	
Limited warranty <sup>11</sup>	<b>1 year</b> - ThinkPad EasyServ <sup>31</sup> (door-to-door depot repair service) or carry-in	
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date	
<b>The ThinkPad Enhanced Port Replicator</b> provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:	<b>OPTIONS</b>	
- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator	- <b>8MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7340</b>	
Port Replicator connectors:	- <b>16MB SO DIMM 3.3v NP EDO 64-bit</b> <b>01K1124</b>	
- USB, serial (9 pin), parallel (25 pin)	- <b>32MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7342</b>	
- External display (15 pin)	- <b>64MB SO DIMM 3.3v NP EDO 64-bit</b> <b>76H0268</b>	
- Keyboard and mouse	- ThinkPad 560 Port Replicator 46H4209	
- Audio in (3.5 mm) and audio out (3.5 mm)	- ThinkPad 380/385 Port Replicator 84G1316	
- Joystick/MIDI port (15 pin) - not on system	- ThinkPad Enhanced Port Replicator 11J8997	
- External diskette drive connt - not on system	- ThinkPad 380/385 Li-Ion Battery 02K6507	
- Power connector (requires AC power; can not run on battery)	- 56 watt AC Adapter (barrel; 3 prong) 83H6739	
Features of the PC Card slots:	- 4.0GB disk, 13ms 05K8871	
- Two Type III slots (side by side)	- 6.4GB disk, 13ms, Ultra DMA/33 02K0518	
- PC Card Standard 95 compliant	- V.90 PC Card Modem with XJACK <sup>24</sup> 10L7393	
- CardBus compliant (PCI 2.1 / 32-bit)	Easy-Setup is entered by holding F1 when turning on.	
- 8/16-bit PC Card support (no Zoomed Video)		
- Texas Instruments PCI1131 controller		
- Requires no PCI-to-PCI bridge		
	<b>WINDOWS 95 PRELOAD<sup>16</sup></b> <ul style="list-style-type: none"> <li>• Microsoft Windows 95 OSR2.1 (FAT16)</li> <li>• Internet Explorer 4.0</li> <li>• Online User's Guide</li> <li>• ThinkPad Configuration Program</li> <li>• SystemSoft CardWorks™</li> <li>• Diskette Factory and Utilities</li> <li>• ConfigSafe</li> <li>• NetFinity for Windows 95</li> <li>• Puma TranXit™</li> <li>• IBM Anti-Virus</li> <li>• IBM Global Network (IGN Dialer)</li> <li>• Netscape Navigator browser</li> <li>• Intel LANDesk Client Manager (via web)</li> <li>• IntelliQuest Registration Mailer</li> <li>• Ergonomics</li> <li>• PointCast (with ThinkPad channel)</li> <li>• Marketing Demo</li> <li>• Tivoli Lightweight Client Framework</li> <li>• ThinkPad on the Net</li> <li>• Personalization Editor</li> <li>• ThinkPad Customization</li> <li>• Lotus® SmartSuite 97</li> </ul> ◇ Recovery CD-ROM with boot diskette ◇ Windows 95 CD-ROM (no installation)	
	4.0GB = DMA Mode 2 or PIO Mode 4 5.1GB = Ultra DMA/33 or PIO Mode 4 6.4GB = Ultra DMA/33 or PIO Mode 4 All disks are SMART compliant	
	Fn + F2 = Battery gauge Fn + F3 = Standby Fn + F4 = Suspend Fn + F7 = LCD/CRT/Simultaneous Fn + F11 = Power mgmt Fn + F12 = Hibernation	
	<b>FEATURES</b> <b>DMI 2.0 compliant</b> <b>PC 97 compliant</b> <b>Wired for Management 1.1a</b> Setup Guide, User's Guide, Options by IBM Catalog, Introducing Windows 95 book System Status Indicators Plug and Play 1.0a Standby, suspend, safe suspend (RediSafe), and hibernation modes ENERGY STAR compliant <b>International Warranty Service<sup>14</sup></b> <b>IBM SystemXtra™ Program</b> <b>24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</b>	

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# IBM ThinkPad® 380Z - withdrawn

<b>IBM® ThinkPad®</b>						
Processor	<b>Intel® Mobile Pentium® II 233 or 300MHz<sup>1</sup></b> / 66MHz system bus				<b>All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; removable disk; keyboard does not lift up</b> on right side	
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module					
L2 cache	<b>512KB</b> / sync pipelined burst / ECC / half speed					
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side					
External FDD port	None since diskette internal					
CD-ROM	<b>5.25" CD-ROM / 24X-10X<sup>5</sup> speed</b> / CAV / multi-session / XA / ATAPI / bootable / not removable / on right side					
Type - model	<b>2635-HGU</b>	<b>2635-JGU</b>	<b>2635-HBU</b>	<b>2635-JBU</b>	<b>2635-JCU (AAP)</b>	
Processor	<b>Pentium II 233MHz</b>	<b>Pentium II 300MHz</b>	<b>Pentium II 233MHz</b>	<b>Pentium II 300MHz</b>	<b>Pentium II 300MHz</b>	
Preload (see side)	<b>Windows 98</b>	<b>Windows 98</b>	<b>NT 4.0</b>	<b>NT 4.0</b>	<b>None</b>	
Disk - size / ms	<b>4.0GB*</b> / 13ms read / 14ms write / SMART					
Disk controller	EIDE / PCI 2.1 / supports one internal disk / disk can be removed and upgraded by customer					
Avail / withdrawn date	September 1998 / HGU withdrawn March 1999; others withdrawn June 1999					
Display - size and type	<b>13.3 inch TFT color</b>				All models: - C: drive is FAT16 of 2GB - D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space	
Display - technology	<b>XGA</b> / 640x480 or 800x600 or 1024x768 / <b>Active Matrix TFT</b> / 75ms / 100 nits <b>16.7 million</b> simultaneous colors / 100 to 1 contrast ratio ratio					
Graphics - controller	<b>NeoMagic™ MagicMedia256AV™</b> (NM2200) / PCI 2.1 / 128-bit engine, 256-bit memory interface / DDC2B / Direct3D					
Graphics - external	2.5MB / SDRAM (embedded) / <b>motion compensation</b> / color space conversion / interpolation in X and Y axis					
Graphics - features	External SVGA to 1024x768 with 16.7 million colors at 85Hz Simultaneous LCD and CRT / 150 degree tilt / multiple-monitor support <sup>26</sup>					
Memory - std / max	<b>32MB</b> / 96MB or 160MB* / non-parity / 3.3 volt / EDO / 60ns					
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 16, 32, or 64MB / socket accessed from bottom via screw					
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator					
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator					
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace					
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches); 300.0mm x 233.0mm x 62.0mm					
Weight <sup>2</sup>	7.2 pounds (3.3 kg) with battery and disk					
Battery - type / life <sup>10</sup>	Li-Ion / non-intelligent / Hxx: 3.1 hrs; Jxx: 3.3 hrs					
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs					
Architecture	<b>Intel 440BX</b> PCiset / Intel <b>PIIX4E</b> (EIDE, PCI to ISA bridge, USB) Texas Instruments® <b>TI1250A</b> PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) ISA (audio, diskette, serial, parallel, infrared)					
Docking station	None					
Port replicator	ThinkPad Port Replicator with Advanced EtherJet / ThinkPad 560 Port Replor					
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video					
USB / serial / parallel	<b>One USB</b> / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)					
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts)					
Video in/out	None					
MPEG decoder	None (software support for MPEG-1 in Windows 98)					
Data/fax/modem	None					
Audio	16-bit / CS4237B / SRS 3D audio / FM synthesis					
Speakers	Two front stereo speakers (.5 watt) / one subwoofer above keyboard (1 watt)					
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic					
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port					
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps					
Security	Power-on password / supervisor password / hard disk password / security keyhole / personalization screen at startup					
Limited warranty <sup>11</sup>	<b>1 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> (door-to-door depot repair service)					
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / service agreements up to 5 years from purchase date					
<b>The ThinkPad Port Replicator with Advanced EtherJet Feature</b> provides cable management, additional I/O ports, CardBus PC Card slots, and 10/100 ethernet with Wake on LAN™. Features: - 10/100 ethernet (Intel 82558, Wake on LAN) - Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator Connectors: - USB, serial (RS-232, 9 pin), parallel (25 pin), external display, keyboard, mouse - Audio in and out (3.5 mm) - Joystick/MIDI port (15 pin) - not on system - External diskette drive connector (no support) - Power connector Features of the PC Card slots: - Two Type III slots (side by side) - PC Card Standard 95 compliant - CardBus compliant (PCI 2.1 / 32-bit) - PCMCIA 2.1 (no Zoomed Video) - TI 1250A controller - Requires no PCI-to-PCI bridge		<b>OPTIONS</b> - 16MB SO DIMM 3.3v NP EDO 64-bit 01K1124 - 32MB SO DIMM 3.3v NP EDO 64-bit 92G7342 - 64MB SO DIMM 3.3v NP EDO 64-bit 76H0268 - ThinkPad 560 Port Replicator 46H4209 - Port Replicator w/ Advanced EtherJet 05K4872 - ThinkPad 380/385 Li-Ion Battery 02K6507 - 56 watt AC Adapter (barrel; 3 prong) 83H6739 - 4.0GB disk**, 13ms 05K8871 - 6.4GB disk**, 13ms, Ultra DMA/33 02K0518 - V.90 PC Card Modem with XJACK <sup>24</sup> 10L7393 - 56K PC Card Modem/Cellular cpble 02K4196 - 10/100 Ethernet CardBus PC Card 08L3147 - ThinkPad Proven™ solutions <sup>12</sup> (visit <a href="http://www.ibm.com/pc/us/thinkpad/proven">www.ibm.com/pc/us/thinkpad/proven</a> ) Easy-Setup is entered by holding F1 when turning on.			<b>WINDOWS 98 PRELOAD<sup>16</sup></b> - Microsoft® Windows® 98 • Online User's Guide • ThinkPad Configuration Program • ThinkPad Utilities • IBM Update Connector • RingCentral Fax • Ergonomics • IBM Registration • Puma IntelliSync 97 (infrared) • IBM Global Network Dialer • Netscape Navigator web browser • Lotus® SmartSuite 97 (CD) • ConfigSafe • Norton AntiVirus (OEM Version) • ThinkPad on the Net (TCC CD) ♦ Customization Center CD-ROM ♦ Lotus SmartSuite 97 CD-ROM ♦ Product Recovery CD-ROM (with boot diskette)  <b>WINDOWS NT PRELOAD<sup>16</sup></b> - Windows NT® Workstation 4.0 - Service Pack 3 • Online User's Guide • Artisoft ConfigSafe • ThinkPad Configuration Program • ThinkPad Utilities • Diskette Factory • Puma IntelliSync 97 (infrared) • IBM Registration • Ergonomics • SystemSoft CardWizard • Norton AntiVirus (TCC CD) ♦ Product Recovery CD-ROM (with boot diskette)  4.0GB = Ultra DMA/33** or PIO Mode 4 6.4GB = Ultra DMA/33** or PIO Mode 4 All disks are SMART compliant	
					<b>FEATURES</b> <b>Wired for Management 1.1a compliant</b> <b>DMI 2.0 compliant</b> <b>PC 97 compliant</b> <b>ACPI ready</b> (APM enabled) Setup Guide and User's Guide System Status Indicators Plug and Play 1.0a Standby, suspend, safe suspend (RediSafe), and hibernation modes ENERGY STAR compliant <b>International Warranty Service<sup>14</sup></b> <b>IBM SystemXtra<sup>®</sup>,<sup>35</sup></b> <b>24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (<a href="http://www.ibm.com/pc/us">www.ibm.com/pc/us</a>) support</b>	

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\* Maximum memory capacity with 128MB SO DIMM from ThinkPad Proven vendor

\*\* Bus length limits EIDE controller (only on 380Z) to DMA Multi-Word Mode 1 (13MB/sec)

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# IBM ThinkPad 385D (Retail models) - withdrawn

<b>IBM® ThinkPad®:</b>	<b>× 385D</b> 12.1" SVGA DSTN or TFT / 8 x CD-ROM		
Processor type	<b>Pentium® 150/60 MHz or 150/60 MHz with MMX™ technology/</b> 64 bit transfer to L2 cache / 64 bit transfer to memory		
Processor upgrade	None		
L2 cache	<b>256 KB</b> / write-through / direct mapped / 8 ns / synchronous pipelined burst		
Diskette drive	Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side		
External FDD port	None since diskette internal		
CD-ROM	<b>5.25" CD-ROM / 8 x speed/</b> multi-session / XA / ATAPI / not bootable / not removable / on right side		
Type - model	<b>2635-2EU</b>	<b>2635-3EU</b>	<b>All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up</b>
Preload (see side)	<b>Windows 95 OSR2</b>	<b>Windows 95 OSR2</b>	
Avail / withdrawn date	May 1997 / January 1998	May 1997 / January 1998	
Pentium speed	<b>150/60 MHz</b>	<b>150/60 MHz with MMX technology</b>	
Disk - size / ms	<b>1.35 GB</b> / 13 ms / PIO Mode 4	<b>2.1 GB</b> / 13 ms / PIO Mode 4	
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer		
Display - size and type	<b>12.1 inch DSTN color</b>	<b>12.1 inch TFT color</b>	
Display - technology	<b>SVGA</b> / 640 x 480 or 800 x 600 <b>Dual scan</b> 65,536 sim colors / 30 to 1 contrast	<b>SVGA</b> / 640 x 480 or 800 x 600 <b>Black Matrix TFT</b> - active matrix 65,536 simultaneous colors / 100 to 1 contrast ratio ratio	
Graphics - controller	<b>NeoMagic™ MagicGraph128ZV™</b> (NM2093) /128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw		
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors		
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt		
Memory - std / max	<b>16 MB</b> / 80 MB / non-parity / 3.3 volt / EDO		
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw		
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator		
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator		
Pointing / palm rest	TrackPoint III™ / no drag lock keys		
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)		
Weight	7.1 pounds (3.2 kg)	6.9 pounds (3.1 kg)	
Battery - type / life	NiMH / non-intelligent / 2.0 hrs		
Charge time - on / off	3.5 to 9 hrs / 2.5 to 3.5 hrs		
Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCiset / Intel 82371MX PIIX / NS PC87338		
Docking Station	None		
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator ③ ThinkPad 380/385 Port Replicator		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / <b>Zoomed Video support in lower slot</b> / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Universal AC adapter; barrel (35 watts) / Selectable boot		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	<b>16 bit audio chip</b> / 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236 One internal speaker / .5 watt / dial volume control / internal mic / full duplex		
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port		
Infrared ports	<b>Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps</b>		
Security	Power-on password / Hard disk password / security keyhole		
Preinstalled software	Microsoft Windows 95 OSR2 wth applications (listed on right)		
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in		
<b>The ThinkPad Enhanced Port Replicator</b>	Options for ThinkPad 385D:		
provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:	- <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> <b>92G7340</b>		
- Dual IBM lock slots to secure the ThinkPad 385D, PC Cards, and Port Replicator	- <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> <b>92G7341</b>		
Port Replicator connectors:	- <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> <b>92G7342</b>		
- USB	- <b>64 MB SO DIMM 3.3v NP EDO 64 bit</b> <b>76H0268</b>		
- Serial (9 pin); parallel (EPP, ECP, 25 pin)	- ThinkPad 560 Port Replicator 46H4209		
- External display (15 pin)	- ThinkPad 380/385 Port Replicator 84G1316		
- Keyboard	- ThinkPad Enhanced Port Replicator 11J8997		
- Mouse	- Li-Ion Battery Pack 73H9793		
- Audio in (3.5 mm)	- 35 watt AC Adapter (slim, barrel) 76H0139		
- Audio out (3.5 mm)	- 8 x CD-ROM 73H9795		
- Joystick/MIDI port (15 pin) - not on system	- 2.1 GB HDD 13 ms 73H9797		
- External diskette drive connt - not on system	- 3.2 GB Disk 13 ms 02K0487		
- Power connector (requires AC power; can not run on battery)	- 5.1 GB Disk 12 ms 02K0506		
Features of the PC Card slots:	- 33.6 Kbps Modem with XJACK 55H6759		
- Two Type III slots (side by side)	- 56K PC Card Modem Kit 04K0052		
- PC Card Standard 95 compliant	Easy-Setup is entered by holding F1 when turning on.		
- CardBus compliant (PCI 2.1 / 32 bit)	Fn + F2 = Battery guage		
- 8/16 bit PC Card support (no Zoomed Video)	Fn + F3 = Standby		
- Texas Instruments PCI1131 controller	Fn + F4 = Suspend		
- Requires no PCI-to-PCI bridge	Fn + F7 = LCD/CRT/Simultaneous		
	Fn + F11 = Power mgmt		
	Fn + F12 = Hibernation		
	<p><b>WINDOWS 95 PRELOAD</b></p> <ul style="list-style-type: none"> <li>- Microsoft Windows 95 OSR2 (FAT16)</li> <li>- Lotus SmartSuite</li> <li>- WordPro Word Processor</li> <li>- 1-2-3 Spreadsheet</li> <li>- Freelance Graphics</li> <li>- Approach Database</li> <li>- Organizer Scheduler</li> <li>- IBM Global Network (IGN)</li> <li>- NetScape Navigator Browser</li> <li>- AOL, AT&amp;T WorldNet, CompuServe</li> <li>- Media Player</li> <li>- Active Movie (MPEG-1, AVI)</li> <li>- Video for Windows</li> <li>- CD Audio Player</li> <li>- MIDI Sequencer</li> <li>- Quicken SE</li> <li>- Expensable</li> <li>- Wall Street Money SE</li> <li>- National Golf Course Directory</li> <li>- Rand McNally's Trip Maker</li> <li>- IBM Anti-Virus</li> <li>- IBM Online Housecall</li> <li>- IBM Update Connector</li> <li>- IntelliLink Connect</li> <li>- TranXit</li> <li>- Online User's Guide</li> <li>- SystemSoft Card Works</li> <li>- Password Protected Marketing Demo</li> <li>- CD-ROMs included in the Shipping Carton <ul style="list-style-type: none"> <li>- Preload Recovery CD w/boot diskette</li> <li>- Windows 95 CD (no installation)</li> <li>- Picture Perfect Golf</li> </ul> </li> </ul> <p><b>FEATURES OF 385D MODELS</b></p> <ul style="list-style-type: none"> <li>Quick Setup Guide</li> <li>System Status Indicators</li> <li>Plug and Play 1.0a</li> <li>Standby, suspend, safe suspend (RediSafe), and hibernation modes</li> <li>US EPA Energy Star compliant</li> <li>Personalization screen at startup</li> <li><b>International Warranty Service</b></li> <li><b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (<a href="http://www.pc.ibm.com">http://www.pc.ibm.com</a>) support</b></li> <li><b>IBM and dealer warranty/service</b></li> <li><b>Online Housecall (remote diagnostics)</b></li> </ul>		

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.

All trademarks are the property of their respective owners  
No warranties are expressed or implied in this summary (385D) Compiled by Roger Dodson, IBM. December 1997





# IBM ThinkPad® 385XD (Retail models) - withdrawn

IBM® ThinkPad®																																					
Processor type	<b>Pentium® 233/66<sup>1</sup> with MMX™ technology, 266/66MHz with MMX™ technology, or Pentium II 266/66MHz</b>																																				
Processor features	No upgrade / processor, L2 cache, and memory controller (North Bridge) on Mobile Module																																				
L2 cache	<b>512KB</b> / sync pipelined burst (66MHz for Pentium / ECC and 133MHz for Pentium II)																																				
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side																																				
External FDD port	None since diskette internal																																				
CD-ROM	<b>5.25" CD-ROM / 24X-10X<sup>5</sup> speed / CAV / multi-session / XA / ATAPI / bootable / not removable / on right side</b>																																				
Type - model	<b>2635-8EU</b>																																				
UPC code	<b>0-87944-40513-9</b>																																				
Processor	<b>Pentium 233/66MHz</b>																																				
Avail / withdrawn date	March 1998 / Sept 1998																																				
Disk - size / ms	<b>2.1GB<sup>4</sup> / 13ms / PIO Mode 4</b>																																				
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer																																				
Display - size and type	<b>12.1 inch HPA (High Performance Addressing) color</b>																																				
Display - technology	<b>SVGA / 640x480 or 800x600 / 150ms / 100 nits / 16.7 million simultaneous colors / 50 to 1 contrast</b>																																				
Graphics - controller	<b>NeoMagic™ MagicGraph128XD™ (NM2160B) / 128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw</b>																																				
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 with 65,536 colors																																				
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt																																				
Memory - std / max	<b>32MB / 96MB / non-parity / 3.3 volt / EDO / 60ns</b>																																				
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB																																				
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator																																				
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator																																				
Pointing / palm rest	TrackPoint III™ / no drag lock keys																																				
Dimensions / weight <sup>2</sup>	11.8 x 9.2 x 2.4" (260 cubic inches) / 8EU/9EU: 7.1 pounds; DEU: 7.2 lbs																																				
Battery - type / life <sup>10</sup>	Li-Ion / non-intelligent / 3.0 hrs																																				
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs																																				
Architecture	Intel® Triton <b>430TX, PIIX4</b> for Pentium systems / <b>Intel 440BX, PIIX4</b> for Pent II <b>PIIX4</b> (EIDE, USB, PCI to ISA bridge) TI® <b>T11250A</b> PCMCIA controller PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O) None																																				
Docking station	None																																				
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator																																				
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32-bit PCI</b> / Zoomed video PCMCIA 2.1 compatible / PC Card Standard 95																																				
USB / serial / parallel	<b>One USB</b> / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)																																				
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts) / 35 watt supported																																				
Video in/out	None																																				
MPEG decoder	None (software support for MPEG-1 in Windows 95)																																				
Data/fax modem	<b>56KB PC Card Modem / Cellular Capable</b> / x2 / XJACK connector (02K4196)																																				
Audio	<b>16-bit / CS4237B / SRS 3D audio / FM synthesis</b>																																				
Speakers	Two front <b>stereo speakers</b> (.5 watt) / one <b>subwoofer</b> above keyboard (1 watt)																																				
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic																																				
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port																																				
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps																																				
Security	Power-on password / supervisor password / hard disk password / security keyhole / personalization screen at startup																																				
Preinstalled software	Microsoft® 95 OSR2.1 with applications (listed on right)																																				
Limited warranty <sup>11</sup>	<b>1 year</b> - ThinkPad EasyServ (door-to-door depot repair service) or carry-in																																				
Service options <sup>15</sup>	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years																																				
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<b>FEATURES</b> <b>DMI 2.0 compliant</b> (via software upgrade) <b>PC 97 compliant</b> <b>Wired for Management 1.1a</b> Setup Guide, User's Guide, Options by IBM catalog, Windows 95 book System Status Indicators Plug and Play 1.0a Standby, suspend, safe suspend (RediSafe), and hibernation modes <b>ENERGY STAR compliant</b> <b>International Warranty Service<sup>14</sup></b> <b>24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</b> <b>IBM and dealer warranty/service</b>																																					

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)

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 No warranties are expressed or implied in this summary  
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# IBM ThinkPad® 385XD (Windows 98) - withdrawn

IBM® ThinkPad®																																					
Processor type	<b>Pentium® 233/66MHz<sup>1</sup></b> with MMX technology																																				
Processor features	No processor upgrade / processor, L2 cache, and memory controller (North Bridge) on Mobile Module																																				
L2 cache	<b>512KB</b> / synchronous pipelined burst (66MHz)																																				
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side																																				
External FDD port	None since diskette internal																																				
CD-ROM	<b>5.25" CD-ROM / 24X-10X<sup>5</sup> speed</b> / CAV / multi-session / XA / ATAPI / bootable / not removable / on right side																																				
Type - model	<b>2635-LEU</b>																																				
UPC code	<b>0-87944-452188</b>																																				
Avail / withdrawn date	July 1998 / September 1998																																				
Disk - size / ms	<b>3.2GB<sup>2</sup></b> / 13ms (read); 14ms (write) / PIO 4 / SMART																																				
Disk - partitioning	Partitioned as C: (2GB - FAT16) and D: (remainder - FAT32)																																				
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer																																				
Display - size and type	<b>12.1 inch TFT color</b> / Active Matrix																																				
Display - technology	<b>SVGA</b> / 640x480 or 800x600 / 75ms / 100 nits <b>16.7 million</b> simultaneous colors																																				
Graphics - controller	<b>NeoMagic™ MagicGraph128XD™</b> (NM2160B) / 128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw																																				
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 with 65,536 colors at 75Hz																																				
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt																																				
Memory - std / max	<b>32MB</b> / 96MB / non-parity / 3.3 volt / EDO / 60ns																																				
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 16, 32, or 64MB																																				
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator																																				
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator																																				
Pointing / palm rest	TrackPoint® III / no drag lock keys																																				
Dimensions / weight <sup>2</sup>	11.8 x 9.2 x 2.4" (260 cubic inches) / 7.1 pounds (3.2kg) with battery/disk																																				
Battery - type / life <sup>10</sup>	Li-Ion / non-intelligent / 3.5 hrs																																				
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs																																				
Architecture	Intel® <b>Triton 430TX</b> <b>PIIX4</b> (EIDE, USB, PCI to ISA bridge) / TI® <b>T11250A</b> PCMCIA controller PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O) None																																				
Docking station	None																																				
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator																																				
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32-bit PCI</b> / Zoomed Video PCMCIA 2.1 compatible / PC Card Standard 95																																				
USB / serial / parallel	<b>One USB</b> / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)																																				
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts) / 35 watt supported																																				
Video in/out	None																																				
MPEG decoder	None (software support for MPEG-1 in Windows 98)																																				
Data/fax modem	<b>56KB<sup>9</sup> PC Card Modem / Cellular Capable</b> / x2 / XJACK connector (02K4196)																																				
Audio	<b>16-bit</b> / CS4237B / SRS 3D audio / FM synthesis																																				
Speakers	Two front <b>stereo speakers</b> (.5 watt) / one <b>subwoofer</b> above keyboard (1 watt)																																				
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic																																				
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port																																				
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps																																				
Security	Power-on password / supervisor password / hard disk password / security keyhole / personalization screen at startup																																				
Preinstalled software	Microsoft® Windows® 98 with applications (listed on right)																																				
Limited warranty <sup>11</sup>	<b>1 year</b> - ThinkPad EasyServ (door-to-door depot repair service) or carry-in																																				
Service options <sup>15</sup>	On-site, M-F, 8-5, next bus day (72 cities) / warranty extension to 3 or 5 years																																				
<table border="1"> <thead> <tr> <th>The ThinkPad Enhanced Port Replicator</th> <th>OPTIONS</th> </tr> </thead> <tbody> <tr> <td>provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:</td> <td>- 16MB SO DIMM 3.3v NP EDO 64-bit 92G7341</td> </tr> <tr> <td>- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator</td> <td>- 16MB SO DIMM NP EDO 64-bit (new) 01K1124</td> </tr> <tr> <td>Port Replicator connectors:</td> <td>- 32MB SO DIMM 3.3v NP EDO 64-bit 92G7342</td> </tr> <tr> <td>- USB, serial (9 pin), parallel (25 pin)</td> <td>- 64MB SO DIMM 3.3v NP EDO 64-bit 76H0268</td> </tr> <tr> <td>- External display (15 pin)</td> <td>- ThinkPad 560 Port Replicator 46H4209</td> </tr> <tr> <td>- Keyboard and mouse</td> <td>- ThinkPad 380/385 Port Replicator 84G1316</td> </tr> <tr> <td>- Audio in (3.5 mm) and audio out (3.5 mm)</td> <td>- ThinkPad Enhanced Port Replicator 11J8997</td> </tr> <tr> <td>- Joystick/MIDI port (15 pin) - not on system</td> <td>- ThinkPad 380/385 Li-Ion Battery (old) 73H9793</td> </tr> <tr> <td>- External diskette drive conntnr - not on system</td> <td>- ThinkPad 380/385 Li-Ion Battery 02K6507</td> </tr> <tr> <td>- Power connector (requires AC power; can not run on battery)</td> <td>- External Battery Charger 02K6499</td> </tr> <tr> <td>Features of the PC Card slots:</td> <td>- 56 watt AC Adapter (barrel; 3 prong) 83H6739</td> </tr> <tr> <td>- Two Type III slots (side by side)</td> <td>- 6.4GB disk, 13ms, Ultra DMA/33 02K0518</td> </tr> <tr> <td>- PC Card Standard 95 compliant</td> <td>- 33.6Kbps Modem with XJACK 55H6759</td> </tr> <tr> <td>- CardBus compliant (PCI 2.1 / 32-bit)</td> <td>- 56K PC Card Modem Kit 04K0052</td> </tr> <tr> <td>- 8/16-bit PC Card support (no Zoomed Video)</td> <td>- 56K PC Card Modem/Cellular Capable 02K4196</td> </tr> <tr> <td>- Texas Instruments PCI1131 controller</td> <td></td> </tr> <tr> <td>- Requires no PCI-to-PCI bridge</td> <td></td> </tr> </tbody> </table>		The ThinkPad Enhanced Port Replicator	OPTIONS	provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:	- 16MB SO DIMM 3.3v NP EDO 64-bit 92G7341	- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator	- 16MB SO DIMM NP EDO 64-bit (new) 01K1124	Port Replicator connectors:	- 32MB SO DIMM 3.3v NP EDO 64-bit 92G7342	- USB, serial (9 pin), parallel (25 pin)	- 64MB SO DIMM 3.3v NP EDO 64-bit 76H0268	- External display (15 pin)	- ThinkPad 560 Port Replicator 46H4209	- Keyboard and mouse	- ThinkPad 380/385 Port Replicator 84G1316	- Audio in (3.5 mm) and audio out (3.5 mm)	- ThinkPad Enhanced Port Replicator 11J8997	- Joystick/MIDI port (15 pin) - not on system	- ThinkPad 380/385 Li-Ion Battery (old) 73H9793	- External diskette drive conntnr - not on system	- ThinkPad 380/385 Li-Ion Battery 02K6507	- Power connector (requires AC power; can not run on battery)	- External Battery Charger 02K6499	Features of the PC Card slots:	- 56 watt AC Adapter (barrel; 3 prong) 83H6739	- Two Type III slots (side by side)	- 6.4GB disk, 13ms, Ultra DMA/33 02K0518	- PC Card Standard 95 compliant	- 33.6Kbps Modem with XJACK 55H6759	- CardBus compliant (PCI 2.1 / 32-bit)	- 56K PC Card Modem Kit 04K0052	- 8/16-bit PC Card support (no Zoomed Video)	- 56K PC Card Modem/Cellular Capable 02K4196	- Texas Instruments PCI1131 controller		- Requires no PCI-to-PCI bridge	
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<p><b>WINDOWS 98 PRELOAD<sup>16</sup></b></p> <ul style="list-style-type: none"> <li>- Microsoft Windows 98 (FAT16)</li> <li>- Internet Explorer 4.01</li> <li>- Online User's Guide</li> <li>- ThinkPad Configuration Program</li> <li>- Software Select Utility</li> <li>- Diskette Factory and Utilities</li> <li>- Artisoft ConfigSafe</li> <li>- IBM Update Connector</li> <li>- Puma IntelliSync 97</li> <li>- Norton AntiVirus (OEM Version)</li> <li>- IBM Global Network™ (IGN Dialer)</li> <li>- Netscape Navigator browser</li> <li>- RingZero Fax Central</li> <li>- IntelliQuest Registration Mailer</li> <li>- Ergonomics</li> <li>- Intuit Expensable</li> <li>- ThinkPad on the Net</li> <li>- Personalization Editor</li> <li>- Lotus SmartSuite 97</li> <li>- Rand McNally's Trip Maker</li> <li>- Quicken 98</li> <li>◇ EA Sports PGA Tour Golf CD-ROM</li> <li>◇ Recovery CD-ROM with boot diskette</li> </ul> <p>Fn + F2 = Battery gauge Fn + F3 = Standby Fn + F4 = Suspend Fn + F7 = LCD/CRT/Simultaneous Fn + F11 = Power mgmt Fn + F12 = Hibernation</p> <p><b>FEATURES</b></p> <p><b>DMI 2.0 compliant</b> (via software upgrade) <b>PC 97 compliant</b> <b>Wired for Management 1.1a</b> Setup Guide, User's Guide, Options by IBM catalog, Windows 95 book System Status Indicators Plug and Play 1.0a Standby, suspend, safe suspend (RediSafe), and hibernation modes <b>ENERGY STAR compliant</b> <b>International Warranty Service<sup>14</sup></b> <b>24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</b> <b>IBM and dealer warranty/service</b></p>																																					

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# IBM ThinkPad® 390 - withdrawn

<b>IBM® ThinkPad®</b>																																									
Processor	Intel® Pentium® 233MHz <sup>1</sup> with MMX™ technology or Mobile Pentium II 233 or 266MHz / 66MHz system bus																																								
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module																																								
L2 cache	512KB / sync pipelined burst (66MHz for Pentium / ECC and 150MHz for Pentium II)																																								
Diskette drive	Internal 3.5" 1.44MB / removable from UltraBay FX / on right side / integrated with CD-ROM																																								
External FDD port	None since diskette internal																																								
CD-ROM	CD-ROM / 24X-10X <sup>5</sup> speed / ATAPI / bootable / removable from UltraBay FX / on right side / integrated with diskette drive																																								
DVD-ROM	Option: Removable UltraBay FX option / 2X <sup>5</sup> integrated with diskette drive / not supported in Pentium systems (2xx)																																								
Type - model	2626-20U																																								
Processor	Pentium 233MHz																																								
Disk - size / ms	3.2GB <sup>4</sup> / 13ms read / 14ms write / S.M.A.R.T. <sup>29</sup>																																								
Disk controller	EIDE / PCI 2.1 / supports one internal disk / disk can be removed to upgrade by customer / supports two internal disks																																								
Avail / withdrawn date	November 1998 / March 1999																																								
Display - size and type	12.1" TFT color / Active Matrix																																								
Display - technology	SVGA / 640x480 or 800x600 / 30ms / 150 nits 16.7 million simultaneous colors / 100 to 1 contrast																																								
Graphics - controller	NeoMagic™ MagicMedia256AV™ (NM2200) / PCI 2.1 / 128-bit engine, 256-bit memory interface / DDC2B / Direct3D																																								
Graphics - external	External SVGA to 1024x768 with 16.7 million colors at 85Hz																																								
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt / multiple-monitor support <sup>26</sup>																																								
Memory - std / max	32MB / 256MB <sup>33</sup>																																								
Memory - features	SDRAM / non-parity / 66MHz / 3.3 volt / 64-bit 2 sockets for JEDEC 144-pin SO DIMMs / one socket used by std memory sockets accessed from bottom via removing cover held by phillips-head screw																																								
Keyboard	Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet																																								
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps																																								
Dimensions	12.4 x 10.1 x 1.8" (225 cubic inches)																																								
Weight <sup>2</sup>	7.5 lbs (3.4 kg) with battery and disk																																								
Case material	PC/ABS plastic																																								
Battery - type / life <sup>10</sup>	NiMH / intelligent / 3.25 hrs (1 battery) / left side																																								
Charge time <sup>10</sup> - on / off	5 hrs on / 2.5 hrs off																																								
Architecture	Intel Triton 430TX for Pentium system / Intel 440BX PCiset for Pentium II Intel PIIX4E (EIDE, PCI to ISA bridge, USB) Texas Instruments® TI1250A PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio) ISA (audio, diskette, serial, parallel, infrared, modem)																																								
Docking station	None																																								
Port replicator	ThinkPad Port Replicator with Advanced EtherJet™ / ThinkPad 560 Port Replic																																								
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video																																								
USB / serial / parallel	One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)																																								
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts)																																								
Video in/out	None																																								
MPEG decoder	None (software support for MPEG-1 in Windows 98)																																								
Data/fax/modem	56Kbps <sup>24</sup> / V.90 / integrated in system / Lucent 1644 / not voice-capable																																								
Audio	16-bit SoundBlaster Pro™ compatible / NeoMagic NMA2 / ISA / full duplex																																								
Speakers	Two Altec Lansing® stereo speakers on display (1 watt)																																								
Audio features	Dial volume control (right side) / internal microphone																																								
Audio in/out jacks	Microphone jack (stereo) / headphone jack (stereo) / line-in jack																																								
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps																																								
Security	Power-on password / setup password / disk password / security keyhole / security screw for UltraBay FX																																								
Limited warranty <sup>11</sup>	1 year - carry-in or ThinkPad EasyServ™ <sup>31</sup> (door-to-door depot repair service)																																								
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<p><b>WINDOWS 98 PRELOAD<sup>16</sup></b></p> <ul style="list-style-type: none"> <li>- Microsoft® Windows® 98</li> <li>• Online User's Guide</li> <li>• ThinkPad Configuration Program</li> <li>• ThinkPad Utilities</li> <li>• IBM Update Connector</li> <li>• RingCentral Fax</li> <li>• Ergonomics</li> <li>• IBM Registration</li> <li>• Puma IntelliSync 97 (infrared)</li> <li>• IBM Global Network Dialer</li> <li>• Netscape Navigator web browser</li> <li>• Lotus® SmartSuite Millennium<sup>20</sup></li> <li>• PC Doctor</li> <li>• ConfigSafe</li> <li>• Norton AntiVirus (OEM Version)</li> <li>• ThinkPad on the Net (TCC CD)</li> <li>◇ Customization Center CD-ROM</li> <li>◇ Lotus SmartSuite Millennium CD-ROM</li> <li>◇ Product Recovery CD-ROM</li> </ul>																																									
<p>The right bay (UltraBay FX) has a device lock on the bottom of the system and a bay LED which should be off to safely remove a device; it supports:</p> <ul style="list-style-type: none"> <li>• standard diskette/CD-ROM (warm swap)</li> <li>• optional second battery (hot swap); same battery as main one</li> <li>• optional second disk (cold swap)</li> <li>• optional ThinkPad Proven™ solutions<sup>12</sup></li> </ul>																																									
<p><b>The ThinkPad Port Replicator with Advanced EtherJet Feature</b> provides cable management, additional I/O ports, CardBus PC Card slots, and 10/100 ethernet with Wake on LAN™<sup>28</sup>. Features:</p> <ul style="list-style-type: none"> <li>• 10/100 ethernet (Intel 82558, Wake on LAN)</li> <li>• Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator</li> <li>• USB, serial (RS-232, 9 pin), parallel (25 pin), external display, keyboard, mouse</li> <li>• Audio in and out (3.5 mm)</li> <li>• Joystick/MIDI port (15 pin) - not on system</li> <li>• Power connector</li> <li>• Two Type III PC Card slots (side by side) <ul style="list-style-type: none"> <li>- PC Card Standard 95 compliant</li> <li>- CardBus compliant (PCI 2.1 / 32-bit)</li> <li>- PCMCIA 2.1 (no Zoomed Video)</li> </ul> </li> </ul>																																									
<p>Pressing F1 during startup brings up IBM BIOS Setup Utility</p>																																									

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# IBM ThinkPad® 390E - withdrawn

<b>IBM® ThinkPad®</b>	
Processor	Intel® Mobile Celeron™ 300 or 366MHz <sup>1</sup> or Mobile Pentium® II 300PE or 333MHz / 66MHz system bus
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module (MMC2)
L2 cache	Celeron: 128KB; Pentium II: 256KB; All: onboard (full speed) / sync pipelined burst / ECC / write-back
Diskette drive	Internal 3.5" 1.44MB / removable from UltraBay FX / on right side / integrated with CD-ROM / no external diskette port
CD-ROM	CD-ROM / 24X-10X <sup>6</sup> speed / ATAPI / bootable / removable from UltraBay FX / on right side / integrated with diskette drive
DVD-ROM	Option: Removable UltraBay FX option / 2X <sup>5</sup> DVD integrated with a diskette drive
Type - model	⋈ 2626-90U ⋈ 2626-C0U ⋈ 2626-D0U ⋈ 2626-E0U ⋈ 2626-ENU ⋈ 2626-A0U ⋈ 2626-B0U
Processor	Celeron 300MHz PII 300PEMHz PII 300PEMHz PII 333MHz PII 333MHz PII 333MHz Celeron 366
Disk - size / ms	3.2GB <sup>4</sup> / 13ms 3.2GB / 13ms 4.3GB / 13ms 6.4GB / 12ms 6.4GB / 12ms None 4.8GB / 12/14ms
Preload (see side)	Windows 98 Windows 98 Windows 98 Windows 98 NT 4.0 None Windows 98
Available date	March 1999 March 1999 March 1999 March 1999 March 1999 April 1999 June 1999
Display (diagonal)	12.1" TFT SVGA 13.3" TFT XGA 14.1" TFT XGA 14.1" TFT XGA 14.1" TFT XGA 14.1" TFT XGA 12.1" TFT SVGA
Display - size and type	12.1" TFT color 308mm / Active Matrix 13.3" TFT color 338mm / Active Matrix 14.1" TFT color 358mm / Active Matrix
Display - technology	SVGA / 800x600 / 30ms / 150 nits XGA / 1024x768 / 30ms / 120 nits XGA / 1024x768 / 20 to 30ms / 120 nits
Graphics - controller	NeoMagic™ MagicMedia256AV™ (NM2200) / 128-bit engine, 256-bit memory interface / 1X AGP / DDC2B / 2.5MB / SGRAM (embedded) / motion compensation / color space conversion / interpolation in X and Y axis
Graphics - features	Simultaneous LCD and CRT <sup>26</sup> / 150 degree tilt / multiple-monitor support <sup>26</sup>
Memory - std / max	32MB / 256MB <sup>33</sup> 64MB / 256MB <sup>33</sup> 0MB / 256MB <sup>33</sup> 32MB / 256MB <sup>33</sup>
Memory - features	SDRAM / non-parity / 66MHz / 3.3 volt / 64-bit 2 sockets for JEDEC 144-pin SO DIMMs / one socket used by std memory / Sockets accessed from bottom via removing cover held by phillips-head screw
Disk controller	EIDE / PCI 2.1 / one internal disk / disk can be removed to upgrade by customer / supports two internal disks/ 13ms read / 14ms write / S.M.A.R.T. <sup>29</sup>
Keyboard	Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / Center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps
Dimensions	90U/C0U/B0U: 12.4 x 10.1 x 1.8" (225 cu in) Others: 12.4 x 10.2 x 1.8"
Weight <sup>2</sup> (with batt/disk)	Celeron models: 7.5 lbs (3.4 kg) Pentium models: 7.7 lbs (3.5 kg)
Case material	PC/ABS plastic
Battery - type	90U/C0U/D0U/B0U: NiMH / intelligent / left side Others: Li-Ion / intelligent
Battery - life <sup>10</sup> (1 batt)	90U/C0U: 3.0 hrs DOU: 4 hrs E0U/ENU: 3.8 hrs B0U: 2.67 hrs
Charge time <sup>10</sup>	90U/C0U/B0U: 5 hrs on / 2.5 hrs off Others: 6 hrs on / 3 hrs off
Architecture	Intel 440BX AGPset / Intel PIIX4E (EIDE, PCI to ISA bridge, USB) Texas Instruments® TI1251A PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)
Docking station	None
Port replicator	ThinkPad Port Replicator with Advanced EtherJet™ / ThinkPad 560 Port Replic
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video
USB / serial / parallel	One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Ultralim AC adapter, barrel, 3-prong, 56 watts
Video (TV) out	S-Video out connector on side (does not require cable) / Chrontel Ch7004C-T
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)
Data/fax modem	56K <sup>37</sup> V.90 / integrated in system / PCI / Lucent 1646 / not voice-capable
Audio	16-bit SoundBlaster Pro™ compatible / ESS 1946 / PCI / full duplex
Speakers	Two Altec Lansing® stereo speakers on display (1 watt)
Audio features	Dial volume control (right side) / internal microphone
Audio in/out jacks	Microphone jack (stereo) / headphone jack (stereo) / line-in jack
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / setup password / disk password / security keyhole / security screw for UltraBay FX
Limited warranty <sup>11</sup>	1 year - carry-in or ThinkPad EasyServ™ <sup>31</sup> (door-to-door depot repair service)
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date

Color depth	LCD	External Monitor			OPTIONS	
Resolution	TFT	60Hz	75Hz	85Hz		
640x480	16M	16M	16M	16M	- 32MB SO DIMM 3.3v NP SDRAM	76H0294
800x600	16M	16M	16M	16M	- 64MB SO DIMM 3.3v NP SDRAM	20L0241
1024x768	16M	16M	16M	16M	- 128MB SO DIMM 3.3v NP SDRAM	01K1150
1280x1024	--	256	--	--	- ThinkPad 560 Port Replicator	46H4209
					- Port Replicator w/ Advanced EtherJet	05K4872
					- ThinkPad 390/i Series Li-Ion Battery	02K6513
					- Ultralim 56 watt AC Adapter (3-prong)	02K6545
					- 6.4GB disk with UltraBay FX adapter	05K8923
					- 10GB disk with UltraBay FX adapter	05K8983
					- DVD/Diskette (for UltraBay FX)	05K8921
					- CD/Diskette (for UltraBay FX)	05K8986
					- 900MHz Cordless Computer Conn	04K0064
					- V.90 PC Card Modem with XJACK <sup>24</sup>	10L7393
					- 10/100 Ethernet CardBus PC Card	08L3147
					- Smart Card Security Kit	33L5075
					- ThinkPad Proven™ solutions <sup>12</sup> (visit <a href="http://www.ibm.com/pc/us/thinkpad/proven">www.ibm.com/pc/us/thinkpad/proven</a> )	
					Pressing F1 during startup brings up IBM BIOS	
All models: - C: drive is FAT16 of 2GB - D: drive is FAT32 of remaining space						
The right bay (UltraBay FX) has a device lock on the bottom of the system and a bay LED which should be off to safely remove a device; it supports: • standard diskette/CD-ROM (warm swap; W98) • optional DVD/CD-ROM (warm swap; W98) • optional second battery (hot swap; W98/NT); same battery as main one • optional second disk (cold swap) • optional ThinkPad Proven™ solutions <sup>12</sup>						
					<b>WINDOWS 98 PRELOAD<sup>16</sup></b> <ul style="list-style-type: none"> <li>• Microsoft® Windows® 98</li> <li>• Online User's Guide</li> <li>• ThinkPad Configuration Program</li> <li>• ThinkPad Utilities</li> <li>• IBM Update Connector</li> <li>• RingCentral Fax</li> <li>• Ergonomics</li> <li>• Intelliquest Registration</li> <li>• Puma IntelliSync 97 (infrared)</li> <li>• IBM Global Network Dialer</li> <li>• Netscape Communicator</li> <li>• Lotus® SmartSuite Millennium<sup>20</sup></li> <li>• PC Doctor</li> <li>• ConfigSafe</li> <li>• Norton AntiVirus (OEM Version)</li> <li>• ThinkPad on the Net (TCC CD)</li> <li>• Universal Management Agent</li> <li>• Customization Center CD</li> <li>• Lotus SmartSuite Millennium CD-ROM</li> <li>• Recovery CD-ROM (Windows 98)</li> <li>• Recovery CD-ROM (Windows 95)<sup>7</sup></li> </ul>	
					<b>WINDOWS NT PRELOAD<sup>16</sup></b> <ul style="list-style-type: none"> <li>• Microsoft Windows NT® 4.0</li> <li>• Service Pack 4</li> <li>• ThinkPad Utilities</li> <li>• Online User's Guide</li> <li>• ThinkPad Configuration Program</li> <li>• Ergonomics</li> <li>• IBM Registration</li> <li>• Puma IntelliSync 97 (infrared)</li> <li>• IBM Global Network Dialer</li> <li>• Netscape Communicator</li> <li>• Lotus SmartSuite Millennium<sup>20</sup></li> <li>• Universal Management Agent</li> <li>• ConfigSafe</li> <li>• Norton AntiVirus (OEM Version)</li> <li>• IBM Update Connector</li> <li>• SystemSoft CardWizard</li> <li>• Universal Management Agent</li> <li>• Software Selections CD-ROM</li> <li>• Recovery CD-ROM (Windows NT)</li> </ul>	
					<b>FEATURES</b> Wired for Management 1.1a compliant DMI 2.0 compliant PC 98 compliant ACPI ready (APM enabled) Wake on LAN® support <sup>28</sup> Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card System Status Indicators Plug and Play 1.0a Standby, suspend, and hibernation modes ENERGY STAR compliant International Warranty Service <sup>14</sup> IBM SystemXtra® <sup>35</sup> 24 hour / 7 day <sup>30</sup> telephone, bulletin board, fax, electronic, and Internet ( <a href="http://www.ibm.com/pc/us">www.ibm.com/pc/us</a> ) support	

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 ⋈ Withdrawn from marketing by December 1999

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# IBM ThinkPad® 390X - withdrawn

## IBM® ThinkPad®

Processor	<b>Intel® Mobile Celeron™ 400MHz<sup>1</sup> or Mobile Pentium® II 400MHz</b> / 66MHz system bus				
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module (MMC2) <i>Celeron: 128KB; Pentium II: 256KB; All: onboard (full speed)</i> / sync pipelined burst / ECC / write-back				
L2 cache					
Diskette drive	Internal 3.5" 1.44MB / removable from UltraBay™ FX / on right side / integrated with CD-ROM / no external diskette port				
CD-ROM	<b>CD-ROM / 24X-10X<sup>5</sup> speed</b> / ATAPI / bootable / removable from UltraBay FX / on right side / integrated with diskette drive				
DVD-ROM	Option: Removable UltraBay FX option / 4X-1X <sup>6</sup> DVD integrated with a diskette drive				
Type - model	<b>2626-F0U</b>	<b>2626-H0U</b>	<b>2626-HNU</b>	<b>2626-J0U</b>	<b>2626-JNU</b>
Processor / MHz	<b>Celeron 400</b>	<b>Pentium II 400</b>	<b>Pentium II 400</b>	<b>Pentium II 400</b>	<b>Pentium II 400</b>
Disk - size / read ms	<b>4.8GB<sup>4</sup> / 13ms</b>	<b>6.4GB / 12ms</b>	<b>6.4GB / 12ms</b>	<b>6.4GB / 12ms</b>	<b>6.4GB / 12ms</b>
Preload (see side)	<b>Windows 98</b>	<b>Windows 98</b>	<b>NT 4.0</b>	<b>Windows 98</b>	<b>NT 4.0</b>
Avail / withdrawn date	Sept 99 / Jul 00	Sept 99 / Jul 00	Sept 99 / Jul 00	Sept 99 / Jul 00	Sept 99 / Jul 00
Display (diagonal)	<b>12.1" TFT SVGA</b>	<b>14.1" TFT XGA</b>	<b>14.1" TFT XGA</b>	<b>15" TFT XGA</b>	<b>15" TFT XGA</b>
Display - size and type	<b>12.1" TFT color 308mm / Active Matrix SVGA / 800x600 / 20 to 30ms / 150 nits / 16.7 million colors / 150 to 1 contrast</b>		<b>14.1" TFT color 358mm / Active Matrix XGA / 1024x768 / 20 to 30ms / 120 nits / 16.7 million colors / 150 to 1 contrast</b>		<b>15.0" TFT color 381mm / Active Matrix XGA / 1024x768 / 10 to 30ms / 120 nits / 16.7 million colors / 150 to 1 contrast</b>
Display - technology					
Graphics controller	<b>NeoMagic™ MagicMedia256AV™ (NM2200)</b> / 128-bit engine, 256-bit memory interface / <b>1X AGP</b> / DDC2B / <b>2.5MB</b> / SGRAM (embedded) / <b>motion compensation</b> / color space conversion / interpolation in X and Y axis / Simultaneous LCD and CRT <sup>26</sup> / 150 degree tilt / multiple-monitor support <sup>26</sup>				
Memory - std / max	<b>64MB / 512MB<sup>33</sup></b>				
Memory - features	<b>SDRAM</b> / non-parity / 100MHz / PC100-compliant / 3.3 volt / 64-bit / 2 sockets for JEDEC 144-pin SO DIMMs / one socket used by std memory / Sockets accessed from bottom via removing cover held by phillips-head screw				
Disk controller	EIDE / PCI 2.1 / one internal disk / disk can be removed to upgrade by customer / supports two internal disks / 13ms read / 14ms write / S.M.A.R.T. <sup>29</sup>				
Keyboard	Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet				
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps				
Dimensions	<b>12.1"/14.1": 12.4 x 10.1 x 1.8" (225 cu in) 15": 12.9 x 10.6 x 1.8" (246 cu)</b>				
Weight <sup>2</sup> (with batt/disk)	<b>12.1" and 14.1" models: 7.5 lbs (3.4 kg) 15" models: 7.9 lbs (3.6 kg)</b>				
Case material	PC/ABS plastic				
Battery - type	<b>F0U: NiMH / intelligent / left side Others: Li-Ion / intelligent / left side</b>				
Battery - life <sup>10</sup> (1 batt)	<b>F0U: 2.5 hrs Gxx/Hxx: 3.67 hrs Jxx: 3.5 hrs</b>				
Charge time <sup>10</sup>	<b>F0U/Hxx: 5 hrs on / 2.5 hrs off Jxx: 6 hrs on / 3 hrs off</b>				
Architecture	<b>Intel 440BX AGPset / Intel PIIX4E</b> (EIDE, PCI to ISA bridge, USB) / Texas Instruments® <b>T11251B</b> PCMCIA controller / NS PC97338 (FDC, IR, I/O) / PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) / ISA (diskette, serial, parallel, infrared)				
Docking station	None				
Port replicator	ThinkPad Port Replicator with Advanced EtherJet™ / Basic Port Replicator				
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video				
USB / serial / parallel	<b>One USB</b> / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
Other features	APM-aware BIOS / Ultralim AC adapter, barrel, 3-prong, 56 watts				
Video (TV) out	S-Video out connector on side (does not require cable) / Chrontel Ch7004C-T				
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)				
Data/fax modem	<b>56K<sup>22</sup> V.90</b> / integrated in system / PCI / Lucent 1646 / not voice-capable / conforms to earlier draft specs similar to Mini PCI Type IIIb / 16-bit SoundBlaster Pro™ support / ESS 1946 / PCI / full duplex				
Audio	Two Altec Lansing® stereo speakers (1 watt) on display (on front for 15" mod)				
Speakers	Dial volume control (right side) / internal microphone				
Audio features	Microphone jack (stereo) / headphone jack (stereo) / line-in jack				
Audio in/out jacks	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps				
Infrared ports					
Security	Power-on password / setup password / disk password / security keyhole / security screw for UltraBay FX				
Limited warranty <sup>11</sup>	<b>1 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> (door-to-door depot repair service)				
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date				
<b>Color depth</b>	<b>LCD</b>	<b>External Monitor</b>			<b>OPTIONS</b> - 32MB SO DIMM 100MHz NP SDRAM 20L0253 - 64MB SO DIMM 100MHz NP SDRAM 20L0254 - 128MB SO DIMM 100Mz NP SDRAM 20L0255 - 256MB SO DIMM 100Mz NP SDRAM 33L3069 - Basic (ThinkPad 560) Port Replicator 46H4209 - Port Replicator w/ Advanced EtherJet 05K4872 - ThinkPad 390/i Series Li-Ion Battery 02K6513 - Ultralim 56 watt AC Adapter (3-prong) 02K6545 - 6.4GB disk with UltraBay FX adapter 05K8923 - 10GB disk with UltraBay FX adapter 05K8983 - 12GB disk with UltraBay FX adapter 05K9268 - 4X-1X DVD/Diskette (for UltraBay FX) 05K9129 - CD/Diskette (for UltraBay FX) 05K8986 - 10/100 EtherJet Ready Port CardBus Adapter with 56K modem 34L1301 - 10/100 Ethernet CardBus PC Card 08L3147 - IBM Portable Drive Bay 37L1511 - ThinkPad Proven™ solutions <sup>12</sup> (visit <a href="http://www.ibm.com/pc/us/thinkpad/proven">www.ibm.com/pc/us/thinkpad/proven</a> ) Pressing F1 during startup brings up IBM BIOS Setup Utility
<b>Resolution</b>	<b>TFT</b>	<b>60Hz</b>	<b>75Hz</b>	<b>85Hz</b>	
640x480	16M	16M	16M	16M	
800x600	16M	16M	16M	16M	
1024x768	16M	16M	16M	16M	
1280x1024	--	256	--	--	
All models:	- C: drive is FAT16 of 2GB - D: drive is FAT32 of remaining space				
The right bay (UltraBay FX) has a device lock on the bottom of the system and a bay LED which should be off to safely remove a device; it supports:	<ul style="list-style-type: none"> <li>standard diskette/CD-ROM (warm swap with Windows 98)</li> <li>optional DVD/CD-ROM (warm swap; W98)</li> <li>optional second battery (hot swap; W98/NT); same battery as main one</li> <li>optional second disk (cold swap)</li> <li>optional ThinkPad Proven™ solutions<sup>12</sup></li> </ul>				

### WINDOWS 98 PRELOAD<sup>16</sup>

- Microsoft® Windows® 98
- Access ThinkPad
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- IBM Update Connector
- RingCentral Fax
- Ergonomics
- Intelliquest Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Communicator
- Lotus® SmartSuite® Millennium<sup>20</sup>
- PC-Doctor
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- Universal Management Services
- Software Selections CD
- Lotus SmartSuite Millennium CD-ROM
- Recovery CD-ROM (Windows 98)
- Recovery CD-ROM (Windows 95)<sup>7</sup>

### WINDOWS NT PRELOAD<sup>16</sup>

- Microsoft Windows NT® 4.0
- Service Pack 4
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- Ergonomics
- Intelliquest Registration
- Puma IntelliSync 97 (infrared)
- IBM Global Network Dialer
- Netscape Communicator
- ConfigSafe
- Norton AntiVirus (OEM Version)
- IBM Update Connector
- SystemSoft CardWizard
- Universal Management Services
- Software Selections CD-ROM
- Lotus SmartSuite Millennium CD-ROM
- Recovery CD-ROM (Windows NT)

### FEATURES

- Wired for Management 1.1a-compliant
- DMI 2.0-compliant
- PC 98-compliant
- ACPI ready (APM enabled)
- Wake on LAN® support<sup>28</sup>
- Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card
- System Status Indicators
- Plug and Play 1.0a
- Standby, suspend, and hibernation modes
- ENERGY STAR-compliant
- International Warranty Service<sup>14</sup>
- IBM SystemXtra®<sup>35</sup>
- 24 hour / 7 day<sup>30</sup> telephone, bulletin board, fax, electronic, and Internet ([www.ibm.com/pc/us](http://www.ibm.com/pc/us)) support

# IBM ThinkPad® 390X (Pentium III) - withdrawn

<b>IBM® ThinkPad®</b>					
Processor	<b>Intel® Mobile Mobile Pentium® III 450 or 500MHz<sup>1</sup> / 100MHz system bus</b>				
Processor features	No upgrade / processor, L2 cache, and memory controller (North Bridge) on Intel Mobile Module (MMC2)				
L2 cache	<b>256KB</b> / at processor speed / sync pipelined burst / ECC / write-back				
Diskette drive	Internal 3.5" 1.44MB / removable from UltraBay™ FX / on right side / integrated with CD-ROM / no external diskette port				
CD-ROM	<b>CD-ROM / 24X-10X<sup>5</sup> speed</b> / ATAPI / bootable / removable from UltraBay FX / on right side / integrated with diskette drive				
DVD-ROM	<i>Option:</i> Removable UltraBay FX option / 4X-1X <sup>6</sup> DVD integrated with a diskette drive				
Type - model	≈ <b>2626-L0U</b>	≈ <b>2626-LNU</b>	≈ <b>2626-L2U</b>	≈ <b>2626-M0U</b>	≈ <b>2626-MNU</b>
Processor / MHz	<b>Pentium III 450MHz</b>	<b>Pentium III 450MHz</b>	<b>Pentium III 450MHz</b>	<b>Pentium III 500MHz</b>	<b>Pentium III 500MHz</b>
Disk - size / read ms	<b>12.0GB<sup>4</sup> / 12ms</b>	<b>12.0GB / 12ms</b>	<b>12.0GB / 12ms</b>	<b>12.0GB / 12ms</b>	<b>12.0GB / 12ms</b>
Preload (see side)	<b>Windows 98 SE</b>	<b>NT 4.0</b>	<b>Windows 2000</b>	<b>Windows 98 SE</b>	<b>NT 4.0</b>
Avail / withdrawn date	Dec 1999 / Oct 2000	Dec 1999 / Oct 2000	Feb 2000 / Oct 2000	Dec 1999 / Jan 2001	Dec 1999 / Jan 2001
Display (diagonal)	<b>14.1" TFT XGA</b>	<b>14.1" TFT XGA</b>	<b>14.1" TFT XGA</b>	<b>15" TFT XGA</b>	<b>15" TFT XGA</b>
Display - size and type	<b>14.1" TFT color</b> 358mm / <b>Active Matrix</b>			<b>15.0" TFT color</b> 381mm / <b>Active Matrix</b>	
Display - technology	<b>XGA / 1024x768</b> / 20 to 30ms / 120 nits <b>16.7 million colors</b> / 150 to 1 contrast			<b>XGA / 1024x768</b> / 10 to 30ms / 120 nits <b>16.7 million colors</b> / 150 to 1 contrast	
Graphics controller	<b>NeoMagic™ MagicMedia256AV™</b> (NM2200) / 128-bit engine, 256-bit memory interface / <b>1X AGP</b> / DDC2B / <b>2.5MB</b> / SGRAM (embedded) / <b>motion compensation</b> / color space conversion / interpolation in X and Y axis / simultaneous LCD and CRT <sup>26</sup> / 150 degree tilt / multiple-monitor support <sup>26</sup>				
Memory - std / max	<b>64MB</b> / 512MB <sup>33</sup>				
Memory - features	<b>SDRAM</b> / non-parity / 100MHz / PC100-compliant / 3.3 volt / 64-bit / 2 sockets for JEDEC 144-pin SO DIMMs / one socket used by std memory / sockets accessed from bottom via removing cover held by phillips-head screw				
Disk controller	EIDE / PCI 2.1 / one internal disk / disk can be removed to upgrade by customer / supports two internal disks / 13ms read / 14ms write / S.M.A.R.T. <sup>29</sup>				
Keyboard	Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet				
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps				
Dimensions <sup>36</sup>	<b>14.1" mod:</b> 12.4 x 10.2 x 1.8" (228 cu in) <b>15" mod:</b> 12.9 x 10.6 x 1.8" (246 cu)				
Weight <sup>2</sup> (with batt/disk)	<b>14.1" models:</b> 7.7 lbs (3.5 kg) <b>15" models:</b> 7.9 lbs (3.6 kg)				
Case material	PC/ABS plastic				
Battery - type	Li-Ion / intelligent / left side				
Battery - life <sup>10</sup> (1 batt)	<b>14.1" models:</b> 3.7 hrs <b>15" models:</b> 3.3 hrs				
Charge time <sup>10</sup>	<b>14.1" models:</b> 5 hrs on / 2.5 hrs off <b>15" models:</b> 6 hrs on / 3 hrs off				
Architecture	<b>Intel 440BX AGPset / Intel PIIX4E</b> (EIDE, PCI to ISA bridge, USB) / Texas Instruments® <b>T11251B</b> PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)				
Docking station	None				
Port replicator	ThinkPad Port Replicator with Advanced EtherJet™ / Basic Port Replicator				
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video				
USB / serial / parallel	<b>One USB</b> / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) APM-aware BIOS / Ultrasmil AC adapter, barrel, 3-prong, 56 watts				
Other features					
Video (TV) out	S-Video out connector on side (does not require cable) / Chrontel Ch7004C-T				
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)				
Data/fax modem	<b>56K<sup>37</sup> V.90</b> / integrated in system / PCI / Lucent 1646 / not voice-capable / conforms to earlier draft specs similar to Mini PCI Type IIIb				
Audio	16-bit SoundBlaster Pro™ support / ESS 1946 / PCI / full duplex				
Speakers	Two Altec Lansing® stereo speakers (1 watt) on display (on front for 15" mod)				
Audio features	Dial volume control (right side) / internal microphone				
Audio in/out jacks	Microphone jack (stereo) / headphone jack (stereo) / line-in jack				
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps				
Security	Power-on password / setup password / disk password / security keyhole / security screw for UltraBay FX				
Limited warranty <sup>11</sup>	<b>1 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> (door-to-door depot repair service)				
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date				

- WINDOWS 98 PRELOAD<sup>16</sup>**
- Microsoft® Windows® 98 Second Edition
  - Access ThinkPad
  - Online User's Guide
  - ThinkPad Configuration Program
  - ThinkPad Utilities
  - IBM Update Connector
  - RingCentral Fax
  - ThinkPad on the Net
  - Intelliquest Registration
  - IBM Global Network Dialer
  - Netscape Communicator
  - Lotus® SmartSuite® Millennium<sup>20</sup>
  - PC-Doctor
  - ConfigSafe®
  - Norton AntiVirus™ (OEM Version)
  - Universal Management Services (web)
  - ◇ Software Selections CD
  - ◇ Lotus SmartSuite Millennium CD-ROM
  - ◇ Recovery CD-ROM (Windows 98)
  - ◇ Recovery CD-ROM (Windows 95)<sup>7</sup>
- WINDOWS 2000 PRELOAD<sup>16</sup>**
- Windows 2000® Professional
  - ThinkPad Utilities
  - Online User's Guide
  - ThinkPad Configuration Program
  - IBM Registration
  - PC-Doctor
  - RingCentral Fax
  - Netscape Communicator
  - ConfigSafe
  - IBM Update Connector
  - SystemSoft CardWizard
  - Norton AntiVirus™ (OEM Version)
  - Universal Management Services (web)
  - ◇ Lotus SmartSuite Millennium CD
  - ◇ Software Selections CD-ROM
  - ◇ Recovery CD-ROM (Windows 2000)
  - ◇ Recovery CD-ROM (Windows NT)<sup>40</sup>

Color depth	LCD	External Monitor			OPTIONS
Resolution	TFT	60Hz	75Hz	85Hz	
640x480	16M	16M	16M	16M	- 32MB SO DIMM 100MHz NP SDRAM 20L0253
800x600	16M	16M	16M	16M	- 64MB SO DIMM 100MHz NP SDRAM 20L0254
1024x768	16M	16M	16M	16M	- 128MB SO DIMM 100MHz NP SDRAM 20L0255
1280x1024	--	256	--	--	- 256MB SO DIMM 100MHz NP SDRAM 33L3069
The right bay (UltraBay FX) has a device lock on the bottom of the system and a bay LED which should be off to safely remove a device; it supports:					
<ul style="list-style-type: none"> <li>• standard diskette/CD-ROM (warm swap with Windows 98)</li> <li>• optional DVD/CD-ROM (warm swap; W98)</li> <li>• optional second battery (hot swap; W98/NT); same battery as main one</li> <li>• optional second disk (cold swap)</li> <li>• optional ThinkPad Proven™ solutions<sup>12</sup></li> </ul>					
Windows 2000 model:					
- C: drive is FAT32 of entire disk					
<ul style="list-style-type: none"> <li>- 46H4209 - Basic (ThinkPad 560) Port Replicator</li> <li>- 05K4872 - Port Replicator w/ Advanced EtherJet</li> <li>- 02K6513 - ThinkPad 390 Li-Ion Battery</li> <li>- 02K6545 - Ultrasmil 56 watt AC Adapter (3-prong)</li> <li>- 05K8923 - 6.4GB disk with UltraBay FX adapter</li> <li>- 05K8983 - 10GB disk with UltraBay FX adapter</li> <li>- 05K9268 - 12GB disk with UltraBay FX adapter</li> <li>- 05K9129 - 4X-1X DVD/Diskette (for UltraBay FX)</li> <li>- 05K8986 - CD/Diskette (for UltraBay FX)</li> <li>- 34L1301 - 10/100 EtherJet Ready Port CardBus Adapter with 56K modem</li> <li>- 08L3147 - 10/100 Ethernet CardBus PC Card</li> <li>- 33L5075 - Smart Card Security Kit</li> <li>- 37L1511 - IBM Portable Drive Bay</li> <li>- 00N8215 - IBM MultiPort USB Hub</li> </ul>					

- FEATURES**
- Wired for Management 1.1a-compliant
  - DMI 2.0-compliant
  - PC 98-compliant
  - ACPI ready (APM enabled)
  - Wake on LAN® support<sup>28</sup>
  - Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card
  - System Status Indicators
  - Plug and Play 1.0a
  - Standby, suspend, and hibernation modes
  - ENERGY STAR-compliant
  - International Warranty Service<sup>14</sup>
  - IBM SystemXtra®.<sup>35</sup>
  - 24 hour / 7 day<sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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≈ = Withdrawn from marketing

No warranties are expressed or implied in this summary  
(390X2) © IBM Corp. January 2001

# IBM ThinkPad 560 - withdrawn

<b>IBM® ThinkPad®:</b>	≧ 560	≧ 560	<b>ThinkPad 560 key features:</b>				
Processor type	Pentium® 100/66, 120/60, 133/66 MHz / 64 bit to transfers to memory		<ul style="list-style-type: none"> <li>➤ Next generation <b>ultraportable notebook</b></li> <li>➤ <b>Slim: 1.2 inches</b></li> <li>➤ <b>Lightweight: 4.1 pounds</b></li> <li>➤ <b>Full size keyboard</b></li> <li>➤ <b>Pentium 100/66 to 133/66 MHz</b></li> <li>➤ <b>11.3" Dual Scan SVGA or 12.1" TFT SVGA</b></li> <li>➤ <b>PCI bus</b></li> <li>➤ <b>8 MB EDO memory</b></li> </ul>				
Processor upgrade	None						
L2 cache	None						
Diskette drive	External 3.5" 1.44 MB (connects to left side) / includes case with a cable						
External FDD port	External FDD port (works with standard external diskette; no kit reqd)						
CD-ROM drive	None (CD-ROM drive as OEM option via PCMCIA or parallel port)						
Price							
Type - model	2640-50A	Pallet of 24 2640-50C	2640-E0A	Pallet of 24 2640-E0C	2640-F0E	2640-F0D	Pallet of 24 2640-F0G
Preload (see side)	Windows 95	Blank	Windows 95	Blank	Windows 95	OS/2 Warp Connect	Blank
Avail / withdrawn date	May 96 / June 97 and Apr 97		May 1996 / January 1997		Jul 96 / Apr 97		July 1996 / January 1997
Pentium speed	<b>100/66 MHz</b>		<b>120/60 MHz</b>		<b>133/66 MHz</b>		
Disk - size / ms	<b>810 MB / 13 ms</b>		<b>810 MB / 13 ms</b>		<b>1.08 GB / 13 ms</b>		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk						
Display - size and type	<b>11.3" Dual Scan SVGA color</b>		<b>12.1" TFT SVGA color</b>				
Display - technology	11.3" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio			12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio			
Graphics - controller	Trident™ CYBER9382 / 64 bit SVGA accelerator / 1 MB fast page DRAM / 70 ns						
Graph - arch/data path	PCI 2.1 / 32 bit / 32 bit path to memory / <b>DCI, DirectDraw, EndIVE support</b>						
Graphics - features	Simultaneous LCD and CRT / 135 degree tilt						
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors						
Memory - std / max	<b>8 MB / 40 MB (72 MB with ThinkPad Proven option)</b>						
Memory - features	70 ns / non-parity / 3.3 volt / EDO						
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, or 32 MB						
Keyboard / # of keys	<b>Full size</b> alp/num / 85 (6 Fn key functions)						
Keyboard slope	<b>Large palm rest</b> / keyboard remains flat (no sloop) / opt P Replicator adds slope						
Pointing device	TrackPoint III™ / no drag lock keys						
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)						
Dimensions	11.7 x 8.7 x 1.22" (124 cubic inches)						
Weight	4.12 pounds (1.87 kg)			4.10 pounds (1.86 kg)			
Battery - type	Lithium Ion / intelligent						
Battery - life (1 batt)	3 hours						
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs						
Architecture	ISA (audio, diskette, serial, parallel, infrared) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA) / Mobile Triton 82430MX						
Docking Station	ThinkPad 560 Port Replicator						
Port replicator	2 Type I or 2 Type II or 1 Type III						
PCMCIA™ 2.1 slots	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)						
Serial / parallel ports	Universal AC Adapter 2 prong (35 watts) with barrel connector / APM-aware BIOS / Selectable boot IBM BIOS						
Other features							
Video in/out	None						
MPEG decoder	None						
DSP function	None						
Data/fax modem	None						
Audio support	<b>16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688</b> Int stereo speakers / .5 watt / rotary volume control / internal microphone						
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / not full duplex speaker/mic						
Telephone	None						
Infrared ports	<b>Infrared port (left side) / IrDA 1.0 compatible / up to 115 Kbps</b>						
Security	Power-on password / Locking device keyhole on back (Kensington™ cable lock) / Personalization screen at startup						
Preinstalled software	Windows 95 with applications (listed on right)						
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in						
Easy-Setup is entered by holding F1 when turning on.				Compatible in ThinkPad 560 family:			
810 MB = DMA Mode 2 or PIO Mode 4				- Disks: (365/760 IDE disks not supported)			
1.08 GB = DMA Mode 2 or PIO Mode 4				- 1.08 GB HDD II EIDE 13 ms 46H4208			
				- 2.1 GB HDD 14 ms 45H8783			
				- ThinkPad 560 Port Replicator 46H4209			
				- ThinkPad 560 Li-Ion Battery Pack 46H4206			
				- 35 watt AC Adapter - barrel/3 prong 85G6719			
				- 35 watt AC Adapter (slim, 2 pin) 76H0139			
				- 8 MB SO DIMM 3.3v NP EDO 64 bit 92G7340			
				- 16 MB SO DIMM 3.3v NP EDO 64 bit 92G7341			
				- 32 MB SO DIMM 3.3v NP EDO 64 bit 92G7342			
				Disk is not removable (like 755/760 systems), but it can be upgraded via a dealer or service center (not customer installable).			
				System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.			
<b>Hardware acceleration</b> of 'Video for Windows™' is integrated into the 9382 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled							
						<b>WINDOWS 95 PRELOAD</b>	
						<ul style="list-style-type: none"> <li>- Microsoft Windows 95</li> <li>- Online User's Guide</li> <li>- ThinkPad Features Program</li> <li>- PC Card Director 4.0</li> <li>- Diskette Factory</li> <li>1. Triton CoSession™ Host</li> <li>2. Lotus Organizer</li> <li>3. IntelliLink Connect</li> <li>4. IBM Internet Connection Services with Netscape Navigator web browser</li> <li>5. Puma TranXit™</li> <li>6. CompuServ for Windows</li> <li>7. NetFinity for Windows 95</li> <li>- Lotus SmartSuite 96 CD-ROM</li> </ul>	
						<b>OS/2 WARP CONNECT PRELOAD</b>	
						<ul style="list-style-type: none"> <li>- IBM OS/2 Warp Connect Version 3 with WIN-OS/2 with BonusPak applications</li> <li>- Online User's Guide</li> <li>- ThinkPad Features Program</li> <li>- PC Card Director 4.0</li> <li>- Diskette Factory</li> <li>1. Lotus Organizer</li> <li>2. Puma TranXit™</li> <li>3. IntelliLink Connect</li> <li>4. NetFinity for OS/2</li> <li>5. Triton CoSession™ Host;</li> <li>- Lotus SmartSuite 4.0 (entitled to SSuite 96)</li> </ul>	
						<b>BLANK PRELOAD</b>	
						- License for SmartSuite	
						The optional <b>ThinkPad 560 Port Replicator</b> acts as a wedge which attaches to the back and bottom of the unit and provides a keyboard slope.	
						<b>FEATURES OF 560 MODELS</b>	
						Quick Setup Guide	
						Plug and Play 1.0a	
						Standby, suspend, safe suspend, and hibernation modes	
						US EPA Energy Star compliant	
						Personalized nameplate indentation	
						Personalization screen at startup	
						<b>International Warranty Service</b>	
						<b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b>	
						<b>IBM and dealer warranty/service</b>	
						<b>Online Housecall (remote diagnostics)</b>	

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
 ≧ = Withdrawn from marketing

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 No warranties are expressed or implied in this summary  
 (560) Compiled by Roger Dodson, IBM. June 1997

# IBM ThinkPad 560 (1997 models) - withdrawn

<b>IBM® ThinkPad®:</b>	<b>≧ 560</b>	<b>≧ 560</b>	<b>ThinkPad 560 key features:</b> ⇨ Next generation <b>ultraportable notebook</b> ⇨ <b>Slim: 1.2 inches</b> ⇨ <b>Lightweight: 4.1 pounds</b> ⇨ <b>Full size keyboard</b> ⇨ <b>Pentium 133/66 MHz</b> ⇨ <b>11.3" Dual Scan SVGA or 12.1" TFT SVGA</b> ⇨ <b>PCI bus</b> ⇨ <b>8 MB EDO memory</b>
Processor type	<b>Pentium® 133/66 MHz</b> / 64 bit to transfers to memory	11.3" Dual Scan SVGA color	
Processor upgrade	None		
L2 cache	None		
Diskette drive	External 3.5" 1.44 MB (connects to left side) / includes case with a cable		
External FDD port	External FDD port (works with standard external diskette; no kit reqd)		
CD-ROM drive	None (CD-ROM drive as OEM option via PCMCIA or parallel port)		
Code name	Kinzie 3		
Price			
Type - model	<b>2640-10U</b>	<b>2640-20U</b>	
Preload (see side)	<b>Windows 95 OSR2</b>		
Avail / withdrawn date	February 1997 / January 1998		
Disk - size / ms	<b>2.1 GB</b> / 14 ms / DMA Mode 2 or PIO Mode 4		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	<b>11.3" Dual Scan SVGA color</b>   <b>12.1" TFT SVGA color</b>		
Display - technology	11.3" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio	12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio	
Graphics - controller	Trident™ CYBER9382 / 64 bit SVGA accelerator / 1 MB fast page DRAM / 70 ns		
Graph - arch/data path	PCI 2.1 / 32 bit / 32 bit path to memory / DCI, DirectDraw, EnDIVE support		
Graphics - features	Simultaneous LCD and CRT / 135 degree tilt		
Graphics - external	External SVGA to 1024 x 768 with 256 colors		
Memory - std / max	<b>8 MB</b> / 40 MB (72 MB w/ ThinkPad Proven option)		
Memory - features	70 ns / non-parity / 3.3 volt / EDO		
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, or 32 MB		
Keyboard / # of keys	<b>Full size</b> alp/num / 85 keys (6 Fn key functions)		
Keyboard slope	<b>Large palm rest</b> / keyboard remains flat (no sloop) / opt P Replicator adds slope		
Pointing device	TrackPoint III™ / no drag lock keys		
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)		
Dimensions	11.7 x 8.7 x 1.22" (124 cubic inches)		
Weight	4.12 pounds (1.87 kg)	4.10 pounds (1.86 kg)	
Battery - type	Lithium Ion / intelligent		
Battery - life (1 batt)	3 hours		
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs		
Architecture	ISA (audio, diskette, serial, parallel, infrared) PCI 2.1 / 32 bit / 33 MHz (EIDE, graphics, PCMCIA) / Mobile Triton 82430MX		
Docking Station	None		
Port replicator	ThinkPad 560 Port Replicator		
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	Universal AC Adapter 2 prong (35 watts) with barrel connector (slim) / APM-aware BIOS / Selectable boot IBM BIOS		
Video in/out	None		
MPEG decoder	None		
DSP function	None		
Data/fax modem	None		
Audio support	<b>16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688</b> Internal stereo speakers / .5 watt / rotary volume control / internal microphone		
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)		
Telephone	None		
Infrared ports	<b>Infrared port (left side) / IrDA 1.0 compatible / up to 115 Kbps</b>		
Security	Power-on password / hard disk password / Locking device keyhole on back (Kensington™ cable lock) / Personalization screen at startup		
Preinstalled software	Windows 95 with applications (listed on right)		
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in		
Easy-Setup is entered by holding F1 when turning on.			
Fn + F2 = Battery gauge			
Fn + F3 = Standby			
Fn + F4 = Suspend			
Fn + F7 = LCD/CRT/Simultaneous			
Fn + F11 = Power mgmt			
Fn + F12 = Hibernation			
<b>Hardware acceleration</b> of 'Video for Windows™' is integrated into the 9382 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled			
System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.			
	<b>OPTIONS</b>		
	<ul style="list-style-type: none"> <li>- Disks: (365/760 IDE disks not supported)</li> <li>1.08 GB HDD II EIDE 13 ms 46H4208</li> <li>2.1 GB HDD 14 ms 45H8783</li> <li>4.0 GB HDD 13 ms 02K0501</li> <li>- ThinkPad 560 Port Replicator 46H4209</li> <li>- ThinkPad 560 Li-Ion Battery Pack 46H4206</li> <li>- 35 watt AC Adapter - barrel/3 prong 85G6719</li> <li>- 35 watt AC Adapter (slim, 2 pin) 76H0139</li> <li>- 8 MB SO DIMM 3.3v NP EDO 64 bit 92G7340</li> <li>- 16 MB SO DIMM 3.3v NP EDO 64 bit 92G7341</li> <li>- 32 MB SO DIMM 3.3v NP EDO 64 bit 92G7342</li> <li>- 8-20 x Portable CD-ROM 1969010</li> <li>- 8-20 x Portable Stereo CD-ROM 1969011</li> <li>- Other options from ThinkPad Proven partners</li> </ul>		
	Disk is not removable (like 755/760 systems), but it can be upgraded via a dealer or service center (not customer installable).		
	<b>FEATURES OF 560 MODELS</b>		
	Quick Setup Guide Plug and Play 1.0a Standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate indentation Personalization screen at startup <b>International Warranty Service</b> <b>IBM System Care Program</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>		

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.

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 No warranties are expressed or implied in this summary  
 (56097) Compiled by Roger Dodson, IBM. December 1997



# IBM ThinkPad 560E - withdrawn

<b>IBM® ThinkPad®:</b>	<b>≧ 560E</b>	<b>≧ 560E</b>
	11.3" Dual Scan SVGA color	12.1" TFT SVGA color
Processor type	<b>Pentium® 150/60 MHz or 166/66 MHz / both with MMX technology</b> / 64 bit transfers to L2 cache and memory	
Processor upgrade	None	
L2 cache	<b>256 KB</b> / write-back / direct mapped / 8 ns / synchronous pipelined burst	
Diskette drive	External 3.5" 1.44 MB (connects to left side) / includes case with a cable	
External FDD port	External FDD port (works with standard external diskette; no kit reqd)	
CD-ROM drive	None (CD-ROM drive as OEM option via PCMCIA or parallel port)	
Price		
Type - model (code)	<b>2640-30U</b>	<b>2640-40U s</b>
Processor	<b>Pentium 150/60 with MMX</b>	<b>Pentium 166/66 MHz with MMX technology</b>
Preload (see side)	<b>Windows 95 OSR2</b>	
Avail / withdrawn date	June 1997 / January 1998	
Disk - size / ms	<b>2.1 GB</b> / 14 ms / DMA Mode 2 or PIO Mode 4 / SMART	
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	
Display - size and type	<b>11.3" Dual Scan SVGA color</b>   <b>12.1" TFT SVGA color</b>	
Display - technology	11.3" SVGA color / 640 x 480 or 800 x 600 65,536 sim colors / Dual Scan / 30 to 1 contrast ratio	12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9382 / 64 bit SVGA accelerator / 2 MB fast page DRAM / 70 ns	
Graph - arch/data path	PCI 2.1 / 32 bit / 32 bit path to memory / DCI, DirectDraw, EnDIVE support	
Graphics - features	Simultaneous LCD and CRT / 135 degree tilt	
Graphics - external	External SVGA to 1024 x 768 with 256 colors	
Memory - std / max	<b>16 MB</b> / 80 MB	
Memory - features	70 ns / non-parity / 3.3 volt / EDO	
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64 MB	
Keyboard / # of keys	<b>Full size</b> alp/num / 85 keys (6 Fn key functions)	
Keyboard slope	<b>Large palm rest</b> / keyboard remains flat (no sloop) / opt P Replicator adds slope	
Pointing device	TrackPoint III™ / no drag lock keys	
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)	
Dimensions	11.7" x 8.7" x 1.22" (124 cubic inches)	
Weight	4.1 pounds (1.9 kg)   4.1 pounds (1.9 kg)	
Battery - type	Lithium Ion / intelligent	
Battery - life (1 batt)	3 hours	
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs	
Architecture	ISA (audio, diskette, serial, parallel, infrared) / NS PC87334 (FDC, IR, I/O) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA) / Mobile Triton 82430MX	
Docking Station	None	
Port replicator	ThinkPad 560 Port Replicator	
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III / Cirrus Logic® PD6729	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	Universal AC Adapter 2 prong (35 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / IBM BIOS	
Video in/out	None	
MPEG decoder	None	
DSP function	None	
Data/fax modem	None	
Audio support	<b>16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688</b> Internal stereo speakers / .5 watt / rotary volume control / internal microphone	
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / not full duplex speakers/mic	
Telephone	None	
Infrared ports	<b>Infrared port (left side) / IrDA 1.1 compatible / up to 4 Mbps</b>	
Security	Power-on password / hard disk password / Locking device keyhole on back (Kensington™ cable lock) / Personalization screen at startup	
Preinstalled software	Windows 95 with applications (listed on right)	
Warranty	<b>1 year</b> - ThinkPad EasyServ (depot repair service) or carry-in	
Service options	On-Site, M-F, 8-5, next bus day (71 cities) / Warranty extension to 3 or 5 years	
Easy-Setup is entered by holding F1 when turning on.		
Fn + F2 = Battery gauge		
Fn + F3 = Standby		
Fn + F4 = Suspend		
Fn + F7 = LCD/CRT/Simultaneous		
Fn + F11 = Power mgmt		
Fn + F12 = Hibernation		
<b>Hardware acceleration</b> of Video for Windows™ is integrated into the 9382 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled		
System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.		
	<b>OPTIONS</b>	
	- Disks: (365/760 IDE disks not supported)	
	2.1 GB HDD 14 ms	45H8783
	4.0 GB HDD 13 ms	02K0501
	- ThinkPad 560 Port Replicator	46H4209
	- ThinkPad 560 Li-Ion Battery Pack	46H4206
	- 35 watt AC Adapter - barrel/3 prong	85G6719
	- 35 watt AC Adapter (slim, 2 pin)	76H0139
	- 8 MB SO DIMM 3.3v NP EDO 64 bit	92G7340
	- 16 MB SO DIMM 3.3v NP EDO 64 bit	92G7341
	- 32 MB SO DIMM 3.3v NP EDO 64 bit	92G7342
	- 64 MB SO DIMM 3.3v NP EDO 64 bit	76H0268
	- External 4 x PCMCIA CD-ROM	1969008
	- Ext 4 x PCMCIA Stereo CD-ROM	1969009
	- 8-20 x Portable CD-ROM	1969010
	- 8-20 x Portable Stereo CD-ROM	1969011
	- PCMCIA 33.6 Kbps modem	25H6420
	- PCMCIA 33.6 modem w/ XJACK	55H6759
	- 56K PC Card Modem Kit	04K0052
	- Other options from ThinkPad Proven partners	
	<b>WINDOWS 95 PRELOAD</b>	
	- Microsoft Windows 95 OSR2 (FAT16)	
	- Online User's Guide	
	- ThinkPad Features Program	
	- PC Card Director 4.0	
	- Diskette Factory	
	1. Triton CoSession™ Host	
	2. CompuServ for Windows	
	3. NetFinity for Windows 95	
	4. Puma TranXit™	
	5. IntelliLink Connect	
	6. IBM Anti-Virus	
	7. IBM Global Network with Netscape web browser	
	8. Registration Mailer	
	9. Lotus Organizer	
	10. Lotus SmartSuite 96	
	- Lotus SmartSuite 96 CD-ROM	
	- Recovery CD-ROM with boot diskette	
	- Windows 95 CD-ROM (no installation)	
	Disk is not removable (like 755/760 systems), but it can be upgraded via a dealer or service center (not customer installable).	
	The optional <b>ThinkPad 560 Port Replicator</b> acts as a wedge which attaches to the back and bottom of the unit and provides a keyboard slope. Following are its connectors:	
	- Release button	
	- Security keyhole	
	- Mouse	
	- Keyboard	
	- External monitor	
	- Parallel	
	- Serial (9 pin)	
	- External diskette drive	
	- Power jack	
	<b>FEATURES OF 560E MODELS</b>	
	Quick Setup Guide	
	Plug and Play 1.0a	
	Standby, suspend, safe suspend, and hibernation modes	
	US EPA Energy Star compliant	
	Personalized nameplate indentation	
	Personalization screen at startup	
	<b>International Warranty Service</b>	
	<b>IBM SystemXtra Program</b>	
	<b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b>	
	<b>IBM and dealer warranty/service</b>	
	<b>Online Housecall (remote diagnostics)</b>	

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

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No warranties are expressed or implied in this summary  
(560E) Compiled by Roger Dodson, IBM. December 1997

# IBM ThinkPad® 560X - withdrawn

IBM® ThinkPad®		
Processor type	<b>Pentium® MMX™ 200/66 or 233/66MHz</b> <sup>1</sup> / 64-bit to L2 and memory	New features of 560X (compared to 560E): ⇨ 200 or 233MHz Pentium (vs 150 or 166) ⇨ 32MB memory standard (vs 16MB) ⇨ 96MB maximum memory (vs 80MB) ⇨ CardBus and Zoomed Video PC Cards ⇨ One USB port (vs none) ⇨ Supports Enhanced Port Replicator ⇨ 430TX (vs 430MX) ⇨ MagicGraph128XD (vs CYBER9382) ⇨ 256K simultaneous colors (vs 64K) ⇨ 56 watt AC Adapter (vs 35 watt) ⇨ ConfigSafe and LANDesk preloaded
Processor upgrade	None	
L2 cache	<b>256KB</b> / write-back / direct mapped / 8ns / synchronous pipelined burst	
Diskette drive	External 3.5" 1.44MB (connects to left side) / includes case with a cable	
External FDD port	External FDD port (works with standard external diskette; no kit reqd)	
CD-ROM drive	None (CD-ROM drive as option via PCMCIA or parallel port)	
Price		
Type - model (code)	<b>2640-60U</b>	
Processor	<b>Pentium MMX 200/66MHz</b>	
Preload (see side)	<b>Windows 95 OSR2.1 + IE 4.01</b>	
Avail / withdrawn date	March 1998 / September 1998	<b>WINDOWS 95 PRELOAD</b> <sup>16</sup> - Microsoft® Windows® 95 OSR2 (FAT16) • Online User's Guide • ThinkPad Features Program • SystemSoft CardWorks™ • Diskette Factory and Utilities • Puma TranXit™ • IBM Anti-Virus • IBM Global Network with Netscape web browser • Intelliquest Registration Mailer • Artisoft ConfigSafe • Intel® LANDesk® Client Manager • PointCast (with ThinkPad channel) • Ergonomics • Lotus® SmartSuite 97 • NetFinity for Windows 95 (license only) ⇨ Recovery CD-ROM with boot diskette ⇨ Windows 95 CD-ROM (no installation)
Disk - size / ms	<b>2.1GB</b> <sup>4</sup> / 14ms / SMART	
Disk controller	EIDE / busmaster / PCI 2.1 / Ultra DMA/33 or PIO Mode 4 / supports 1 int disk	
Display - size and type	<b>12.1" HPA SVGA color</b> (dual scan) 640x480 or 800x600	
Display - technology	<b>12.1" TFT SVGA color</b> (active matrix) 640x480 or 800x600	
Graphics - controller	<b>NeoMagic™ MagicGraph128XD™</b> (NM2160A) / 128-bit SVGA accelerator	
Graph - arch/data path	2MB / iDRAM™ (embedded) / PCI 2.1 / Zoomed Video support	
Graphics - features	Interpolation in X and Y axis / color space conversion	
Graphics - features	Simultaneous LCD and CRT / 135 degree tilt	
Graphics - external	External SVGA to 1024x768 with 65,536 colors (or 800x600 with 16.7 mil)	
Memory - std / max	<b>32MB</b> std / 96MB max	
Memory - features	60ns / non-parity / 3.3 volt / EDO	
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64MB	
Keyboard / # of keys	<b>Full size</b> alp/num / 85 keys (6 Fn key functions)	
Keyboard slope	<b>Large palm rest</b> / keyboard remains flat (no sloop) / opt P Replicator adds slope	
Pointing device	TrackPoint® III / no drag lock keys	
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)	
Dimensions	11.7" x 8.7" x 1.22" (124 cubic inches); 297 mm x 222 mm x 31 mm	
Weight <sup>2</sup>	4.17 pounds (1.89 kg)   4.14 pounds (1.88 kg)	
Battery - type / life <sup>10</sup>	Lithium Ion / intelligent / 3.5 hours	
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs	
Architecture	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) / ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)	
Docking Station	<b>Intel 430TX PCiset / PIIX4</b> (EIDE, USB, PCI to ISA bridge) / <b>TI1250A</b>	
Port replicator	ThinkPad 560 Port Replicator / ThinkPad Enhanced Port Replicator	
PC Card Std slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32-bit PCI</b> / Zoomed Video	
Serial / parallel ports	PCMCIA 2.1 compatible / Texas Instruments® TI1250A controller	
USB port	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	<b>One USB port</b> Universal AC Adapter; 3 prong (56 watts) with barrel connector / APM-aware BIOS / APM 1.2 / Selectable boot / IBM BIOS	
Video in/out	None	
MPEG decoder	None (software support for MPEG-1 in Windows 95)	
Data/fax modem	None	
Audio support	<b>16-bit audio chip / FM synthesis / CS4237B / SRS 3D audio</b> (if use ext speakers) Internal mono speaker / .5 watt / rotary volume control / internal microphone	
Jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / not full duplex speakers/mic	
Infrared ports	<b>Infrared port (left side) / IrDA 1.1 compatible / up to 4Mbps</b>	
Security	Power-on password / hard disk password / security keyhole on back / personalization screen at startup	
Limited warranty <sup>11</sup>	<b>1 year</b> - ThinkPad EasyServ (door-to-door depot repair service) or carry-in	
Service options <sup>15</sup>	On-Site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years	
<b>ThinkPad Enhanced Port Replicator</b> provides cable management, additional I/O ports, and CardBus PC Card slots. Features include: - Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator Connectors: - USB - Serial (RS-232, 9 pin), Parallel (25 pin) - External display, Keyboard, Mouse - Audio in and out (3.5 mm) - Joystick/MIDI port (15 pin) - not on system - External diskette drive connector - Power connector Features of the PC Card slots: - Two Type III slots (side by side) - PC Card Standard 95 compliant - CardBus compliant (PCI 2.1 / 32-bit) - 8/16-bit PC Card support (no Zoomed Video)		<b>OPTIONS</b> - 2.1GB disk, 14ms 45H8783 - 4.0GB disk, 13ms 02K0501 - 6.4GB disk, 13ms, Ultra DMA/33 02K0518 - ThinkPad 560 Port Replicator 46H4209 - ThinkPad Enhanced Port Replicator 11J8997 - ThinkPad 560 Li-Ion Battery Pack 46H4206 - 56 watt AC Adapter (barrel; 3 prong) 83H6739 - 8MB SO DIMM 3.3v NP EDO 64-bit 92G7340 - 16MB SO DIMM 3.3v NP EDO 64-bit 92G7341 - 16MB SO DIMM NP EDO 64-bit (new)01K1124 - 32MB SO DIMM 3.3v NP EDO 64-bit 92G7342 - 64MB SO DIMM 3.3v NP EDO 64-bit 76H0268 - 20X-8X Portable CD-ROM 1969010 - 20X-8X Portable Stereo CD-ROM 1969011 - PCMCIA 33.6Kbps modem 25H6420 - PCMCIA 33.6 modem w/ XJACK 55H6759 - 56K PC Card Modem Kit 04K0052 - 56K PC Card Modem/Cellular Capable 02K4196
<b>ThinkPad EasyServ™:</b> customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).		<b>FEATURES</b> <b>Wired for Management 1.1a</b> <b>DMI 2.0 compliant</b> <b>PC 97 compliant</b> Setup Guide, User's Guide, Up and Running Plug and Play 1.0a Standby, suspend, safe suspend, and hibernation modes ENERGY STAR compliant Personalized nameplate indentation <b>International Warranty Service</b> <sup>14</sup> <b>IBM SystemXtra™</b> <b>24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</b> <b>IBM and dealer warranty/service</b>

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# IBM ThinkPad® 560Z - withdrawn

<b>IBM® ThinkPad®</b>		
Processor	<b>Intel® Mobile Pentium® II 233 or 300MHz</b> <sup>1</sup> / 66MHz system bus	
Processor features	No processor upgrade / processor on Mini-Cartridge	
L2 cache	<b>512KB</b> / synchronous pipelined burst / ECC / half speed	
Diskette drive	External 3.5" 1.44MB (connects to left side) / includes case with a cable	
External FDD port	External FDD port (works with standard external diskette; no kit reqd)	
CD-ROM drive	None (CD-ROM drive as option via PCMCIA or parallel port)	
Type - model	<b>2640-90U</b>	<b>2640-91U</b>
Preload (see side)	<b>Windows 98</b>	<b>NT 4.0</b>
Processor	<b>Pentium II 233MHz</b>	<b>Pentium II 300MHz</b>
Disk - size / ms	<b>4.0GB</b> <sup>4</sup> / 13ms / SMART <sup>29</sup>	<b>6.4GB</b> / 13ms / SMART
Disk controller	Disk can be removed and upgraded by customer / Ultra DMA/33 or PIO Mode 4 EIDE / busmaster / PCI 2.1 / supports one internal disk	
Avail / withdrawn date	September 1998 / 90U and 91U withdrawn March 1999; others on June 1999	
Display - size and type	<b>12.1" TFT SVGA color</b> (active matrix)	All models:
	640x480 or 800x600	- C: drive is FAT16 of 2GB
	16.7 million simultaneous colors	- D: drive is FAT32 (if W98) or
Display - technology	100 to 1 contrast ratio	FAT16 (if NT) of remaining space
Graphics - controller	<b>NeoMagic™ MagicGraph128XD™</b> (NM2160) / 128-bit SVGA accelerator	
Graph - arch/data path	<b>2MB</b> / iDRAM™ (embedded) / PCI 2.1 / Zoomed Video support	
Graphics - features	Interpolation in X and Y axis / color space conversion	
Graphics - features	Simultaneous LCD and CRT / 135 degree tilt	
Graphics - external	External SVGA to 1024x768 with 65,536 colors (or 800x600 with 16.7 mil)	
Memory - std / max	<b>32MB</b> std / 96MB or 160MB* max	<b>64MB</b> std / 128MB or 192MB* max
Memory - features	60ns / non-parity / 3.3 volt / EDO	
Memory - upgrade	1 socket for one JEDEC 144-pin EDO SO-DIMM of 16, 32, or 64MB	
Keyboard / # of keys	<b>Full size</b> alp/num keys / 85 keys (6 Fn key functions)	
Keyboard slope	<b>Large palm rest</b> / keyboard remains flat (no sloop) / opt P Replicator adds slope	
Pointing device	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace	
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)	
Dimensions	11.7" x 8.7" x 1.22" (124 cubic inches); 297mm x 222mm x 31mm	
Weight <sup>2</sup> with battery	<b>90U:</b> 4.1 lbs (1.88 kg)	<b>B0U/B1U:</b> 4.2 lbs (1.92 kg)
Battery - type / life <sup>10</sup>	Lithium Ion / intelligent / 3.0 hours	
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs	
Architecture	<b>Intel 440BX PCiset</b> / Intel 82371EB <b>PIIX4E</b> (EIDE, ISA Bridge, USB) / PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) / <b>TI PCI1250A</b> ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)	
Docking Station	None	
Port replicator	Port Replicator with Advanced EtherJet / ThinkPad 560 Port Replicator	
PC Card Std slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32-bit PCI</b> / Zoomed Video PCMCIA 2.1 compatible / Texas Instruments® TI1250A controller	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
USB port	<b>One USB port</b>	
Other features	Universal AC Adapter; 3 prong (56 watts) with barrel connector / APM-aware BIOS / APM 1.2 / Selectable boot / IBM BIOS	
Video in/out	None	
MPEG decoder	None (software support for MPEG-1 in Windows 98)	
Data/fax modem	<b>56Kbps</b> <sup>23</sup> <b>PC Card modem</b> / x2 / cellular capable / XJACK / IBM pn 02K4196	
Audio support	<b>16-bit audio chip / FM synthesis / CS4237B / SRS 3D audio</b> (if use ext speakers)	
Jacks	Internal mono speaker / .5 watt / keyboard volume control / internal microphone	
Infrared ports	Input jack (3.5 mm) / stereo output jack (3.5 mm) / full duplex speakers/mic	
Security	<b>Infrared port (left side) / IrDA 1.1 compatible / up to 4Mbps</b>	
Limited warranty <sup>11</sup>	Power-on password / hard disk password / security keyhole on left side / personalization screen at startup	
Service options <sup>15</sup>	<b>1 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> (door-to-door depot repair service) On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date	
<b>ThinkPad Port Replicator with Advanced EtherJet Feature.</b> Features include:	<b>OPTIONS</b>	<b>FEATURES</b>
- 10/100 ethernet (Intel 82558, Wake on LAN™)	- 6.4GB disk, 13ms, Ultra DMA/33	<b>Wired for Management 1.1a compliant</b>
- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator	- ThinkPad 560 Port Replicator	<b>DMI 2.0 compliant</b>
Connectors:	- Port Replicator w/ Advanced EtherJet™	<b>PC 97 compliant</b>
- USB, serial (RS-232, 9 pin), parallel (25 pin), external display, keyboard, mouse	- ThinkPad 560 Li-Ion Battery Pack	<b>ACPI ready</b> (APM enabled)
- Audio in and out (3.5 mm)	- 56 watt AC Adapter (barrel; 3 prong)	Setup Guide, User's Guide, Windows 98 or NT Manual
- Joystick/MIDI port (15 pin) - not on system	- 16MB SO DIMM 3.3v NP EDO 64-bit	Plug and Play 1.0a
- External diskette drive connector	- 32MB SO DIMM 3.3v NP EDO 64-bit	Standby, suspend, safe suspend, and hibernation modes
- Power connector	- 64MB SO DIMM 3.3v NP EDO 64-bit	ENERGY STAR compliant
Features of the PC Card slots:	- 20X-8X Portable Stereo CD-ROM	Personalized nameplate indentation
- Two Type III slots (side by side)	- 20X-8X Portable Stereo CD-ROM	International Warranty Service <sup>14</sup>
- PC Card Standard 95 compliant	- 56K PC Card Modem/Cellular Capable	IBM SystemXtra®. <sup>35</sup>
- CardBus compliant (PCI 2.1 / 32-bit)	- V.90 PC Card Modem with XJACK <sup>24</sup>	24 hour / 7 day telephone <sup>30</sup> , bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support
- PCMCIA 2.1 support (no Zoomed Video)	- ThinkPad Proven™ solutions <sup>12</sup> (visit www.ibm.com/pc/us/thinkpad/proven)	
- TI 1250A controller		

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\* Maximum memory capacity with 128MB SO DIMM from ThinkPad Proven vendor

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# IBM ThinkPad® 570 - withdrawn

IBM® ThinkPad®		WINDOWS 98 PRELOAD <sup>16</sup>	
Processor	Intel® Mobile Pentium® II 300PE, 333MHz, or 366MHz <sup>1</sup> / 66MHz system bus	- Microsoft® Windows® 98	
Processor features	No upgrade / processor in Ball Grid Array (BGA) / North and South Bridge cores	• ThinkPad Utilities	
L2 cache	256KB / onboard (full speed) / sync pipelined burst / write-back / ECC	• ThinkPad Configuration Program	
Diskette drive	External 3.5" 1.44MB / use externally with std cable or in UltraBase	• ThinkPad on the Net	
CD-ROM	Option: CD-ROM / 24X-10X <sup>5</sup> speed / bootable / removable from UltraBase	• IBM Update Connector	
DVD-ROM	Option: DVD-ROM / bootable / removable from UltraBase	• Online User's Guide	
Type - model	≈ 2644-2AU    ≈ 2644-1AU    ≈ 2644-1BU    2644-3AU    2644-3BU	• Ergonomics	
Processor	PII 300PE    PII 333MHz    PII 333MHz    PII 366MHz    PII 366MHz	• Intelquest Registration	
Display (diagonal)	12.1" TFT    13.3" TFT    13.3" TFT    13.3" TFT    13.3" TFT	• RingCentral	
Preload (see side)	Windows 98    Windows 98    NT 4.0    Windows 98    NT 4.0	• Puma Intellisync 97 (on CD)	
Disk (removable)	4.0GB <sup>4</sup> / 13/14ms	• IBM Global Network Dialer	
Avail / withdr date	PIO4 or Ultra DMA/33 / 9.5mm	• Netscape Communicator	
Memory (std / max)	April 1999 / 2AU withdrawn Dec 99; 1AU, 1BU on Mar 2000; 3AU, 3BU on July 00	• ConfigSafe®	
Display	64MB std / 192MB max	• Norton AntiVirus™ (OEM Version)	
Display - features	SDRAM / non-parity / 66MHz / 3.3v / sockets accessed by removing screw on base	• PC-Doctor	
Graphics - controller	One 144-pin socket / 64MB on planar / 1 socket available	• Universal Management Agent (on CD)	
Graphics - features	12.1" (307.3mm) TFT color / Active Mat	• Norton Mobile Essentials	
Disk controller	13.3" (337.8mm) TFT color / Active Mat	• Lotus® SmartSuite® Millennium <sup>20</sup>	
Keyboard / Fn keys	SVGA / 800x600 / 100 to 1 contrast ratio	• Access ThinkPad	
Keyboard slope	XGA / 1024x768 / 150 to 1 contrast ratio	• Software Selections CD-ROM	
Pointing device	16.7 million simultaneous colors / 30ms refresh rate / 150 degree tilt / 125 nits (AC), 70 nits (battery)	• Recovery CD-ROM (Windows 98)	
Dimensions <sup>36</sup>	NeoMagic™ MagicMedia256AV™ (NM2200) / Accelerated Graphics Port	• Recovery CD-ROM (Windows 95) <sup>7</sup>	
Weight <sup>2</sup>	2.5MB / SGRAM (embedded) / 128-bit engine, 256-bit memory interface	<b>WINDOWS NT PRELOAD<sup>16</sup></b>	
Weight w/ UltraBase	AGP 1X / no sideband signaling / motion compensation / DDC2B / simultaneous LCD and CRT <sup>26</sup> / multiple-monitor support <sup>26</sup> for Windows 98	- Microsoft Windows NT® 4.0	
Case material	Left front / removable via coin screw or 2.5mm Allen wrench / SMART <sup>29</sup> / upgradeable	- Service Pack 4a	
Battery - type	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4E	• ThinkPad Utilities	
Battery - life <sup>10</sup>	DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt UltraBase	• ThinkPad Configuration Program	
Charge time - on/off	Full size 85-key keyboard / 10 Fn key functions / integrated palm rest	• IBM Update Connector	
Architecture	Flat keyboard (does not lift up) / optional Port Replicator adds slope	• Online User's Guide	
Port replicator (opt)	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps	• Ergonomics	
Docking Station	2AU: 11.8 x 9.4 x 1.0" Others: 11.8 x 9.4 x 1.1" (122 cubic inches)	• Intelquest Registration	
PC Card Std slots	2AU: 3.9 lbs (1.78 kg) with battery Others: 4.0 lbs (1.83 kg) with battery	• RingCentral (on CD)	
USB / serial / parallel	with CD-ROM and diskette drives: 2AU: 6.8 lbs (3.07 kg) Others: 6.9 lbs (3.12 kg)	• Puma Intellisync 97 (on CD)	
Other features	Case material	• IBM Global Network Dialer (on CD)	
Video (TV) out	Top: carbon-fiber reinforced plastic; Bottom: glass-fiber reinforced plastic	• Netscape Communicator (on CD)	
MPEG-2/DVD	Lithium Ion / intelligent / remove from base / locked with latch	• ConfigSafe	
Data/fax modem	Battery - life <sup>10</sup>	• Norton AntiVirus (OEM Version)	
Audio support	Charge time - on/off	• PC-Doctor	
Jacks (3.5mm)	3 to 4 hrs / 2.5 to 3 hrs / no non-disruptive battery exchange	• Universal Management Agent (on CD)	
Infrared ports	Architecture	• Access ThinkPad (on CD)	
Security	Intel 440BX AGPset / Intel 82371EB PIIX4E (EIDE, ISA Bridge, USB) / TI® PCI1450 for CardBus / AGP for graphics / ADM1021 digital thermometer / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, modem, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext expansion)	• SystemSoft CardWizard (on CD)	
Limited warranty <sup>11</sup>	Port replicator (opt)	• Software Selections CD-ROM	
Service options <sup>15</sup>	Docking Station	• Recovery CD-ROM (Windows NT)	
	PC Card Std slots	• Lotus SmartSuite Millennium <sup>20</sup> CD	
	USB / serial / parallel	<b>ULTRABASE OPTION</b>	
	Other features	Left bay of UltraBase supports most	
	Video (TV) out	UltraslimBay options:	
	MPEG-2/DVD	• optional CD-ROM (hot or warm swap)	
	Data/fax modem	• optional DVD drive (hot or warm swap)	
	Audio support	• optional LS-120 SuperDisk drive (cold swap only)	
	Jacks (3.5mm)	• optional Zip 100MB drive (cold swap)	
	Infrared ports	• optional HDD adapter; for second disk (cold swap only)	
	Security	• optional ThinkPad Proven™ solutions <sup>12</sup>	
	Limited warranty <sup>11</sup>	UltraBase right bay supports:	
	Service options <sup>15</sup>	• standard diskette drive (hot swap)	
		• battery (uses standard 570 battery)	
		Other features	
		• stereo speakers (0.5 watts)	
		• security keyhole, UltraBase lock	
		• MIDI/joystick port, line out, USB port	
		PC 98 and DMI 2.0 compliant DMI instrumentation (thermal monitoring) ACPI ready (APM enabled) Wired for Management 1.1a compliant Wake on LAN® support <sup>28</sup> Setup Guide, User's Reference, Quick Reference and Service Info Card, Options catalog, Windows manual Plug and Play 1.0a Standby, suspend, safe suspend, and hibernation modes ENERGY STAR compliant Personalized Web-based support International Warranty Service <sup>14</sup> IBM SystemXtra® <sup>35</sup> 24 hour / 7 day <sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support	
		- 32MB SO DIMM 3.3v NP SDRAM    76H0294    - 6.0GB disk, 12ms, ATA-66    05K9199 - 64MB SO DIMM 3.3v NP SDRAM    20L0241    - 6.4GB disk, 13ms, Ultra DMA/33    02K0518 - 128MB SO DIMM 3.3v NP SDRAM    01K1150    - 10.0GB disk, 12ms, Ultra DMA/33    36L9293 - 12.0GB disk, 12ms, ATA-66    05K9200 - 18.0GB disk, 12ms, ATA-66    37L2993 <b>ThinkPad 570 UltraBase</b> 05K5840 - Direct Dock Adapter (from CompuLock)    00N4650 - Port Replicator    46H4209 - Port Replicator w/ Advanced EtherJet    05K4872 - Ultraslim 56 watt AC Adapter (3 prong)    02K6545 - UltraslimBay HDD adapter (for 2nd disk)    05K5336 - SuperDisk LS-120 (UltraslimBay)    20L1929 - 24X-10X <sup>5</sup> CD-ROM (UltraslimBay)    05K9122 - 2X <sup>5</sup> DVD Drive (UltraslimBay)    05K8890 - 6X-2X <sup>5</sup> DVD Drive (UltraslimBay)    05K9169 - Zip 100MB Drive 570/600(UltraslimBay)    37L1507 - ThinkPad 570 Li-Ion Battery    02K6546	
		<b>Color depth</b> <b>LCD</b> <b>External Monitor</b> <b>Resolution</b> <b>TFT</b> <b>60Hz</b> <b>70Hz</b> <b>75Hz</b> <b>85Hz</b> 640x480    16M    16M    --    16M    16M 800x600    16M    16M    --    16M    16M 1024x768*    16M    16M    16M    16M    16M 1280x1024**    256    256    --    --    -- * Virtual screen mode on 12.1" TFT screen ** Virtual screen mode on both 12.1" and 13.3"	
		All models: - C: drive is FAT16 of 2GB - D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space	

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# IBM ThinkPad® 570E - withdrawn

<b>IBM® ThinkPad®</b>		<b>WINDOWS 98 PRELOAD<sup>16</sup></b>																																							
Processor	<b>Intel® Mobile Pentium® III 450 or 500MHz<sup>1</sup> with 100MHz system bus</b>																																								
Processor features	No upgrade / processor in Ball Grid Array (BGA) / North and South Bridge cores																																								
L2 cache	<b>256KB / onboard (at processor speed)</b> / sync pipelined burst / write-back / ECC																																								
Diskette drive	External 3.5" 1.44MB / use externally with std cable or in UltraBase																																								
CD-ROM	Option: <b>CD-ROM / 24X-10X<sup>5</sup> speed</b> / bootable / removable from UltraBase																																								
DVD-ROM	Option: <b>6X-2X<sup>5</sup> DVD-ROM</b> / bootable / removable from UltraBase																																								
Type - model	< 2644-5AU	< 2644-5BU	< 2644-6AU	< 2644-6BU																																					
Processor	<b>Pentium III 450</b>	<b>Pentium III 450</b>	<b>Pentium III 500</b>	<b>Pentium III 500</b>																																					
Preload (see side)	<b>Windows 98 SE</b>	<b>Windows 2000</b>	<b>Windows 98 SE</b>	<b>Windows 2000</b>																																					
Disk (removable)	<b>6.0GB<sup>4</sup></b>	<b>6.0GB</b>	<b>12.0GB</b>	<b>12.0GB</b>																																					
Avail / withdrawn date	February 2000 / 5AU and 5BU on July 2000, 6AU and 6BU on February 2001																																								
Memory (std / max)	<b>64MB</b> std / 320MB max <b>SDRAM</b> / non-parity / 100MHz / 3.3v / sockets accessed by removing screw on base One 144-pin socket / 64MB on planar / 1 socket available																																								
Display	<b>13.3"</b> (337.8mm) <b>TFT color / Active Matrix</b> <b>XGA / 1024x768</b> / 150 to 1 contrast ratio																																								
Display - features	16.7 million simultaneous colors / 30ms refresh rate / 150 degree tilt / 125 nits (AC), 70 nits (battery)																																								
Graphics - controller	<b>NeoMagic™ MagicMedia256AV™</b> (NM2200) / <b>Accelerated Graphics Port 2.5MB</b> / SGRAM (embedded) / 128-bit engine, 256-bit memory interface																																								
Graphics - features	AGP 1X / no sideband signaling / <b>motion compensation</b> / DDC2B / simultaneous LCD and CRT <sup>26</sup> / multiple-monitor support <sup>26</sup> for Windows 98																																								
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART <sup>29</sup> / upgradeable																																								
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4M / DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt UltraBase																																								
Keyboard / Fn keys	Full size 85-key keyboard / 10 Fn key functions / integrated palm rest																																								
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope																																								
Pointing device	<b>TrackPoint®</b> / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps																																								
Dimensions <sup>36</sup>	11.8 x 9.4 x 1.1" (122 cubic inches)																																								
Weight <sup>2</sup>	3.97 lbs (1.80 kg) with battery																																								
Weight	with optional UltraBase CD-ROM and diskette drives: 6.9 lbs (3.12 kg)																																								
Case material	<i>Top:</i> carbon-fiber reinforced plastic; <i>Bottom:</i> glass-fiber reinforced plastic																																								
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch																																								
Battery - life <sup>10</sup>	3.0 hrs / supports 2nd battery in UltraBase																																								
Charge time - on/off	3 to 4 hrs / 2.5 to 3 hrs / no non-disruptive battery exchange																																								
Architecture	<b>Intel 440BX AGPset</b> / Intel 82371EB <b>PIIX4M</b> (EIDE, ISA Bridge, USB) / TI® PCI1450 for CardBus / AGP for graphics / ADM1021 digital thermometer / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, modem, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext expansion)																																								
Port replicator (opt)	<b>UltraBase</b> / the following are supported by attachment to UltraBase or Direct Dock Adapter: ThinkPad Port Repl with Advanced EtherJet and Port Replicator																																								
Docking Station	None (UltraBase has two bays)																																								
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video																																								
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)																																								
Other features	Ultraslim 56 watt AC Adapter, barrel, 3 prong / IBM BIOS Setup Utility (hit F1 at boot)																																								
Video (TV) out	None																																								
MPEG-2/DVD	Software supported DVD movie playback (via UltraBase and UltraslimBay DVD)																																								
Data/fax modem	<b>56K<sup>22</sup></b> / V.90 / 14.4K fax / RJ-11 port / voice-capable / integrated Lucent® 1646 / international programmable DAA / Mini PCI Type IIIb																																								
Audio support	CS4280 / PCI / FM synthesis / 16-bit playback and record / CS4297 (AC97) / full duplex / int speaker (bottom) / .5 watt / Fn+PgUp and PgDn (volume) / int mic																																								
Jacks (3.5mm)	Microphone jack (stereo) / headphone jack (stereo) / line-in jack (stereo)																																								
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps																																								
Security	Power-on password / hard disk password / supervisor passwrd / security keyhole / Phillips-head screw on base for memory / optional Allen screw for disk																																								
Limited warranty <sup>11</sup>	<b>3 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround)																																								
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date																																								
<ul style="list-style-type: none"> <li>- 6.0GB disk, 12ms, ATA-66      05K9199</li> <li>- 12.0GB disk, 12ms, ATA-66    05K9200</li> <li>- 18.0GB disk (UltraBase only) 37L2993</li> </ul>		<ul style="list-style-type: none"> <li>- 32MB SO DIMM 100MHz NP SDRAM    20L0253</li> <li>- 64MB SO DIMM 100MHz NP SDRAM    20L0254</li> <li>- 128MB SO DIMM 100MHzNP SDRAM    20L0255</li> <li>- 256MB SO DIMM 100MHzNP SDRAM    33L3069</li> <li>- <b>ThinkPad 570 UltraBase</b>            <b>05K5840</b></li> <li>- Direct Dock Adapter (from CompuLock) 00N4650</li> <li>- Port Replicator                        46H4209</li> <li>- Port Replicator w/ Advanced EtherJet 05K4872</li> <li>- Ultraslim 56 watt AC Adapter (3 prong) 02K6545</li> <li>- UltraslimBay HDD adapter (for 2nd disk) 05K5336</li> <li>- SuperDisk LS-120 (UltraslimBay)    20L1929</li> <li>- 24X-10X<sup>5</sup> CD-ROM (UltraslimBay)    05K9122</li> <li>- 6X-2X<sup>5</sup> DVD Drive (UltraslimBay)    05K9169</li> <li>- Zip 100MB Drive 570/600(UltraslimBay) 37L1507</li> <li>- ThinkPad 570 Li-Ion Battery            02K6546</li> <li>- ThinkPad 570 Battery Charger        02K6570</li> <li>- IBM 340MB microdrive                00N8073</li> </ul>																																							
<table border="1"> <thead> <tr> <th>Color depth</th> <th>LCD</th> <th colspan="4">External Monitor</th> </tr> <tr> <th>Resolution</th> <th>TFT</th> <th>60Hz</th> <th>70Hz</th> <th>75Hz</th> <th>85Hz</th> </tr> </thead> <tbody> <tr> <td>640x480</td> <td>16M</td> <td>16M</td> <td>--</td> <td>16M</td> <td>16M</td> </tr> <tr> <td>800x600</td> <td>16M</td> <td>16M</td> <td>--</td> <td>16M</td> <td>16M</td> </tr> <tr> <td>1024x768</td> <td>16M</td> <td>16M</td> <td>16M</td> <td>16M</td> <td>16M</td> </tr> <tr> <td>1280x1024*</td> <td>256</td> <td>256</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		Color depth	LCD	External Monitor				Resolution	TFT	60Hz	70Hz	75Hz	85Hz	640x480	16M	16M	--	16M	16M	800x600	16M	16M	--	16M	16M	1024x768	16M	16M	16M	16M	16M	1280x1024*	256	256	--	--	--	<p>PC 98 and DMI 2.0 compliant DMI instrumentation ACPI ready (APM enabled) Wired for Management 1.1a compliant Wake on LAN<sup>28</sup> support<sup>28</sup> Setup Guide, User's Reference, Quick Reference and Service Info Card, Options catalog, Windows manual Plug and Play 1.0a Standby, suspend, safe suspend, and hibernation modes ENERGY STAR compliant Personalized Web-based support International Warranty Service<sup>14</sup> IBM SystemXtra<sup>35</sup> 24 hour / 7 day<sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</p>			
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800x600	16M	16M	--	16M	16M																																				
1024x768	16M	16M	16M	16M	16M																																				
1280x1024*	256	256	--	--	--																																				
<ul style="list-style-type: none"> <li>* Virtual screen mode on 13.3" TFT screen</li> </ul>		<ul style="list-style-type: none"> <li>Windows 98 models:</li> <li>- C: drive is FAT16 of 2GB</li> <li>- D: drive is FAT32 of remaining space</li> <li>Windows 2000 models:</li> <li>- C: drive is FAT32 of entire drive</li> </ul>																																							

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# IBM ThinkPad® 600 - withdrawn

<b>IBM® ThinkPad®</b>		The right bay (UltraslimBay) has LED on release latch to provide status; supports warm swapping:	
Processor type/path	<b>Intel® Pentium® MMX™ 233/66MHz<sup>1</sup> or Pentium II 233/66 or 266/66MHz</b>		
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module		
L2 cache	<b>512KB</b> / sync pipelined burst (66MHz for Pentium / ECC and half speed for Pent II)		
Diskette (removable)	3.5" 1.44MB / use in UltraslimBay (CD-ROM models include external diskette enclosure)		
External FDD port	External diskette port on right side (can use simultaneously with internal CD-ROM)		
CD-ROM (removable)	<i>Standard or option:</i> <b>5.25" CD-ROM / 24X-10X<sup>5</sup> speed</b> / bootable / warm swap		
DVD <sup>19</sup> (removable)	<i>Option:</i> 2X <sup>5</sup> DVD-ROM drive / removable UltraslimBay option / warm swap		
SuperDisk (LS-120)	<i>Option:</i> Removable UltraslimBay option / supports 1.44MB and 120MB diskette		
Type - model	>= <b>2645-21U</b>	>= <b>2645-31U</b>	>= <b>2645-35U</b>
Processor	<b>Pent 233/66</b>	<b>Pent 233/66</b>	<b>Pent 233/66MHz</b>
Display (diagonal)	<b>13.0" HPA XGA</b>	<b>12.1 TFT SVGA</b>	<b>12.1 TFT SVGA</b>
Disk (removable)	<b>3.2GB<sup>4</sup> / PIO4</b>	<b>3.2GB / PIO4</b>	<b>3.2GB / PIO4</b>
Preload (see side)	<b>W95 OSR2.1</b>	<b>W95 OSR2.1</b>	<b>W95 OSR2.1</b>
CD-ROM	<b>CD-ROM std</b>	Optional	<b>CD-ROM std</b>
Modem	<b>56Kbps</b>	Opt PC Card	<b>56Kbps</b>
Avail / withdr date	Apr 98/Dec 98	Apr 98/Dec 98	Apr 98/Mar 99
Memory - std / max	<b>32MB</b> / 256MB <sup>3</sup> (TX max=256)		
Memory - upgrade	<b>SDRAM</b> / non-parity / 66MHz / 3.3v / 2 sockets available for two JEDEC 144-pin SDRAM SO-DIMMs / sockets accessed by removing screw on bottom		
Display	(See below) SVGA or XGA color / TFT or HPA / 180 degree tilt		
Graphics - controller	<b>NeoMagic™ MagicGraph128XD™</b> (NM2160B) / 128-bit SVGA accelerator		
Graphics - arch	<b>2MB</b> / iDRAM™ (embedded) / Zoomed Video support		
Graphics - features	Support for DirectX 5.0, DDC2B, color space conversion		
Graphics - external	External SVGA to 1024x768 with 65,536 colors (800x600 with 16.7 million colors)		
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART / upgradeable		
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4 DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter		
Keyboard / Fn keys	Full size alp/num keys / 9 Fn key functions / integrated palm rest		
Keyboard slope	Flat keyboard (does not lift up)		
Pointing device	<b>TrackPoint®</b> / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps		
Dimensions <sup>36</sup>	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm		
Weight <sup>2</sup>	4.72 lb (2.14 kg) to 5.62 lb (2.55 kg)		
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch		
Battery - life <sup>10</sup>	3.0 hrs / no non-disruptive battery exchange		
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs		
Architecture	<b>Intel 430TX, PIIX4</b> for Pentium systems / <b>Intel 440BX, PIIX4</b> for Pent II systems PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, CardBus, USB, ext expansion) TI PCI1250A for CardBus / LM75 digital thermometer / PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext expansion)		
Port replicator	<b>SelectaBase 600</b> / PC Card Enabler <sup>17</sup> / PC Card Enabler with Advanced EtherJet <sup>17</sup>		
Docking Station	<b>SelectaDock III</b> / SelectaDock I and II		
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video		
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot		
Video in/out	None		
MPEG decoder	None (software support for MPEG-1 in Windows 95)		
Data/fax modem	<i>Some models:</i> 56Kbps (x2, upgradeable to v.90 <sup>9</sup> ) / 14.4Kbps fax / voice-capable / integrated Mwave® 3780i DSP / international programmable DAA / modem cable		
Audio support	CS4237B / 16-bit / <b>SRS 3D audio</b> / FM synthesis Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone		
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex		
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / <b>up to 4Mbps</b>		
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk		
Limited warranty <sup>11</sup>	<b>3 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround)		
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date		
<b>13.0" (330.2 mm) HPA XGA color</b>	- 6.4GB disk, 13ms, Ultra DMA/33	02K0518	
- High Performance Addressing (Dual Scan)	- 10GB disk, 12ms, Ultra DMA/33	36L9293	
- 640x480 (16 million), 800x600 (16 million), or 1024x768 (65,536 simultaneous colors)	- <b>SelectaBase 600</b>	<b>12J2467</b>	
- 150ms; 40 to 1 contrast ratio	- PC Card Enabler <sup>17</sup>	83H6741	
- 70 nits (AC), 40 nits (battery)	- PC Card Enabler with EtherJet™ <sup>17</sup>	05K4820	
<b>12.1" (307.5 mm) TFT SVGA color</b>	- SelectaDock I	3547001	
- Active Matrix TFT	- SelectaDock II	3547002	
- 640x480 (16 million) or 800x600 (16 million simultaneous colors)	- <b>SelectaDock III</b> <sup>17</sup>	<b>3547003</b>	
- 75ms; 100 to 1 contrast ratio	- 56 watt AC Adapter (barrel; 3 prong)	83H6739	
- 110 nits (AC), 70 nits (battery)	- <b>24X-10X CD-ROM</b> (UltraslimBay; includes external diskette enclosure)	12J2471	
<b>13.3" (337.8 mm) TFT XGA color</b>	- <b>16MB SO DIMM 3.3v NP SDRAM</b>	<b>76H0293</b>	
- Active Matrix TFT	- <b>32MB SO DIMM 3.3v NP SDRAM</b>	<b>76H0294</b>	
- 640x480 (16 million), 800x600 (16 million), or 1024x768 (65,536 simultaneous colors)	- <b>64MB SO DIMM 3.3v NP SDRAM</b>	<b>76H0295</b>	
- 75ms; 100 to 1 contrast ratio	- ThinkPad 600 Li-Ion Battery	12J2464	
- 150 nits (AC), 90 nits (battery)	- UltraslimBay HDD adapter (for 2nd disk)	05K5336	
	- SuperDisk LS-120 (UltraslimBay)	20L1929	
	- 2X DVD Drive (UltraslimBay)	05K8890	
	- Zip 100MB UltraslimBay Drive	37L1504	
			<b>WINDOWS 95 PRELOAD<sup>16</sup></b>
			- Microsoft® Windows® 95 OSR2.1
			• Internet Explorer 4.01
			• Online User's Guide
			• ThinkPad Configuration Program
			• ThinkPad Customization Center
			• Puma IntelliSync 97 (infrared)
			• IBM AntiVirus 3.02 (not installed)
			• ConfigSafe 1.05 (must install)
			• IBM Global Network Dialer 4.15.6 with Netscape Navigator web browser
			• Intel LANdesk® Client Manager 3.1 (not installed)
			• PointCast with ThinkPad channel
			• Ergonomics
			• Netfinity 5.1 for Windows 95 (not installed)
			• Tivoli Light Client Framework (not installed)
			• Lotus® SmartSuite 97 <sup>20</sup>
			• Ring Zero RingCentral 4.10
			• Intel Video Phone 2.0.1
			• IBM Update Connector
			• IBM Product Registration
			◇ Customization CD-ROM (apps/drivers)
			◇ Recovery CD-ROM with boot diskette
			System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.
			ThinkPad 600 supported disks:
			- <b>3.2GB</b> 13ms read/14ms write
			9.5 mm PIO Mode 4 or Ultra DMA/33
			- <b>4.0GB</b> 13ms read/14ms write
			12.5 mm PIO Mode 4 or Ultra DMA/33
			- <b>6.4GB</b> 13ms read/14ms write
			12.5 mm PIO Mode 4 or Ultra DMA/33
			<b>FEATURES</b>
			<b>PC 97 compliant</b>
			<b>DMI 2.0 compliant</b>
			DMI instrumentation (thermal monitoring)
			<b>ACPI 1.0 compliant</b>
			<b>Wired for Management 1.1a</b>
			<b>Wake on LAN™ support<sup>28</sup></b>
			C: is 1.99GB, D: is up to 1.99GB, etc.
			Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 95 manual
			Plug and Play 1.0a
			Standby, suspend, safe suspend, and hibernation modes
			ENERGY STAR compliant
			International Warranty Service <sup>14</sup>
			<b>IBM SystemXtra™<sup>35</sup></b>
			24 hour / 7 day telephone <sup>30</sup> , bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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 Ⓞ = Announced August 18, 1998

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# IBM ThinkPad® 600 - September 1998 - withdrawn

<b>IBM® ThinkPad®</b>		<b>WINDOWS 98 PRELOAD<sup>16</sup></b>	
Processor type/path	Intel® Mobile Pentium® II 300MHz <sup>1</sup> / 66MHz system bus	<ul style="list-style-type: none"> <li>- Microsoft® Windows® 98</li> <li>• Online User's Guide</li> <li>• ThinkPad Utilities</li> <li>• ThinkPad Configuration Program</li> <li>• RingCentral</li> <li>• Ergonomics</li> <li>• IBM Product Registration</li> <li>• Puma IntelliSync 97 (infrared)</li> <li>• IBM Global Network Dialer</li> <li>• Netscape Navigator web browser</li> <li>• IBM Update Connector</li> <li>• Artisoft ConfigSafe</li> <li>• Norton AntiVirus</li> <li>◇ Lotus® SmartSuite Millennium CD-ROM</li> <li>◇ Customization Center CD-ROM</li> <li>◇ Product Recovery CD-ROM (with boot diskette)</li> </ul>	
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module		
L2 cache	512KB / sync pipelined burst / ECC / 150MHz (half speed)		
Diskette (removable)	3.5" 1.44MB / use in UltralimBay / ships in external diskette enclosure with a cable		
External FDD port	External diskette port on right side (can use simultaneously with internal CD-ROM)		
CD-ROM (removable)	5.25" CD-ROM / 24X-10X <sup>5</sup> speed / bootable / warm swap		
DVD <sup>19</sup> (removable)	Option: 2X <sup>5</sup> DVD-ROM drive / removable UltralimBay option / warm swap		
SuperDisk (LS-120)	Option: Removable UltralimBay option / supports 1.44MB and 120MB diskette		
Type - model	2645-45U   2645-85U   All models:		
Preload (see side)	Windows 98   Windows NT 4.0   - C: drive is FAT16 of 2GB		
Disk (removable)	5.1GB <sup>4</sup> / 12ms (read); 13ms (write) / upgradeable	- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space	
Avail / withdr date	September 1998 / June 1999		
Memory	64MB std / 288MB <sup>25</sup> maximum / SDRAM / non-parity / 66MHz / 3.3v Two 144-pin sockets / 32MB on planar and 1 socket used by 32MB SO-DIMM / 1 socket available / sockets accessed by removing screw on bottom		
Display	13.3" (337.8mm) TFT color / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio / 640x480 or 800x600 (16.7 million colors), 1024x768 (65,536 colors) / 150 nits (AC), 90 nits (battery) / 180 degree tilt		
Graphics - controller	NeoMagic™ MagicGraph128XD™ (NM2160B) / 128-bit SVGA accelerator	<b>WINDOWS NT PRELOAD<sup>16</sup></b>	
Graphics - arch	2MB / iDRAM™ (embedded) / Zoomed Video support	<ul style="list-style-type: none"> <li>- Windows NT® Workstation 4.0</li> <li>• Online User's Guide</li> <li>• ThinkPad Utilities</li> <li>• ThinkPad Configuration Program</li> <li>• Puma IntelliSync 97 (infrared)</li> <li>• ConfigSafe</li> <li>• IBM Global Network Dialer</li> <li>• Netscape Navigator web browser</li> <li>• Norton AntiVirus (OEM Version)</li> <li>• Ergonomics</li> <li>• IBM Product Registration</li> <li>• SystemSoft CardWizard</li> <li>◇ Lotus SmartSuite Millennium CD-ROM</li> <li>◇ Customization CD-ROM (apps/drivers)</li> <li>◇ Product Recovery CD-ROM (with boot diskette)</li> </ul>	
Graphics - features	Support for DirectX 5.0, DDC2B, color space conversion		
Graphics - external	External SVGA to 1024x768 with 65,536 colors (800x600 with 16.7 million colors)		
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART / upgradeable		
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4 DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk inopt HDD adapter		
Keyboard / Fn keys	Full size alp/num keys / 9 Fn key functions / integrated palm rest		
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope		
Pointing device	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps		
Dimensions <sup>36</sup>	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm		
Weight <sup>2</sup>	5.01 lbs (2.27 kg) with travel cover and battery only		
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch	<p>System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.</p> <p>ThinkPad 600 supported disks:</p> <ul style="list-style-type: none"> <li>- <b>3.2GB</b> 13ms read/14ms write 9.5 mm PIO Mode 4 or Ultra DMA/33</li> <li>- <b>4.0GB</b> 13ms read/14ms write 12.5 mm PIO Mode 4 or Ultra DMA/33</li> <li>- <b>5.1GB</b> 12ms read/13ms write 12.5 mm PIO Mode 4 or Ultra DMA/33</li> <li>- <b>6.4GB</b> 13ms read/14ms write 12.5 mm PIO Mode 4 or Ultra DMA/33</li> </ul>	
Battery - life <sup>10</sup>	3.0 hrs / no non-disruptive battery exchange		
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs		
Architecture	Intel 440BX and PIIX4 (EIDE, ISA Bridge, USB) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, CardBus, USB, ext expansion) TI PCI1250A for CardBus / LM75 digital thermometer / PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext expansion)		
Port replicator	SelectaBase 600 / PC Card Enabler <sup>17</sup> / PC Card Enabler with Advanced EtherJet <sup>17</sup>		
Docking Station	SelectaDock III / SelectaDock I and II		
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video		
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot		
Video in/out	None		
MPEG decoder	None (software support for MPEG-1 in Windows 98)		
Data/fax modem	56K (x2, upgradeable to v.90 <sup>9</sup> ) / 14.4Kbps fax / telephony / voice-capable integrated Mwave® 3780i DSP / international programmable DAA / modem cable		
Audio support	CS4237B / 16-bit / SRS 3D audio / FM synthesis Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex		
Jacks	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps		
Infrared ports			
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk		
Limited warranty <sup>11</sup>	3 year - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround)	<b>FEATURES</b>	
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / service agreements up to 5 years from purchase date	<b>Wired for Management 1.1a</b>	
		<b>PC 97 compliant</b>	
		<b>DMI 2.0 compliant</b>	
		DMI instrumentation (thermal monitoring)	
		<b>ACPI ready</b> (APM enabled)	
		<b>Wake on LAN® support<sup>28</sup></b>	
		C: is 1.99GB, D: is up to 1.99GB, etc.	
		Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 or NT manual	
		Plug and Play 1.0a	
		Standby, suspend, safe suspend, and hibernation modes	
		ENERGY STAR compliant	
		International Warranty Service <sup>14</sup>	
		<b>IBM SystemXtra®<sup>35</sup></b>	
		24 hour / 7 day telephone <sup>30</sup> , bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support	
		- 56K PC Card Modem Kit	04K0052
		- 56K PC Card Modem/Cellular capab	02K4196
		- V.90 PC Card Modem with XJACK <sup>24</sup>	10L7393
		- EtherJet PC Card Combo	72H4534
		- IBM 10/100 EtherJet CardBus PC Cd	08L3147
		- UltralimBay HDD adapter (for 2nd disk)	05K5336
		- SuperDisk LS-120 (UltralimBay)	20L1929
		- 2X DVD Drive (UltralimBay)	05K8890
		- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
		- 10GB disk, 12ms, Ultra DMA/33	36L9293
		- SelectaBase 600	12J2467
		- PC Card Enabler <sup>17</sup>	83H6741
		- PC Card Enabler with EtherJet™ <sup>17</sup>	05K4820
		- SelectaDock I	3547001
		- SelectaDock II	3547002
		- SelectaDock III <sup>17</sup>	3547003
		- 56 watt AC Adapter (barrel; 3 prong)	83H6739
		- 24X-10X CD-ROM (UltralimBay; includes external diskette enclosure)	12J2471
		- 16MB SO DIMM 3.3v NP SDRAM	76H0293
		- 32MB SO DIMM 3.3v NP SDRAM	76H0294
		- 64MB SO DIMM 3.3v NP SDRAM	76H0295
		- 64MB SO DIMM 3.3v NP SDRAM	20L0241
		- 128MB SO DIMM 3.3v NP SDRAM	01K1150
		- ThinkPad 600 Li-Ion Battery	12J2464
		- External Battery Charger	02K6499
		- Zip 100MB UltralimBay Drive	37L1504
	The right bay (UltralimBay) has LED on release latch to provide status; supports warm swapping:		
	• std diskette and weight-saver bezel		
	• std or optional CD-ROM		
	• optional DVD drive <sup>19</sup>		
	• optional Zip 100MB drive (cold swap)		
	• opt LS-120 SuperDisk drive (cold swap)		
	• opt HDD adapter; second disk (cold swap)		
	• optional ThinkPad Proven™ solutions <sup>12</sup>		

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# IBM ThinkPad® 600E - withdrawn

<b>IBM® ThinkPad®</b>		<b>WINDOWS 98 PRELOAD<sup>16</sup></b>																	
Processor	<b>Intel® Mobile Pentium® II 300MHz<sup>1</sup></b> / 66MHz system bus																		
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module																		
L2 cache	<b>512KB</b> / sync pipelined burst / ECC / 150MHz (half speed)																		
Diskette (removable)	3.5" 1.44MB / use in <b>UltraslimBay™</b> / ships in external diskette enclosure with a cable																		
External FDD port	External diskette port on right side (can use simultaneously with internal DVD)																		
CD-ROM (removable)	Option: <b>CD-ROM / 24X-10X<sup>5</sup> speed</b> / bootable / warm swap																		
DVD (removable)	EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in <b>UltraslimBay</b>																		
SuperDisk (LS-120)	Std or option: <b>2X<sup>5</sup> DVD-ROM</b> / removable from <b>UltraslimBay</b> / warm swap																		
Type - model	<b>2645-55U</b>	<b>2645-A5U (AAP)</b>	All models:																
Preload (see side)	<b>Windows 98</b>	<b>Blank</b> (no disk)	- C: drive is FAT16 of 2GB																
Disk (removable)	<b>6.4GB<sup>4</sup></b> / 13/14ms	<b>None</b>	- D: drive is FAT32 of remaining space																
DVD-ROM drive	<b>DVD-ROM</b>	<b>None</b>																	
Avail / withdr date	Nov 1998 / Mar 1999	Nov 1998 / Mar 1999																	
Memory	<b>64MB</b> std / 288MB <sup>25</sup> max <b>32MB</b> std / 288MB max																		
	<b>SDRAM</b> / non-parity / 66MHz / 3.3v / sockets accessed by removing screw on base																		
	Two 144-pin sockets / 32MB on planar / 1 or 2 sockets available / for 64MB model, one socket used by 32MB SO-DIMM																		
Display	<b>13.3"</b> (337.8mm) <b>TFT color</b> / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio / 640x480, 800x600, or 1024x768 (up to 16.7 million colors) / 150 nits (AC), 90 nits (battery) / 180 degree tilt																		
Graphics - controller	<b>NeoMagic™ MagicMedia256AV™</b> (NM2200) / <b>Accelerated Graphics Port 2.5MB</b> / SGRAM (embedded) / 128-bit engine, 256-bit memory interface / AGP-1x																		
Graphics - features	<b>Motion compensation</b> / color space conversion / interpolation in X and Y axis																		
Graphics - external	Multiple-monitor support <sup>26</sup> for Windows 98 / DDC2B / Direct3D																		
Disk	External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors																		
Disk controller	Left front / removable via coin screw or 2.5mm Allen wrench / SMART / upgradeable																		
Keyboard / Fn keys	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4E																		
Keyboard slope	DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter																		
Pointing device	Full size alp/num keys / 10 Fn key functions / integrated palm rest																		
Dimensions <sup>36</sup>	Flat keyboard (does not lift up) / optional Port Replicator adds slope																		
Weight <sup>2</sup>	<b>TrackPoint®</b> / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps																		
Battery - type	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm																		
Battery - life <sup>10</sup>	4.99 lbs (2.27 kg) with travel cover and battery only																		
Charge time - on / off	Lithium Ion / intelligent / remove from base / locked with latch																		
Architecture	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in <b>UltraslimBay</b>																		
Port replicator	2 to 3 hrs / 1.5 to 2.5 hrs																		
Docking Station	Intel <b>440BX AGPset</b> / Intel 82371EB <b>PIIX4E</b> (EIDE, ISA Bridge, USB) /																		
PC Card Std slots	TI® PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer																		
USB / serial / parallel	PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion)																		
Other features	PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)																		
Video out	<b>SelectaBase 600</b> / PC Card Enabler <sup>17</sup> / PC Card Enabler with Advanced EtherJet <sup>17</sup>																		
MPEG decoder	<b>SelectaDock III</b> / SelectaDock I and II																		
Data/fax modem	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video																		
Audio support	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)																		
Jacks	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot																		
Infrared ports	Video out (composite) / cable ships standard with RCA jack / Chrontel CH7004																		
Security	None (W98 support for MPEG-2 because 300MHz with motion compensation)																		
Limited warranty <sup>11</sup>	<b>56K</b> / v.90 <sup>22</sup> / 14.4Kbps fax / telephony / voice-capable /																		
Service options <sup>15</sup>	integrated Mwave <sup>®</sup> 3780i DSP / international programmable DAA / modem cable																		
	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record																		
	CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX																		
	Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone																		
	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex																		
	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps																		
	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk																		
	<b>3 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround)																		
	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date																		
	- 56K PC Card Modem Kit	04K0052	- 6.4GB disk, 13ms, Ultra DMA/33																
	- 56K PC Card Modem/Cellular capab	02K4196	- 10GB disk, 12ms, Ultra DMA/33																
	- V.90 PC Card Modem with XJACK <sup>24</sup>	10L7393	- <b>SelectaBase 600</b>																
	- 10/100 EtherJet CardBus with 56K modem	08L3167	- PC Card Enabler <sup>17</sup>																
	- IBM 10/100 EtherJet CardBus PC Cd	08L3147	- PC Card Enabler with EtherJet™ <sup>17</sup>																
	- UltraslimBay HDD adapter (for 2nd disk)	05K5336	- SelectaDock I																
	- SuperDisk LS-120 (UltraslimBay)	20L1929	- SelectaDock II																
	- 2X DVD Drive (UltraslimBay)	05K8890	- <b>SelectaDock III<sup>17</sup></b>																
	- Zip 100MB UltraslimBay Drive	37L1504	- 56 watt AC Adapter (barrel; 3 prong)																
	- UltraslimBay Battery (600E only)	02K6504	- <b>24X-10X CD-ROM</b> (UltraslimBay; includes external diskette enclosure)																
	- ThinkPad 600 Li-Ion Battery	12J2464	- <b>32MB SO DIMM 3.3v NP SDRAM</b>																
	- External Battery Charger	02K6499	- <b>64MB SO DIMM 3.3v NP SDRAM</b>																
			- <b>128MB SO DIMM 3.3v NP SDRAM</b>																
			<b>02K0518</b>																
			<b>36L9293</b>																
			<b>12J2467</b>																
			<b>83H6741</b>																
			<b>05K4820</b>																
			<b>3547001</b>																
			<b>3547002</b>																
			<b>3547003</b>																
			<b>83H6739</b>																
			<b>12J2471</b>																
			<b>76H0294</b>																
			<b>20L0241</b>																
			<b>01K1150</b>																
	- ThinkPad Proven™ solutions <sup>12</sup> (visit <a href="http://www.ibm.com/pc/us/thinkpad/proven">www.ibm.com/pc/us/thinkpad/proven</a> )																		
<p>The right bay (UltraslimBay) has LED on release latch to provide status; supports warm swapping:</p> <ul style="list-style-type: none"> <li>• std diskette and travel cover</li> <li>• std or optional CD-ROM</li> <li>• optional DVD drive<sup>19</sup></li> <li>• optional UltraslimBay battery (cold swap only; 600E only)</li> <li>• optional LS-120 SuperDisk drive (cold swap only)</li> <li>• optional Zip 100MB drive (cold swap)</li> <li>• optional HDD adapter; for second disk (cold swap only)</li> <li>• optional ThinkPad Proven™ solutions<sup>12</sup></li> </ul> <p>System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.</p> <p>ThinkPad 600 supported disks:</p> <table border="0"> <tr> <td>- <b>3.2GB</b></td> <td>13ms read/14ms write</td> </tr> <tr> <td>9.5 mm</td> <td>PIO Mode 4 or Ultra DMA/33</td> </tr> <tr> <td>- <b>4.0GB</b></td> <td>13ms read/14ms write</td> </tr> <tr> <td>12.5 mm</td> <td>PIO Mode 4 or Ultra DMA/33</td> </tr> <tr> <td>- <b>5.1GB</b></td> <td>12ms read/13ms write</td> </tr> <tr> <td>12.5 mm</td> <td>PIO Mode 4 or Ultra DMA/33</td> </tr> <tr> <td>- <b>6.4GB</b></td> <td>13ms read/14ms write</td> </tr> <tr> <td>12.5 mm</td> <td>PIO Mode 4 or Ultra DMA/33</td> </tr> </table> <p><b>FEATURES</b></p> <p><b>PC 97 compliant</b>  <b>DMI 2.0 compliant</b>          DMI instrumentation (thermal monitoring)  <b>ACPI ready</b> (APM enabled)  <b>Wired for Management 1.1a</b>  <b>Wake on LAN™ support<sup>28</sup></b>          Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 manual          Plug and Play 1.0a          Standby, suspend, safe suspend, and hibernation modes  <b>ENERGY STAR compliant</b>          International Warranty Service<sup>14</sup>  <b>IBM SystemXtra™<sup>35</sup></b>          24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (<a href="http://www.ibm.com/pc/us">www.ibm.com/pc/us</a>) support</p>				- <b>3.2GB</b>	13ms read/14ms write	9.5 mm	PIO Mode 4 or Ultra DMA/33	- <b>4.0GB</b>	13ms read/14ms write	12.5 mm	PIO Mode 4 or Ultra DMA/33	- <b>5.1GB</b>	12ms read/13ms write	12.5 mm	PIO Mode 4 or Ultra DMA/33	- <b>6.4GB</b>	13ms read/14ms write	12.5 mm	PIO Mode 4 or Ultra DMA/33
- <b>3.2GB</b>	13ms read/14ms write																		
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12.5 mm	PIO Mode 4 or Ultra DMA/33																		
- <b>6.4GB</b>	13ms read/14ms write																		
12.5 mm	PIO Mode 4 or Ultra DMA/33																		

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# IBM ThinkPad® 600E (400MHz) - withdrawn

<b>IBM® ThinkPad®</b>		<b>WINDOWS 98 PRELOAD<sup>16</sup></b>			
Processor	<b>Intel® Mobile Pentium® II 400MHz<sup>1</sup></b> / 66MHz system bus				<ul style="list-style-type: none"> <li>Microsoft® Windows® 98</li> <li>ThinkPad Utilities</li> <li>Online User's Guide</li> <li>ThinkPad Configuration Program</li> <li>Ergonomics</li> <li>IBM Registration</li> <li>RingCentral Fax</li> <li>Puma IntelliSync 97 (infrared)</li> <li>IBM Global Network Dialer</li> <li>Netscape Communicator</li> <li>Lotus SmartSuite Millennium</li> <li>Universal Management Agent</li> <li>ThinkPad on the Net</li> <li>ConfigSafe®</li> <li>Norton AntiVirus™ (OEM Version)</li> <li>Mediamatics DVD Express</li> <li>IBM Update Connector</li> <li>Access ThinkPad</li> <li>Software Selections CD-ROM</li> <li>Recovery CD-ROM (Windows 98)</li> <li>Recovery CD-ROM (Windows 95)<sup>7</sup></li> </ul>
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module				
L2 cache	<b>256KB / onboard (full speed)</b> / sync pipelined burst / write-back / ECC				
Diskette (removable)	3.5" 1.44MB / use in UltralimBay™ / ships in external diskette enclosure with a cable				
External FDD port	External diskette port on right side (can use simultaneously with internal CD/DVD)				
CD-ROM (removable)	<i>Std or option:</i> CD-ROM / 24X-10X <sup>5</sup> speed / bootable / removable from UltralimBay				
DVD (removable)	<i>Std or option:</i> DVD-ROM / bootable / removable from UltralimBay				
Type - model	<b>2645-4BU</b>	<b>2645-5BU</b>	<b>2645-8BU</b>	<b>2645-BAU (AAP)</b>	
Processor	<b>Pentium II 400MHz</b>	<b>Pentium II 400MHz</b>	<b>Pentium II 400MHz</b>	<b>Pentium II 400MHz</b>	
Preload (see side)	<b>Windows 98</b>	<b>Windows 98</b>	<b>Windows NT</b>	<b>Blank (no disk)</b>	
CD or DVD-ROM	<b>CD-ROM</b>	<b>DVD</b>	<b>CD-ROM</b>	<b>Optional</b>	
Disk (removable)	<b>10.0GB<sup>4</sup></b> / 12ms seek time / PIO4 or Ultra DMA/33			<b>None</b>	
Avail / withdrawn date	June 1999 / January 2001				
Memory (std / max)	<b>64MB</b> / 288MB <sup>25</sup>		<b>32MB</b> / 288MB <sup>25</sup>		
	SDRAM / non-parity / 66MHz / 3.3v / sockets accessed by removing screw on base				
	Two 144-pin sockets / 32MB on planar / 1 or 2 sockets available / for 64MB model, one socket used by 32MB SO-DIMM				
Display	<b>13.3"</b> (337.8mm) <b>TFT color</b> / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio / 640x480, 800x600, or 1024x768 (up to 16.7 million colors) / 150 nits (AC), 90 nits (battery) / 180 degree tilt				
Graphics - controller	<b>NeoMagic™ MagicMedia256AV™</b> (NM2200) / Accelerated Graphics Port				
Graphics - features	<b>2.5MB</b> / SGRAM (embedded) / 128-bit engine, 256-bit memory interface / AGP-1x <b>Motion compensation</b> / color space conversion / interpolation in X and Y axis				
Graphics - external	Multiple-monitor support <sup>26</sup> for Windows 98 / simultaneous LCD and CRT <sup>26</sup> / DDC2B External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors				
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART <sup>29</sup> / upgradeable				
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4E DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter				
Keyboard / Fn keys	Full-size 85-key keyboard / 10 Fn key functions / integrated palm rest				
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope				
Pointing device	<b>TrackPoint®</b> / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps				
Dimensions <sup>36</sup>	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm				
Approximate weight <sup>2</sup>	5.04 lbs (2.29 kg) w/ travel cover and battery only / IBM ThinkPad UltraCarbon™ case				
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch				
Battery - life <sup>10</sup>	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in UltralimBay				
Charge time <sup>10</sup> - on / off	2 to 3 hrs / 1.5 to 2.5 hrs				
Architecture	<b>Intel 440BX AGPset</b> / Intel 82371EB PIIX4E (EIDE, ISA Bridge, USB) / TI® PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer				
Port replicator	PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion)				
Docking Station	PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)				
PC Card Std slots	<b>SelectaBase 600</b> / PC Card Enabler <sup>17</sup> / PC Card Enabler with Advanced EtherJet <sup>17</sup>				
USB / serial / parallel	<b>SelectaDock III<sup>17</sup></b> / SelectaDock I and II				
Other features	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video				
Video (TV) out	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
MPEG decoder	APM-aware BIOS / Ultralim 56 watt AC Adapter barrel, 3 prong / selectable boot				
Data/fax modem	<b>5BU/BAU:</b> Video out (composite) / cable ships std with RCA jack / Chrontel CH7004				
Audio support	None (W98 support for MPEG-2 because 300MHz with motion compensation)				
Jacks	<b>56K<sup>22</sup></b> V.90 / 14.4Kbps fax / telephony / voice-capable / integrated Mwave® 3780i DSP / international programmable DAA / modem cable				
Infrared ports	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record				
Security	CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX				
Limited warranty <sup>11</sup>	Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone				
Service options <sup>15</sup>	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex				
	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps				
	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk				
	3 year - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround)				
	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date				
	- ThinkPad 600 Li-Ion Battery	12J2464	- 6.4GB disk, 13ms, Ultra DMA/33	02K0518	
	- 10/100 EtherJet CardBus with 56K <sup>22</sup> modem	08L3167	- 10GB disk, 12ms, Ultra DMA/33	36L9293	
	- IBM 10/100 EtherJet CardBus PC Card	08L3147	- SelectaBase 600	12J2467	
			- PC Card Enabler with Adv EtherJet <sup>17</sup>	05K4820	
			- SelectaDock III <sup>17</sup>	3547003	
			- Ultralim 56 watt AC Adapter (3 prong)	02K6545	
			- 24X-10X <sup>5</sup> CD-ROM (UltralimBay; includes external diskette enclosure)	12J2471	
			- 32MB SO DIMM 3.3v NP SDRAM	76H0294	
			- 64MB SO DIMM 3.3v NP SDRAM	20L0241	
			- 128MB SO DIMM 3.3v NP SDRAM	01K1150	
			- UltralimBay HDD adapter (for 2nd disk)	05K5336	
			- SuperDisk LS-120 (UltralimBay)	20L1929	
			- 2X <sup>5</sup> DVD Drive (UltralimBay)	05K8890	
			- 6X-2X <sup>5</sup> DVD Drive (UltralimBay)	05K9169	
			- Zip 100MB UltralimBay Drive (570/600)	37L1507	
			- UltralimBay Battery (600E only)	02K6504	
<b>Color depth</b>	<b>LCD</b>	<b>External Monitor</b>			
<b>Resolution</b>	<b>TFT</b>	<b>60Hz</b>	<b>70Hz</b>	<b>75Hz</b>	<b>85Hz</b>
640x480	16M	16M	--	16M	16M
800x600	16M	16M	--	16M	16M
1024x768	16M	16M	16M	16M	16M
1280x1024	--	256	--	--	--
All models:					
- C: drive is FAT16 of 2GB					
- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space					
		<b>WINDOWS NT PRELOAD<sup>16</sup></b>			
		<ul style="list-style-type: none"> <li>Microsoft Windows NT® 4.0</li> <li>Service Pack 4a</li> <li>ThinkPad Utilities</li> <li>Online User's Guide</li> <li>ThinkPad Configuration Program</li> <li>Ergonomics</li> <li>IBM Registration</li> <li>Puma IntelliSync 97 (infrared)</li> <li>IBM Global Network Dialer</li> <li>Netscape Communicator</li> <li>Lotus SmartSuite Millennium<sup>20</sup></li> <li>Universal Management Agent</li> <li>ConfigSafe</li> <li>Norton AntiVirus (OEM Version)</li> <li>IBM Update Connector</li> <li>Access ThinkPad</li> <li>SystemSoft CardWizard</li> <li>Software Selections CD-ROM</li> <li>Recovery CD-ROM (Windows NT)</li> </ul>			
		The right bay (UltralimBay) has LED on release latch to provide status; supports warm swapping:			
		<ul style="list-style-type: none"> <li>std diskette and travel cover</li> <li>std or optional CD-ROM</li> <li>std or optional DVD drive</li> <li>optional UltralimBay battery (cold swap only; 600E only)</li> <li>optional LS-120 SuperDisk drive (cold swap only)</li> <li>optional Zip 100MB drive (cold swap)</li> <li>optional HDD adapter; for second disk (cold swap only)</li> <li>optional ThinkPad Proven™ solutions<sup>12</sup></li> </ul>			
		<b>PC 97 compliant</b>			
		<b>DMI 2.0 compliant</b>			
		DMI instrumentation (thermal monitoring)			
		<b>ACPI ready</b> (APM enabled)			
		<b>Wired for Management 1.1a</b>			
		<b>Wake on LAN® support<sup>28</sup></b>			
		Universal Management Agent™ support			
		Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 or NT manual			
		Plug and Play 1.0a			
		Standby, suspend, safe suspend, and hibernation modes			
		ENERGY STAR compliant			
		Asset ID™ wireless RF technology (available only as an AAP option on the 600E model BAU; Atmel® AT24RF08 EEPROM)			
		International Warranty Service <sup>14</sup>			
		<b>IBM SystemXtra®<sup>35</sup></b>			
		24 hour / 7 day <sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support			

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# IBM ThinkPad® 600X - withdrawn

IBM® ThinkPad®		WINDOWS 98 PRELOAD <sup>16</sup>					
Processor	Intel® Mobile Pentium® III 450 or 500MHz <sup>1</sup> / 100MHz system bus						
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module						
L2 cache	256KB / onboard (at processor speed) / sync pipelined burst / write-back / ECC						
Diskette (removable)	3.5" 1.44MB / use in UltralimBay™ / ships in external diskette enclosure with a cable						
External FDD port	External diskette port on right side (can use simultaneously with internal CD/DVD)						
CD-ROM (removable)	Std or option: CD-ROM / 24X-10X <sup>5</sup> speed / bootable / removable from UltralimBay						
DVD (removable)	Std or option: DVD-ROM / bootable / removable from UltralimBay						
Type - model	2645-3EU	2645-7EU	2645-4EU	2645-8EU	2645-5EU	2645-9EU	
Preload (see side)	Win 98	NT 4.0	Win 98	Win 2000	Win 98	NT 4.0	
Processor	Pentium III 450MHz		Pentium III 500MHz		Pentium III 500MHz		
CD or DVD-ROM	CD-ROM		CD-ROM		6X-2.3X <sup>5</sup> DVD / RPC II		
Disk (removable)	6.0GB <sup>4</sup> / 12ms seek read		12.0GB / 12ms seek read		12.0GB / 12ms seek (read)		
	PIO4 or Ultra DMA/33		PIO4 or Ultra DMA/33		PIO4 or Ultra DMA/33		
Avail / withdrawn date	Dec 1999 / Jan 2001		Dec 1999 / Jan 2001		Dec 1999 / Jan 2001		
Memory (std / max)	64MB / 576MB						
	SDRAM / non-parity / 100MHz / 3.3v / sockets accessed by removing screw on base / two 144-pin sockets / 64MB on planar / 2 sockets available						
Display	13.3" (337.8mm) TFT color / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio / 640x480, 800x600, or 1024x768 (up to 16.7 million colors) / 150 nits (AC), 90 nits (battery) / 180 degree tilt						
Graphics - controller	NeoMagic™ MagicGraph256ZX™ (NM2360) / Accelerated Graphics Port / 4MB / SGRAM (embedded) / 128-bit engine, 256-bit memory interface / AGP 2X						
Graphics - features	Motion compensation / multiple-monitor support <sup>26</sup> for Windows 98 / simultaneous LCD and CRT <sup>26</sup> / DDC2B						
Graphics - external	External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors						
Disk	Left front / remove via coin screw or 2.5mm Allen wrench / SMART <sup>29</sup> / upgradeable						
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter						
Keyboard / Fn keys	Full-size 85-key keyboard / 10 Fn key functions / integrated palm rest						
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope						
Pointing device	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps						
Dimensions <sup>36</sup>	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm						
Approximate weight <sup>2</sup>	5.0 lbs (2.25 kg) w/ travel cover and battery only / IBM ThinkPad UltraCarbon™ case						
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch						
Battery - life <sup>10</sup>	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in UltralimBay						
Charge time <sup>10</sup> - on / off	2 to 3 hrs / 1.5 to 2.5 hrs						
Architecture	Intel 440BX AGPset / Intel PIII4M (EIDE, ISA Bridge, USB) / TI® PCI1450 for CardBus / AGP 2X for graphics / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext exp)						
Port replicator	SelectaBase 600 / PC Card Enabler <sup>17</sup> / PC Card Enabler with Advanced EtherJet <sup>17</sup>						
Docking Station	SelectaDock III <sup>17</sup> / SelectaDock I and II						
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video						
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)						
Other features	APM-aware BIOS / Ultralim 56 watt AC Adapter barrel, 3 prong / selectable boot						
Video (TV) out	5EU/9EU: Video out (composite) / cable ships std with RCA jack / Chronel CH7004						
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)						
Data/fax modem	56K <sup>37</sup> V.90 / 14.4Kbps fax / telephony / voice-capable / Mini-PCI Type IIIb / Lucent® 1646 / international programmable DAA / modem cable						
Audio support	16-bit playback and record / full duplex / SoundBlaster Pro™ support / PCI / CS4624 / CS4297A AC97 codec						
Jacks	Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone						
Infrared ports	Input jack (3.5 mm) / output jack (3.5 mm) / line in / full duplex						
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk						
Limited warranty <sup>11</sup>	3 year - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround)						
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date						
- IBM Portable Drive Bay	33L1511	- 6.0GB disk, 12ms, ATA-66				05K9199	
- 10/100 EtherJet CardBus with 56K <sup>22</sup> modem	08L3167	- 12.0GB disk, 12ms, ATA-66				05K9200	
- IBM 10/100 EtherJet CardBus PC Card	08L3147	- 18.0GB disk, 12ms, ATA-66				37L2993	
		- SelectaBase 600				12J2467	
		- PC Card Enabler with Adv EtherJet <sup>17</sup>				05K4820	
		- SelectaDock III <sup>17</sup>				3547003	
		- Ultralim 56 watt AC Adapter (3 prong)				02K6545	
		- 24X-10X <sup>5</sup> CD-ROM (UltralimBay)				12J2471	
		- 32MB SO DIMM 100MHz NP SDRAM				20L0253	
		- 64MB SO DIMM 100MHz NP SDRAM				20L0254	
		- 128MB SO DIMM 100MHz NP SDRAM				20L0255	
		- 256MB SO DIMM 100MHz NP SDRAM				33L3069	
		- UltralimBay HDD adaptr (for 2nd disk)				05K5336	
		- SuperDisk LS-120 (UltralimBay)				20L1929	
		- 6X-2X <sup>5</sup> DVD Drive (UltralimBay)				05K9169	
		- Zip 100MB UltralimBay Drive (570/600)				37L1507	
		- UltralimBay Battery (600E/X only)				02K6504	
		- ThinkPad 600 Li-Ion Battery				12J2464	
<b>Color depth</b>	<b>LCD</b>	<b>External Monitor</b>					
<b>Resolution</b>	<b>TFT</b>	<b>60Hz</b>	<b>70Hz</b>	<b>75Hz</b>	<b>85Hz</b>		
640x480	16M	16M	--	16M	16M		
800x600	16M	16M	--	16M	16M		
1024x768	16M	16M	16M	16M	16M		
1280x1024	--	256	--	--	--		
All models:							
- C: drive is FAT16 of 2GB							
- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space							
	<b>WINDOWS NT PRELOAD<sup>16</sup></b>						
	- Microsoft Windows NT® 4.0						
	- Service Pack 5						
	- ThinkPad Utilities						
	- Online User's Guide						
	- ThinkPad Configuration Program						
	- IBM Registration						
	- RingCentral Fax						
	- IBM Global Network Dialer						
	- Netscape Communicator						
	- Lotus® SmartSuite® Millennium <sup>20</sup>						
	- Universal Manageability Services						
	- ThinkPad on the Net						
	- ConfigSafe®						
	- Norton AntiVirus™ (OEM Version)						
	- Mediamatics DVD Express (5/9EU)						
	- IBM Update Connector						
	- Access ThinkPad						
	- Software Selections CD-ROM						
	- Recovery CD-ROM (Windows 98)						
	- Recovery CD-ROM (Windows 95) <sup>40</sup>						
	<b>WINDOWS NT PRELOAD<sup>16</sup></b>						
	- Microsoft Windows NT® 4.0						
	- Service Pack 5						
	- ThinkPad Utilities						
	- Online User's Guide						
	- ThinkPad Configuration Program						
	- IBM Registration						
	- PC-Doctor						
	- RingCentral Fax						
	- IBM Global Network Dialer						
	- Netscape Communicator						
	- Lotus SmartSuite Millennium <sup>20</sup>						
	- Universal Manageability Services						
	- ConfigSafe						
	- Norton AntiVirus (OEM Version)						
	- Mediamatics DVD Express (5/9EU)						
	- IBM Update Connector						
	- SystemSoft CardWizard						
	- Software Selections CD-ROM						
	- Recovery CD-ROM (Windows NT)						
	The right bay (UltralimBay) has LED on release latch to provide status; supports warm swapping:						
	- std diskette and travel cover						
	- std or optional CD-ROM						
	- std or optional DVD drive						
	- optional UltralimBay battery (cold swap only; 600E and 600X only)						
	- optional LS-120 SuperDisk drive (cold swap only)						
	- optional Zip 100MB drive (cold swap)						
	- optional HDD adapter; for second disk (cold swap only)						
	- optional ThinkPad Proven™ solutions <sup>12</sup>						
	<b>PC 99-compliant</b>						
	<b>CIM and DMI 2.0 compliant</b>						
	<b>Wired for Management 1.1a</b>						
	<b>Wake on LAN® support<sup>28</sup></b>						
	APM enabled (ACPI ready)						
	Local and remote asset management via the IBM Universal Manageability Services						
	Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 or NT manual						
	Plug and Play 1.0a						
	Standby, suspend, safe suspend, and hibernation modes						
	ENERGY STAR compliant						
	Asset ID™ wireless RF technology (available as special bid option; Atmel® AT24RF08 EEPROM)						
	International Warranty Service <sup>14</sup>						
	<b>IBM SystemXtra®<sup>35</sup></b>						
	24 hour / 7 day <sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support						

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 ⌘ 2645-8EU withdrawn effective July 2000

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# IBM ThinkPad® 600X (2000) - withdrawn

<b>IBM® ThinkPad®</b>		<b>WINDOWS 98 PRELOAD<sup>16</sup></b>	
Processor	<b>Intel® Mobile Pentium® III 500MHz<sup>1</sup> with 100MHz system bus or Pentium® III 650MHz<sup>1,41</sup> with SpeedStep™ technology and 100MHz system bus</b>		
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module		
L2 cache	<b>256KB / onboard (at processor speed)</b> / sync pipelined burst / write-back / ECC		
Diskette (removable)	3.5" 1.44MB / use in UltralimBay™ / ships in external diskette enclosure with a cable		
External FDD port	External diskette port on right side (can use simultaneously with internal CD/DVD)		
CD-ROM (removable)	<i>Std or option: CD-ROM / 24X-10X<sup>5</sup> speed / bootable / removable from UltralimBay</i>		
DVD (removable)	<i>Std or option: DVD-ROM / bootable / removable from UltralimBay</i>		
Type - model	<b>2645-8PU</b>	<b>2645-5FU</b>	<b>2645-9FU</b>
Preload (see side)	<b>Windows 2000 Pro</b>	<b>Windows 98 SE</b>	<b>Windows 2000 Pro</b>
Processor	<b>Pentium III 500MHz</b>	<b>Pentium III 650MHz</b>	<b>Pentium III 650MHz</b>
CD or DVD-ROM	<b>CD-ROM</b>	<b>6X-2X<sup>5</sup> DVD / RPC II</b>	<b>CD-ROM</b>
Disk (removable)	<b>12.0GB<sup>4</sup> / 12ms seek read / 14ms write / ATA-66 or PIO Mode 4 / S.M.A.R.T.<sup>29</sup></b>		
Avail / withdrawn date	February 2000 / February 2001		
Memory (std / max)	<b>64MB / 576MB</b>		
	SDRAM / non-parity / <b>100MHz / 3.3v</b> / sockets accessed by removing screw on base / two 144-pin sockets / 64MB on planar / 2 sockets available		
Display	<b>13.3"</b> (337.8mm) <b>TFT color</b> / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio / 640x480, 800x600, or 1024x768 (up to 16.7 million colors) / 150 nits (AC), 90 nits (battery) / 180 degree tilt		
Graphics - controller	<b>NeoMagic™ MagicGraph256ZX™</b> (NM2360) / Accelerated Graphics Port / <b>AGP 2X 4MB</b> / SGRAM (embedded) / 128-bit engine, 256-bit memory interface		
Graphics - features	<b>Motion compensation</b> / multiple-monitor support <sup>26</sup> for Windows 98 SE only / simultaneous LCD and CRT <sup>26</sup> / DDC2B		
Graphics - external	External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors		
Disk	Left front / remove via coin screw or 2.5mm Allen wrench / SMART <sup>29</sup> / upgradeable		
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter		
Keyboard / Fn keys	Full-size 85-key keyboard / 10 Fn key functions / integrated palm rest		
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope		
Pointing device	<b>TrackPoint®</b> / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps		
Dimensions <sup>36</sup>	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm		
Approximate weight <sup>2</sup>	4.99 lbs (2.25 kg) w/ travel cover and battery only / IBM ThinkPad UltraCarbon™ case		
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch		
Battery - life <sup>10</sup>	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in UltralimBay		
Charge time <sup>10</sup> - on / off	2 to 3 hrs / 1.5 to 2.5 hrs		
Architecture	<b>Intel 440BX AGPset</b> / Intel PIII4M (EIDE, ISA Bridge, USB) / TI® PCI1450 for CardBus / AGP 2X for graphics / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext exp)		
Port replicator	<b>SelectaBase 600</b> / PC Card Enabler <sup>17</sup> / PC Card Enabler with Advanced EtherJet <sup>17</sup>		
Docking Station	<b>SelectaDock III<sup>17</sup></b> / SelectaDock I and II		
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video		
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Ultralim 56 watt AC Adapter barrel, 3 prong / selectable boot		
Video (TV) out	<b>5FU/9FU:</b> Video out (composite) / cable ships std with RCA jack / Chronlet CH7004		
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)		
Data/fax modem	<b>56K<sup>37</sup></b> V.90 / 14.4Kbps fax / telephony / voice-capable / Mini-PCI Type IIIb / Lucent® 1646 / international programmable DAA / modem cable		
Audio support	16-bit playback and record / full duplex / SoundBlaster Pro™ support / PCI / CS4624 / CS4297A AC97 codec		
Jacks	Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone		
Infrared ports	Input jack (3.5 mm) / output jack (3.5 mm) / line in / full duplex		
Security	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps		
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk		
Limited warranty <sup>11</sup>	<b>3 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround)		
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date		
- IBM Portable Drive Bay	33L1511	- 6.0GB disk, 12ms, ATA-66	05K9199
- 10/100 EtherJet CardBus with 56K <sup>22</sup> modem	08L3167	- 12.0GB disk, 12ms, ATA-66	05K9200
- IBM 10/100 EtherJet CardBus PC Card	08L3147	- 18.0GB disk, 12ms, ATA-66	37L2993
		- SelectaBase 600	12J2467
		- PC Card Enabler with Adv EtherJet <sup>17</sup>	05K4820
		- SelectaDock III <sup>17</sup>	3547003
		- Ultralim 56 watt AC Adapter (3 prong)	02K6545
		- 24X-10X <sup>5</sup> CD-ROM (UltralimBay)	12J2471
		- 64MB SO DIMM 100MHz NP SDRAM	20L0254
		- 128MB SO DIMM 100MHz NP SDRAM	20L0255
		- 256MB SO DIMM 100MHz NP SDRAM	33L3069
		- UltralimBay HDD adaptr (for 2nd disk)	05K5336
		- SuperDisk LS-120 (UltralimBay)	20L1929
		- 6X-2X <sup>5</sup> DVD Drive (UltralimBay); RPC II	05K9169
		- Zip 100MB UltralimBay Drive (570/600)	37L1507
		- UltralimBay Battery (600E/X only)	02K6504
		- ThinkPad 600 Li-Ion Battery	12J2464
		- IBM 340MB microdrive	00N8073
Windows 98 model:			
- C: drive is FAT16 of 2GB			
- D: drive is FAT32 of remaining space			
Windows 2000 models:			
- C: drive is FAT32 of entire drive			
			<b>WINDOWS 2000 PRELOAD<sup>16</sup></b>
			- Windows 2000® Professional
			• ThinkPad Utilities
			• Online User's Guide
			• ThinkPad Configuration Program
			• IBM Registration
			• RingCentral Fax
			• Netscape Communicator
			• Lotus® SmartSuite® Millennium
			• ThinkPad on the Net
			• ConfigSafe®
			• Norton AntiVirus™ (OEM Version)
			• Mediamatics DVD Express (5/9FU)
			• IBM Update Connector
			• Access ThinkPad
			◇ Software Selections CD-ROM
			◇ Recovery CD-ROM (Windows 98 SE)
			◇ Recovery CD-ROM (Windows 95) <sup>40</sup>
			<b>WINDOWS 2000 PRELOAD<sup>16</sup></b>
			- Windows 2000® Professional
			• ThinkPad Utilities
			• Online User's Guide
			• ThinkPad Configuration Program
			• IBM Registration
			• PC-Doctor
			• RingCentral Fax
			• Netscape Communicator
			• Lotus SmartSuite Millennium
			• ConfigSafe
			• IBM Update Connector
			• SystemSoft CardWizard
			◇ Software Selections CD-ROM
			◇ Recovery CD-ROM (Windows 2000)
			◇ Recovery CD-ROM (Windows NT) <sup>40</sup>
			The right bay (UltralimBay) has LED on release latch to provide status; supports warm swapping:
			• std diskette and travel cover
			• std or optional CD-ROM
			• std or optional DVD drive
			• optional UltralimBay battery (cold swap only; 600E and 600X only)
			• optional LS-120 SuperDisk drive (cold swap only)
			• optional Zip 100MB drive (cold swap)
			• optional HDD adapter; for second disk (cold swap only)
			• optional ThinkPad Proven™ solutions <sup>12</sup>
			<b>PC 99-compliant</b>
			<b>CIM and DMI 2.0 compliant</b>
			<b>Wired for Management 1.1a</b>
			<b>Wake on LAN® support<sup>28</sup></b>
			APM enabled (ACPI ready)
			Local and remote asset management via the IBM Universal Manageability Services
			Remote setup and low-level maintenance via IBM LANclient Control Manager™
			Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 or 2000 manual
			Plug and Play 1.0a
			Standby, suspend, safe suspend, and hibernation modes
			ENERGY STAR compliant
			Asset ID™ wireless RF technology (available as special bid option; Atmel® AT24RF08 EEPROM)
			International Warranty Service <sup>14</sup>
			<b>IBM SystemXtra®<sup>35</sup></b>
			24 hour / 7 day <sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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No warranties are expressed or implied in this summary (600X2) © IBM Corp. January 2001

# IBM ThinkPad 701 - withdrawn

IBM® ThinkPad®:	≧ 701CS					≧ 701C					ThinkPad 701CS / 701C strengths:
	dual scan color					TFT color					
Processor 3.3 volt	<b>80486DX2</b>					<b>IntelDX4</b>					<ul style="list-style-type: none"> <li>☛ Full sized, folding TrackWrite keyboard</li> <li>☛ Full sized 10.4" color dual scan or TFT display</li> <li>☛ Subnotebook size and weight (4.5 pounds)</li> <li>☛ Audio, 14.4/14.4 data/fax modem, telephony</li> <li>☛ Infrared communication</li> <li>☛ TrackPoint III and removeable disk</li> </ul>
Processor speed	<b>50/25 MHz</b>					<b>75/25 MHz</b>					
Coprocessor socket	N/A (math coprocessor std in DX2/DX4)					The 701 has a External Bus Connector to attach either standard MultiPort II or (with optional Adapter Kit) Dock II					
Memory cache	8 KB in DX2; 16 KB in DX4 / no L2 cache										
Diskette	External 3.5" 1.44 MB / hot-pluggable										
Removeable CD-ROM	Not supported										
Price (retail USD)	\$2,499	2,749	1,499*	1,649*	1,799*	\$2,999	3,299	1,999*	2,149*	2,299*	Integrated chipsets provide:
Type - model <b>all 2630</b>	US2	US5	2SU	5SU	7SU	UT2	UT5	2TU	5TU	7TU	
Removable disk - size	<b>360 MB</b>										
Hard disk - spd ms	13 ☐	13 ☐	13 ☐	13 ☐	13 ☐	13 ☐	13 ☐	13 ☐	13 ☐	13 ☐	
Available date	Mar 95	Mar 95	Mar95	Mar95	Sep95	Mar95	Mar95	Mar95	Mar95	Sep95	
Display - type	<b>VGA color / 640 x 480</b>					<b>VGA color / 640 x 480</b>					
Display - colors	<b>65,536 simultaneous colors</b>					<b>65,536 simultaneous colors</b>					
Display - technology	<b>Dual scan</b>					<b>TFT - active matrix</b>					
Display - diagonal size	<b>10.4 inch / 20 to 1 contrast ratio</b>					<b>10.4 inch / 100 to 1 contrast ratio</b>					
Graphics - controller	CT-65545 with 1 MB DRAM										
Graphics - vendor	Chips & Technologies / External SVGA to 1024 x 768 256 colors (up to 70 Hz)										
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt										
Memory - std / max	<b>4 / 36 MB</b>		<b>8 / 40 MB</b>			<b>4 / 36 MB</b>		<b>8 / 40 MB</b>			
Memory - type	70 ns / non-parity / 3.3 volt										
Mem - sockets empty	1 socket										
Mem-options available	4, 8, 16, 32 MB SO-DIMMs										
Keyboard / # of keys	<b>Full size alp/num / 85 key</b> (15 Fn key functions)										
Keyboard slope	Yes (use MultiPort II stand that flips out)										
Mouse/pointing	<b>TrackPoint III™ on TrackWrite keyboard</b>										
Ext keyboard support	Yes (no cable required)										
Dimensions	9.7 x 7.9 x 1.7" (130 cubic inches)										
Color	Black With keyboard open it expands from 9.7" to 11.5"										
Weight (with battery)	4.5 pounds										
Battery - type	Super NiCad or NiMH (DX4 mdl's built after 9/95)										
Battery - life	2.5 to 7 hours <b>or optional NiMH</b>										
Charge time - on / off	1.5 hrs / battery will not charge if unit is off										
Architecture	AT bus (ISA)										
Docking Station	Dock II (requires optional Dock II Adapter Kit)										
Port replicator	None (use standard MultiPort II)										
PCMCIA™ 2.1 slots	<b>2 Type I or 2 Type II or 1 Type III</b>										
Serial / parallel ports	One 9 pin; 16550A / ECP/EPP parallel 36 pin (IEEE 1284); non-DMA										
Other features	APM-aware BIOS / Wallmount AC adapter (30 watts) w/ 2 prongs / Selectable boot										
Functions	<b>Data modem, fax modem, audio, telephony function</b>										
Data/fax modem	<b>14.4/14.4 data/fax modem function (with RJ11 jack)</b>										
Audio support	<b>16 bit audio chip on planar (ESS688 and Yamaha OPL3) / FM Synthesis Internal speaker (with Fn key volume control) and internal microphone</b>										
Audio in/out jacks	Input jack / microphone jack / output jack										
Telephone	Telephone / answering machine / full duplex speakerphone										
Infrared ports	<b>Infrared port (on back) / IRDA 1.0 compatible / up to 115.2 Kbps</b>										
Security	Power-on password / locking device keyhole also called MicroSaver™ security connector (Kensington™ lock)										
Preinstalled software	IBM DOS 6.3, Windows™ 3.11, (and OS/2 Warp on DX4 models), and all appls listed to right:										
Warranty	<b>3 year - EasyServ only (optional onsite special bid only)</b>										

<p>Configuration Utility is entered by Fn+F1 at any time</p> <p><b>MultiPort II</b> (ships standard) is 1.7 x .9 x 10" and has ports for:</p> <ul style="list-style-type: none"> <li>- Mouse/Numpad connector (6 pin)</li> <li>- External keyboard connector (6 pin)</li> <li>- EPP parallel port (25 pin)</li> <li>- Serial connector (RS-232D - 9 pin)</li> <li>- Audio line in (3.5 mm)</li> <li>- Audio line out (3.5 mm)</li> <li>- External display connector (15 pin)</li> <li>- DC input connector</li> </ul> <p>ECP/EPP port (36 lines) connects either the external floppy or a printer. The standard External Diskette Drive Cable (13.2") has a 36-pin and a 26-pin connector. The Standard Printer Cable Adapter (7.1") has a 36-pin connector and a 25-pin connector (so a conventional printer cable is needed)</p> <p>≧ Withdrawn from marketing eff December 1995</p>	<p>Compatible in all 701 models:</p> <table border="0"> <tr><td>- Disks: 540 MB disk 13 ms</td><td>04H6894</td></tr> <tr><td>720 MB disk 13 ms</td><td>10H4096</td></tr> <tr><td>- Dock II (2 slot / 2 bay)</td><td>84G3587</td></tr> <tr><td>- Dock II Adapter Kit</td><td>04H6196</td></tr> <tr><td>- 4 MB SO-DIMM 3.3v</td><td>92G7259</td></tr> <tr><td>- 8 MB SO-DIMM 3.3v</td><td>92G7261</td></tr> <tr><td>- 16 MB SO-DIMM 3.3v</td><td>92G7263</td></tr> <tr><td>- 32 MB SO-DIMM 3.3v</td><td>92G7281</td></tr> <tr><td>- Universal AC Adapter 30 watts</td><td>04H8367</td></tr> <tr><td>- AC Adapter 30 w, wall, 2 pin</td><td>10H4020</td></tr> <tr><td>- AC Adapter 35 w, ww, 3 pin</td><td>85G6680</td></tr> <tr><td>- Super NiCad Battery</td><td>10H4019</td></tr> <tr><td>- NiMH Battery</td><td>25H4862</td></tr> <tr><td>- MultiPort II</td><td>10H4021</td></tr> <tr><td>- External diskette with cable</td><td>10H4068</td></tr> <tr><td>- EPP Printer Cable &amp; Cable Pack</td><td>10H4069</td></tr> </table> <p>ThinkPad 360, 750, 755 family disks, batteries, memory, and Dock I are NOT compatible in the ThinkPad 701 family</p>	- Disks: 540 MB disk 13 ms	04H6894	720 MB disk 13 ms	10H4096	- Dock II (2 slot / 2 bay)	84G3587	- Dock II Adapter Kit	04H6196	- 4 MB SO-DIMM 3.3v	92G7259	- 8 MB SO-DIMM 3.3v	92G7261	- 16 MB SO-DIMM 3.3v	92G7263	- 32 MB SO-DIMM 3.3v	92G7281	- Universal AC Adapter 30 watts	04H8367	- AC Adapter 30 w, wall, 2 pin	10H4020	- AC Adapter 35 w, ww, 3 pin	85G6680	- Super NiCad Battery	10H4019	- NiMH Battery	25H4862	- MultiPort II	10H4021	- External diskette with cable	10H4068	- EPP Printer Cable & Cable Pack	10H4069	<p><b>FEATURES OF 701CS / 701C MODELS</b></p> <p>Battery life indicator Non-disruptive battery exchange Standby, suspend, hibernation, and RediSafe modes US EPA Energy Star compliant Personalized nameplate in molded indentation</p> <p style="text-align: center;"><b>HELPWARE</b></p> <p><b>3 year warranty</b> <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM or dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b></p>
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**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for \$99.

☐ = Upgradeable; ○ = Removable; \* DX4 models had price decrease effective Feb 9, 1996

≧ = Withdrawn from marketing on or before June 1996

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(701) Compiled by Roger Dodson, IBM. June 1996

# IBM ThinkPad 710T, 720, 720C - withdrawn

IBM® ThinkPad®:	⌘ 710T pen tablet	⌘ 720 monochrome	⌘ 720C color TFT
Processor type	<b>80486 SLC</b>	<b>80486 SLC2</b>	<b>80486 SLC2</b>
Processor speed	<b>25 MHz</b>	<b>50/25 MHz</b>	<b>50/25 MHz</b>
Memory cache	16 KB internal	16 KB internal	16 KB internal
Coprocessor socket	No	Yes (for 387 SL)	Yes (for 387 SL)
Diskette drive	Optional 3.5" 1.44 MB	3.5" 1.44 MB	3.5" 1.44 MB
Price (retail USD)	\$ 1,859	\$ 2,495 ↕	\$ 4,695
Type - model	2523-09Y	9552-307	9552-30J
Hard drive - size	Option (TPF) <b>60 MB</b>	<b>120 MB</b> ▣	<b>160 MB</b> ▣
Hard drive - speed	5, 10, 15 MB	17 ms ○	15 ms ○
Available date	March 93	May 93	May 93
Withdrawal date	Sept 94	March 94	March 94
Display - type	VGA mono	VGA mono ▣	<b>VGA color</b>
Display - grey scales	16 grey scales	64 grey scales ▣	256 colors 640x480
Display - technology	STN Transflective	STN	Thin film transistor
Display - light source	LCD - Backlit	LCD - backlit ▣	Active matrix
Display - size (diag)	9.5 inch	9.5 inch ▣	10.4 inch
Display - contrast ratio	3 to 1	18 to 1 ▣	100 to 1
180 degree display tilt	N/A	Yes	Yes
Memory - std / max	4 / 12 MB 80 ns	4 / 16 MB 80 ns	4 / 16 MB 80 ns
Mem - sockets empty	1 socket (parity)	2 sockets (parity)	2 sockets (parity)
SIMM/ICs available	2, 4, 8 MB SIMMs	2, 4, 8 MB ICs	2, 4, 8 MB ICs
Keyboard / # of keys	External (any PS/2 keyboard)	Full size alp/num/ 84	Full size alp/num/ 84
Fn key functions	N/A (no keyboard)	None	None
Keyboard slope	N/A is supported)	8 degrees (legs)	8 degrees (legs)
Mouse/pointing	Electromagnetic pen	<b>TrackPoint II™</b>	<b>TrackPoint II™</b>
Ext keyboard support	Yes	Yes (with opt cable)	Yes (with opt cable)
Dimensions	11.6 x 9.6 x 1.4"	11.7 x 8.3 x 1.9"	11.7 x 8.3 x 2.2"
Cubic inches	156 inches	185 inches	214 inches
Carrying case	Blk nylon standard	Many options available	Many options available
Color	Black	Black	Black
Weight (with battery)	5.2 pounds (09Y); 5.5 pounds (302,3)	6.5 pounds	7.6 pounds
Battery - type	Nickel cadmium	Nickel hydride	Nickel hydride
Batt - life (per battery)	3.3 to 4.1 hrs (09Y); 3.1 to 3.8 (302,3)	4 to 8 hours	2.4 to 4.8 hours
Charge time - on / off	N/A / 3 hrs (unit off or suspend only)	3 hrs / 2 hrs	1.5 hrs / 1.4 hrs
Battery - options	Nickel cadmium half size battery	Yes - status indicator	Yes - status indicator
Architecture	Local / AT I/O, DMA	Micro Channel®	Micro Channel
External AT/MCA port	Yes	Yes	Yes
Comm Ctrrdge (1 card)	No	Yes (black)	Yes (black)
Docking Station	No	Yes (3550-002) black	Yes (3550-002) black
Port replicator	No	Yes black	Yes black
Modem/serial slot	No	No	No
PCMCIA slots	3 Type II (09Y); 1 Type II (302, 303)	<b>2 Type I or 2 Type II</b> Yes or 1 Type III	<b>2 Type I or 2 Type II</b> Yes or 1 Type III
Visible LEDs - closed	N/A	Yes / Yes (DMA)	Yes / Yes (DMA)
Serial / parallel ports	Yes / Yes		
APM-aware BIOS	No	APM-aware BIOS	APM-aware BIOS
Other features	09Y: PenDOS, PenPoint on optional solid state files (10, 15 MB).	Hrdw security loop	Hrdw security loop
Preinstalled software	302: PenDOS 2.0; 303: PenPoint	IBM DOS 5.02, PRODIGY®	IBM DOS 5.02, PRODIGY
Warranty	1 year - EasyServ only	<b>3 year</b> - carry in or EasyServ (opt onsite)	<b>3 year</b> - carry in or EasyServ (opt onsite)

The 700/720 family hard disks, batteries, and docking station are NOT compatible with ThinkPad 360, 750, 755.  
The 700/720 memory IS compatible with ThinkPad 360, 750, 755.

<p><b>FEATURES OF 700/700C and 720/720C</b></p> <p><b>3 year warranty</b></p> <p><b>700/720 mono upgradeable to TFT color</b></p> <p><b>700/700C upgradeable to 486SLC2 50/25</b></p> <p><b>Upgradeable to 120, 160, 240, 340 MB</b></p> <p><b>Removable hard disk</b></p> <p><b>Pressure activated TrackPoint II</b></p> <p>Optional battery w/ power status indicators</p> <p>Quick Charger holds 2 batt; discharge button</p> <p><b>Coupon book with \$4,000 in savings</b></p>	<p>⌘ Withdrawn from marketing</p>	<p><b>FEATURES OF ALL PRODUCTS</b></p> <p>Suspend/resume mode; battery life indicator</p> <p>Non-disruptive battery exchange</p> <p>Simultaneous LCD and external CRT</p> <p>US EPA Energy Star compliant</p> <p><b>International travelers warranty</b></p> <p><b>IBM or dealer warranty/service</b></p> <p><b>30 day money back guarantee</b></p> <p><b>24 hour / 7 day fax support</b></p> <p><b>24 hour / 7 day bulletin board support</b></p> <p><b>24 hour / 7 day telephone support at</b></p> <p><b>1-800-772-2227</b></p>
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**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight).  
STN = Super twisted nematic; ▣ = Upgradeable; ○ = Removable

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(2THINKWW) Compiled by Roger Dodson, IBM. September 1994

# IBM ThinkPad 730T - withdrawn

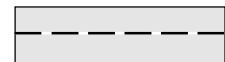
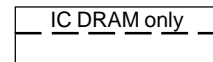
<b>IBM® ThinkPad®:</b>	⚡ <b>730T</b> pen tablet			
Processor type	<b>80486SX</b> (3.3 volt SL Enhanced)			
Processor speed	<b>33 MHz</b>			
Memory cache	8 KB internal (no L2 cache)			
Coprocessor socket	No			
Diskette drive	Optional 3.5" 1.44 MB (same as ThinkPad 710T and 730TE)			
Price (retail USD)	\$ 2,569	\$ 2,879	\$ 3,119	\$ 3,429
Type - model	2524-801	2524-901	2524-80F	2524-90F
Hard drive - size	Option (required via PCMCIA disk)	Option (required via PCMCIA disk)	<b>105 MB PCMCIA</b>	<b>105 MB PCMCIA</b>
Hard drive - speed			15 ms	15 ms
Preinstalled software	N/A	N/A	IBM DOS 6.3 Windows for Pen Computing	IBM DOS 6.3 Windows for Pen Computing
Avail / withdrawn date	May 1994 / June 1996	May 1994 / June 1996	May 1994 / June 1996	May 1994 / June 1996
Memory - std / max	4 / 20 MB	8 / 24 MB	4 / 20 MB	8 / 24 MB
Mem - sockets empty	Uses a specific Type III PCMCIA slot; this will then permit a Type I or II PCMCIA card in rest of slot			
Memory - type	70 ns / non-parity / 5.0 volt			
Memory - options	4, 8, 16 MB ICs			
Display - type	VGA 640 x 480 monochrome	(External display is 640 x 480 with 16 colors)		
Display - grey scales	16 grey scales	(Simultaneous LCD and CRT display)		
Display - technology	STN Transflective	Transflective: can turn on backlight in dark areas or turn it off in bright areas		
Display - light source	LCD - Backlit			
Display - size (diag)	9.5 inch			
Display - contrast ratio	3 to 1			
Keyboard	External (any IBM keyboard is supported; attach to port replicator)			
Mouse/pointing	Electromagnetic pen/digitizer/stylus that realistically simulates the feel of pen-to-paper / untethered / batteryless (a mouse is not supported) / stylus is stored in a compartment on bottom			
Dimensions	10.6 x 8.3 x 1.4"			
Cubic inches	123 inches			
Carrying case	Blk nylon standard (many options also available)			
Color	Black			
Weight (with battery)	3.5 pounds (1 battery); 3.9 pounds (2 batteries)			
Battery - type	Nickel hydride (NiMH)		A false battery pack ships standard if only want to use one battery	
Battery - quantity	Two batteries ship standard / can use one or two batteries			
Batt - life (per battery)	1 battery: 2 to 5 hours 2 battery: 4 to 10 hours			
Charge time - on / off	N/A / 1.5 hours (unit off or suspend only)			
Architecture	Local memory bus / ISA			
Docking Station	No			
Port replicator	Yes (ships standard / attach to 200 pin connector) Port Replicator includes ① 15 pin external CRT port, ② 9 pin 16550A serial port, ③ 25 pin EPP parallel port, ④ diskette drive connector, ⑤ keyboard port, ⑥ DC port for AC connector			
Modem/serial slot	No (use PCMCIA)			
PCMCIA 2.01 slots	<b>3 Type II or 2 Type III</b> as follows: 1st slot: 2 Type II or 1 Type III (but any additional memory must go into this slot; so adding IC DRAM memory will leave 1 Type II slot remaining) 2nd slot: 2 Type II or 1 Type III (105 MB PCMCIA disk in Models 80F/90F is installed here)			
Serial / parallel ports	Yes (on Port Replicator) / Yes (on Port Replicator)			
Warranty	<b>3 year</b> - ThinkPad EasyServ™			

The ThinkPad 730T requires a bootable operating system with Pen capability. Supported is:

- PenDOS® 2.2 with IBM DOS 6.3  
84G9180 - PCMCIA HDD 105 MB PenDOS preloaded
- Pen for OS/2 1.0 with OS/2® 2.11  
84G9190 - PCMCIA HDD 105 MB Pen for OS/2 preloaded
- Windows for Pen Computing® 3.1 with IBM DOS 6.3  
Models 80F/90F are preloaded with Windows for Pen Computing
- PenRight!® (available at dealers)

### PCMCIA SLOT CONFIGURATION

Two Type III (10 mm high):



PCMCIA Type III  
260 MB disk in this slot  
(Model 80F)

Quick Charger	66G9540	4 MB IC DRAM 70 ns 5v non-parity	92G7236
Car Battery Adapter	66G9545	8 MB IC DRAM 70 ns 5v non-parity	92G7237
NiMH Battery (dual)	66G9550	16 MB IC DRAM 70 ns 5v non-parity	92G7424
AC Adapter 20 watts	84G0480		
PortReplicator	84G0485		
External 3.5" 1.44 MB diskette drive	48G8263		
105 MB HDD (PenDOS)	84G9180		
105 MB HDD (PenOS2)	84G9190		
Hand Strap	84G0495		
Soft Case	84G0490		
Battery Case	84G0500		

### FEATURES OF THINKPAD 730T

- Suspend/resume mode
- Battery life indicator
- Non-disruptive battery exchange
- US EPA Energy Star compliant
- 3 year warranty**
- International Warranty Service**
- 24 hour / 7 day telephone, bulletin board, fax, and electronic support**
- IBM warranty/service**
- 30 day money back guarantee**

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
⚡ = Withdrawn from marketing

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(730T) Compiled by Roger Dodson, IBM. June 1996

# IBM ThinkPad 730TE - withdrawn

<b>IBM® ThinkPad®:</b>	⌘ <b>730TE</b> pen tablet		The 730TE is the same as the 730T (older models) except: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">730T</th> <th style="text-align: center;">730TE</th> </tr> </thead> <tbody> <tr> <td>⌘ 486SX - 33 MHz</td> <td>⌘ IntelDX4 - 75/25 MHz</td> </tr> <tr> <td>⌘ 105 MB disk preloads</td> <td>⌘ 260 MB disk preloads</td> </tr> <tr> <td></td> <td>⌘ Improved storage door for pen</td> </tr> </tbody> </table>	730T	730TE	⌘ 486SX - 33 MHz	⌘ IntelDX4 - 75/25 MHz	⌘ 105 MB disk preloads	⌘ 260 MB disk preloads		⌘ Improved storage door for pen
730T	730TE										
⌘ 486SX - 33 MHz	⌘ IntelDX4 - 75/25 MHz										
⌘ 105 MB disk preloads	⌘ 260 MB disk preloads										
	⌘ Improved storage door for pen										
Processor	<b>IntelDX4™ 75/25 MHz</b>										
Memory cache	16 KB in DX4 (no L2 cache)										
Coprocessor socket	N/A; standard in IntelDX4										
Diskette drive	Optional 3.5" 1.44 MB (same as ThinkPad 710T and 730T)										
Price (retail USD)	\$ 2,849	\$ 3,499									
Type - model	2524-B01	2524-B0F									
Part number	39H5976	39H5975									
Hard drive - size	Option (required	<b>260 MB PCMCIA</b>									
Hard drive - speed	via PCMCIA disk)	12 ms / 4500 rpm / 16 MB/sec burst transfer rate / 5.7 MB/sec media transfer rate									
Preinstalled software	N/A	IBM DOS 7.0 Windows for Pen Computing									
Avail / withdrawn date	Oct 1995 / July 1997	October 1995 / July 1997									
Memory - std / max	8 / 24 MB										
Mem - sockets empty	Uses a specific Type III PCMCIA slot; this will then permit a Type I or II PCMCIA card in rest of slot										
Memory - type	70 ns / non-parity / 5.0 volt										
Memory - options	4, 8, 16 MB ICs										
Display - type	VGA 640 x 480 monochrome	(External display is 640 x 480 with 16 colors)									
Display - grey scales	16 grey scales	(Simultaneous LCD and CRT display)									
Display - technology	STN Transflective	Transflective: can turn on backlight in dark areas or turn it off in bright areas									
Display - light source	LCD - Backlit										
Display - size (diag)	9.5 inch / 3 to 1 contrast ratio										
Graphics controller	Western Digital WD90C24A / VL-Bus 2.0 local bus / 1 MB DRAM memory										
Keyboard	External (any IBM keyboard is supported; attach to port replicator)										
Mouse/pointing	Electromagnetic pen/digitizer/stylus that realistically simulates the feel of pen-to-paper / untethered / batteryless (a mouse is not supported) / stylus is stored in a compartment on bottom										
Dimensions	10.6 x 8.3 x 1.4"										
Cubic inches	123 inches										
Carrying case	Blk nylon standard (many options also available)										
Color	Black										
Weight (with battery)	3.5 pounds (1 battery); 3.9 pounds (2 batteries)										
Battery - type	Nickel hydride (NiMH)	A false battery pack ships standard if only want to use one battery									
Battery - quantity	Two batteries ship standard / can use one or two batteries										
Batt - life (per battery)	1 battery: 1.65 to 5 hours 2 battery: 3.3 to 10 hours										
Charge time - on / off	N/A / 1.5 hours (unit off or suspend only)										
Architecture	Local memory bus / ISA										
Docking Station	No										
Port replicator	Yes (ships standard / attach to 200 pin connector) Port Replicator includes ① 15 pin external CRT port, ② 9 pin 16550A serial port, ③ 25 pin EPP parallel port, ④ diskette drive connector, ⑤ keyboard port, ⑥ DC port for AC connector										
Modem/serial slot	No (use PCMCIA)										
PCMCIA™ 2.1 slots	<b>3 Type II or 2 Type III as follows:</b> 1st slot: 2 Type II or 1 Type III (but any additional memory must go into this slot; so adding IC DRAM memory will leave 1 Type II slot remaining) 2nd slot: 2 Type II or 1 Type III (260 MB PCMCIA disk in Model B0F is installed here)										
Serial / parallel ports	Yes (on Port Replicator) / Yes (on Port Replicator)										
Security	Power-on password										
Warranty	<b>3 year</b> - ThinkPad EasyServ™ (Optional Overnight Repair Option)										

The ThinkPad 730T requires a bootable operating system with Pen capability. Supported is:

- PenDOS® 2.2 with IBM DOS 7.0  
39H6014 - PCMCIA HDD 260 MB PenDOS preloaded
- Pen for OS/2 1.03 with OS/2® Warp  
39H6017 - PCMCIA HDD 260 MB Pen for OS/2 preloaded
- Windows for Pen Computing® 1.0 with IBM DOS 7.0/Windows 3.11  
Model B0F is preloaded with Windows for Pen Computing
- PenRight!® (available at dealers)

### PCMCIA SLOT CONFIGURATION

Two Type III (10 mm high):



PCMCIA Type III  
260 MB disk in this slot  
(Model B0F)

Quick Charger	66G9540
Car Battery Adapter	66G9545
NiMH Battery (dual)	66G9550
AC Adapter 20 watts	84G0480
PortReplicator	84G0485
External 3.5" 1.44 MB diskette drive	48G8263
Hand Strap	84G0495
Soft Case	84G0490
Battery Case	84G0500

260 MB HDD PCMCIA Type III (Blank)	06H9077
260 MB HDD PCMCIA Type III (Warp for Pen)	39H6017
260 MB HDD PCMCIA Type III (PenDOS)	39H6014
4 MB IC DRAM 70 ns 5v non-parity	92G7236
8 MB IC DRAM 70 ns 5v non-parity	92G7237
16 MB IC DRAM 70 ns 5v non-parity	92G7424

### FEATURES OF THINKPAD 730TE

- Suspend/resume mode
- Battery life indicator
- Non-disruptive battery exchange
- US EPA Energy Star compliant
- 3 year warranty**
- International Warranty Service**
- 24 hour / 7 day telephone, bulletin board, fax, and electronic support**
- IBM warranty/service**
- 30 day money back guarantee**

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.

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No warranties are expressed or implied in this summary  
(730TE) Compiled by Roger Dodson, IBM. June 1997



# IBM ThinkPad 750 - withdrawn

IBM® ThinkPad®:	≥ 750 monochrome	≥ 750Cs passive color	≥ 750C color TFT	≥ 750P convertible pen	≥ Traveling Multimedia preconfigured system
Processor type	All: <b>80486 SL</b> with math co				A preconfigured, multimedia <b>750C</b> ; Available Sept 93; \$ 7,245 ↘
Processor speed	All: <b>33 MHz</b>				
Memory cache	All: 8 KB internal				Included with the IBM Traveling Multimedia: Hardware: - 750C (all features listed on left) - 340MB removable hard disk - 12 MB memory (4 MB std + 8 MB IC DRAM card) - 14.4 Data/Fax modem (PCMCIA) - Dock I (Docking Station) - CD-ROM/XA - double speed and Kodak Photo CD multisection - Dock I Carrying Case
Coprocessor socket	All: N/A (std in 486SL)				
Diskette drive	All: 3.5" 2.88 MB ○				Software: - Windows 3.1 - Asymetrix COMPEL™ (on screen multimedia presentations) - Asymetrix MediaBlitz! (library of media clips) - LapLink™ V (file transfer via cable or modem) - Delrina WinFax PRO (fax software)
Price (retail USD)	\$ 3,199	\$ 3,749	\$ 2,599 ↘	\$ 2,999 ↘	
Type - model	9545-006	9545-008	9545-206	9545-208	The removed diskette drive can be utilized externally via the optional 'FDD External Kit' (includes cable and enclosure; \$135) to the ① Port Replicator Model I, ② Port Replicator Model II, or ③ Dock I Docking Station.
Hard drive - size	<b>170 MB</b> ■	<b>340 MB</b> ■	<b>170 MB</b> ■	<b>340 MB</b> ■	
Hard drive - speed	15 ms ○	14 ms ○	15 ms ○	14 ms ○	Additional video features for all: 1 MB DRAM video memory / Video controller is Western Digital WD90C24 / Accelerator / 16 bit AT bus / Simultaneous LCD & CRT / External VGA is SVGA (to 1024x768)
Avail / withdrawal date	Sept 93 / withd	Sept 94	Nov 93 / withd	Sept 94	
Display - type	VGA mono	■	<b>VGA color</b>	<b>VGA color</b>	F n key functions to instantly change in any appl: ① Fuel gauge ④ Speaker volume ⑦ High intensity text ② Standby mode ⑤ LCD/ext CRT/both ⑧ Power mgmt mode ③ Suspend mode ⑥ Reverse video ⑨ Hibernation mode
Display - grey scales	64 grey scales	■	256 colors 640x480	256 colors 640x480	
Display - technology	STN	■	STN - passive matrix	Thin film transistor	Yes (external SVGA)
Display - light source	LCD - Sidelit	■	LCD - Sidelit	<b>Active matrix</b>	
Display - size (diag)	9.5 inch	■	9.5 inch	10.4 inch	Yes (external SVGA)
Display - contrast ratio	18 to 1	■	20 to 1	100 to 1	
180 degree display tilt	Yes (external SVGA)	■	Yes (external SVGA)	Yes (external SVGA)	Software: - Windows 3.1 - Asymetrix COMPEL™ (on screen multimedia presentations) - Asymetrix MediaBlitz! (library of media clips) - LapLink™ V (file transfer via cable or modem) - Delrina WinFax PRO (fax software)
Memory - std / max	All: 4 / 20 MB	70 ns	Additional video features for all: 1 MB DRAM video memory / Video controller is Western Digital WD90C24 / Accelerator / 16 bit AT bus / Simultaneous LCD & CRT / External VGA is SVGA (to 1024x768)		
Mem - sockets empty	All: 1 socket	(parity)	F n key functions to instantly change in any appl: ① Fuel gauge ④ Speaker volume ⑦ High intensity text ② Standby mode ⑤ LCD/ext CRT/both ⑧ Power mgmt mode ③ Suspend mode ⑥ Reverse video ⑨ Hibernation mode		
SIMM/ICs available	All: 2, 4, 8, 16 MB	ICs	F n key functions to instantly change in any appl: ① Fuel gauge ④ Speaker volume ⑦ High intensity text ② Standby mode ⑤ LCD/ext CRT/both ⑧ Power mgmt mode ③ Suspend mode ⑥ Reverse video ⑨ Hibernation mode		
Keyboard / # of keys	All: Full size alp/num/ 85		F n key functions to instantly change in any appl: ① Fuel gauge ④ Speaker volume ⑦ High intensity text ② Standby mode ⑤ LCD/ext CRT/both ⑧ Power mgmt mode ③ Suspend mode ⑥ Reverse video ⑨ Hibernation mode		
Keyboard slope	All: Yes (legs pop out)		F n key functions to instantly change in any appl: ① Fuel gauge ④ Speaker volume ⑦ High intensity text ② Standby mode ⑤ LCD/ext CRT/both ⑧ Power mgmt mode ③ Suspend mode ⑥ Reverse video ⑨ Hibernation mode		
Mouse/pointing	All: <b>TrackPoint II</b>		F n key functions to instantly change in any appl: ① Fuel gauge ④ Speaker volume ⑦ High intensity text ② Standby mode ⑤ LCD/ext CRT/both ⑧ Power mgmt mode ③ Suspend mode ⑥ Reverse video ⑨ Hibernation mode		
Ext keyboard support	All: Yes (with option cable)		F n key functions to instantly change in any appl: ① Fuel gauge ④ Speaker volume ⑦ High intensity text ② Standby mode ⑤ LCD/ext CRT/both ⑧ Power mgmt mode ③ Suspend mode ⑥ Reverse video ⑨ Hibernation mode		
Dimensions	11.7 x 8.3 x 1.7"		11.7 x 8.3 x 2.0"	11.7 x 8.3 x 2.1"	Software: - Windows 3.1 - Asymetrix COMPEL™ (on screen multimedia presentations) - Asymetrix MediaBlitz! (library of media clips) - LapLink™ V (file transfer via cable or modem) - Delrina WinFax PRO (fax software)
Cubic inches	165 inches		194 inches	204 inches	
Carrying case	Blk nylon (option)		Blk nylon (option)	Blk nylon (option)	Software: - Windows 3.1 - Asymetrix COMPEL™ (on screen multimedia presentations) - Asymetrix MediaBlitz! (library of media clips) - LapLink™ V (file transfer via cable or modem) - Delrina WinFax PRO (fax software)
Color	Black		Black	Black	
Weight (with battery)	5.5 pounds		6.2 pounds	6.6 pounds	Software: - Windows 3.1 - Asymetrix COMPEL™ (on screen multimedia presentations) - Asymetrix MediaBlitz! (library of media clips) - LapLink™ V (file transfer via cable or modem) - Delrina WinFax PRO (fax software)
Battery - type	Nickel hydride (smart)		Nickel hydride (smart)	Nickel hydride (smart)	
Batt - life (per battery)	5.3 to 12 hours		3.5 to 8 hours	5.1 to 12 hours	Software: - Windows 3.1 - Asymetrix COMPEL™ (on screen multimedia presentations) - Asymetrix MediaBlitz! (library of media clips) - LapLink™ V (file transfer via cable or modem) - Delrina WinFax PRO (fax software)
Charge time - on / off	1.5 hrs / 1.5 hrs		2.0 hrs / 1.5 hrs	1.5 hrs / 1.5 hrs	
Architecture (ext port)	All: AT bus (with external port)		Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ to insert TV Tuner (for on screen TV and VCR playback), or ④ to add other third party options.		
Docking Station	All: Yes (Dock I and II below)		Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ to insert TV Tuner (for on screen TV and VCR playback), or ④ to add other third party options.		
Port replicator	All: 2 types (below)		Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ to insert TV Tuner (for on screen TV and VCR playback), or ④ to add other third party options.		
PCMCIA 2.01 slots	All: <b>2 Type I or 2 Type II or 1 Type III</b>		Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ to insert TV Tuner (for on screen TV and VCR playback), or ④ to add other third party options.		
Serial / parallel ports	All: Yes (one 9 pin) / Enhanced Parallel Port (EPP) with 2 MB/sec transfer speed (non-DMA)		Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ to insert TV Tuner (for on screen TV and VCR playback), or ④ to add other third party options.		
Other features	All: BIOS/Easy Set up/Diagnostics in FLASH EEPROM / APM-aware BIOS / Hibernation mode		Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ to insert TV Tuner (for on screen TV and VCR playback), or ④ to add other third party options.		
Audio support	All: 16 bit audio chip on planar with Mwave audio codec / Internal high fidelity speaker		Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ to insert TV Tuner (for on screen TV and VCR playback), or ④ to add other third party options.		
Audio in/out jacks	All: Input jack supports microphone / Output jack supports headphone or stereo speakers		Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ to insert TV Tuner (for on screen TV and VCR playback), or ④ to add other third party options.		
Security	All: Hardware security loop / Power-on password / Supervisor password (privileged access password) for hardware config changes / Hard disk password (HDP) allows use of disk		Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ to insert TV Tuner (for on screen TV and VCR playback), or ④ to add other third party options.		
Preinstalled software	DOS 6.1, PRODIGY®	DOS 6.1, PRODIGY	DOS 6.1, PRODIGY	DOS 6.1, Windows™ 3.1, PenDOS™ 2.2,	
Warranty	3 year - carry in or EasyServ (opt onsite)	3 year - carry in or EasyServ (opt onsite)	3 year - carry in or EasyServ (opt onsite)	Windows for Pen, PRODIGY, Online info, demo	

The 700/720 family hard disks, batteries, and docking station are NOT compatible with 750. The 700/720 memory IS compatible with 750

Dock I (Docking Station) \$685	750 MONOCHROME	FEATURES OF ALL 750 FAMILY
SCSI-1 controller; two stereo speakers; One full-size 16 bit AT bus slot; 6.0 pounds; One bay (slim high 1") for 3.5" or 5.25" devices Can house removable disk from 360/750/755; Replication of ports on back of 360/750/755; Additional ports: SCSI, audio, speaker, video in, diskette, headphone jack; handle/palm rest;	Upgradeable to ① monochrome pen enabled screen (same as 750P), or ② 10.4" TFT color	<b>3 year international warranty</b> <b>16 bit audio chip on planar</b> (Mwave™) Headphone (out)/microphone (in) audio jacks <b>Removable and upgradeable hard disks</b> <b>Removable diskette drive</b> <b>Pressure activated TrackPoint II</b> Std intelligent battery with built in processor for accurate monitoring on screen Discharge battery via mouse click Quick Charger holds 2 batt; discharge button Non-disruptive battery exchange Standby / suspend / hibernation modes Hibernation mode saves memory to the hard disk and shuts system off Selectable boot US EPA Energy Star compliant Personalized nameplate in molded indentation Coupon book with \$4,000 in savings <b>IBM or dealer warranty/service</b> <b>30 day money back guarantee</b> <b>24 hour / 7 day fax support</b> <b>24 hour / 7 day bulletin board support</b> <b>24 hour / 7 day telephone support</b>
<b>Dock II (Docking Station) \$719</b> SCSI-2 Fast controller; two stereo speakers; Two full-size 16 bit AT bus slots; 17.6 pounds; Two 5.25" bays (1" high (SL) and 1.5" high (HH)); Can house removable disk from 360/750/755; Two PCMCIA slots (Type II and III); Many ports including audio, diskette, SCSI; Plug and Play ready	<b>750Cs DUAL SCAN COLOR</b> Dual scan passive matrix color screen	
<b>Port Replicator Model I \$299</b> 2 Type I or 2 Type II or 1 Type III PCMCIA slots Provides cable management because all the cables attach to Replicator, not the ThinkPad Replication of Ports: mouse, keyboard, SVGA, parallel port, serial, diskette port, DC power	<b>750C ACTIVE MATRIX COLOR</b> Largest 10.4" active matrix color screen	
<b>Port Replicator Model II \$109</b> Same as Model I except no PCMCIA slots	<b>750P CONVERTIBLE PEN</b> Same display as the 750 monochrome. Can be used in normal upright position or folded down into a position suitable for writing via the standard untethered stylus.	
	<b>Cellular Digital Packet Data (CDPD) Mobile Communications Module</b> Provides transmission of analog and digital data using a cellular telephone. Supported on 750, 750Cs, 750C (not 750P). High speed 14.4 bps data/fax modem, AMPS cellular, and CDPD transceiver; wire or wireless; available April 1994; \$1,999	
	Many other options available from IBM	

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back within 4 business days (no shipping charges, most shipping is overnight). ■ = Upgradeable; ○ = Removable; ↘ = Price decrease effective October 17, 1994

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No warranties are expressed or implied in this summary  
(750THINK) Compiled by Roger Dodson, IBM. October 1994

# IBM ThinkPad 755 - withdrawn

IBM® ThinkPad®:	≧ 755Cs dual scan color			≧ 755C TFT color			≧ Traveling Multimedia preconfigured system						
Processor type	<b>80486 DX2</b> <input type="checkbox"/> to DX4			<b>IntelDX4</b>			<b>80486 DX2</b> <input type="checkbox"/> to DX4			<b>IntelDX4</b>			A preconfigured, multimedia <b>755C</b> ; Available June 94; withdrawn Dec 95; Part #2337289 \$6,399
Processor speed	50/25 MHz 3.3 volt			75/25 MHz 3.3 volt			50/25 MHz 3.3 volt			75/25 MHz 3.3 volt			
Memory cache	8 KB internal (no L2)			16 KB internal (no L2)			8 KB internal (no L2)			16 KB internal (no L2)			Included with the IBM Traveling Multimedia:
Coprocessor socket	N/A (std in 486DX2)			N/A (std in 486DX4)			N/A (std in 486DX2)			N/A (std in 486DX4)			
Removable diskette	3.5" 1.44 MB <input type="checkbox"/>			3.5" 1.44 MB <input type="checkbox"/>			3.5" 1.44 MB <input type="checkbox"/>			3.5" 1.44 MB <input type="checkbox"/>			Hardware:
Price (retail USD)	\$3,399	\$3,899	\$4,299	\$3,899	\$4,399	\$4,799	\$2,799	\$3,099	\$3,449	\$3,399	\$3,699	\$3,999	
Type - model	all 9545			E0C E0E E0G			F0C F0E F0G			L0C L0E L0G			- 755C Model L0G - DX4 75/25 with all features listed on left - 540 MB removable hard disk - 8 MB memory (4 MB std + 4 MB DIMM on Memory Adapter) - 14.4 Data/Fax modem (PCMCIA) - Dock I (Docking Station) - CD-ROM/XA - double speed and Kodak Photo CD multisession - Dock I Carrying Case - Interlink® ProPoint™
Removable disk - size	170 <input type="checkbox"/> 340 <input type="checkbox"/> 540 <input type="checkbox"/>			170 <input type="checkbox"/> 340 <input type="checkbox"/> 540 <input type="checkbox"/>			170 <input type="checkbox"/> 340 <input type="checkbox"/> 540 <input type="checkbox"/>			170 <input type="checkbox"/> 340 <input type="checkbox"/> 540 <input type="checkbox"/>			
Hard disk - speed ms	15 <input type="checkbox"/> 14 <input type="checkbox"/> 14 <input type="checkbox"/>			15 <input type="checkbox"/> 14 <input type="checkbox"/> 14 <input type="checkbox"/>			15 <input type="checkbox"/> 14 <input type="checkbox"/> 14 <input type="checkbox"/>			15 <input type="checkbox"/> 14 <input type="checkbox"/> 14 <input type="checkbox"/>			Software - same as 755C plus:
Avail / withdrawn date	Jun 94 / May 95			Jun 94 / May 95			Jun 94 / Dec 95			Jun 94 / Dec 95			
Display - type	<b>VGA color</b>						<b>VGA color</b>						- Asymetrix® COMPEL™ - Asymetrix MediaBlitz! (library of media clips) - LapLink™ V - Picture Factory™ - TalkWorks™ - Sound Effects Library - ClickArt™ 2000
Display - colors	256 colors 640x480 (palette of 4096 colors)						256 colors 640x480 (palette of 262,144 colors)						
Display - technology	STN - passive matrix						<b>TFT - active matrix</b>						
Display - light source	LCD - Sidelit						LCD - Backlit						
Display - size (diag)	9.5 inch <b>Dual scan</b>						10.4 inch						
Display - contrast ratio	20 to 1						100 to 1						
Graphics - controller	All: WD90C24A or WD90C24A2 with 1 MB DRAM / Graphics WinMarks 4.0 = 4.3												
Graphics - vendor	All: Western Digital / External SVGA to 1024 x 768 w/ 256 colors												
Graph - arch/data path	All: VL-Bus / 32 bit VESA local bus / Simultaneous LCD and CRT / 180 degree tilt												
Memory - std / max	All: 4 / 36 MB 70 ns <i>Memory upgraded via ① 1 open socket for IC memory card for 20 MB max or ② new DIMM technology for max of 36 MB with 4 or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.</i>												
Mem - sockets empty	All: 1 socket (parity)												
Mem-options available	All: 2, 4, 8, 16, 32 MB ICs or 4, 16 MB DIMMs that works on optional Memory Module Adapter												
Keyboard / # of keys	All: Full size alp/num/ 85 Fn + F2 = Fuel gauge Fn + F7 = Ext display/LCD												
Fn key functions	All: 8 (in any appl) Fn + F3 = Standby Fn + F8, F9, F10 = (reserved)												
Keyboard slope	All: Yes (legs pop out) Fn + F4 = Suspend Fn + F11 = Power mgmt												
Mouse/pointing	All: <b>TrackPoint II™</b> Fn + F5 = Audio decrease Fn + F12 = Hibernation mode												
Ext keyboard support	All: Yes (with option cable) Fn + F6 = Audio increase												
Dimensions	All: 11.7 x 8.3 x 2.0" (194 cubic inches) <i>Easy-Setup is entered by holding F1 when turning on.</i>												
Color	All: Black												
Weight (with battery)	6.1 pounds						6.4 pounds						Intelligent battery with a processor to allow accurate monitoring of battery condition and accurate fuel gauge.
Battery - type	Nickel hydride (smart)						Nickel hydride (smart)						
Batt - life (per battery)	4 to 8 hours						3.1 to 8 hours						
Charge time - on / off	2 hrs / 1.5 hrs						2.0 hrs / 1.5 hrs						
Architecture	All: AT bus (ISA) <i>Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ to insert TV Tuner (for on screen TV and VCR playback), or ④ to add other third party options.</i>												
Docking Station	All: <b>Yes</b> (Dock I and II below)												
Port replicator	All: <b>Yes</b> (2 types below)												
PCMCIA™ 2.1 slots	All: <b>2 Type I or 2 Type II or 1 Type III</b>												
Serial / parallel ports	All: Yes (one 9 pin; 16550A) / Enhanced Parallel Port (EPP); non-DMA												
Other features	All: APM-aware BIOS / Hibernation mode / Wallmount A/C adapter (40 watts) / Selectable boot												
Audio support	All: 16 bit audio chip on planar / Crystal Semiconductor CS4248 / Internal speaker and microphone												
Audio in/out jacks	All: Input jack supports microphone / Output jack supports headphone or stereo speakers												
Security	All: Power-on password / Hard disk password / Supervisor password (for hardware config changes) / Hardware security loop / PCMCIA card lock / (Security Base optional)												
Preinstalled software	All: IBM DOS 6.3, Windows 3.1, Demo, and 8 applications: ① Lotus® cc:Mail, e-mail for Advantix® network, ② Lotus Organizer 1.12, ③ Lotus ScreenCam 1.0, ④ Official Airline Guide Flight Disk® 1.0, ⑤ Triton CoSessions™ Host, ⑥ PRODIGY®, ⑦ America Online™, ⑧ SofNet FaxWorks™ 3.0												
Warranty	All: <b>3 year</b> - carry in or EasyServ (opt onsite \$40 yr) <i>The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure; \$135) to the Port Replicator Model I and II and Dock I.</i>												

<p><b>Dock I (Docking Station)</b> \$685</p> <p>SCSI-1 controller; two stereo speakers; One full-size 16 bit AT bus slot; 6.0 pounds; One bay (slim high 1") for 3.5" or 5.25" devices; Can house removable disk from 360/750/755; Replication of ports on back of 360/750/755; Additional ports: SCSI, audio, speaker, video in, diskette, headphone jack; handle/palm rest;</p>	<p>The ThinkPad 755 family supports all of the options of the ThinkPad 750 family.</p> <p>Compatible in 360, 750, and 755 family:</p> <ul style="list-style-type: none"> <li>- Hard disks (170, 250, 340, 540, 810 MB)</li> <li>- Batteries (see below)</li> <li>- Dock I and Dock II</li> <li>- Port Replicator I</li> <li>- Port Replicator II</li> <li>- CDPD Mobile Module (not pen models)</li> <li>- Diskette drive</li> <li>- AC Adapter</li> <li>- Quick Charger</li> </ul> <p>ThinkPad IC memory for 700, 720, 750, and 755 are all compatible.</p> <p>The 700 and 720 family hard disks, batteries, and docking station are NOT compatible with 750 or 755 family.</p> <p>Battery compatibility:</p> <table border="1"> <tr> <td></td> <td>360</td> <td>750</td> <td>755</td> </tr> <tr> <td>84G2392 360 NiMH battery</td> <td>Y</td> <td>N</td> <td>N</td> </tr> <tr> <td>66G2846 750 NiMH battery</td> <td>Y</td> <td>Y</td> <td>Y</td> </tr> </table> <p>Y = battery supported; N = not supported</p> <p>Winstone 94 for 755C DX4 = 37.8</p>		360	750	755	84G2392 360 NiMH battery	Y	N	N	66G2846 750 NiMH battery	Y	Y	Y	<p><b>Cellular Digital Packet Data (CDPD) Mobile Communications Module</b> \$1,999</p> <p>Provides transmission of analog and digital data using a cellular telephone. Supported on all 360/750/755 (except 750P). 14.4 bps data/fax modem, AMPS cellular, and CDPD transceiver; wire or wireless.</p>
	360	750	755											
84G2392 360 NiMH battery	Y	N	N											
66G2846 750 NiMH battery	Y	Y	Y											
<p><b>Dock II (Docking Station)</b> \$719</p> <p>SCSI-2 Fast controller; two stereo speakers; Two full-size 16 bit AT bus slots; 17.6 pounds; Two 5.25" bays (1" high (SL) and 1.5" high HH); Two PCMCIA slots (Type II and III); Many ports including audio, diskette, SCSI; Plug and Play ready</p>	<p><b>Port Replicator Model I</b> \$299</p> <p>2 Type I or 2 Type II or 1 Type III PCMCIA slots Provides cable management because all the cables attach to Replicator, not the ThinkPad</p> <p>Replication of Ports: mouse, keyboard, SVGA, parallel port, serial, diskette port, DC power</p>	<p><b>Port Replicator Model II</b> \$109</p> <p>Same as Model I except <i>no</i> PCMCIA slots</p>	<p><b>FEATURES OF ALL 750 and 755 FAMILY</b></p> <p>Discharge battery via mouse click Quick Charger holds 2 batt; discharge button Battery life indicator Non-disruptive battery exchange Standby / suspend / hibernation modes EasyPlaying (PC Card Director™) preinstalled and included on Utility Diskette (755 only) US EPA Energy Star compliant Personalized nameplate in molded indentation <b>International travelers warranty</b> <b>IBM or dealer warranty/service</b> <b>30 day money back guarantee</b> <b>24 hour / 7 day fax support</b> <b>24 hour / 7 day bulletin board support</b> <b>24 hour / 7 day telephone support</b></p>											

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for \$99.

All trademarks are the property of their respective owners  
No warranties are expressed or implied in this summary  
≧ Withdrawn from marketing

= Upgradeable     = Removable    ✦ Price decrease effective May 11, 1995    (755THINK) Compiled by Roger Dodson, IBM. December 1995

# IBM ThinkPad 755CSE / CE - withdrawn

<b>IBM® ThinkPad®:</b>	≈< <b>755CSE</b> dual scan color	≈< <b>755CE</b> TFT color	<b>ThinkPad 755CSE / CE strengths:</b> ⇨ <b>DSP with audio, data/fax modem, telephony</b> ⇨ <b>Infrared communication</b> ⇨ <b>Color: 10.4 dual scan or 10.4 Black Matrix TFT</b> ⇨ <b>Removable disk and diskette</b> ⇨ <b>Liftable keyboard and TrackPoint III</b> ⇨ <b>Upgrade to Pentium with L2 cache</b>			
Processor type	<b>IntelDX4ä</b> / no L2 cache					
Processor speed	<b>100/33 MHz</b> / 3.3 volt					
Processor / L2 upgrade	Pentium 75/50 MHz which includes L2 cache of 256 KB / write-through / direct mapped / 12 ns / soldered					
Removable diskette	Internal 3.5" 1.44 MB ○ / supports internal 2.88 MB diskette					
Removable CD-ROM	Supports PCMCIA Cartridge, TV Tuner, or CDPD in diskette bay Not supported (Diskette bay is called UltraBayä)					
Price (retail USD)	\$ 3,499 ↘	\$ 3,849 ↘	\$ 4,299 ↘	\$ 4,299 ↘	\$ 4,649 ↘	\$ 5,099 ↘
Type - model	9545-6BC	9545-6BD	9545-6BE	9545-7BC	9545-7BD	9545-7BE
Removable disk - size	<b>340 MB</b> ▣	<b>540 MB</b> ▣	<b>810 MB</b>	<b>340 MB</b> ▣	<b>540 MB</b> ▣	<b>810 MB</b>
Removable disk - spd	14 ms ○	14 ms ○	14 ms ○	14 ms ○	14 ms ○	14 ms ○
Available date	Nov 1994	Nov 1994	Nov 1994	Oct 1994	Oct 1994	Oct 1994
Display - type	<b>VGA color</b> / 640 x 480		<b>VGA color</b> / 640 x 480			
Display - colors	256 simultaneous colors		<b>65,536 simultaneous colors</b>			
Display - technology	<b>Dual scan</b>		<b>Black Matrix TFT - active matrix</b>			
Display - diagonal size	<b>10.4 inch</b> / 20 to 1 contrast ratio		<b>10.4 inch</b> / 100 to 1 contrast ratio			
Graphics - controller	WD90C24A2 with 1 MB DRAM					
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)					
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt					
Memory - std / max	8 MB / 40 MB 70 ns / <b>parity</b> / 5 volt		Memory upgraded via			
Mem - sockets empty	1 socket		① 1 open socket for IC memory card for 20 MB max or			
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter		② new DIMM technology for max of 40 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.			
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)					
Keyboard slope	Yes (legs pop out)					
Mouse/pointing	<b>TrackPoint III™</b>					
Ext keyboard support	Yes (with option cable)					
Dimensions	11.7 x 8.3 x 1.96" (190 cubic inches)		<b>ALL 755CSE / CE MODELS</b>  <b>Liftable (pop-up) keyboard to access and remove diskette drive, disk, battery, and memory</b>			
Color	Black					
Weight (with battery)	6.4 pounds					
Battery - type	Nickel hydride (NiMH) / intelligent		Intelligent battery with a processor to allow accurate monitoring of battery condition and accurate fuel gauge.			
Battery - life	3.3 to 10 hours					
Charge time - on / off	1.7 hrs / 1.2 hrs					
Architecture	AT bus (ISA)					
Docking Station	Dock I and II					
Port replicator	Port Replicator I and II					
PCMCIA™ 2.1 slots	<b>2 Type I or 2 Type II or 1 Type III</b>					
Serial / parallel ports	One 9 pin; 16550A / Enhanced Parallel Port (EPP and ECP)					
Other features	APM-aware BIOS / Wallmount A/C adapter (40 watts) / Selectable boot					
DSP function	<b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b>					
Data/fax modem	<b>Data/fax modem function via DSP</b>					
Audio support	<b>16 bit audio chip on planar with Mwave DSP</b>					
Audio in/out jacks	Input jack / output jack supports					
Telephone	Telephone / answering machine / full duplex speakerphone					
Infrared ports	<b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>					
Security	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock					
Preinstalled software	IBM DOS 6.3, Windows™ 3.11, OS/2 Warp 3.0, and all apps listed to right:					
Warranty	<b>3 year</b> - carry in or EasyServ (optional onsite \$40 yr)					

- Integrated Mwave™ DSP provides:
- Data modem function**
    - V.22bis (2400 bps)
    - V.32 (9600 bps)
    - V.32bis (14.4 Kbps)
  - Fax modem function**
    - G3 fax send/receive (14.4 Kbps)
  - Audio function**
    - Stereo waveform record and playback
    - Qsound™ support (3-D effect)
    - 32 voice MIDI wave table synthesizer
    - SoundBlaster™ support
    - Text to speech (via Monologue)
  - Telephone function**
    - Full telephone (can use opt headset)
    - Telephone answering machine
    - Full duplex speakerphone
- ⇨ **Software upgradeable** (28.8 and DSVD)
- PREINSTALLED APPLICATIONS**
- IBM DOS 6.3
  - Windows 3.11
  - OS/2 Warp 3.0 (dual boot) w/ BonusPak
  - CompuServe Info Mgr™, IBM Works
  - Internet Connection, Person to Person
  - HyperACCESS Lite™, Video IN
  - FaxWorks™, MM Viewer™
  - IBM PC Card Director™ for PCMCIA
  - IBM ThinkPad Demo (except 340 MB mod)
  - Online Users Guide
  - ThinkPad features
1. Lotus® cc:Mail™, e-mail for Advantis® network
  2. Lotus Organizer™ 1.12
  3. Lotus ScreenCam™ 1.0
  4. Triton CoSessionä Host
  5. PRODIGY®; 6. America Online®
  7. SofNet FaxWorks™ Voice™ 3.0
  8. Video For Windows™ 1.1 Runtime
  9. Monologue (text to speech)
  10. Puma TranXit™ (infrared function)
  11. Taxi™
  12. AlphaNet™ FollowFax™
  13. SEDONA™ REPRINT™
  14. COMPEL™ Personal Edition
  15. Audiofile® TalkWorks™
  16. ReutersSM Money® Network
  17. Mwave Sampler (CD)

The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure) to the Port Replicator Model I and II and Dock I and II.

Diskette drive can be removed (from UltraBay™)

- ① to reduce weight
- ② to insert cellular modem (CDPD)
- ③ to insert TV Tuner (for on screen TV and VCR playback)
- ④ to insert PCMCIA Cartridge (Type I, II, or III)
- ⑤ to insert 2.88 MB diskette
- ⑥ to add other third party options

Options for 755CSE / CE:

- NiMH Battery Pack II 85G1513
- 760 NiMH Battery (black) 41H9720
- TV Tuner (CE only) 66G3689
- FDD External Attachment Kit 66G3618
- Memory Module Adapter 84G2151
- 4 MB SO DIMM parity 92G7253
- 8 MB SO DIMM parity 92G7255
- 16 MB SO DIMM parity 92G7257

Compatible in all ThinkPad 360 family, 750 family, 755 family:

- Disks: 170 MB IDE 66G2847/9
- 250 MB IDE 84G2391
- 340 MB IDE 66G2849
- 540 MB IDE 84G2150
- 810 MB IDE 84G8250
- Dock I (1 slot / 1 bay) 3545001
- Dock II (2 slot / 2 bay) 3546001
- Port Replicator I (w/ PCMCIA) 66G3510
- Port Replicator II 66G3520
- 1.44 MB diskette std in newer
- 2.88 MB diskette 66G0108

Options for 755CSE / CE:

- PCMCIA Cartridge 84G1301
- **Pentium/L2 upgrade 85G8609**

ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible

**FEATURES OF 755CSE / CE MODELS**

- Discharge battery via mouse click
- Battery life indicator
- Non-disruptive battery exchange
- Standby, suspend, and hibernation modes
- US EPA Energy Star compliant
- Personalized nameplate in molded indentation
- Personalization screen at startup
- SelectaSystem™ capability to select operating system choice

**3 year warranty**  
**International Warranty Service**  
**24 hour / 7 day telephone, bulletin board, fax, and electronic support**  
**IBM or dealer warranty/service**  
**Online Housecall (remote diagnostics)**  
**30 day money back guarantee**

≈< Withdrawn from marketing effective December 1995

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for \$99.

▣ = Upgradeable ○ = Removable ↘. Price decrease effective June 20, 1995

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 (755E) Compiled by Roger Dodson, IBM. December 1995

# IBM ThinkPad 755CX - withdrawn

<b>IBM® ThinkPad®:</b>	≈ <b>755CX</b> No DSP - 640 x 480	≈ <b>755CX</b> DSP - 800 x 600	<b>Same as ThinkPad 755CE except includes:</b>		
Processor type	<b>Pentium® 75/50 MHz</b>		▷ Pentium 75/50 MHz ▷ 256 KB L2 cache ▷ SVGA 800 x 600 LCD (on some models) ▷ Non-parity memory ▷ Lithium ion battery (on two models) ▷ DOS 7.0 (instead of DOS 6.3) and Mind Path Pro		
Coprocessor socket	N/A (standard in Pentium)				
L2 cache	256 KB / write-through / direct mapped / 12 ns / soldered				
Removable diskette	Internal 3.5" 1.44 MB ○ / supports internal 2.88 MB diskette				
Removable CD-ROM	Not supported (Diskette bay is called UltraBay™)				
Price (retail USD)	\$ 3,749 ↘	\$ 4,149 ↘	\$ 4,849	\$ 5,249	\$ 5,699
Type - model	9545-SBJ	9545-SBK	9545-HBD	9545-HBE	9545-HBL
Part number	84G6381	85G1669	85G8555	85G8524	85G7518
Removable disk - size	540 MB □ ○	810 MB □ ○	540 MB □	810 MB □	1.2 GB ○
Removable disk - spd	14 ms ○	14 ms ○	14 ms ○	14 ms ○	12 ms
Avail / withdrawn date	Jun 95 / Jun 96	Jun 95 / Jun 96	May 1995	May 1995	Sept 95 / Jun 96
Display - type	<b>VGA color / 640 x 480</b>		<b>SVGA color / 800 x 600</b>		
Display - colors	<b>65,536 simultaneous colors</b>				
Display - technology	<b>Black Matrix TFT - active matrix</b>				
Display - diagonal size	<b>10.4 inch / 100 to 1 contrast ratio</b>		<b>10.4 inch / 110 to 1 contrast ratio</b>		
Graphics - controller	WD90C24A (Rev C) with 1 MB DRAM				
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)				
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt				
Memory - std / max	8 MB / 40 MB 70 ns / non-parity / 5 volt		Memory upgraded via		
Mem - sockets empty	1 socket (parity memory supported but w/o parity)		① 1 open socket for IC memory card for 40 MB max or		
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter		② new DIMM technology for max of 40 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.		
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)				
Keyboard slope	Yes (legs pop out)				
Mouse/pointing	<b>TrackPoint III™</b>				
Ext keyboard support	Yes (with option cable)				
Dimensions	11.7 x 8.3 x 1.96" (190 cubic inches)				
Weight (with battery)	6.1 pounds				
Battery - type	<b>NiMH/intelligent</b>		<b>Lithium ion/intelligent</b>		
Battery - life	2.6 to 8 hours Supports optional		3 to 9 hours Supports optional		
Charge time - on / off	1.7 hrs / 1.2 hrs Li-Ion battery		2-2.5 hrs / 1.5-2 hrs NiMH battery		
Architecture	AT bus (ISA)		Intelligent battery with a processor to allow accurate monitoring of battery condition and accurate fuel gauge.		
Docking Station	Dock I and II				
Port replicator	Port Replicator I and II				
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III				
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot				
Video function	None		None		
DSP function	None (but can order DSP upgrade)		<b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b>		
Data/fax modem	None (but can order DSP upgrade)		<b>Data/fax modem function via DSP</b>		
Audio support	None (but can order DSP upgrade)		<b>16 bit audio chip on planar with Mwave DSP</b>		
Audio in/out jacks	None (but can order DSP upgrade)		<b>Internal speaker (with dial volume control) and internal microphone</b>		
Telephone	None (but can order DSP upgrade)		Input jack supports microphone / Output jack supports headphone/speakers		
Infrared ports	<b>Infrared ports (front and back) / IRDA compatible / up to 115 kbs</b>		Telephone (w/ opt headset) / answering machine / full duplex speakerphone		
Security	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / locking device keyhole (Kensington™ lock) / PCMCIA card lock				
Preinstalled software	IBM DOS 7.0, Windows™ 3.11, OS/2 Warp Version 3 and all apps listed to right:				
Warranty	<b>3 year</b> - ThinkPad EasyServ (optional Overnight Repair Service) or carry-in				
Upgradeable or Integrated Mwave™ DSP provides:	Compatible in all ThinkPad 360 family, 750 family, 755 family:				
① <b>Data modem function</b>	- Disks: 170 MB IDE 66G2847				
- V.22bis (2400 bps)	250 MB IDE 84G2391				
- V.32 (9600 bps)	340 MB IDE 66G2849				
- V.32bis (14.4 Kbps)	540 MB IDE 84G2150				
② <b>Fax modem function</b>	810 MB IDE 84G8250				
- G3 fax send/receive (14.4 Kbps)	1.2 GB IDE 85G8562				
③ <b>Audio function</b>	- Dock I (1 slot / 1 bay) 3545001				
- Stereo waveform record and playback	- Dock II (2 slot / 2 bay) 3546001				
- Qsound™ support (3-D effect)	- Port Replicator I (w/ PCMCIA) 66G3510				
- 32 voice MIDI wave table synthesizer	- Port Replicator II 66G3520				
- SoundBlaster™ support	- 1.44 MB diskette std in newer				
- Text to speech (via Monologue)	- 2.88 MB diskette 66G0108				
④ <b>Telephone function</b>	Options for 755CX:				
- Full telephone (can use opt headset)	- PCMCIA Cartridge 84G1301				
- Telephone answering machine	- FDD External Attachment Kit 66G3618				
- Full duplex speakerphone	- CDPD Communications Module 71G2560				
▷ <b>Software upgradeable</b> (to 28.8 and DSVD)	- Mwave DSP Upgrade 2420801				
Easy-Setup is entered by holding F1 when turning on.	ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible				
	ThinkPad 755CX supported batteries:				
	- NiMH Battery Pack II 85G1513				
	- Lithium Ion 85G8561				
	- Li-Ion Battery Pack II 29H9329				
	- Travel Quick Charger 85G1522 (for NiMH or Li-Ion)				
	<b>FEATURES OF 755CX MODELS</b>				
	Discharge battery via mouse click				
	Battery life indicator				
	Non-disruptive battery exchange				
	Standby, suspend, and hibernation modes				
	US EPA Energy Star compliant				
	Personalized nameplate in molded indentation				
	Personalization screen at startup				
	<b>3 year warranty</b>				
	<b>International Warranty Service</b>				
	<b>24 hour / 7 day telephone, bulletin board, fax, and electronic support</b>				
	<b>IBM or dealer warranty/service</b>				
	<b>Online Housecall (remote diagnostics)</b>				
	<b>30 day money back guarantee</b>				

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for \$99.  
 □ = Upgradeable ○ = Removable ↘ Price decrease effective November 7, 1995  
 ≈ = Withdrawn from marketing effective June 1996

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 No warranties are expressed or implied in this summary  
 (755CX) Compiled by Roger Dodson, IBM. June 1996

# IBM ThinkPad 755CV - withdrawn

<b>IBM® ThinkPad®:</b>	≈ <b>755CV</b>	≈ <b>755CV</b>	<b>Same as ThinkPad 755CE except includes:</b> ⇨ <b>Overhead projector LCD</b> ⇨ <b>Supports optional lithium ion battery</b> ⇨ <b>Mind Path® Remote Control IR55 F/X and software</b>	
	Projector LCD - DX4	Projector LCD - Pentium		
Processor type	<b>IntelDX4™ 100/33 MHz</b>	<b>Pentium® 75/50 MHz</b>	Integrated Mwave™ DSP provides: ① <b>Data modem function</b> - V.22bis (2400 bps) - V.32 (9600 bps) - V.32bis (14.4 Kbps) ② <b>Fax modem function</b> - G3 fax send/receive (14.4 Kbps) ③ <b>Audio function</b> - Stereo waveform record and playback - Qsound™ support (3-D effect) - 32 voice MIDI wave table synthesizer - SoundBlaster™ support - Text to speech (via Monologue) ④ <b>Telephone function</b> - Full telephone (can use opt headset) - Telephone answering machine - Full duplex speakerphone ⇨ <b>Software upgradeable</b> (to 28.8 & DSV2)	
L2 cache	None	256 KB write-through / 12ns		
Processor / L2 upgrade	to Pentium 75/50 MHz which includes 256 KB L2 cache	direct mapped / soldered 64 bit to L2 / 32 bit to mem		
Removable diskette	Internal 3.5" 1.44 MB m / supports internal 2.88 MB diskette	Supports PCMCIA Cartridge, TV Tuner, or CDPD in diskette bay		
Removable CD-ROM	Not supported (Diskette bay is called UltraBay™)			
Price				
Type-model / part	9545-8BJ	9545-EBK/9545EBK		9545-EBL /9545EBL
Removable disk - size	<b>540 MB</b> □	<b>810 MB</b> □		<b>1.2 GB</b> □
Removable disk - spd	14 ms ○	14 ms ○		12 ms ○
Avail / withdrawn date	May 95 / Jun 96	Sept 95 / Oct 96		Sept 95 / Oct 96
Display - type	<b>VGA color / 640 x 480</b>			
Display - colors	<b>65,536 simultaneous colors</b>			
Display - technology	<b>TFT - active matrix</b>			
Display - diagonal size	<b>10.4 inch / 100 to 1 contrast ratio</b>			
Display - projector	<b>Overhead projector LCD by removing back (includes Stand and Strap)</b>			
Graphics - controller	WD90C24A2 with 1 MB DRAM			
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)			
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt			
Memory - std / max	8 MB / 40 MB 70 ns / parity	non-parity	Memory upgraded via	
Mem - sockets empty	1 socket / 5 volt		① 1 open socket for IC mem-	
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter			
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)			
Keyboard slope	Yes (legs pop out)	Includes Mind Path™		
Mouse/pointing	<b>TrackPoint III™</b>	Remote Control		
Ext keyboard support	Yes (with option cable)	IR55 F/X		
Dimensions	11.7 x 8.3 x 1.96" (190 cubic inches)			
Color	Black			
Weight (with battery)	6.6 pounds			
Battery - type	Nickel hydride (NiMH) / intelligent			
Battery - life	3.3 to 10 hours	2.6 to 8 hours		
Charge time - on / off	1.7 hrs / 1.2 hrs	<b>all support optional Lithium Ion</b> (see below)		
Architecture	AT bus (ISA)			
Docking Station	Dock I and II			
Port replicator	Port Replicator I and II			
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III			
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)			
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot			
DSP function	<b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b>			
Data/fax modem	<b>Data/fax modem function via DSP</b>			
Audio support	<b>16 bit audio chip on planar with Mwave DSP</b>			
Audio in/out jacks	<b>Internal speaker (with dial volume control) and internal microphone</b>			
Telephone	Input jack / output jack			
Infrared ports	Telephone (w/ opt headset) / answering machine / full duplex speakerphone			
Security	<b>Infrared ports (front and back) / IRDA compatible / up to 115 kbs</b>			
Preinstalled software	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / locking device keyhole (Kensington™)			
Warranty	MicroSaver™ cable lock / PCMCIA card lock			
Ships standard w/ <b>Mind Path™ Remote Control</b>	IBM DOS 7.0, Windows™ 3.11, OS/2 Warp Ver 3, and all appls listed to right:			
- Wireless, hand held remote control	<b>3 year - ThinkPad EasyServ</b> (optional Overnight Repair Option) or carry-in			
- Uses infrared to communicate up to 45 feet away				
- Includes 5 buttons for instant effects				
- Permits full control of mouse				
Includes <b>Mind Path Presentation F/X software</b>				
- Allows 20 real-time special effects				
- Includes zoom, telestrator, spotlight, magnify, and others				
- Works with all Windows applications				
Easy-Setup by holding F1 when turning on				
ThinkPad 755CV supported batteries:				
- NiMH Battery Pack II	85G1513			
- Lithium Ion	85G8561			
- Li-Ion Battery Pack II (Pentium only)	29H9329			
ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible.				
Compatible in all ThinkPad 360 family, 750 family, 755 family:				
- Disks:	170 MB IDE	66G2847/9		
	250 MB IDE	84G2391		
	340 MB IDE	66G2849		
	540 MB IDE	84G2150		
	810 MB IDE	84G8250		
	1.2 GB IDE	85G8562		
- Dock I (1 slot / 1 bay)		3545001		
- Dock II (2 slot / 2 bay)		3546001		
- Port Replicator I (w/ PCMCIA)		66G3510		
- Port Replicator II		66G3520		
- 1.44 MB diskette	std in newer			
- 2.88 MB diskette		66G0108		
Options for 755CV:				
- PCMCIA Cartridge		84G1301		
- TV Tuner		66G3689		
- FDD External Attachment Kit		66G3618		
- <b>Pentium/L2 upgrade</b> (DX4 mod)		<b>85G8609</b>		
- Cooling Fan Kit (for overhead)		29H8000		
<b>FEATURES OF 755CV MODELS</b>				
Discharge battery via mouse click				
Battery life indicator				
Non-disruptive battery exchange				
Standby, suspend, and hibernation modes				
US EPA Energy Star compliant				
Personalized nameplate in molded indentation				
Personalization screen at startup				
<b>International Warranty Service</b>				
<b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet</b>				
<b>(http://www.pc.ibm.com) support</b>				
<b>IBM or dealer warranty/service</b>				
<b>Online Housecall (remote diagnostics)</b>				

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for \$99.

□ = Upgradeable ○ = Removable; ≈ = Withdrawn from marketing

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 (755CV) Compiled by Roger Dodson, IBM. October 1996



# IBM ThinkPad 755CDV - withdrawn

<b>IBM® ThinkPad®:</b>	≈ 755CDV	≈ 755CDV	<b>Same features as ThinkPad 755CD except includes:</b>	
	TFT color - projector LCD - DX4	TFT color - projector LCD - Pentium	◇ <b>Overhead projector LCD</b> ◇ <b>Supports optional lithium ion battery</b> ◇ <b>Mind Path™ Remote Control IR55 F/X</b>	
Processor type	<b>Intel®DX4™ 100/33 MHz</b>	<b>Pentium® 75/50 MHz</b>		
L2 cache	None	256 KB write-through / 12ns		
Processor / L2 upgrade	to Pentium 75/50 MHz which includes 256 KB L2 cache		direct mapped / soldered 64 bit to L2 / 32 bit to mem	
Removable diskette	Internal 3.5" 1.44 MB ○ / supports internal 2.88 MB diskette Supports PCMCIA Cartridge in diskette bay			
Removable CD-ROM	<b>5.25" CD-ROM ○ / double speed / multi-session and XA / front loaded</b>			
Price				
Type - model / part	9545-ABJ	9545-ABK	9545--GBK	9545-GBL
Removable disk - size	<b>540 MB / 14 ms</b>	<b>810 MB / 14</b>	<b>810 MB / 14 ms</b>	<b>1.2 GB / 12ms</b>
Avail / withdrawn date	June 95 / Jun 96	Jun95 / Jun96	Sept 95 / Oct 96	Sept 95 / Oct 96
Display - type	<b>VGA color / 640 x 480 / 65,536 simultaneous colors</b>			
Display - technology	<b>TFT - active matrix</b>			
Display - diagonal size	10.4 inch / 100 to 1 contrast ratio			
Display - projector	<b>Overhead projector LCD by removing back (includes Stand and Strap)</b>			
Graphics - controller	WD90C24A2 Rev D with 1 MB DRAM			
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)			
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt			
Memory - std / max	8 MB / 40 MB 70 ns / parity		non-parity	
Mem - sockets empty	1 socket / 5 volt			
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter		Memory upgraded via ① 1 open socket for IC memory card for 40 MB max or ② new DIMM technology for max of 36 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.	
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)			
Keyboard slope	Yes (legs pop out)		<b>Includes Mind</b>	
Mouse/pointing	<b>TrackPoint III™</b>		<b>Path Remote</b>	
Ext keyboard support	Yes (with option cable)		<b>Control IR55 F/X</b>	
Dimensions	11.7 x 8.3 x 2.2" (213 cubic inches)			
Color	Black			
Weight (with battery)	7.45 pounds			
Battery - type	Nickel hydride (NiMH) / smart		Nickel hydride (NiMH) / smart	
Battery - life	3 to 9 hours Supports opt		2.5 to 8 hours Supports opt	
Charge time - on / off	1.7 hrs / 1.2 hrs Lithium ion		1.7 hrs / 1.2 hrs Lithium ion	
Architecture	AT bus (ISA)		Easy-Setup is entered by holding F1 when turning on.	
Docking Station	Dock I and II			
Port replicator	Port Replicator I and II			
PCMCIA™ 2.1 slots	<b>2 Type I or 2 Type II or 1 Type III</b>			
Serial / parallel ports	One 9 pin; 16550A / One (IEEE P1284-A, EPP, ECP, bidirectional)			
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot			
Video function (below)	<b>Daughtercard with video acceleration, composite in/out, game port</b>			
DSP function	<b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b>			
Data/fax modem	<b>Data/fax modem function via DSP</b>			
Audio support	<b>16 bit audio chip on planar with Mwave DSP</b>			
Audio in/out jacks	<b>Internal stereo speakers .5w (w/ dial volume control) and int microphone</b>			
Telephone	Input jack / output jack			
Infrared ports	Telephone / answering machine / full duplex speakerphone <b>Infrared ports (front and back) / IRDA compatible / up to 115 kbs</b>			
Security	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / Locking device keyhole (Kensington™ Microsaver cable lock) / PCMCIA card lock			
Preinstalled software	IBM DOS 7.0, Windows™ 3.11, OS/2 Warp Version 3 and all apps listed to right:			
Warranty	<b>3 year - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in</b>			
Enhanced Video Card in 755CDV provides:	Compatible in all ThinkPad 360 family, 750 family, 755 family:			
- Acceleration of 'Video for Windows' a motion video with scaling and interpolation of image. Video may be scaled up to full screen without frame rate degradation.	- Disks: 170 MB IDE 66G2847/9 250 MB IDE 84G2391 340 MB IDE 66G2849 540 MB IDE 84G2150 810 MB IDE 84G8250 1.2 GB IDE 85G8562			
- Composite in and S-Video in for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay (view video on LCD like with a TV, VCR, or camcorder without capturing it to disk). So can hook up a TV or VCR and run it on the ThinkPad screen.	- Dock I (1 slot / 1 bay) 3545001 - Dock II (2 slot / 2 bay) 3546001 - Port Replicator I (w/ PCMCIA) 66G3510 - Port Replicator II 66G3520 - 2.88 MB diskette 66G0108			
- Composite out and S-Video out to TV meaning use a TV as if an external display (connect to video out port; NTSC or PAL); or record on a VCR the contents of the 755CD screen.	Options for 755CDV: - NiMH Battery Pack II 85G1513 - Lithium Ion battery 85G8561 - Li-Ion Batt Pack II (Pentium only) 29H9329 - CDPD Mobile Module 71G2560 - PCMCIA Cartridge 84G1301 - Pentium/L2 upgrade (DX4 mod) 29H8755 - Cooling Fan Kit (for overhead) 29H8000			
- Mini game port for MIDI or joystick (includes MIDI/joystick cable)	ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible.			
- Includes a video in and video out port (includes two video in/out cables)				
- Use software called Digital Video Producer a				
Integrated Mwave™ DSP provides:			To use diskette and CD-ROM simultaneously, need FDD External Kit and one of four docking solutions	
① <b>Data modem function</b>			Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, disk, battery, and memory	
- V.22bis (2400 bps)			Exceeds MPC2 standard	
- V.32 (9600 bps)				
- V.32bis (14.4 Kbps)				
② <b>Fax modem function</b>				
- G3 fax send/receive (14.4 Kbps)				
③ <b>Audio function</b>				
- Stereo waveform record and playback				
- Qsound™ support (3-D effect)				
- 32 voice MIDI wave table synthesizer				
- SoundBlaster™ support; Text to speech				
④ <b>Telephone function</b>				
- Full telephone (can use opt headset)				
- Telephone answering machine				
- Full duplex speakerphone				
◇ <b>Software upgradeable (to 28.8 &amp; DSVD)</b>				
<b>PREINSTALLED APPLICATIONS</b>				
- IBM DOS 7.0 <i>SelectaSystem™</i>				
- Windows 3.11				
- OS/2 Warp 3.0 (dual boot) w/ selected BonusPak				
- IBM PC Card Director™ for PCMCIA				
- IBM ThinkPad Demo				
- Online Users Guide				
- ThinkPad Features; Diskette Factory				
1. Lotus® cc:Mail™, e-mail for Global® network; 2. Lotus Organizer™ 1.12				
3. Lotus ScreenCam™ 1.0				
4. Triton CoSession™ Host				
5. PRODIGY®; 6. America Online®				
7. SofNet FaxWorks™ Voice™ 3.0				
8. Video For Windows™ 1.1 Runtime				
9. Monologue (text to speech)				
10. Puma TranXit™; 11. Taxi™				
12. AlphaNet™ FollowFax™				
13. REPRINT™; 14. COMPEL™ PE				
15. TalkWorks™; 16. ReutersSM Money® Net				
17. Asymetrix® Digital Video Producer™				
18. Mind Path™ Presentation F/X Pro				
19. Asymetrix 3D F/X				
20. CD-ROM Catalog/Sampler				

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for \$99.

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No warranties are expressed or implied in this summary (755CDV) Compiled by Roger Dodson, IBM. October 1996

□ = Upgradeable ○ = Removable; ≈ = Withdrawn from marketing





# IBM ThinkPad 760LD - withdrawn

<b>IBM® ThinkPad®:</b> <b>≈ 760LD</b> 10.4" TFT color - CD-ROM		<b>ThinkPad 760LD strengths:</b> ⇨ <b>Removable, 4 x speed, 5.25" CD-ROM</b> ⇨ <b>Automated tilt up keyboard / palm rest space</b> ⇨ <b>UltraBay: 2nd disk, 2nd battery, diskette</b> ⇨ <b>Two high speed infrared ports</b> ⇨ <b>Integrated audio / speakers / microphone</b> ⇨ <b>16.7 million simultaneous color LCD</b>	
Processor type <b>Pentium® 90/60 MHz (P54LM) / 64 bit to L2 cache / 32 bit to memory</b> Processor upgrade    to Pentium 120/60 MHz L2 cache    256 KB / write-through / direct mapped / 10 ns / synchronous / soldered Removable diskette    3.5" 1.44 MB ○ / use in UltraBay or attach externally to FDD attach port Removable CD-ROM <b>5.25" CD-ROM ○ / 4 x speed / multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI)</b>		Palette of 24 systems 9547-U3R (9547U3R) 9547-U3A (9547U3A) 9547-U3R (9547U3R) Blank Feb 96 / Oct 96	
Price Type - model (part)    9547-U31(9547U31)    9547-U3A (9547U3A) Preload (see side)    SelectaSystem    Windows 95 Avail / withdrawn date    Feb 96 / Oct 96    Feb 96 / Oct 96 Remv disk - size / ms <b>810 MB / 12 ms / EIDE ○ / PIO Mode 4</b>		The left bay (UltraBay™) supports: ① 2nd disk ② 2nd battery ③ std diskette drive ④ std CD-ROM ⑤ 2.88 MB diskette (option) ⑥ PCMCIA Cartridge (option) ⑦ IBM Wireless Modem ARDIS (option) ⑧ IBM Wireless Modem for Cellular/CDPD (option)	
Display - diagonal size <b>10.4 inch</b> Display - type <b>VGA color / 640 x 480 / 16.7 million simultaneous colors</b> Display - technology <b>Black Matrix TFT - active matrix / 100 to 1 contrast ratio</b>		<b>SELECTASYSTEM PRELOAD</b> - IBM DOS 7.0 - Windows 3.11 - OS/2 Warp 3.0 (dual boot) w/ selected BonusPak - IBM PC Card Director™ 3.0 - Online Users Guide - ThinkPad Features Program - Diskette Factory 1. Triton CoSession™ Host 2. PRODIGY® 3. SofNet FaxWorks™ 4. Video For Windows™ 1.1 Runtime 5. Puma TranXit™ 6. CompuServ for Windows 7. NetFinity for Windows and OS/2	
Graphics - controller    Tridentä CYBER9320 with 1 MB DRAM Graphics - external    External SVGA to 1024 x 768 w/ 256 colors up to 75 Hz Graph - arch/data path    VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt		<b>WINDOWS 95 PRELOAD</b> - Microsoft Windows 95 - Online User's Guide - ThinkPad Features Program - Diskette Factory 1. Triton CoSession™ Host 2. PRODIGY® 3. SofNet FaxWorks™ 4. Puma TranXit™ 5. CompuServ for Windows 9. NetFinity for Windows 95	
Memory - std / max <b>8 MB / 64 MB 70 ns / non-parity / 3.3 volt / fast page</b> Memory - upgrade    2 sockets for two JEDEC 88 pin EDO SO DIMMs of 8 or 16 MB (acts like fast page)		<b>Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery</b>  <b>Exceeds MPC2 standard</b>	
Keyboard / # of keys    Full size alp/num / 85 (8 Fn key functions) Keyboard slope <b>Automated tilt up keyboard (5.5 degrees)</b> Pointing / palm rest <b>TrackPoint III™ / integrated palm rest</b> Ext keyboard support    Yes (with option cable)			
Dimensions    11.7 x 8.3 x 1.96" (190 cubic inches) Weight (with CD-ROM) 7.11 pounds			
Battery - type    NiMH / intelligent <i>Optional</i> Battery - life (1 batt)    3 hours <i>Lithium Ion</i> Battery - life (2 batt)    6 hours Charge time - on / off    1.7 hrs / 1.2 hrs			
Architecture    ISA (EIDE, audio, PCMCIA, diskette, serial, parallel, ext expansion) VL-Bus 2.0 / 32 bit / 33 Mhz (graphics)			
Docking Station    Dock I and II Port replicator    Port Replicator I and II PCMCIA™ 2.1 slots    2 Type I or 2 Type II or 1 Type III Serial / parallel ports    One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) Other features    APM-aware BIOS / Universal adapter (40 watts) / Selectable boot			
Motion video accel    None MPEG decoder    None DSP function    None Data/fax modem    None Audio support <b>16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688</b> <b>Int stereo speakers / .5 watt / slide volume control / internal microphone</b> Input jack (3.5 mm) / Output jack (3.5 mm)			
Jacks Telephone    None Infrared ports <b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>			
Security    Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock			
Preinstalled software    Choice of two preload configurations (listed to right) Warranty <b>3 year - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in</b>			
<b>Differences between 760L/LD and 760C/CD:</b>		<b>Compatible in ThinkPad 760 family:</b>	
<b>760L/LD</b> Pentium 90/60 MHz All 10.4" TFT VGA 640 x 480 LCD 16.7 mil colors on LCD None None None None 18 voice FM synthesis NiMH battery Type is 9547	<b>760C/CD</b> Pentium 120/60 or 90/60 10.4" or 12.1" TFT SVGA 800 x 600 LCD 65,536 colors on LCD 760CD: Enh. Vid Card 760CD: MPEG decoder Mwave DSP 28.8 modem / DSVD 32 voice wavetable syn. Li-Ion battery Type is 9546	- Disks: (360/750/755 IDE disks not supported) 720 MB HDD II EIDE    12.5 mm 29H9383 810 MB HDD II EIDE    12.5 mm 29H9313 1.08 GB HDD II EIDE    12.5 mm 29H9319 1.2 GB HDD II (LD/CD only) 17 mm 29H9325 - Second HDD Adapter    29H9333 - Dock I (1 slot / 1 bay)    3545001 - Dock II (2 slot / 2 bay)    3546001 - Port Replicator I (w/ PCMCIA)    66G3510 - Port Replicator II    66G3520 - 2.88 MB diskette    66G0108 - PCMCIA Cartridge    84G1301 - <b>760 NiMH Battery (black)</b> <b>41H9720</b> - <b>Li-Ion Battery Pack II (gray)</b> <b>29H9329</b> - Travel Quick Charger    85G1522 - FDD External Attachment Kit    66G3618 - <b>Pentium 120/60 MHz upgrade</b> <b>29H9340</b> - Car Battery Adapter    49G2167 - ThinkPad AC Adapter (50 watts)    66G3541 - 8 MB SO DIMM 3.3v non-parity EDO    92G7315 - 16 MB SO DIMM 3.3v non-parity EDO    92G7316 - ThinkPad headset    85G1301	
All 760 systems support the NiMH or Li-Ion battery in both battery bay and UltraBay.  Maximum internal disk capacity on 760LD is 2.4 GB with two 1.2 GB disks.		Easy-Setup is entered by holding F1 when turning on.	
		<b>FEATURES OF 760 MODELS</b> Product Map; <b>LCD indicator panel</b> Plug and Play 1.0a Discharge battery via mouse click Non-disruptive battery exchange Standby, suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>	

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
 ○ = Removable

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 No warranties are expressed or implied in this summary  
 (760LD) Compiled by Roger Dodson, IBM. October 1996

# IBM ThinkPad 760C - withdrawn

<b>IBM® ThinkPad®:</b> ≈ 760C		<b>ThinkPad 760C strengths:</b>					
12.1" or 10.4" TFT color		<ul style="list-style-type: none"> <li>➤ Tilt up keyboard and palm rest space</li> <li>➤ Largest notebook display models -- 12.1 inch</li> <li>➤ UltraBay: 2nd disk, 2nd battery, diskette</li> <li>➤ Integrated 28.8 Kbps modem, audio, telephony</li> <li>➤ Two high speed infrared ports</li> </ul>					
Processor type	Pentium® (P54LM) / 64 bit to L2 cache / 32 bit to memory						
Processor speed	90/60 or 120/60 MHz (see below)						
Processor upgrade	to Pentium 120/60 MHz						
L2 cache	256 KB / write-through / direct mapped / 10 ns / synchronous / soldered						
Removable diskette	Internal 3.5" 1.44 MB ○ (in UltraBay)						
Removable CD-ROM	None (diskette bay is called UltraBay™) - cannot install an int CD-ROM						
Price	U21		U22		U27		
Type - model all 9546	U21	U2A	U22	U2B	U27	U2H	
Preload (see side)	SelectaSys	Win 95	SelectaSys	Win 95	SelectaSys	Win 95	
Pentium speed	90/60 MHz		90/60 MHz		120/60 MHz		
Remv disk - size / ms	720 MB / 13 ms / EIDE○		720 MB / 13 ms / EIDE○		720 MB / 13 ms / EIDE○		
Avail / withdrawn date	Oct 1995 / Oct 1996		Oct 1995 / Oct 1996		Nov 1995 / Oct 1996		
Display - diagonal size	12.1 inch		10.4 inch		12.1 inch		
Display - type	SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors						
Display - technology	Black Matrix TFT - active matrix / 100 to 1 contrast ratio						
Graphics - controller	Trident™ CYBER9320 with 1 MB DRAM						
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 75 Hz						
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt						
Memory - std / max	8 MB / 64 MB 70 ns / non-parity / 3.3 volt / fast page						
Mem - upgrade	2 sockets for two JEDEC 88 pin EDO SO DIMMs of 8 or 16 MB (acts like fast page)						
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)			<b>Liftable (pop-up) keyboard to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery</b>			
Keyboard slope	Automated tilt up keyboard (5.5 degrees)						
Pointing / palm rest	TrackPoint III™ / integrated palm rest						
Ext keyboard support	Yes (with option cable)						
Dimensions (cubic in)	10.4" models: 11.7 x 8.3 x 1.74" (169)		12.1" models: 11.7 x 8.3 x 1.92" (186)				
Weight (with battery)	10.4" models: 6.1 pounds		12.1" models: 6.8 pounds				
Battery - type	10.4" models: Lithium Ion / intelligent		12.1" models: Lithium Ion / intelligent				
Battery - life (1 batt)	10.4" models: 3.8 hours Opt		12.1" models: 3.5 hours Opt				
Battery - life (2 batt)	10.4" models: 7.6 hours NiMH		12.1" models: 7 hours NiMH				
Charge time - on / off	10.4" models: 2 to 3 hrs / 1.5 to 2.5 hrs		12.1" models: 2 to 3 hrs / 1.5 to 2.5 hrs				
Architecture	ISA (EIDE, audio, PCMCIA, diskette, serial, parallel, 240 pin ext expansion) VL-Bus 2.0 / 32 bit / 33 MHz (graphics)						
Docking Station	Dock I and II						
Port replicator	Port Replicator I and II						
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III						
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)						
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot						
Motion video accel	None						
MPEG decoder	None						
DSP function	<b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b>						
Data/fax modem	<b>Data/fax modem function via DSP</b> (v.34 to 28.8 Kbps) / Mwave 2.0						
Audio support	<b>16 bit audio chip on planar with Mwave DSP</b> <b>Int stereo speakers / .5 watt / slide volume control / internal microphone</b>						
Audio in/out jacks	Input jack (3.5 mm) / output jack (3.5 mm)						
Infrared ports	<b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>						
Telephone	Telephone / answering machine / full duplex speakerphone						
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock						
Preinstalled software	Choice of two preloaded configurations (listed to right)						
Warranty	<b>3 year - ThinkPad EasyServ only (optional Overnight Repair Option) or carry-in</b>						
<b>The left bay (UltraBay™) supports:</b> ① 2nd disk (requires Second HDD Adapter) ② 2nd battery ③ std diskette drive ④ 2.88 MB diskette drive (option) ⑤ PCMCIA Cartridge (option) ⑥ IBM Wireless Modem for ARDIS (option) ⑦ IBM Wireless Modem for Cellular/CDPD (option)			<b>Compatible in ThinkPad 760 family:</b> - Disks: (360/750/755 IDE disks not supported) 720 MB HDD II EIDE 12.5 mm 29H9383 1.08 GB HDD II EIDE 12.5 mm 29H9319 1.2 GB HDD II (CD only) 17 mm 29H9325 - Second HDD Adapter 29H9333 - Dock I (1 slot / 1 bay) 3545001 - Dock II (2 slot / 2 bay) 3546001 - Port Replicator I (w/ PCMCIA) 66G3510 - Port Replicator II 66G3520 - 1.44 MB diskette std in newer 66G0108 - 2.88 MB diskette 84G1301 - PCMCIA Cartridge 41H9720 - <b>760 NiMH Battery (black)</b> 29H9329 - <b>Li-Ion Battery Pack II (gray)</b> 85G1522 - Travel Quick Charger 66G3618 - FDD External Attachment Kit 29H9340 - <b>Pentium 120/60 MHz upgrade</b> 49G2167 - Car Battery Adapter 66G3541 - ThinkPad AC Adapter (50 watts) 92G7315 - 8 MB SO DIMM 3.3v non-parity EDO 92G7316 - 16 MB SO DIMM 3.3v non-parity EDO 85G1301 - ThinkPad headset				
Maximum internal disk capacity on 760C is 2.16 GB with two 1.08 GB disks.  Easy-Setup is entered by holding F1 when turning on.  Integrated Mwave™ DSP provides: ① <b>Data modem function</b> (to 28.8 Kbps) ② <b>Fax modem function</b> (to 14.4 Kbps) ③ <b>Audio function</b> (wave table synthesis) ④ <b>Telephone function</b> - Full duplex speakerphone ⑤ <b>Digital Simultaneous Voice and Data</b>			<b>SELECTASYSYSTEM PRELOAD</b> - IBM DOS 7.0 - Windows 3.11 - OS/2 Warp 3.0 (dual boot) with selected BonusPak - IBM PC Card Director™ 3.0 - Online Users Guide - ThinkPad Features Program - Diskette Factory 1. Lotus® cc:Mail™, e-mail for IBM Global® network; 2. Lotus Organizer™ 3. Lotus ScreenCam™ 4. Triton CoSession™ Host; 5. PRODIGY® 6. SofNet FaxWorks™ Voice™ 7. Video For Windows™ 1.1 Runtime 8. Puma TranXit™ 9. COMPEL™ PE 10. Mind Path Presentation F/X Pro 11. Internet for Windows 12. Compuserv for Win; 13. WIN32s Runtime 14. NetFinity for Windows and OS/2 - Complimentary Applications CD-ROM - Lotus SmartSuite 4.0 CD-ROM  <b>WINDOWS 95 PRELOAD</b> - Microsoft Windows 95 - Online User's Guide - ThinkPad Features Program - Diskette Factory 1. Lotus® cc:Mail™, e-mail for IBM Global® network; 2. Lotus Organizer™ 3. Lotus ScreenCam™ 4. Triton CoSession™ Host; 5. PRODIGY® 6. SofNet FaxWorks™ Voice™ 7. Puma TranXit™ 8. Compuserv for Windows 9. Mind Path Presentation F/X Pro 10. COMPEL Personal Edition - Lotus SmartSuite 96 CD-ROM  <b>FEATURES OF 760 MODELS</b> Product Map; <b>LCD indicator panel</b> LCD of remaining battery life LCD icons for two batteries Plug and Play 1.0a Discharge battery via mouse click Non-disruptive battery exchange Standby, suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>				

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
○ = Removable

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# IBM ThinkPad 760CD - withdrawn

<b>IBM® ThinkPad®:</b> ⚡ <b>760CD</b> 12.1" TFT color - CD-ROM - Enhanced Video - MPEG		<b>ThinkPad 760CD strengths over 760C:</b> ⇨ <b>Mobile multimedia - MPC2 compliant</b> ⇨ <b>Removable, 4 x speed, 5.25" CD-ROM</b> ⇨ <b>Video card (acceleration, composite in/out)</b> ⇨ <b>Joystick/MIDI port</b> ⇨ <b>MPEG-1 and MPEG-2 HHR decoder</b>			
Processor type Processor upgrade L2 cache Removable diskette Removable CD-ROM	<b>Pentium® 90/60 or 120/60 (P54LM)</b> / 64 bit to L2 cache / 32 bit to mem to Pentium 120/60 MHz from 90/60 256 KB / write-through / direct mapped / 10 ns / synchronous / soldered 3.5" 1.44 MB ○ / use in UltraBay or attach externally <b>5.25" CD-ROM ○ / 4 x speed / multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI)</b>				
Price Type - model Preload (see side) Pentium speed Avail / withdrawn date Remv disk - size / ms	9546-U11 SelectaSystem 90/60 Mhz Oct 95 / Oct 96 <b>1.2 GB</b> / 12 ms / EIDE ○ / supports two internal disks	9546-U1A Windows 95 90/60 Mhz Oct 95 / Oct 96	9546-U13 SelectaSystem 120/60 Mhz Jan 96 / Oct 96	9546-U1C Windows 95 120/60 Mhz Jan 96 / Oct 96	
Display - diagonal size Display - type Display - technology	<b>12.1 inch</b> <b>SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors</b> <b>Black Matrix TFT - active matrix</b> / 100 to 1 contrast ratio				
Graphics - controller Graphics - external Graph - arch/data path	Trident™ CYBER9320 with 1 MB DRAM External SVGA to 1024 x 768 w/ 256 colors up to 75 Hz VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt				
Memory - std / max Memory - upgrade	<b>8 MB</b> / 64 MB 70 ns / non-parity / 3.3 volt / fast page 2 sockets for two JEDEC 88 pin EDO SO DIMMs of 8 or 16 MB (acts like fast page)				
Keyboard / # of keys Keyboard slope Pointing / palm rest Ext keyboard support	Full size alp/num / 85 (8 Fn key functions) <b>Automated tilt up keyboard</b> (5.5 degrees) <b>TrackPoint III™</b> / integrated palm rest Yes (with option cable)			The left bay (UltraBay™) supports: ① 2nd disk; ② 2nd battery ③ std diskette drive; ④ CD-ROM ⑤ 2.88 MB diskette (option) ⑥ PCMCIA Cartridge (option) ⑦ IBM Wireless Modem ARDIS (option) ⑧ IBM Wireless Modem for Cellular/ CDPD (option)	
Dimensions Weight (with CD-ROM)	11.7 x 8.3 x 2.14" (208 cubic inches) 7.47 pounds				
Battery - type Battery - life (1 batt) Battery - life (2 batt) Charge time - on / off	Lithium Ion / intelligent 3.1 hours 6.2 hours 2 to 3 hrs / 1.5 to 2.5 hrs	<i>optional</i> <i>NiMH</i>	<b>Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery</b>		
Architecture Docking Station Port replicator PCMCIA™ 2.1 slots Serial / parallel ports Other features	ISA (EIDE, audio, PCMCIA, diskette, serial, parallel, ext expansion, MPEG) VL-Bus 2.0 / 32 bit / 33 Mhz (graphics, ACSII) Dock I and II Port Replicator I and II 2 Type I or 2 Type II or 1 Type III One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) APM-aware BIOS / Universal AC Adapter 3 prong (35 watts) / Selectable boot			Easy-Setup is entered by holding F1 when turning on.	
Motion video (below) MPEG decoder DSP function Data/fax modem Audio support	<b>Video acceleration / composite and S-Video in/out / game port</b> (ASCII V7325) <b>MPEG-1 &amp; MPEG-2 Half Horizontal Resolution (HHR) decoder</b> (MPEGCD1) <b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b> <b>Data/fax modem function via DSP</b> (v.34 to 28.8 Kbps) / Mwave 2.0 <b>16 bit audio chip on planar with Mwave DSP</b> <b>Int stereo speakers / .5 watt / slide volume control / internal microphone</b> Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)			Telephone / answering machine / full duplex speakerphone <b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>	
Jacks Telephone Infrared ports	Telephone / answering machine / full duplex speakerphone <b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>				
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock				
Preinstalled software Warranty	Choice of two preload configurations (listed to right) <b>3 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in				
Enhanced Video Card in 760CD provides: - <b>Acceleration</b> of Video for Windows™ and MPEG motion video with scaling and interpolation of image. Video may be scaled up to full screen without frame rate degradation. - <b>Composite in</b> and S-Video in for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay (view video on LCD like with a TV, VCR, or camcorder without capturing it to disk). - <b>Composite out</b> and S-Video out to TV meaning use a TV as if an external display (connect to video out port; NTSC or PAL); or record on VCR the screen of 760CD. - <b>Mini game port</b> for MIDI or joystick - Includes a video in and video out ports (includes two video in/out cables) - Use software called Digital Video Producer™ - <b>Plays back MPEG motion videos, CD-I movies, video CD's, and Karaoke MPEG video titles</b> (at 800 x 600)	Compatible in ThinkPad 760 family: - Disks: (360/750/755 IDE disks not supported) 720 MB HDD II EIDE    12.5 mm    29H9383 1.08 GB HDD II EIDE    12.5 mm    29H9319 1.2 GB HDD II (CD only) 17 mm    29H9325 - Second HDD Adapter    29H9333 - Dock I (1 slot / 1 bay)    3545001 - Dock II (2 slot / 2 bay)    3546001 - Port Replicator I (w/ PCMCIA)    66G3510 - Port Replicator II    66G3520 - 1.44 MB diskette    std in newer - 2.88 MB diskette    66G0108 - PCMCIA Cartridge    84G1301 - <b>760 NiMH Battery (black)</b> <b>41H9720</b> - <b>Li-Ion Battery Pack II (gray)</b> <b>29H9329</b> - Travel Quick Charger    85G1522 - FDD External Attachment Kit    66G3618 - <b>Pentium 120/60 MHz upgrade</b> <b>29H9340</b> - Car Battery Adapter    49G2167 - 8 MB SO DIMM 3.3v non-parity EDO    92G7315 - 16 MB SO DIMM 3.3v non-parity EDO    92G7316 - ThinkPad TrackPoint III Caps    39H1354 - ThinkPad headset    85G1301				
	Integrated Mwave™ DSP provides: ① <b>Data modem function</b> - V.22bis, V.32, V.32bis, v.34 (28.8 Kbps) ② <b>Fax modem function</b> - G3 fax send/receive (14.4 Kbps) ③ <b>Audio function</b> - Stereo waveform record and playback - Qsound support (3-D effect) - 32 voice MIDI wave table synthesizer - SoundBlaster™ support / text to speech - MPEG audio decode ④ <b>Telephone function</b> - Full telephone (can use opt headset) - Telephone answering machine - Full duplex speakerphone ⑤ <b>Digital Simultaneous Voice Data</b> <b>SELECTASYSTEM PRELOAD</b> - IBM DOS 7.0 - Windows 3.11 - OS/2 Warp 3.0 (dual boot) w/ selected BonusPak - IBM PC Card Director™ 3.0 - Online Users Guide - ThinkPad Features; Diskette Factory 1. Lotus® cc:Mail™, e-mail for IBM Global network; 2. Lotus Organizer™ 3. Lotus ScreenCam™ 4. Triton CoSession™ Host; 5. PRODIGY® 6. SofNet FaxWorks™ Voice™ 7. Video For Windows™ 1.1 Runtime 8. Puma TranXit™; 9. COMPEL™ PE 10. Mind Path Presentation F/X Pro 11. Internet for Windows 12. Compuserv for Win; 13. WIN32s Runtime 14. NetFinity for Windows and OS/2 15. Asymetrix® Digital Video Producer™ - Catalog/Sampler CD-ROM - Complimentary Applications CD-ROM - MPEG Sampler CD-ROM - Lotus SmartSuite 4.0 CD-ROM <b>WINDOWS 95 PRELOAD</b> - Microsoft Windows 95 - Online User's Guide - ThinkPad Features; Diskette Factory 1. Lotus® cc:Mail™, e-mail for IBM Global network; 2. Lotus Organizer™ 3. Lotus ScreenCam™ 4. Triton CoSession™ Host; 5. PRODIGY® 6. SofNet FaxWorks™ Voice™ 7. Puma TranXit™ 8. Compuserv for Windows 9. Mind Path Presentation F/X Pro 10. COMPEL Personal Edition 11. Asymetrix® Digital Video Producer™ - Catalog/Sampler CD-ROM - MPEG Sampler CD-ROM - Lotus SmartSuite 96 CD-ROM <b>FEATURES OF 760 MODELS</b> Product Map; <b>LCD indicator panel</b> Plug and Play 1.0a Discharge battery via mouse click Non-disruptive battery exchange Standby, suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet</b> ( <a href="http://www.pc.ibm.com">http://www.pc.ibm.com</a> ) support <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>				

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
 ○ = Removable; ⚡ = Withdrawn from marketing

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 No warranties are expressed or implied in this summary  
 (760CD) Compiled by Roger Dodson, IBM. October 1996

# IBM ThinkPad 760EL - withdrawn

<b>IBM® ThinkPad®:</b>		≈ 760EL						
		11.3" DSTN color or 12.1" TFT color - thick						
Processor type	<b>Pentium<sup>®</sup> 100/66, 120/60, or 133/66</b> / 64 bit to L2 cache / 64 bit to mem							
Processor upgrade	to Pentium 133/66 MHz which includes 256 KB L2 cache							
L2 cache	None (not separately upgradeable)							
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port							
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)							
Removable CD-ROM	None / <b>can upgrade to 4 x, 6 x, or 8 x CD-ROM into UltraBay</b>							
Price	9547-U6G		9547-U6F		9547-U4F		Pallette of 24 systems	
Type - model	9547-U6G		9547-U6F		9547-U4F		9547-U6R U4S	
Preload (see side)	<b>Win 95</b>		<b>Win 95</b>		<b>Win 95</b>		<b>Blank</b> (none)	
Available date	May 1996		May 1996		May 1996		May 1996	
Pentium speed	<b>100/66 MHz</b>		<b>120/60 MHz</b>		<b>120/60 MHz</b>		<b>120/60 MHz</b>	
Remv disk - size / ms	<b>810 MB</b> / 13 ms ○		<b>1.08 GB</b> / 13 ms ○		<b>810 MB</b>		<b>1.08 GB</b>	
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks							
Display - size and type	<b>11.3 inch DSTN</b>		<b>12.1 inch TFT</b>		<b>11.3 inch DSTN</b>		<b>12.1 inch TFT</b>	
Display - technology	<b>11.3" SVGA color / 640 x 480 or 800 x 600</b> 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio				<b>12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors</b> Black Matrix TFT - active matrix / 100 to 1 contrast ratio			
Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns						810 MB = DMA Mode 2 or PIO Mode 4	
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 w/ 256 colors						1.08 GB = DMA Mode 2 or PIO Mode 4	
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt						1.2 GB = DMA Mode 1 or PIO Mode 3	
Memory - std / max	<b>8 MB</b> / 72 MB or 104 MB		<b>8 MB</b> / 72 or 104		<b>8 MB</b> / 72 MB or 104 MB		<b>16 MB</b> / 80 MB or 104 MB	
Memory - features	70 ns / non-parity / 3.3 volt / EDO / 2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB							
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)							
Keyboard slope	<b>Automated tilt up keyboard</b> (5.5 degrees)							
Pointing / palm rest	<b>TrackPoint III</b> / integrated palm rest / ext keyboard support (with option cable)							
Dimensions	<b>11.3" models:</b> 11.7 x 8.3 x 1.98" (192)				<b>12.1" models:</b> 11.7 x 8.3 x 2.14" (208)			
Weight	<b>11.3" models:</b> 6.7 pounds (3.04 kg)				<b>12.1" models:</b> 7.03 pounds (3.19 kg)			
Battery - type	Lithium Ion / intelligent (optional NiMH battery supported)							
Battery - life (1 batt)	<b>11.3" models:</b> 3.1 hours				<b>12.1" models:</b> 3.3 hours			
Battery - life (2 batt)	<b>11.3" models:</b> 6.2 hours				<b>12.1" models:</b> 6.6 hours			
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs							
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)							
Docking Station	Dock I and II / <b>SelectaDock I and II</b>							
Port replicator	Port Replicator I and II / <b>SelectaDock Base Model I</b>							
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI</b> / PCMCIA 2.1 compatible							
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)							
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot							
Video in/out	None							
MPEG decoder	None							
DSP function	None							
Data/fax modem	None							
Audio support	<b>16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688</b> Int stereo speakers / .5 watt / slide volume control / internal microphone Input jack (3.5 mm) / Output jack (3.5 mm)							
Jacks	None							
Telephone	None							
Infrared ports	<b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>							
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate							
Preinstalled software	Windows 95 with applications (listed on right)							
Warranty	<b>3 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in							
The left bay (UltraBay™) supports:		Compatible in ThinkPad 760EL family:						
① 2nd disk (requires Second HDD Adapter)		- Second HDD Adapter 29H9333						
② 2nd battery		- Dock I (1 slot / 1 bay) 3545001						
③ std diskette drive		- Dock II (2 slot / 2 bay) 3546001						
④ 2.88 MB diskette drive (option)		- IDE Conversion Card (for Dock II) 46H5994						
⑤ PCMCIA Cartridge (option)		- <b>SelectaDock I</b> 3547001						
⑥ IBM Wireless Modem for ARDIS (option)		- <b>SelectaDock II</b> 3547002						
⑦ IBM Wireless Modem for Cellular/CDPD (option)		- Port Replicator I (w/ PCMCIA slots) 66G3510						
Maximum internal disk capacity on 760EL is 4.2 GB with two 2.1 GB disks		- Port Replicator II 66G3520						
Easy-Setup is entered by holding F1 when turning on.		- <b>SelectaDock Base Model I</b> 39H7405						
ThinkPad 760EL supported batteries:		- 2.88 MB diskette 66G0108						
- 760 NiMH Battery (black) 41H9720		- PCMCIA Cartridge (one Type III) 84G1301						
- Li-Ion Battery Pack II (gray) 29H9329		- FDD External Attachment Kit 66G3618						
- Travel Quick Charger 85G1522		- Pentium 133/66 MHz/L2 upgrade 46H5991						
- Car Battery Adapter 49G2167		- 35 watt AC Adapter (slim, 4 pin) 76H0119						
		- <b>4 x CD-ROM</b> (UltraBay) 39H7413						
		- <b>6 x CD-ROM</b> (UltraBay) 85G1957						
		- <b>8 x CD-ROM</b> (UltraBay) 45H8786						
		- <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7340						
		- <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7341						
		- <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7342						
		<p><b>WINDOWS 95 PRELOAD</b></p> <ul style="list-style-type: none"> <li>- Microsoft Windows 95</li> <li>- Online User's Guide</li> <li>- ThinkPad Features</li> <li>- PC Card Director 4.0</li> <li>- Diskette Factory</li> <li>1. Triton CoSession™ Host</li> <li>2. PRODIGY®</li> <li>3. SofNet FaxWorks™ Voice™</li> <li>4. Puma TranXit™</li> <li>5. CompuServ for Windows</li> <li>6. NetFinity for Windows 95</li> <li>- Lotus SmartSuite 96 CD-ROM</li> </ul> <p><b>OS/2 WARP CONNECT PRELOAD</b></p> <ul style="list-style-type: none"> <li>- IBM OS/2 Warp Connect Version 3 with WIN-OS/2 with BonusPak applications</li> <li>- Online User's Guide</li> <li>- ThinkPad Features Program</li> <li>- PC Card Director 4.0</li> <li>- Diskette Factory</li> <li>1. Triton CoSession™ Host;</li> <li>2. Puma TranXit™</li> <li>3. NetFinity for OS/2</li> <li>4. Prodigy</li> <li>- Lotus SmartSuite 4.0 (entitled to SSuite 96)</li> </ul> <p><b>BLANK PRELOAD</b></p> <ul style="list-style-type: none"> <li>- License for SmartSuite</li> </ul>						
		<p>ThinkPad 760E supported disks:</p> <ul style="list-style-type: none"> <li>- 720 MB HDD II EIDE 12.5 mm 29H9383</li> <li>- 810 MB HDD II EIDE 12.5 mm 29H9313</li> <li>- 1.08 GB HDD II EIDE 12.5 mm 29H9319</li> <li>- 1.2 GB (1.96" or higher models) 29H9325</li> <li>- 1.4 GB HDD 3L EIDE 12.5 mm 69H8412</li> <li>- 2.1 GB (1.96" in higher models) 69H8414</li> <li>- 3.0 GB (1.96" + models) 17 mm 45H8789</li> </ul> <p><b>FEATURES OF 760 MODELS</b></p> <p>Setup Pointer (single page) <b>LCD indicator panel</b> Plug and Play 1.0a Discharge battery via mouse click Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet</b> (<a href="http://www.pc.ibm.com">http://www.pc.ibm.com</a>) support <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b></p>						

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). ○ = Removable  
≈ Models U4F, U4H, U4R, U4S, U48 withdrawn effective January 1997; U6F eff July 1997

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No warranties are expressed or implied in this summary  
(760EL) Compiled by Roger Dodson, IBM. June 1997

# IBM ThinkPad 760EL (Fall 1996 models) - withdrawn

<b>IBM® ThinkPad®:</b>		≈ <b>760EL</b>	
11.3" SVGA DSTN or 12.1" SVGA TFT - thick			
Processor type	<b>Pentium® 120/60 or 133/66</b> / 64 bit to L2 cache / 64 bit to memory		
Processor upgrade	to Pentium 133/66 MHz which includes 256 KB L2 cache		
L2 cache	None (not separately upgradeable) <b>256 KB</b> / write-back / direct mapped / 10 ns / synchronous pipelined burst		
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port		
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)		
Removable CD-ROM	None / <b>can upgrade to optional CD-ROM into UltraBay</b>		
Price			Palette of 24 systems
Type - model	<b>9547-U6H</b>	<b>9547-U4G</b>	<b>9547-U4T</b>
Preload (see side)	<b>Windows 95</b>	<b>Windows 95</b>	<b>Blank (none)</b>
Avail / withdrawn date	October 1996 / July 1997	October 1996 / October 1997	October 1996 / April 1997
Pentium speed	<b>120/66 MHz</b>	<b>133/66 MHz</b>	<b>133/66 MHz</b>
Remv disk - size / ms	<b>1.35 GB</b> / 13 ms ○	<b>2.1 GB</b> / 13 ms ○	<b>2.1 GB</b> / 13 ms ○
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks		
Display - size and type	<b>11.3 inch DSTN</b>	<b>12.1 inch TFT</b>	<b>12.1 inch TFT</b>
Display - technology	<b>11.3" SVGA color / 640 x 480 or 800 x 600</b> 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio	<b>12.1" SVGA color / 640 x 480, 800 x 600 / 65,536 colors</b> Black Matrix TFT - active matrix / 100 to 1 contrast ratio	
Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA / 1 MB EDO DRAM / 70 ns		
Graph - arch/data path	PCI 2.1 / external SVGA to 1024 x 768 w/ 256 colors		Trident™ CYBER9385/64 bit SVGA/1 MB EDO DRAM/70 ns PCI 2.1 / external SVGA to 1024 x 768 w/ 256 colors
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt		
Memory - std / max	<b>8 MB</b> / 72 MB or 104 MB	<b>16 MB</b> / 72 MB or 104 MB	<b>16 MB</b> / 80 MB or 104 MB
Memory - features	70 ns / non-parity / 3.3 volt / EDO / 2 sockets for 2 JEDEC 144 pin	EDO SO DIMMs of 8, 16, 32 MB	<b>32 MB</b> /80 MB or 104 MB 1 socket available
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)		
Keyboard slope	<b>Automated tilt up keyboard</b> (5.5 degrees)		
Pointing / palm rest	<b>TrackPoint III™</b> / integrated palm rest / ext keyboard support (with option cable)		
Dimensions	<i>11.3" models:</i> 11.7 x 8.3 x 1.98" (192)	<i>12.1" models:</i> 11.7 x 8.3 x 2.0" (194)	
Weight	<i>11.3" models:</i> 6.7 pounds (3.04 kg)	<i>12.1" models:</i> 6.41 pounds (2.91 kg)	
Battery - type	Lithium Ion / intelligent (optional NiMH battery supported)		
Battery - life (1 batt)	<i>11.3" models:</i> 2.7 hours	<i>12.1" models:</i> 3.0 hours	
Battery - life (2 batt)	<i>11.3" models:</i> 5.4 hours	<i>12.1" models:</i> 6.0 hours	
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs		
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)		
Docking Station	Dock I and II / <b>SelectaDock I and II and III</b>		
Port replicator	Port Replicator I and II / <b>SelectaDock Base Model I</b>		
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI</b> / PCMCIA 2.1 compatible		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot		
Video in/out	None	<b>Liftable (pop-up) keyboard to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery, and other UltraBay options</b>	
MPEG decoder	None		
DSP function	None		
Data/fax modem	None		
Audio support	<b>16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688</b> Int stereo speakers / .5 watt / slide volume control / internal microphone		
Jacks	Input jack (3.5 mm) / output jack (3.5 mm)		
Telephone	None		
Infrared ports	<b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>		
Security	Power-on password / Hard disk password / Supervisor password / Security keyhole (requires cable) / Security latch for keyboard and DIMMS (requires cable) / PC Card lock / Personalization / Security Plate		
Preinstalled software	Windows 95 with applications (listed on right)		
Warranty	<b>3 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in		
The left bay (UltraBay™) supports:		Compatible in ThinkPad 760EL family:	
① 2nd disk (requires Second HDD Adapter)		- Second HDD Adapter 29H9333	
② 2nd battery		- Dock I (1 slot / 1 bay) 3545001	
③ std diskette drive		- Dock II (2 slot / 2 bay) 3546001	
④ 2.88 MB diskette drive (option)		- IDE Conversion Card (for Dock II) 46H5994	
⑤ PCMCIA Cartridge (option)		- <b>SelectaDock I</b> 3547001	
⑥ IBM Wireless Modem for ARDIS (option)		- <b>SelectaDock II</b> 3547002	
⑦ IBM Wireless Modem for Cellular/CDPD (option)		- <b>SelectaDock III</b> 3547003	
Maximum internal disk capacity on 760EL is 4.2 GB with two 2.1 GB disks		- Port Replicator I (w/ PCMCIA slots) 66G3510	
Easy-Setup is entered by holding F1 when turning on.		- Port Replicator II 66G3520	
810 MB = DMA Mode 2 or PIO Mode 4		- <b>SelectaDock Base Model I</b> 39H7405	
1.08 GB = DMA Mode 2 or PIO Mode 4		- 2.88 MB diskette 66G0108	
1.2 GB = DMA Mode 1 or PIO Mode 3		- PCMCIA Cartridge (one Type III) 84G1301	
1.35 GB = DMA Mode 2 or PIO Mode 4		- FDD External Attachment Kit 66G3618	
2.1 GB = DMA Mode 2 or PIO Mode 4		- Pentium 133/66 MHz/L2 upgrade 46H5991	
Maximum is 80 MB or 104 MB on all models, but 104 MB requires a ThinkPad Proven vendor option.		- 35 watt AC Adapter (slim, 4 pin) 76H0119	
		- <b>4 x CD-ROM (UltraBay)</b> 39H7413	
		- <b>6 x CD-ROM (UltraBay)</b> 85G1957	
		- <b>8 x CD-ROM (UltraBay)</b> 45H8786	
		- <b>8 - 20 x CD-ROM (UltraBay)</b> 00K7903	
		- <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7340	
		- <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7341	
		- <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7342	
<b>WINDOWS 95 PRELOAD</b>			
- Microsoft Windows 95			
- Online User's Guide			
- ThinkPad Features			
- PC Card Director 4.0			
- Diskette Factory			
1. Triton CoSession™ Host			
2. Puma TranXit™			
3. Compuserv for Windows			
4. NetFinity for Windows 95			
- Lotus SmartSuite 96 CD-ROM			
<b>WINDOWS NT 4.0 PRELOAD</b>			
- Microsoft Windows NT 4.0 Workstation with utilities and device drivers			
NT model with 32 MB consists of 8 MB on planar, 8 MB in memory carrier, and 16 MB via a SO-DIMM. One SO-DIMM socket is available.			
<b>BLANK PRELOAD</b>			
- License for SmartSuite			
ThinkPad 760EL supported batteries:			
- 760 NiMH Battery (black) 41H9720			
- Li-Ion Battery Pack II (gray) 29H9329			
- Travel Quick Charger 85G1522			
- Car Battery Adapter 49G2167			
ThinkPad 760E supported disks:			
- (360/750/755 IDE disks not supported)			
- 720 MB HDD II EIDE 12.5 mm 29H9383			
- 810 MB HDD II EIDE 12.5 mm 29H9313			
- 1.08 GB HDD II EIDE 12.5 mm 29H9319			
- 1.2 GB (1.96"+ models) 17 mm 29H9325			
- 1.4 GB HDD 3L EIDE 12.5 mm 69H8412			
- 2.1 GB (1.96"+ models) 17 mm 69H8414			
- 3.0 GB (1.96"+ models) 17 mm 45H8789			
<b>FEATURES OF 760 MODELS</b>			
Setup Pointer (single page)			
<b>LCD indicator panel</b>			
Plug and Play 1.0a			
Discharge battery via mouse click			
Non-disruptive battery exchange			
Standby, suspend, safe suspend, and hibernation modes			
US EPA Energy Star compliant			
Personalized nameplate in indentation			
Personalization screen at startup			
<b>International Warranty Service</b>			
<b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet</b> ( <a href="http://www.pc.ibm.com">http://www.pc.ibm.com</a> ) support			
<b>IBM and dealer warranty/service</b>			
<b>Online Housecall (remote diagnostics)</b>			

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
○ = Removable

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(760EL96) Compiled by Roger Dodson, IBM. October 1997

# IBM ThinkPad 760ELD - withdrawn

<b>IBM® ThinkPad®:</b> <b>≈ 760ELD</b> 12.1" TFT color - CD-ROM		<b>WINDOWS 95 PRELOAD</b> - Microsoft Windows 95 - Online User's Guide - ThinkPad Features - PC Card Director 4.0 - Diskette Factory 1. Triton CoSession™ Host; 2. PRODIGY® 3. SofNet FaxWorks™ Fax 4. Puma TranXit™ 5. CompuServ for Windows 6. NetFinity for Windows 95 - Lotus SmartSuite 96 CD-ROM
Processor type	<b>Pentium® 100/66</b> (P54LM) / 64 bit to L2 cache / 64 bit to memory	
Processor upgrade	to Pentium 133/66 MHz which includes 256 KB L2 cache	
L2 cache	None (not separately upgradeable)	
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port	
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)	
Removable CD-ROM	<b>5.25" CD-ROM ○ / 4 x speed / multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices</b>	
Price		
Type - model	9547-U3F	
Preload (see side)	<b>Windows 95</b>	
Avail / withdrawn date	May 1996 / 1997	
Remv disk - size / ms	<b>810 MB</b> / 13 ms ○ / DMA Mode 2 or PIO Mode 4	
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks	
Display - size and type	<b>12.1 inch SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors</b>	
Display - technology	<b>Black Matrix TFT - active matrix / 100 to 1 contrast ratio</b>	
Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns	
Graph - arch/data path	PCI 2.1 / 32 bit	
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt	
Graphics - external	External SVGA to 1024 x 768 with 256 colors	
Memory - std / max	<b>8 MB</b> / 72 MB 70 ns / non-parity / 3.3 volt / EDO	
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB	
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	
Keyboard slope	<b>Automated tilt up keyboard</b> (5.5 degrees)	
Pointing / palm rest	<b>TrackPoint III™</b> / integrated palm rest / ext keyboard support (w/ option cable)	
Dimensions	11.7 x 8.3 x 2.14" (208 cubic inches)	
Weight (with CD-ROM)	7.28 pounds (3.30 kg)	
Battery - type	Lithium Ion / intelligent <i>optional</i>	
Battery - life (1 batt)	3.2 hours <i>NiMH</i>	
Battery - life (2 batt)	6.4 hours	
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs	
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)	
Docking Station	Dock I and II / <b>SelectaDock I, II and III</b>	
Port replicator	Port Replicator I and II / <b>SelectaDock Base Model I</b>	
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI</b> / PCMCIA 2.1 compatible	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot	
Video in/out	None	
MPEG decoder	None	
DSP function	None	
Data/fax modem	None	
Audio support	<b>16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688</b> Int stereo speakers / .5 watt / slide volume control / internal microphone	
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)	
Telephone	None	
Infrared ports	<b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>	
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate	
Preinstalled software	Windows 95 with applications (listed on right)	
Warranty	<b>3 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in	
<b>The left bay (UltraBay™) supports:</b> ① 2nd disk ② 2nd battery ③ std diskette drive ④ CD-ROM ⑤ 2.88 MB diskette (option) ⑥ PCMCIA Cartridge (option) ⑦ IBM Wireless Modem ARDIS (option) ⑧ IBM Wireless Modem for Cellular/ CDPD (option)  All 760 systems support the NiMH or Li-Ion battery in both battery bay and UltraBay.  Maximum internal disk capacity on 760ELD is 2.4 GB with two 1.2 GB disks.		<b>Compatible in ThinkPad 760ELD family:</b> - Second HDD Adapter            29H9333 - Dock I (1 slot / 1 bay)        3545001 - Dock II (2 slot / 2 bay)        3546001 - IDE Conversion Card (for Dock I/II) 46H5994 - <b>SelectaDock I</b> <b>3547001</b> - Port Replicator I (w/ PCMCIA slots) 66G3510 - Port Replicator II                66G3520 - <b>SelectaDock Base Model I</b> <b>39H7405</b> - 2.88 MB diskette drive        66G0108 - PCMCIA Cartridge (one Type III) 84G1301 - FDD External Attachment Kit    66G3618 - Pentium 133/66 MHz/L2 upgrade 46H5991 - <b>4 x CD-ROM (UltraBay)</b> <b>39H7413</b> - <b>6 x CD-ROM (UltraBay)</b> <b>85G1957</b> - <b>8 x CD-ROM (UltraBay)</b> <b>45H8786</b> - <b>8-20 x CD-ROM (UltraBay)</b> <b>00K7903</b> - <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7340 - <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7341 - <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7342
		<b>Easy-Setup is entered by holding F1 when turning on.</b>  810 MB = DMA Mode 2 or PIO Mode 4 1.08 GB = DMA Mode 2 or PIO Mode 4 1.2 GB = DMA Mode 1 or PIO Mode 3  ThinkPad 760 ELD supported disks: - (360/750/755 IDE disks not supported) - 720 MB HDD II EIDE 12.5 mm 29H9383 - 810 MB HDD II EIDE 12.5 mm 29H9313 - 1.08 GB HDD II EIDE 12.5 mm 29H9319 - 1.2 GB (1.96"+ models) 17 mm 29H9325 - 1.4 GB HDD 3L EIDE 12.5 mm 69H8412 - 2.1 GB (1.96"+ models) 17 mm 69H8414 - 3.0 GB (1.96"+ models) 17 mm 45H8789 - 5.1 GB (1.96" or higher models) 00K7902
		<b>ThinkPad 760E supported batteries:</b> - 760 NiMH Battery (black)        41H9720 - Li-Ion Battery Pack II (gray)    29H9329 - Travel Quick Charger            85G1522 - Car Battery Adapter              49G2167
		<b>FEATURES OF 760 MODELS</b> Setup Pointer (single page) <b>LCD indicator panel</b> Plug and Play 1.0a Discharge battery via mouse click Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
 ○ = Removable

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 (760ELD) Compiled by Roger Dodson, IBM. December 1997

# IBM ThinkPad 760E (SVGA) - withdrawn

IBM® ThinkPad®:	≈ 760E	≈ 760E	Key differences between 760E and 760ED:	
Processor type	Pentium® 120/60 or 133/66 (P54LM) / 64 bit to L2 cache / 64 bit to mem		<b>760E</b>	<b>760ED</b>
Processor upgrade	to Pentium 133/66 MHz from 120/60		No std CD-ROM	Standard CD-ROM
L2 cache	256 KB / write-back / direct mapped / 10 ns / synchronous pipelined burst		No video in/out	Video in/out and cable
Removable diskette	3.5" 1.44 MB ○ / in UltraBay		No joystick/MIDI port	Joystick/MIDI port
External FDD port	External FDD port		No MPEG decoder	MPEG decoder
Removable CD-ROM	None / <b>upgrade CD-ROM</b>		Lighter	Heavier
Price	Pallet of 24		Price	Price
Type - model	<b>9546-U3B</b>	<b>9546-U3L</b>		
Preload (see side)	<b>Windows 95</b>	<b>Blank</b>		
Avail / withdrawn date	May 1996 / Jan 1997	May 1996 / Jan 1997		
Pentium speed	<b>120/60 MHz</b>	<b>120/60 MHz</b>		
Remv disk - size / ms	<b>1.2 GB / 12 ms</b> ○	<b>810 MB / 13 ms</b> ○		
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks			
Display - size and type	<b>12.1 inch SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors</b>			
Display - technology	<b>Black Matrix TFT - active matrix / 100 to 1 contrast ratio</b>			
Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns			
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 w/ 256 colors			
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt			
Memory - std / max	<b>8 MB / 72 MB</b> or 104 MB	<b>8 MB / 72 MB</b> or 104 MB	<b>16 MB / 80</b> or 104 MB	
Memory - features	70 ns / non-parity / 3.3 volt / EDO			
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB			
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)			
Keyboard slope	<b>Automated tilt up keyboard</b> (5.5 degrees)			
Pointing / palm rest	<b>TrackPoint III™</b> / integrated palm rest / ext keyboard support (w/ optional cable)			
Dimensions	11.7 x 8.3 x 2.14" (208)	11.7 x 8.3 x 1.92" (186 cubic inches)		
Weight	7.06 pounds (3.20 kg)	6.76 pounds (3.07 kg)		
Battery - type	Lithium Ion / intelligent	<i>optional</i>	<b>Liftable (pop-up) keyboard to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery (thick models support CD-ROM)</b>	
Battery - life (1 batt)	3.4 hours	<i>NiMH</i>		
Battery - life (2 batt)	6.8 hours			
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs			
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)			
Docking Station	Dock I and II / <b>SelectaDock I and II</b>			
Port replicator	Port Replicator I and II / <b>SelectaDock Base Model I</b>			
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI</b> / PCMCIA 2.1 compatible			
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)			
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot			
Video in/out	None			
MPEG decoder	None			
DSP function	<b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b>			
Data/fax modem	<b>Data/fax modem function via DSP</b> (v.34 to 28.8 Kbps) / Mwave 2.1			
Audio support	<b>16 bit audio chip on planar with Mwave DSP</b> <b>Int stereo speakers / .5 watt / slide volume control / internal microphone</b>			
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)			
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD			
Infrared ports	<b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>			
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate			
Preinstalled software	Windows 95 with applications (listed on right)			
Warranty	<b>3 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in			
<p>The left bay (UltraBay™) supports:</p> <ul style="list-style-type: none"> <li>① 2nd disk (requires Second HDD Adapter)</li> <li>② 2nd battery</li> <li>③ std diskette drive</li> <li>④ 2.88 MB diskette drive (option)</li> <li>⑤ PCMCIA Cartridge (option)</li> <li>⑥ IBM Wireless Modem for ARDIS (option)</li> <li>⑦ IBM Wireless Modem for Cellular/CDPD (option)</li> </ul> <p>Maximum internal disk capacity on 760E is 4.2 GB with two 2.1 GB disks (thick models) or 2.8 GB with two 1.4 GB disks (thin models)</p> <p>Easy-Setup is entered by holding F1 when turning on.</p> <p>Integrated Mwave™ DSP provides:</p> <ul style="list-style-type: none"> <li>① <b>Data modem function</b> (to 28.8 Kbps)</li> <li>② <b>Fax modem function</b> (to 14.4 Kbps)</li> <li>③ <b>Audio function</b> (wave table synthesis)</li> <li>④ <b>Telephone function</b> - Full duplex speakerphone</li> <li>⑤ <b>Digital Simultaneous Voice and Data</b></li> </ul>		<p>Compatible in ThinkPad 760E family:</p> <ul style="list-style-type: none"> <li>- Second HDD Adapter 29H9333</li> <li>- Dock I (1 slot / 1 bay) 3545001</li> <li>- Dock II (2 slot / 2 bay) 3546001</li> <li>- IDE Conversion Card (for Dock I/II) 46H5994</li> <li>- <b>SelectaDock I</b> 3547001</li> <li>- <b>SelectaDock II</b> 3547002</li> <li>- Port Replicator I (w/ PCMCIA slots) 66G3510</li> <li>- Port Replicator II 66G3520</li> <li>- <b>SelectaDock Base Model I</b> 39H7405</li> <li>- 2.88 MB diskette drive 66G0108</li> <li>- PCMCIA Cartridge (one Type III) 84G1301</li> <li>- FDD External Attachment Kit 66G3618</li> <li>- Pentium 133/66 MHz/L2 upgrade 46H5991</li> <li>- 35 watt AC Adapter (slim, 4 pin) 76H0119</li> <li>- <b>4 x CD-ROM</b> (for thick model) 39H7413</li> <li>- <b>6 x CD-ROM</b> (for thick model) 85G1957</li> <li>- <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7340</li> <li>- <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7341</li> <li>- <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7342</li> </ul>		
		<p>Easy-Setup is entered by holding F1 when turning on.</p> <p>810 MB = DMA Mode 2 or PIO Mode 4 1.08 GB = DMA Mode 2 or PIO Mode 4 1.2 GB = DMA Mode 1 or PIO Mode 3</p> <p>Memory is upgradeable to 104 MB with a ThinkPad Proven option.</p> <p>ThinkPad 760E supported batteries:</p> <ul style="list-style-type: none"> <li>- 760 NiMH Battery (black) 41H9720</li> <li>- Li-Ion Battery Pack II (gray) 29H9329</li> <li>- Travel Quick Charger 85G1522</li> <li>- Car Battery Adapter 49G2167</li> </ul> <p>ThinkPad 760E supported disks:</p> <ul style="list-style-type: none"> <li>- (360/750/755 IDE disks not supported)</li> <li>- 720 MB HDD II EIDE 12.5 mm 29H9383</li> <li>- 810 MB HDD II EIDE 12.5 mm 29H9313</li> <li>- 1.08 GB HDD II EIDE 12.5 mm 29H9319</li> <li>- 1.2 GB (1.96" or higher models) 29H9325</li> <li>- 1.4 GB HDD 3L EIDE 12.5 mm 69H8412</li> <li>- 2.1 GB (1.96" or higher models) 69H8414</li> </ul>		
		<p><b>FEATURES OF 760 MODELS</b></p> <p>Setup Pointer (single page) <b>LCD indicator panel</b> Plug and Play 1.0a Discharge battery via mouse click Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet</b> <b>(http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b></p>		

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○ = Removable

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(760E) Compiled by Roger Dodson, IBM. December 1996

# IBM ThinkPad 760E (XGA) - withdrawn

<b>IBM® ThinkPad®:</b> <b>≈ 760E</b> 12.1" XGA color - thick		Key differences between 760E and 760ED:	
Processor type Processor upgrade L2 cache Removable diskette External FDD port Removable CD-ROM	<b>Pentium® 150/60 (P54CSLM)</b> / 64 bit to L2 cache / 64 bit to memory None <b>256 KB</b> / write-back / direct mapped / 10 ns / synchronous pipelined burst 3.5" 1.44 MB ○ / in UltraBay External FDD port (requires External FDD Attachment Kit 66G3618) None / <b>can upgrade with optional CD-ROM into UltraBay</b>	<b>760E</b> No std CD-ROM No video in/out No joystick/MIDI port No MPEG decoder Lighter Price	<b>760ED</b> Standard CD-ROM Video in/out and cable Joystick/MIDI port MPEG decoder Heavier Price
Price Type - model Preload (see side) Remv disk - size / ms Disk controller Avail / withdrawn date	<b>9546-U9B</b> <b>Windows 95</b> <b>2.1 GB</b> / 12 ms ○ EIDE / busmaster / PCI 2.1 / supports two internal disks (so 4.2 GB max) October 1996 / October 1997	<b>WINDOWS 95 PRELOAD</b> - Microsoft Windows 95 - Online User's Guide - ThinkPad Features - PC Card Director 4.0 - Diskette Factory 1. Triton CoSession™ Host 2. SofNet FaxWorks™ Voice™ 3. Puma TranXit™ 4. Compuserv for Windows 5. NetFinity for Windows 95 - Lotus SmartSuite 96 CD-ROM	
Display - size and type Display - technology	<b>12.1 inch XGA color / 640 x 480, 800 x 600, or 1024 x 768 / 65,536 siml colors</b> <b>Black Matrix TFT - active matrix</b> / 100 to 1 contrast ratio		
Graphics - controller Graph - arch/data path Graphics - features Graphics - external	Trident™ CYBER9385 / 64 bit SVGA accelerator / <b>2 MB EDO DRAM</b> / 70 ns PCI 2.1 / 32 bit / <b>DCI, DirectDraw, EnDIVE support</b> Simultaneous LCD and CRT / 180 degree tilt External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors	Easy-Setup is entered by holding F1 when turning on.  810 MB = DMA Mode 2 or PIO Mode 4 1.08 GB = DMA Mode 2 or PIO Mode 4 1.2 GB = DMA Mode 1 or PIO Mode 3 1.35 GB = DMA Mode 2 or PIO Mode 4 2.1 GB = DMA Mode 2 or PIO Mode 4	
Memory - std / max Memory - features Memory - upgrade	<b>16 MB</b> / 80 MB (104 MB with ThinkPad Proven option) 70 ns / non-parity / 3.3 volt / EDO 2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB		
Keyboard / # of keys Keyboard slope Pointing / palm rest	Full size alp/num / 85 (8 Fn key functions) <b>Automated tilt up keyboard</b> (5.5 degrees) <b>TrackPoint III™</b> / integrated palm rest / ext keyboard support (w/ optional cable)	<b>ThinkPad 760E supported batteries:</b> - 760 NiMH Battery (black)            41H9720 - Li-Ion Battery Pack II (gray)        29H9329 - Travel Quick Charger                85G1522 - Car Battery Adapter                  49G2167  <b>ThinkPad 760E supported disks:</b> - (360/750/755 IDE disks not supported) - 720 MB HDD II EIDE    12.5mm    29H9383 - 810 MB HDD II EIDE    12.5mm    29H9313 - 1.08 GB HDD II EIDE    12.5mm    29H9319 - 1.2 GB (1.96"+ models) 17mm    29H9325 - 1.4 GB HDD 3L EIDE    12.5mm    69H8412 - 2.1 GB (1.96"+ models) 17mm    69H8414 - 3.0 GB (1.96"+ models) 17mm    45H8789 - 5.1 GB (1.96"+ models) 17mm    00K7902	
Dimensions Weight	11.7 x 8.3 x 2.0" (194 cubic inches) 6.41 pounds (2.91 kg)		
Battery - type Battery - life (1 batt) Battery - life (2 batt) Charge time - on / off	Lithium Ion / intelligent <i>optional</i> 2.6 hours <i>NiMH</i> 5.2 hours 2 to 3 hrs / 1.5 to 2.5 hrs	<b>Liftable (pop-up) keyboard to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery (thick models support CD-ROM)</b>	
Architecture Docking Station Port replicator PC Card Standard slots Serial / parallel ports Other features	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion) Dock I and II / <b>SelectaDock I and II and III</b> Port Replicator I and II / <b>SelectaDock Base Model I</b> 2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI</b> / PCMCIA 2.1 compatible One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot	<b>ThinkPad 760E supported disks:</b> - 760 NiMH Battery (black)            41H9720 - Li-Ion Battery Pack II (gray)        29H9329 - Travel Quick Charger                85G1522 - Car Battery Adapter                  49G2167  <b>ThinkPad 760E supported disks:</b> - (360/750/755 IDE disks not supported) - 720 MB HDD II EIDE    12.5mm    29H9383 - 810 MB HDD II EIDE    12.5mm    29H9313 - 1.08 GB HDD II EIDE    12.5mm    29H9319 - 1.2 GB (1.96"+ models) 17mm    29H9325 - 1.4 GB HDD 3L EIDE    12.5mm    69H8412 - 2.1 GB (1.96"+ models) 17mm    69H8414 - 3.0 GB (1.96"+ models) 17mm    45H8789 - 5.1 GB (1.96"+ models) 17mm    00K7902	
Video in/out MPEG decoder DSP function Data/fax modem Audio support	None None <b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b> <b>Data/fax modem function via DSP</b> (v.34 to 33.6 Kbps) / Mwave 2.1 <b>16 bit audio chip on planar with Mwave DSP</b> <b>Int stereo speakers / .5 watt / slide volume control / internal microphone</b> Input jack (3.5 mm) / Output jack (3.5 mm)		
Jacks Telephone Infrared ports	Telephone / answering machine / full duplex speakerphone / DSVD Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs	<b>FEATURES OF 760 MODELS</b> Setup Pointer (single page) <b>LCD indicator panel</b> Plug and Play 1.0a Discharge battery via mouse click Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalization nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>	
Security	Power-on password / Hard disk password / Supervisor password / Security keyhole / Security latch for keyboard and DIMMS (requires cable lock) / PC Card lock / Personalization / Security Plate		
Preinstalled software Warranty	Windows 95 with applications (listed on right) <b>3 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in	<b>Compatible in ThinkPad 760E family:</b> - Second HDD Adapter                29H9333 - Dock I (1 slot / 1 bay)                3545001 - Dock II (2 slot / 2 bay)               3546001 - IDE Conversion Card (for Dock I/II) 46H5994 - <b>SelectaDock I</b> 3547001 - <b>SelectaDock II</b> 3547002 - <b>SelectaDock III</b> 3547003 - Port Replicator I (w/ PCMCIA slots) 66G3510 - Port Replicator II                     66G3520 - <b>SelectaDock Base Model I</b> 39H7405 - 2.88 MB diskette drive               66G0108 - PCMCIA Cartridge (one Type III)    84G1301 - FDD External Attachment Kit        66G3618 - 35 watt AC Adapter (slim, 4 pin)    76H0119 - <b>4 x CD-ROM</b> (UltraBay)            39H7413 - <b>6 x CD-ROM</b> (UltraBay)            85G1957 - <b>8 x CD-ROM</b> (UltraBay)            45H8786 - <b>8 - 20 x CD-ROM</b> (UltraBay)       00K7903 - <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7340 - <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7341 - <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7342	
The left bay (UltraBay™) supports: ① 2nd disk (requires Second HDD Adapter) ② 2nd battery ③ std diskette drive ④ 2.88 MB diskette drive (option) ⑤ PCMCIA Cartridge (option) ⑥ IBM Wireless Modem for ARDIS (option) ⑦ IBM Wireless Modem for Cellular/CDPD (option)  Maximum internal disk capacity on 760E is 10.2 GB with two 5.1 GB disks  Easy-Setup is entered by holding F1 when turning on.  Integrated Mwave™ DSP provides: ① <b>Data modem function</b> (to 28.8 Kbps) ② <b>Fax modem function</b> (to 14.4 Kbps) ③ <b>Audio function</b> (wave table synthesis) ④ <b>Telephone function</b> - Full duplex speakerphone ⑤ <b>Digital Simultaneous Voice and Data</b>	Windows 95 with applications (listed on right) <b>3 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in		
Preinstalled software Warranty	Windows 95 with applications (listed on right) <b>3 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in		

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
 ○ = Removable

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 No warranties are expressed or implied in this summary  
 (760E96) Compiled by Roger Dodson, IBM. October 1997



# IBM ThinkPad 760ED (SVGA) - withdrawn

<b>IBM® ThinkPad®:</b>	<b>≈ 760ED</b> 12.1" SVGA TFT - 4 x CD-ROM - Enhanced Video - MPEG	<b>ThinkPad 760ED strengths over 760CD:</b> ▷ <b>Pentium 133/66 MHz</b> (vs 120/60 MHz) ▷ <b>PCI bus</b> (vs VL-Bus) ▷ <b>16 MB EDO memory</b> (vs 8 MB fast page) ▷ <b>64 bit path to memory</b> (vs 32 bit) ▷ <b>9385 64 bit graphics with 2 MB EDO</b> ▷ <b>CardBus PC Card support (32 bit PCI)</b>
Processor type	<b>Pentium® 133/66</b> (P54CSLM) / 64 bit to L2 cache / 64 bit to memory	
Processor upgrade	None	Integrated Mwave™ DSP provides: ① <b>Data modem function</b> - V.22bis, V.32, V.32bis, v.34 (28.8 Kbps) ② <b>Fax modem function</b> - G3 fax send/receive (14.4 Kbps) ③ <b>Audio function</b> - Stereo waveform record and playback - Qsound support (3-D effect) - 32 voice MIDI wave table synthesizer - SoundBlaster™ support / text to speech - MPEG audio decode ④ <b>Telephone function</b> - Full telephone (can use opt headset) - Telephone answering machine - Full duplex speakerphone ⑤ <b>Digital Simultaneous Voice Data</b>
L2 cache	256 KB / write-back / direct mapped / 10 ns / synchronous pipelined burst	
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port	<b>WINDOWS 95 PRELOAD</b> - Microsoft Windows 95 - Online User's Guide - ThinkPad Features - PC Card Director 4.0 - Diskette Factory 1. Triton CoSession™ Host; 2. PRODIGY® 3. SofNet FaxWorks™ Voice™ 4. Puma TranXit™ 5. Compuserver for Windows 6. NetFinity for Windows 95 7. Asymetrix® Digital Video Producer™ 8. MPEG Sampler (CD-ROM) - Lotus SmartSuite 96 CD-ROM
External FDD port	External FDD port (requires External FDD Attachment Kit 66G3618)	
Removable CD-ROM	<b>5.25" CD-ROM ○ / 4 x speed</b> / multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices	<b>Easy-Setup</b> is entered by holding F1 when turning on.  ThinkPad 760ED supported batteries: - 760 NiMH Battery (black) 41H9720 - Li-Ion Battery Pack II (gray) 29H9329 - Travel Quick Charger 85G1522 - Car Battery Adapter 49G2167  ThinkPad 760E supported disks: - (360/750/755 IDE disks not supported) - 720 MB HDD II EIDE 12.5mm 29H9383 - 810 MB HDD II EIDE 12.5 mm 29H9313 - 1.08 GB HDD II EIDE 12.5mm 29H9319 - 1.2 GB (1.96" or higher models) 29H9325 - 1.4 GB HDD 3L EIDE 12.5 mm 69H8412 - 2.1 GB (1.96" or higher models) 69H8414
Type - model	<b>9546-U3A</b>	
Preload (see side)	<b>Windows 95</b>	<b>FEATURES OF 760 MODELS</b> Setup Pointer (single page) <b>LCD indicator panel</b> Plug and Play 1.0a Discharge battery via mouse click Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>
Remv disk - size / ms	<b>1.2 GB</b> / 12 ms ○ / DMA Mode 1 or PIO Mode 3	
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks	<b>Enhanced Video Card</b> in 760ED provides: - <b>Composite in</b> and S-Video in (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay. - <b>Composite out</b> and S-Video out to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad. - <b>Mini game port</b> for MIDI or joystick - Includes video in and video out ports (includes one video in/out cable) - Use software called Digital Video Producer™ - <b>Hardware acceleration</b> of Video for Windows™ formerly done by a separate ASCII chip (as in 755CD and 760CD) has now been integrated into the 9385 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled  - <b>Plays back MPEG motion videos, CD-I movies, video CDs, and Karaoke MPEG video titles</b> (at 640 x 480, 800 x 600, or externally at 1024 x 768)
Avail / withdrawn date	May 1996 / January 1997	
Display - size and type	<b>12.1 inch SVGA color / 640 x 480 or 800 x 600 / 262,166 simultaneous colors</b>	Compatible in ThinkPad 760ED family: - Second HDD Adapter 29H9333 - Dock I (1 slot / 1 bay) 3545001 - Dock II (2 slot / 2 bay) 3546001 - IDE Conversion Card (for Dock I/II) 46H5994 - <b>SelectaDock I</b> 3547001 - <b>SelectaDock II</b> 3547002 - Port Replicator I (w/ PCMCIA slots) 66G3510 - Port Replicator II 66G3520 - <b>SelectaDock Base Model I</b> 39H7405 - 2.88 MB diskette drive 66G0108 - PCMCIA Cartridge (one Type III) 84G1301 - FDD External Attachment Kit 66G3618 - 35 watt AC Adapter (slim, 4 pin) 76H0119 - <b>4 x CD-ROM</b> (UltraBay) 39H7413 - <b>6 x CD-ROM</b> (UltraBay) 85G1957 - <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7340 - <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7341 - <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7342
Display - technology	<b>Black Matrix TFT - active matrix</b> / 100 to 1 contrast ratio	
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / <b>2 MB EDO DRAM</b> / 70 ns	The left bay (UltraBay™) supports: ① 2nd disk; ② 2nd battery ③ std diskette drive; ④ CD-ROM ⑤ 2.88 MB diskette (option) ⑥ PCMCIA Cartridge (option) ⑦ IBM Wireless Modem ARDIS (option) ⑧ IBM Wireless Modem for Cellular/ CDPD (option)
Graph - arch/data path	PCI 2.1 / 32 bit / <b>DCI, DirectDraw, EnDIVE support</b>	
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt	<b>Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery</b>
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors	
Memory - std / max	<b>16 MB</b> / 80 MB (104 MB with ThinkPad Proven option) 70 ns / non-parity / 3.3v	Dimensions 11.7 x 8.3 x 2.14" (208 cubic inches) Weight (with CD-ROM) 7.38 pounds (3.35 kg)
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB	
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	Architecture ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, MPEG, ext expansion) Dock I and II / <b>SelectaDock I and II</b> Port Replicator I and II / <b>SelectaDock Base Model I and II</b> PC Card Standard slots 2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI</b> / PCMCIA 2.1 compatible Serial / parallel ports One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) Other features APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot
Keyboard slope	<b>Automated tilt up keyboard</b> (5.5 degrees)	
Pointing / palm rest	<b>TrackPoint III™</b> / integrated palm rest	Video in/out <b>Composite and S-Video in/out / game port</b> <b>MPEG-1 &amp; MPEG-2 Half Horizontal Resolution (HHR) decoder</b> (MPEGCD1) <b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b> <b>Data/fax modem function via DSP</b> (v.34 to 28.8 Kbps) / Mwave 2.1 <b>16 bit audio chip on planar with Mwave DSP</b> <b>Int stereo speakers / .5 watt / slide volume control / internal microphone</b> Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable) Telephone / answering machine / full duplex speakerphone / DSVD <b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>
Ext keyboard support	Yes (with option cable)	
Dimensions	11.7 x 8.3 x 2.14" (208 cubic inches)	Security Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMs (requires Kensington) / PC Card lock / Personalization / Security Plate
Weight (with CD-ROM)	7.38 pounds (3.35 kg)	
Battery - type	Lithium Ion / intelligent <i>optional NiMH</i>	Preinstalled software Windows 95 with applications (listed on right) Warranty <b>3 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in
Battery - life (1 batt)	2.8 hours	
Battery - life (2 batt)	5.6 hours	Warranties are the property of their respective owners No warranties are expressed or implied in this summary (760ED) Compiled by Roger Dodson, IBM. December 1996
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs	

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
 ○ = Removable

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 (760ED) Compiled by Roger Dodson, IBM. December 1996

# IBM ThinkPad 760ED (XGA) - withdrawn

<b>IBM® ThinkPad®:</b>	≈ 760ED		<b>ThinkPad 760ED strengths over 760CD:</b> ⇨ <b>Pentium 133/66 MHz</b> (vs 120/60 MHz) ⇨ <b>PCI bus</b> (vs VL-Bus) ⇨ <b>16 MB EDO memory</b> (vs 8 MB fast page) ⇨ <b>64 bit path to memory</b> (vs 32 bit) ⇨ <b>9385 64 bit graphics with 2 MB EDO</b> ⇨ <b>CardBus PC Card support (32 bit PCI)</b>
Processor type	<b>Pentium® 133/66</b> (P54CSLM) / 64 bit to L2 cache / 64 bit to memory		
Processor upgrade	None		
L2 cache	<b>256 KB</b> / write-back / direct mapped / 10 ns / synchronous pipelined burst		
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port		
External FDD port	External FDD port (includes Floppy Disk Drive Enclosure)		
Removable CD-ROM	<b>5.25" CD-ROM ○ / 6 x speed</b> / multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices		
Type - model	<b>9546-U9A</b>		
Preload (see side)	<b>Windows 95</b>		
Remv disk - size / ms	<b>2.1 GB</b> / 12 ms ○ / DMA Mode 2 or PIO Mode 4		
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks for 4.2 GB		
Avail / withdrawn date	October 1996 / October 1997		
Display - size and type	<b>12.1 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors</b>		
Display - technology	<b>Black Matrix TFT - active matrix</b> / 100 to 1 contrast ratio		
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / <b>2 MB EDO DRAM</b> / 70 ns		
Graph - arch/data path	PCI 2.1 / 32 bit / <b>DCI, DirectDraw, EnDIVE support</b>		
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt		
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors		
Memory - std / max	<b>16 MB</b> / 80 MB (104 MB w/ ThinkPad Proven option) 70 ns / non-parity / 3.3v / EDO		
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB		
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)		
Keyboard slope	<b>Automated tilt up keyboard</b> (5.5 degrees)		
Pointing / palm rest	<b>TrackPoint III™</b> / integrated palm rest		
Ext keyboard support	Yes (with option cable)		
Dimensions	11.7 x 8.3 x 2.0" (194 cubic inches)		
Weight (with CD-ROM)	6.65 pounds (3.02 kg)		
Battery - type	Lithium Ion / intelligent	<i>optional</i>	
Battery - life (1 batt)	2.2 hours	<i>NiMH</i>	
Battery - life (2 batt)	4.4 hours		
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs		
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)		
Docking Station	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, MPEG, ext expansion)		
Port replicator	Dock I and II / <b>SelectaDock I and II and III</b>		
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI</b> / PCMCIA 2.1 compatible		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot		
Video in/out	<b>Composite and S-Video in/out / game port</b>		
MPEG decoder	<b>MPEG-1 &amp; MPEG-2 Half Horizontal Resolution (HHR) decoder</b> (MPEGCD1)		
DSP function	<b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b>		
Data/fax modem	<b>Data/fax modem function via DSP</b> (v.34 to 33.6 Kbps) / Mwave 2.1		
Audio support	<b>16 bit audio chip on planar with Mwave DSP</b>		
Jacks	<b>Int stereo speakers / .5 watt / slide volume control / internal microphone</b>		
Telephone	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)		
Infrared ports	Telephone / answering machine / full duplex speakerphone / DSVD		
Security	<b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>		
Preinstalled software	Power-on password / Hard disk password / Supervisor password / Security keyhole (requires cable) / Security latch for keyboard and DIMMS (requires cable) / PC Card lock / Personalization / Security Plate		
Warranty	Windows 95 with applications (listed on right)		
<b>Enhanced Video Card</b> in 760ED provides:	Compatible in ThinkPad 760ED family:		
- <b>Composite in</b> and S-Video in (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay.	- Second HDD Adapter 29H9333		
- <b>Composite out</b> and S-Video out to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad.	- Dock I (1 slot / 1 bay) 3545001		
- <b>Mini game port</b> for MIDI or joystick	- Dock II (2 slot / 2 bay) 3546001		
- Includes video in and video out ports (includes one video in/out cable)	- IDE Conversion Card (for Dock I/II) 46H5994		
- Use software called Digital Video Producer™	- <b>SelectaDock I</b> 3547001		
- <b>Hardware acceleration</b> of Video for Windows™ formerly done by a separate ASCII chip (as in 755CD and 760CD) has now been integrated into the 9385 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled	- <b>SelectaDock II</b> 3547002		
- <b>Plays back MPEG motion videos, CD-I movies, video CD's, and Karaoke MPEG video titles</b>	- <b>SelectaDock III</b> 3547003		
	- Port Replicator I (w/ PCMCIA slots) 66G3510		
	- Port Replicator II 66G3520		
	- <b>SelectaDock Base Model I</b> 39H7405		
	- 2.88 MB diskette drive 66G0108		
	- PCMCIA Cartridge (one Type III) 84G1301		
	- FDD External Attachment Kit 66G3618		
	- 35 watt AC Adapter (slim, 4 pin) 76H0119		
	- <b>4 x CD-ROM</b> (UltraBay) 39H7413		
	- <b>6 x CD-ROM</b> (UltraBay) 85G1957		
	- <b>8 x CD-ROM</b> (UltraBay) 45H8786		
	- <b>8 - 20 x CD-ROM</b> (UltraBay) 00K7903		
	- <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7340		
	- <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7341		
	- <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7342		
	Integrated Mwave™ DSP provides:		
	① <b>Data modem function</b> - V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)		
	② <b>Fax modem function</b> - G3 fax send/receive (14.4 Kbps)		
	③ <b>Audio function</b> - Stereo waveform record and playback - Qsound support (3-D effect) - 32 voice MIDI wave table synthesizer - SoundBlaster™ support / text to speech - MPEG audio decode		
	④ <b>Telephone function</b> - Full telephone (can use opt headset) - Telephone answering machine - Full duplex speakerphone		
	⑤ <b>Digital Simultaneous Voice Data</b>		
	<b>WINDOWS 95 PRELOAD</b>		
	- Microsoft Windows 95 - Online User's Guide - ThinkPad Features - PC Card Director 4.0 - Diskette Factory 1. Triton CoSession™ Host 2. SofNet FaxWorks™ Voice™ 3. Puma TranXit™ 4. CompuServ for Windows 5. NetFinity for Windows 95 6. Asymetrix® Digital Video Producer™ 7. MPEG Sampler (CD-ROM) - Lotus SmartSuite 96 CD-ROM		
	Easy-Setup is entered by holding F1 when turning on.		
	ThinkPad 760ED supported batteries:		
	- 760 NiMH Battery (black) 41H9720		
	- Li-Ion Battery Pack II (gray) 29H9329		
	- Travel Quick Charger 85G1522		
	- Car Battery Adapter 49G2167		
	ThinkPad 760ED supported disks:		
	- (360/750/755 IDE disks not supported)		
	- 720 MB HDD II EIDE 12.5mm 29H9383		
	- 810 MB HDD II EIDE 12.5 mm 29H9313		
	- 1.08 GB HDD II EIDE 12.5mm 29H9319		
	- 1.2 GB (1.96"+ models) 17 mm 29H9325		
	- 1.4 GB HDD 3L EIDE 12.5 mm 69H8412		
	- 2.1 GB (1.96"+ models) 17 mm 69H8414		
	- 3.0 GB (1.96"+ models) 17 mm 45H8789		
	- 5.1 GB (1.96"+ models) 17 mm 00K7902		
	<b>FEATURES OF 760 MODELS</b>		
	Setup Pointer (single page)		
	<b>LCD indicator panel</b>		
	Plug and Play 1.0a		
	Discharge battery via mouse click		
	Non-disruptive battery exchange		
	Standby, suspend, safe suspend, and hibernation modes		
	US EPA Energy Star compliant		
	Personalized nameplate in indentation		
	Personalization screen at startup		
	<b>International Warranty Service</b>		
	<b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b>		
	<b>IBM and dealer warranty/service</b>		
	<b>Online Housecall (remote diagnostics)</b>		

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
 ○ = Removable

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 No warranties are expressed or implied in this summary  
 (760ED96) Compiled by Roger Dodson, IBM. October 1997

# IBM ThinkPad 760XL - withdrawn

<b>IBM® ThinkPad®:</b> <b>≈ 760XL</b> 12.1" SVGA TFT - thick		
Processor type	<b>Pentium® MMX 166/66 MHz</b> (P55CLM) / 64 bit to L2 cache / 64 bit to memory	<b>WINDOWS 95 PRELOAD</b> <ul style="list-style-type: none"> <li>- Microsoft Windows 95 OSR2 (FAT16)</li> <li>- Online User's Guide</li> <li>- ThinkPad Features</li> <li>- Diskette Factory</li> <li>1. Lotus Organizer</li> <li>2. CompuServ for Windows</li> <li>3. Puma TranXit™</li> <li>4. NetFinity for Windows 95</li> <li>5. Triton CoSession™ Host</li> <li>6. IntelliLink Connect</li> <li>7. IBM AntiVirus</li> <li>8. IBM Internet Connection Services with Netscape Navigator web browser</li> <li>9. Registration Mailer</li> <li>- Lotus SmartSuite 96 CD-ROM</li> <li>- Recovery CD-ROM with boot diskette</li> <li>- Windows 95 CD-ROM (no installation)</li> </ul> <b>WINDOWS NT 4.0 PRELOAD</b> Microsoft Windows NT 4.0 Workstation with utilities and device drivers
Processor upgrade	None	
L2 cache	<b>256 KB</b> / write-back / direct mapped / 10 ns / synchronous pipelined burst	
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port	
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)	
Removable CD-ROM	None / <b>can upgrade to 4 x, 6 x, 8 x, or 8-20 x CD-ROM into UltraBay</b>	
Type - model (code)	<b>9547-U9C</b> (Michigan MMX)   <b>9547-U9K</b> (Michigan MMX)	
Preload (see side)	<b>Windows 95 OSR2</b>   <b>Windows NT Workstation 4.0</b>	
Avail / withdrawn date	April 1997 / January 1998   April 1997 / January 1998	
Remv disk - size / ms	<b>2.1 GB</b> / 13 ms ○ / DMA Mode 2 or PIO Mode 4	
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks	
Display - size and type	<b>12.1 inch SVGA color / 640 x 480, 800 x 600 / 65,536 simultaneous colors</b>	
Display - technology	<b>Black Matrix TFT - active matrix</b> / 100 to 1 contrast ratio	
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns	
Graph - arch/data path	PCI 2.1 / 32 bit / DCI, DirectDraw, ENDiVE support	
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt	
Graphics - external	External SVGA to 1024 x 768 with 256 colors	
Memory - std / max	<b>16 MB</b> / 104 MB   <b>32 MB</b> / 104 MB	
Memory - sockets avail	2 sockets available   1 socket available (1 socket uses 16 MB)	
Memory - features	70 ns / non-parity / 3.3 volt / EDO / supports JEDEC 144 pin SO-DIMMs 8 MB in system; 8 MB on memory module with 2 SO-DIMM sockets Memory module under disk (not removable) and accessible by opening keyboard If use 64 MB SO-DIMM, the 8 MB on memory module is disabled via switch	
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	
Keyboard slope	<b>Automated tilt up keyboard</b> (5.5 degrees)	
Pointing / palm rest	<b>TrackPoint III™</b> / integrated palm rest / ext keyboard support (with option cable)	
Dimensions	11.7 x 8.3 x 2.14" (208)	
Weight	6.7 pounds (3.05 kg)	
Battery - type	Lithium Ion / intelligent ( <i>optional NiMH battery supported</i> )	
Battery - life (1 batt)	2.3 hours (4.6 hours with 2 batteries)	
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs	
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 MHz (EIDE, graphics, CardBus, ext expansion) Intel Mobile Triton 82430MX PCiset / T1 PCI1130 for CardBus	
Docking Station	Dock I and II / <b>SelectaDock I and II</b>	
Port replicator	Port Replicator I and II / <b>SelectaDock Base Model I</b>	
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI</b> / PCMCIA 2.1 compatible	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot	
Video in/out	None	
MPEG decoder	None	
DSP function	None	
Data/fax modem	None	
Audio support	<b>16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688</b> Int stereo speakers / .5 watt / slide volume control / internal microphone Input jack (3.5 mm) / output jack (3.5 mm)	
Jacks	None	
Telephone	None	
Infrared ports	<b>Infrared ports (front and back)</b> / IrDA 1.0 compatible / up to 115 kbs	
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate	
Warranty	<b>3 year</b> - ThinkPad EasyServ (depot repair service) or carry-in	
The left bay (UltraBay™) supports: ① 2nd disk (requires Second HDD Adapter) ② 2nd battery ③ Standard diskette drive ④ 2.88 MB diskette drive ⑤ CD-ROM  Maximum internal disk capacity on 760XL is 10.2 GB with two 5.1 GB disks  Easy-Setup is entered by holding F1 when turning on.  810 MB = DMA Mode 2 or PIO Mode 4 1.08 GB = DMA Mode 2 or PIO Mode 4 1.2 GB = DMA Mode 1 or PIO Mode 3 1.35 GB = DMA Mode 2 or PIO Mode 4 2.1 GB = DMA Mode 2 or PIO Mode 4 3.0 GB = DMA Mode 2 or PIO Mode 4 5.1 GB = Ultra DMA/33 or PIO Mode 4		<b>OPTIONS</b> <ul style="list-style-type: none"> <li>- Second HDD Adapter 29H9333</li> <li>- Dock I (1 slot / 1 bay) 3545001</li> <li>- Dock II (2 slot / 2 bay) 3546001</li> <li>- IDE Conversion Card (for Dock II) 46H5994</li> <li>- <b>SelectaDock I 3547001</b></li> <li>- <b>SelectaDock II 3547002</b></li> <li>- <b>SelectaDock III 3547003</b></li> <li>- Port Replicator I (w/ PCMCIA slots) 66G3510</li> <li>- Port Replicator II 66G3520</li> <li>- <b>SelectaDock Base Model I 39H7405</b></li> <li>- 2.88 MB diskette 66G0108</li> <li>- FDD External Attachment Kit 66G3618</li> <li>- 35 watt AC Adapter (slim, 4 pin) 76H0119</li> <li>- <b>4 x CD-ROM (UltraBay) 39H7413</b></li> <li>- <b>6 x CD-ROM (UltraBay) 85G1957</b></li> <li>- <b>8 x CD-ROM (UltraBay) 45H8786</b></li> <li>- <b>8-20 x CD-ROM (UltraBay) 00K7903</b></li> <li>- <b>8 MB SO DIMM 3.3v NP EDO 64 bit 92G7340</b></li> <li>- <b>16 MB SO DIMM 3.3v NP EDO 64 bit 92G7341</b></li> <li>- <b>32 MB SO DIMM 3.3v NP EDO 64 bit 92G7342</b></li> <li>- <b>64 MB SO DIMM 3.3v NP EDO 64 bit 76H0268</b></li> </ul>
		ThinkPad 760XL supported batteries: <ul style="list-style-type: none"> <li>- 760 NiMH Battery (black) 41H9720</li> <li>- Li-Ion Battery Pack II (gray) 29H9329</li> <li>- Travel Quick Charger 85G1522</li> <li>- Car Battery Adapter 49G2167</li> </ul> ThinkPad 760 supported disks: <ul style="list-style-type: none"> <li>- (360/750/755 IDE disks not supported)</li> <li>- 720 MB HDD II EIDE 12.5 mm 29H9383</li> <li>- 810 MB HDD II EIDE 12.5 mm 29H9313</li> <li>- 1.08 GB HDD II EIDE 12.5 mm 29H9319</li> <li>- 1.2 GB (1.96"+ models) 17 mm 29H9325</li> <li>- 1.4 GB HDD 3L EIDE 12.5 mm 69H8412</li> <li>- 2.1 GB (1.96"+ models) 17 mm 69H8414</li> <li>- 3.0 GB (1.96"+ models) 17 mm 45H8789</li> <li>- 5.1 GB (1.96"+ models) 17 mm 00K7902</li> </ul>
		<b>FEATURES OF 760 MODELS</b> Quick Setup Guide (single page) <b>LCD indicator panel</b> Plug and Play 1.0a Discharge battery via mouse click Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service IBM SystemXtra Program</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).  
 ○ = Removable

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 No warranties are expressed or implied in this summary  
 (760XL) Compiled by Roger Dodson, IBM. December 1997

# IBM ThinkPad 760XD - withdrawn

<b>IBM® ThinkPad®:</b>	<b>≈ 760XD</b> 12.1" XGA TFT - 8 x CD-ROM - Enhanced Video - MPEG																																													
Processor type	<b>Pentium® MMX 166/66 MHz</b> (P55CLM) / 64 bit to L2 cache / 64 bit to memory																																													
Processor upgrade	None																																													
L2 cache	<b>256 KB</b> / write-back / direct mapped / 10 ns / synchronous pipelined burst																																													
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port																																													
External FDD port	External FDD port (includes Floppy Disk Drive Enclosure)																																													
Removable CD-ROM	<b>5.25" CD-ROM ○ / 8 x speed</b> / multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices																																													
Type - model (code)	<b>9546-U9E</b> (Michigan MMX)																																													
Preload (see side)	Windows 95 OSR2																																													
Remov disk - size / ms	<b>3.0 GB</b> / 12 ms ○ / DMA Mode 2 or PIO Mode 4 (C: is 1.99 GB, D: is 885 MB)																																													
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks for 10.2 GB																																													
Avail / withdrawn date	April 1997 / January 1998																																													
Display - size and type	<b>12.1 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors</b>																																													
Display - technology	<b>Black Matrix TFT - active matrix</b> / 100 to 1 contrast ratio																																													
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / <b>2 MB EDO DRAM</b> / 70 ns																																													
Graph - arch/data path	PCI 2.1 / 32 bit / DCI, DirectDraw, EnDIVE support																																													
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt																																													
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors																																													
Memory - std / max	<b>32 MB</b> / 104 MB 70 ns / non-parity / 3.3v / EDO																																													
Memory - upgrade	1 socket avail for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64 MB																																													
Mem - implementation	8 MB in system; 8 MB on memory module; 16 MB DIMM in 1 socket; 1 socket avail Memory module under disk (not removable) and accessible by opening the keyboard																																													
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	The left bay (UltraBay™) supports:																																												
Keyboard slope	<b>Automated tilt up keyboard</b> (5.5 degrees)	① 2nd disk; ② 2nd battery																																												
Pointing / palm rest	<b>TrackPoint III™</b> / integrated palm rest	③ std diskette drive; ④ std CD-ROM																																												
Ext keyboard support	Yes (with option cable)	⑤ 2.88 MB diskette																																												
Dimensions / weight	11.7 x 8.3 x 2.0" (194 cubic inches) / 7.0 pounds (3.18 kg) with CD-ROM																																													
Battery - type	Lithium Ion / intelligent	<i>optional</i> <b>Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery</b>																																												
Battery - life (1 batt)	2.0 hours (4 hrs with 2 batt)	<i>NiMH</i>																																												
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs																																													
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, MPEG, ext expansion) Intel Mobile Triton 82430MX PCiset / TI PCI1130 for CardBus																																													
Port replicator	Port Replicator I and II / <b>SelectaDock Base Model I</b>																																													
Docking Station	Dock I and II / <b>SelectaDock I and II and III</b>																																													
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI</b> / PCMCIA 2.1 compatible																																													
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)																																													
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot																																													
Video in/out	<b>Composite and S-Video in/out / game port</b>																																													
MPEG decoder	<b>MPEG-1 &amp; MPEG-2 Half Horizontal Resolution (HHR) decoder</b> (MPEGCD1)																																													
DSP function	<b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b>																																													
Data/fax modem	<b>Data/fax modem function via DSP</b> (v.34 to 33.6 Kbps) / Mwave																																													
Audio support	<b>16 bit audio chip on planar with Mwave DSP</b> <b>Int stereo speakers / .5 watt / slide volume control / internal microphone</b> Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)																																													
Jacks	Telephone / answering machine / full duplex speakerphone / DSVD																																													
Telephone	<b>Infrared ports (front and back)</b> / IrDA 1.0 compatible / up to 115 kbs																																													
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Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate																																													
Warranty	<b>3 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in																																													
<b>Options</b>	<table border="0"> <tr><td>- Second HDD Adapter</td><td>29H9333</td></tr> <tr><td>- Dock I (1 slot / 1 bay)</td><td>3545001</td></tr> <tr><td>- Dock II (2 slot / 2 bay)</td><td>3546001</td></tr> <tr><td>- IDE Conversion Card (for Dock I/II)</td><td>46H5994</td></tr> <tr><td>- <b>SelectaDock I</b></td><td><b>3547001</b></td></tr> <tr><td>- <b>SelectaDock II</b></td><td><b>3547002</b></td></tr> <tr><td>- <b>SelectaDock III</b></td><td><b>3547003</b></td></tr> <tr><td>- Port Replicator I (w/ PCMCIA slots)</td><td>66G3510</td></tr> <tr><td>- Port Replicator II</td><td>66G3520</td></tr> <tr><td>- <b>SelectaDock Base Model I</b></td><td><b>39H7405</b></td></tr> <tr><td>- 2.88 MB diskette drive</td><td>66G0108</td></tr> <tr><td>- FDD External Attachment Kit</td><td>66G3618</td></tr> <tr><td>- 35 watt AC Adapter (slim, 4 pin)</td><td>76H0119</td></tr> <tr><td>- <b>4 x CD-ROM</b> (UltraBay)</td><td><b>39H7413</b></td></tr> <tr><td>- <b>6 x CD-ROM</b> (UltraBay)</td><td><b>85G1957</b></td></tr> <tr><td>- <b>8 x CD-ROM</b> (UltraBay)</td><td><b>45H8786</b></td></tr> <tr><td>- <b>8-20 x CD-ROM</b> (UltraBay)</td><td><b>00K7903</b></td></tr> <tr><td>- <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b></td><td><b>92G7340</b></td></tr> <tr><td>- <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b></td><td><b>92G7341</b></td></tr> <tr><td>- <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b></td><td><b>92G7342</b></td></tr> <tr><td>- <b>64 MB SO DIMM 3.3v NP EDO 64 bit</b></td><td><b>76H0268</b></td></tr> <tr><td>- Other options from ThinkPad Proven partners</td><td></td></tr> </table>		- Second HDD Adapter	29H9333	- Dock I (1 slot / 1 bay)	3545001	- Dock II (2 slot / 2 bay)	3546001	- IDE Conversion Card (for Dock I/II)	46H5994	- <b>SelectaDock I</b>	<b>3547001</b>	- <b>SelectaDock II</b>	<b>3547002</b>	- <b>SelectaDock III</b>	<b>3547003</b>	- Port Replicator I (w/ PCMCIA slots)	66G3510	- Port Replicator II	66G3520	- <b>SelectaDock Base Model I</b>	<b>39H7405</b>	- 2.88 MB diskette drive	66G0108	- FDD External Attachment Kit	66G3618	- 35 watt AC Adapter (slim, 4 pin)	76H0119	- <b>4 x CD-ROM</b> (UltraBay)	<b>39H7413</b>	- <b>6 x CD-ROM</b> (UltraBay)	<b>85G1957</b>	- <b>8 x CD-ROM</b> (UltraBay)	<b>45H8786</b>	- <b>8-20 x CD-ROM</b> (UltraBay)	<b>00K7903</b>	- <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b>	<b>92G7340</b>	- <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b>	<b>92G7341</b>	- <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b>	<b>92G7342</b>	- <b>64 MB SO DIMM 3.3v NP EDO 64 bit</b>	<b>76H0268</b>	- Other options from ThinkPad Proven partners	
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<b>Integrated Mwave™ DSP provides:</b>	<p>① <b>Data modem function</b> - V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)</p> <p>② <b>Fax modem function</b> - G3 fax send/receive (14.4 Kbps)</p> <p>③ <b>Audio function</b> - Stereo waveform record and playback - Qsound support (3-D effect) - 32 voice MIDI wave table synthesizer - SoundBlaster support / text to speech - MPEG audio decode</p> <p>④ <b>Telephone function</b> - Full telephone (can use opt headset) - Telephone answering machine - Full duplex speakerphone</p> <p>⑤ <b>Digital Simultaneous Voice Data</b></p>																																													
<b>Easy-Setup</b> is entered by holding F1 when turning on.																																														
ThinkPad 760XD supported batteries:	<ul style="list-style-type: none"> <li>- 760 NiMH Battery (black) 41H9720</li> <li>- Li-Ion Battery Pack II (gray) 29H9329</li> <li>- Travel Quick Charger 85G1522</li> <li>- Car Battery Adapter 49G2167</li> </ul>																																													
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<b>FEATURES OF 760 MODELS</b>	<ul style="list-style-type: none"> <li>Quick Setup Guide (single page)</li> <li><b>LCD indicator panel</b></li> <li>Plug and Play 1.0a</li> <li>Discharge battery via mouse click</li> <li>Non-disruptive battery exchange</li> <li>Standby, suspend, safe suspend, and hibernation modes</li> <li>US EPA Energy Star compliant</li> <li>Personalized nameplate in indentation</li> <li>Personalization screen at startup</li> <li><b>International Warranty Service</b></li> <li><b>IBM SystemXtra Program</b></li> <li><b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet</b> (<a href="http://www.pc.ibm.com">http://www.pc.ibm.com</a>) support</li> <li><b>IBM and dealer warranty/service</b></li> <li><b>Online Housecall (remote diagnostics)</b></li> </ul>																																													

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
○ = Removable

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No warranties are expressed or implied in this summary  
(760XD) Compiled by Roger Dodson, IBM. December 1997

# IBM ThinkPad 765L - withdrawn

<b>IBM® ThinkPad®:</b> 765L 13.3" XGA TFT		
Processor type	<b>Pentium® MMX 166/66 MHz</b> (P55CLM) / 64 bit to L2 cache / 64 bit to memory	<b>WINDOWS 95 PRELOAD</b> <ul style="list-style-type: none"> <li>- Microsoft Windows 95 OSR2 (FAT16)</li> <li>- Online User's Guide</li> <li>- ThinkPad Features</li> <li>- Diskette Factory</li> <li>1. Lotus Organizer</li> <li>2. CompuServ for Windows</li> <li>3. Puma TranXit™</li> <li>4. NetFinity for Windows 95</li> <li>5. Triton CoSession™ Host</li> <li>6. IntelliLink Connect</li> <li>7. IBM AntiVirus</li> <li>8. IBM Internet Connection Services with Netscape Navigator web browser</li> <li>9. Registration Mailer</li> <li>10. ThinkPad on the NET</li> <li>11. America Online</li> <li>- Lotus SmartSuite 96 CD-ROM</li> <li>- Recovery CD-ROM with boot diskette</li> <li>- Windows 95 CD-ROM (no installation)</li> </ul>
Processor upgrade	None	
L2 cache	<b>256 KB</b> / write-back / direct mapped / 10 ns / synchronous pipelined burst	
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port	
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)	
Removable CD-ROM	None / <b>can upgrade to 4 x or 6 x or 8 x CD-ROM into UltraBay</b>	
Type - model (code)	<b>9547-U9J</b>	
Preload (see side)	<b>Windows 95 OSR2</b>	
Avail / withdrawn date	June 1997 / July 1998	
Remv disk - size / ms	<b>3.0 GB</b> / 12 ms ○ / DMA Mode 2 or PIO Mode 4 (C: is 1.99 GB, D: is 885 MB)	
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks / SMART	
Display - size and type	<b>13.3 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors</b>	
Display - techology	<b>Black Matrix TFT - active matrix</b> / 100 to 1 contrast ratio	
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / <b>2 MB EDO DRAM</b> / 70 ns	
Graph - arch/data path	PCI 2.1 / 32 bit / DCI, DirectDraw, EnDIVE support	
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt	
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors	
Memory - std / max	<b>32 MB</b> / 104 MB	
Memory - sockets avail	1 socket available (1 socket uses 16 MB)	
Memory - features	70 ns / non-parity / 3.3 volt / EDO / supports JEDEC 144 pin SO-DIMMs 8 MB in system; 8 MB on memory module with 2 SO-DIMM sockets Memory module under disk (not removable) and accessible by opening keyboard If use 64 MB SO-DIMM, the 8 MB on memory module is disabled via switch	
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	
Keyboard slope	<b>Automated tilt up keyboard</b> (5.5 degrees)	
Pointing / palm rest	<b>TrackPoint III™</b> / integrated palm rest / ext keyboard support (with option cable)	
Dimensions	11.7 x 9.3 x 2.23" (243 cubic inches)	
Weight	7.4 pounds (3.34 kg)	
Battery - type	Lithium Ion / intelligent ( <i>optional NiMH battery supported</i> )	
Battery - life (1 batt)	2.1 hours (4.2 hours with 2 batteries)	
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs	
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 MHz (EIDE, graphics, CardBus, ext expansion) Intel Mobile Triton 82430MX PCiset / T1 PCI1130 for CardBus	
Docking Station	<b>SelectaDock I and II and III</b>	
Port replicator	Port Replicator I and II / <b>SelectaDock Base Model I</b>	
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI</b> / PCMCIA 2.1 compatible	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / AC Adapter 4 pin 3 prong (56 watts) / Selectable boot	
Video in/out	None	<b>Liftable (pop-up) keyboard to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery, and other UltraBay options</b>
MPEG decoder	None	
DSP function	None	
Data/fax modem	None	
Audio support	<b>16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688</b> Int stereo speakers / .5 watt / slide volume control / internal microphone	
Jacks	Input jack (3.5 mm) / output jack (3.5 mm)	
Telephone	None	
Infrared ports	<b>Infrared ports (front and back)</b> / IrDA 1.0 compatible / up to 115 kbs	
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate	
Warranty	<b>3 year</b> - ThinkPad EasyServ (depot repair service) or carry-in	
Service options	On-site, M-F, 8-5, next bus day (71 cities) / Warranty extension to 5 years	
The left bay (UltraBay™) supports: ① 2nd disk (requires Second HDD Adapter) ② 2nd battery ③ Standard diskette drive ④ 2.88 MB diskette drive ⑤ CD-ROM		
Maximum internal disk capacity on 765L is 10.2 GB with two 5.1 GB disks  Easy-Setup is entered by holding F1 when turning on.		
810 MB = DMA Mode 2 or PIO Mode 4 1.08 GB = DMA Mode 2 or PIO Mode 4 1.2 GB = DMA Mode 1 or PIO Mode 3 1.35 GB = DMA Mode 2 or PIO Mode 4 2.1 GB = DMA Mode 2 or PIO Mode 4 3.0 GB = DMA Mode 2 or PIO Mode 4 5.1 GB = Ultra DMA/33 or PIO Mode 4		<ul style="list-style-type: none"> <li>- Second HDD Adapter 29H9333</li> <li>- IDE Conversion Card (for Dock II) 46H5994</li> <li>- <b>SelectaDock I</b> 3547001</li> <li>- <b>SelectaDock II</b> 3547002</li> <li>- <b>SelectaDock III</b> 3547003</li> <li>- Port Replicator I (w/ PCMCIA slots) 66G3510</li> <li>- Port Replicator II 66G3520</li> <li>- <b>SelectaDock Base Model I</b> 39H7405</li> <li>- 2.88 MB diskette 66G0108</li> <li>- FDD External Attachment Kit 66G3618</li> <li>- 56 watt AC Adapter (4 pin; 3 prong) 12J2456</li> <li>- <b>6 x CD-ROM</b> (UltraBay) 85G1957</li> <li>- <b>8 x CD-ROM</b> (UltraBay) 45H8786</li> <li>- <b>8-20 x CD-ROM</b> (UltraBay) 00K7903</li> <li>- <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7340</li> <li>- <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7341</li> <li>- <b>16 MB SO DIMM NP EDO 64 bit (new)</b> 01K1124</li> <li>- <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7342</li> <li>- <b>64 MB SO DIMM 3.3v NP EDO 64 bit</b> 76H0268</li> <li>- PCMCIA 33.6 Kbps modem w/ XJACK 55H6759</li> <li>- 56K PC Card Modem Kit 04K0052</li> </ul>
<b>ThinkPad EasyServ™:</b> customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). ○ = Removable		<b>ThinkPad 765L supported batteries:</b> <ul style="list-style-type: none"> <li>- 760 NiMH Battery (black) 41H9720</li> <li>- Li-Ion Battery Pack II (gray) 29H9329</li> <li>- Travel Quick Charger 85G1522</li> <li>- Car Battery Adapter 49G2167</li> </ul> <b>ThinkPad 760 supported disks:</b> <ul style="list-style-type: none"> <li>- (360/750/755 IDE disks not supported)</li> <li>- 720 MB HDD II EIDE 12.5 mm 29H9383</li> <li>- 810 MB HDD II EIDE 12.5 mm 29H9313</li> <li>- 1.08 GB HDD II EIDE 12.5 mm 29H9319</li> <li>- 1.2 GB (1.96"+ models) 17 mm 29H9325</li> <li>- 1.4 GB HDD 3L EIDE 12.5 mm 69H8412</li> <li>- 2.1 GB (1.96"+ models) 17 mm 69H8414</li> <li>- 3.0 GB (1.96"+ models) 17 mm 45H8789</li> <li>- 5.1 GB (1.96"+ models) 17 mm 00K7902</li> </ul>
<b>FEATURES OF 765 MODELS</b> Quick Setup Guide (single page) <b>LCD indicator panel</b> Plug and Play 1.0a Discharge battery via mouse click Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>IBM System Care Program</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>		

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 (765L) Compiled by Roger Dodson, IBM. June 1998

# IBM ThinkPad 765D - withdrawn

<b>IBM® ThinkPad®:</b>	<b>765D</b>		<b>WINDOWS 95 PRELOAD</b>
Processor type	13.3" XGA TFT - 8 x CD-ROM - Enhanced Video - MPEG		<ul style="list-style-type: none"> <li>- Microsoft Windows 95 OSR2 (FAT16)</li> <li>- Online User's Guide</li> <li>- ThinkPad Features Program</li> <li>- Diskette Factory Utilities</li> <li>1. Lotus Organizer</li> <li>2. CompuServ for Windows</li> <li>3. Puma TranXit™</li> <li>4. NetFinity for Windows 95</li> <li>5. Triton CoSession™ Host</li> <li>6. SofNet FaxWorks™ Voice</li> <li>7. Asymetrix® Digital Video Producer</li> <li>8. IntelliLink Connect</li> <li>9. IBM AntiVirus</li> <li>10. IBM Internet Connection Services with Netscape Navigator web browser</li> <li>11. Registration Mailer</li> <li>12. ThinkPad on the NET</li> <li>13. America Online</li> <li>- MPEG Sampler CD-ROM</li> <li>- Lotus SmartSuite 96 CD-ROM</li> <li>- Recovery CD-ROM with boot diskette</li> <li>- Windows 95 CD-ROM (no installation)</li> </ul>
Processor upgrade	None		
L2 cache	256 KB / write-back / direct mapped / 10 ns / synchronous pipelined burst		
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port		
External FDD port	External FDD port (includes Floppy Disk Drive Enclosure)		
Removable CD-ROM	5.25" CD-ROM ○ / 8 x speed / multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices		
Type - model (code)	<b>9546-U9H</b>		
Preload (see side)	Windows 95 OSR2		
Remv disk - size / ms	3.0 GB / 12 ms ○ / DMA Mode 2 or PIO Mode 4 / SMART		
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks for 10.2 GB		
Avail / withdrawn date	June 1997 / July 1997 (C: is 1.99 GB, D: is 885 MB)		
Display - size and type	<b>13.3 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors</b>		
Display - technology	<b>Black Matrix TFT - active matrix / 100 to 1 contrast ratio</b>		
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / <b>2 MB EDO DRAM / 70 ns</b>		
Graph - arch/data path	PCI 2.1 / 32 bit / DCI, DirectDraw, EnDIVE support		
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt		
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors		
Memory - std / max	<b>32 MB / 104 MB</b> 70 ns / non-parity / 3.3v / EDO		
Memory - upgrade	1 socket avail for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64 MB		
Mem - implementation	8 MB in system; 8 MB on memory module; 16 MB DIMM in 1 socket; 1 socket avail Memory module under disk (not removable) and accessible by opening the keyboard		
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)		
Keyboard slope	Automated tilt up keyboard (5.5 degrees)		
Pointing / palm rest	TrackPoint III™ / integrated palm rest		
Ext keyboard support	Yes (with option cable)		
Dimensions / weight	11.7 x 9.3 x 2.23" (243 cubic inches) / 7.7 pounds (3.49 kg) with CD-ROM		
Battery - type	Lithium Ion / intelligent	<i>optional NiMH</i>	<b>Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery</b>
Battery - life (1 batt)	2.0 hours (4 hrs with 2 batt)		
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs		
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, MPEG, ext expansion) Intel Mobile Triton 82430MX PCiset / TI PCI1130 for CardBus Port Replicator I and II / <b>SelectaDock Base Model I</b> <b>SelectaDock I and II and III</b>		
Port replicator	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI / PCMCIA 2.1 compatible</b>		
Docking Station	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
PC Card Standard slots	APM-aware BIOS / AC Adapter 4 pin 3 prong (56 watts) / Selectable boot		
Serial / parallel ports			
Other features			
Video in/out	<b>Composite and S-Video in/out / game port</b>		
MPEG decoder	<b>MPEG-1 &amp; MPEG-2 Half Horizontal Resolution (HHR) decoder (MPEGCD1)</b>		
DSP function	<b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b>		
Data/fax modem	<b>Data/fax modem function via DSP (v.34 to 33.6 Kbps) / Mwave 2.21</b>		
Audio support	<b>16 bit audio chip on planar with Mwave DSP</b> <b>Int stereo speakers / .5 watt / slide volume control / internal microphone</b>		
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)		
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD		
Infrared ports	<b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>		
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate		
Warranty	<b>3 year - ThinkPad EasyServ (depot repair service) or carry-in</b>		
Service Options	On-site, M-F, 8-5, next bus day (71 cities) / Warranty extension to 5 years		
<b>Enhanced Video Card in 765D provides:</b>			
<ul style="list-style-type: none"> <li>- <b>Composite in</b> and S-Video in (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay.</li> <li>- <b>Composite out</b> and S-Video out to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad.</li> <li>- <b>Mini game port</b> for MIDI or joystick</li> <li>- Includes video in and video out ports (includes one video in/out cable)</li> <li>- Use software called Digital Video Producer™</li> <li>- <b>Hardware acceleration</b> of Video for Windows™ formerly done by a separate ASCII chip (as in 755CD and 760CD) has now been integrated into the 9385 graphics controller; interpolation in X and Y axis; color space conversion</li> <li>- <b>Plays back MPEG motion videos, CD-I movies, video CD's, and Karaoke MPEG video titles</b></li> </ul>			
<ul style="list-style-type: none"> <li>- Second HDD Adapter 29H9333</li> <li>- IDE Conversion Card (for Dock I/II) 46H5994</li> <li>- <b>SelectaDock I</b> 3547001</li> <li>- <b>SelectaDock II</b> 3547002</li> <li>- <b>SelectaDock III</b> 3547003</li> <li>- Port Replicator I (w/ PCMCIA slots) 66G3510</li> <li>- Port Replicator II 66G3520</li> <li>- <b>SelectaDock Base Model I</b> 39H7405</li> <li>- 2.88 MB diskette drive 66G0108</li> <li>- FDD External Attachment Kit 66G3618</li> <li>- 56 watt AC Adapter (4 pin; 3 prong) 12J2456</li> <li>- <b>4 x CD-ROM (UltraBay)</b> 39H7413</li> <li>- <b>6 x CD-ROM (UltraBay)</b> 85G1957</li> <li>- <b>8 x CD-ROM (UltraBay)</b> 45H8786</li> <li>- <b>8-20 x CD-ROM (UltraBay)</b> 00K7903</li> <li>- <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7340</li> <li>- <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7341</li> <li>- <b>16 MB SO DIMM NP EDO 64 bit (new)</b> 01K1124</li> <li>- <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7342</li> <li>- <b>64 MB SO DIMM 3.3v NP EDO 64 bit</b> 76H0268</li> <li>- PCMCIA 33.6 Kbps modem X.JACK 55H6759</li> <li>- 56K PC Card Modem Kit 04K0052</li> </ul>			
<b>Integrated Mwave DSP provides:</b>			
<ul style="list-style-type: none"> <li>① <b>Data modem function</b> - V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)</li> <li>② <b>Fax modem function</b> - G3 fax send/receive (14.4 Kbps)</li> <li>③ <b>Audio function</b> - Stereo waveform record and playback</li> <li>- Qsound support (3-D effect)</li> <li>- 32 voice MIDI wave table synthesizer</li> <li>- SoundBlaster support / text to speech</li> <li>- MPEG audio decode</li> <li>④ <b>Telephone function</b> - Full telephone (can use opt headset)</li> <li>- Telephone answering machine</li> <li>- Full duplex speakerphone</li> <li>⑤ <b>Digital Simultaneous Voice Data</b></li> </ul>			
Easy-Setup is entered by holding F1 when turning on.			
ThinkPad 765D supported batteries:			
<ul style="list-style-type: none"> <li>- 760 NiMH Battery (black) 41H9720</li> <li>- Li-Ion Battery Pack II (gray) 29H9329</li> <li>- Travel Quick Charger 85G1522</li> <li>- Car Battery Adapter 49G2167</li> </ul>			
ThinkPad 765 supported disks:			
<ul style="list-style-type: none"> <li>- 720 MB HDD II EIDE 12.5 mm 29H9383</li> <li>- 810 MB HDD II EIDE 12.5 mm 29H9313</li> <li>- 1.08 GB HDD II EIDE 12.5 mm 29H9319</li> <li>- 1.2 GB (1.96"+ models) 17 mm 29H9325</li> <li>- 1.4 GB HDD 3L EIDE 12.5 mm 69H8412</li> <li>- 2.1 GB (1.96"+ models) 17 mm 69H8414</li> <li>- 3.0 GB (1.96"+ models) 17 mm 45H8789</li> <li>- 5.1 GB (1.96"+ models) 17 mm 00K7902</li> </ul>			
<b>FEATURES OF 765 MODELS</b>			
Quick Setup Guide (single page)			
<b>LCD indicator panel</b>			
Plug and Play 1.0a			
Discharge battery via mouse click			
Non-disruptive battery exchange			
Standby, suspend, safe suspend, and hibernation modes			
US EPA Energy Star compliant			
Personalized nameplate in indentation			
Personalization screen at startup			
<b>International Warranty Service</b>			
<b>IBM System Care Program</b>			
<b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet</b>			
<b>(http://www.pc.ibm.com) support</b>			
<b>IBM and dealer warranty/service</b>			
<b>Online Housecall (remote diagnostics)</b>			

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).  
○ = Removable

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(765D) Compiled by Roger Dodson, IBM. June 1998

# IBM ThinkPad® 770 - withdrawn

## IBM® ThinkPad®:

Processor type/path **Pentium® MMX™ 200/66 or 233/66MHz<sup>1</sup>** (Tillamook) / 64bit to L2 and memory  
 Processor features No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel MMO  
 L2 cache **512KB** / write-back / direct mapped / 7ns data; 15ns tag / sync pipelined burst  
 Diskette (removable) **3.5"** 1.44MB / in encased enclosure / use in UltraBay II or attach externally  
 External FDD port External diskette port (use std cable to attach diskette drive externally)  
 CD-ROM (removable) **Option: 5.25" CD-ROM / 20X-8X<sup>5</sup> or 24X-10X<sup>5</sup> speed** / CAV / bootable / hot swapping  
 DVD (removable) **EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltraBay II**  
**Option: DVD-ROM drive / 8 x to 16 x spd / CAV / use in UltraBay II / (DVD5/4.7GB)**  
 requires *DVD and Enhanced Video Adapter* for movie playback / sw enb AC-3 port

Type - model	9548-40U	9548-30U	9548-31U	9549-1AU	9548-32U (AAP)
Processor	<b>200/66MHz</b>	<b>233/66MHz</b>	<b>233/66MHz</b>	<b>233/66MHz</b>	<b>233/66MHz</b>
Display (diagonal)	<b>13.3" XGA</b>	<b>13.3" XGA</b>	<b>13.3" XGA</b>	<b>14.1" XGA</b>	<b>13.3" XGA</b>
Disk (removable)	<b>3.2GB<sup>4</sup> / PIO4</b>	<b>4GB / PIO4</b>	<b>4GB / DMA33</b>	<b>5.1GB / PIO4</b>	None
Preload (see side)	<b>W95 OSR2</b>	<b>W95 OSR2</b>	<b>NT 4.0 SP3</b>	<b>W95 OSR2</b>	Blank (no disk)
DVD and Enh Vid Ad	Optional	Optional	Optional	<b>Standard</b>	Optional
Modem	Opt PC Card	Opt PC Card	Opt PC Card	<b>33.6Kbps (upg)</b>	Opt PC Card
Avail / withdrawn date	October 1997 / September 1998				

Memory - std / max **32MB / 256MB<sup>3</sup>** non-parity / 3.3v / **SDRAM** / 83 or 100MHz  
 Memory - upgrade 2 sockets available for two JEDEC 144 pin EDO or SDRAM SO-DIMMs  
 Sockets accessed by removing screw on bottom / can mix SDRAM w/ 760-supported EDO

Display - size (colors) **XGA color / 640 x 480 (16M), 800 x 600 (16M), or 1024 x 768 (65,536 siml colors)**  
 Display - technology **Active Matrix TFT** - 100 to 1 contrast ratio / 180 degree tilt

Graphics - controller **Trident™ CYBER9397** / 64-bit SVGA accelerator / **2MB SGRAM** / 83MHz  
 Graphics - arch PCI 2.1 / Direct3D, DirectDraw, DirectVideo, ActiveMovie support / ZV interface  
 Graphics - features **3D hardware accelerator** / interpolation in X and Y axis / color space conversion  
 Graphics - external External SVGA to 1280 x 1024 w/ 256 colors (75Hz) or 1024 x 768 w/ 65,536 colors

Disk (removable) Left side / removable via 3 methods: latch, coin screw, security tool / SMART  
 Disk controller Enhanced IDE / busmaster / PCI 2.1 / 430TX South Bridge / PIIX4 / supports two  
 internal disks (16.2GB max) / DMA Mode 2, Ultra DMA/33, or PIO Mode 4

Keyboard / Fn keys Full size alp/num / 7 Fn key functions / integrated palm rest  
 Keyboard slope Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)  
 Pointing device **TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace/  
 center click button for scrolling or magnifying glass / suspension top

Dimensions **1AU:** 12.3 x 10 x 2.2" (270 cubic in) / 7.8 pounds (3.55 kg) with battery/diskette  
 Weight<sup>2</sup> **Others:** 12.3 x 9.5 x 2.2" (257 cubic inches) / 7.4 pounds (3.35 kg) with batt/diskette

Battery - type Lithium Ion / intelligent / left side  
 Battery - life (1 batt) **1AU:** 3.5 hrs (7 hrs with second battery in UltraBay II) / **Others:** 4 hrs (8 hr w/ 2 batt)  
 Charge time - on / off 2 to 3 hrs / 1.5 to 2.5 hrs

Architecture ISA (audio, modem, diskette, serial, parallel, infrared, ext expansion)  
 PCI 2.1 / 32-bit / 33Mhz (EIDE, graphics, CardBus, MPEG, USB, ext expansion)  
**Intel 430TX PCliset / TI PCI1250 for CardBus / LM75 digital thermometer**

Port replicator **SelectaBase 770 / PC Card Enabler**  
 Docking Station **SelectaDock III / SelectaDock I and II**  
 PC Card Std slots 2 Type I, 2 Type II, or 1 Type III / **CardBus 32-bit PCI** / PCMCIA 2.1 / Zoomed Video  
 USB / serial / parallel One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)  
 Other features APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot

Video in/out **1AU or option:** Video in/out (composite and S-Video) / SAA7111A NTSC/PAL  
 MPEG decoder **1AU or option:** MPEG-2 / IBM MPEGCD1M / 2MB SDRAM; 100MHz  
 Data/fax modem **1AU:** 33.6Kbps (56Kbps upgradeable via x2<sup>8</sup>) / 14.4Kbps fax / telephony /  
 integrated Mwave<sup>®</sup> 3780i DSP / international programmable DAA

Audio support 16-bit / CS4237B / **SRS 3D audio** / FM synthesis / software decodes AC3 into stereo  
 Int stereo speakers (front) / **1 watt** / rotary volume control (right) / int microphone  
 Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex  
 Infrared ports Infrared ports (front and back) / IrDA 1.1 compatible / **up to 4Mbps**

Security Power-on password / Hard disk password / Supervisor password / security keyhole /  
 personalization / phillips-head screws on base for battery and UltraBay II bays

Limited warranty<sup>11</sup> **3 year** - ThinkPad EasyServ (depot repair service) or carry-in / international  
 Service options<sup>15</sup> On-site, M-F, 8-5, next bus day (72 cities) / warranty extension to 5 years

DVD and Enhanced Video Adapter provides (standard in 1AU; optional all others):	Part Number
- <b>MPEG-1, MPEG-2 HHR, and full MPEG-2 hardware decoder</b> (audio decoded via software)	11J8947
- <b>DVD movie playback</b> (MPEG-2 decoding; decryption and audio decoding via software)	02K0517
- <b>Video in</b> (composite and SVHS) (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay	11J8836
- <b>Video out</b> (composite and SVHS) to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad	<b>83H6735</b>
- <b>Dolby® Digital AC-3<sup>6</sup></b> (outputs undecoded Dolby Digital signal from AC-3 connector; CSA8404A); requires external AC3 decoder/amplifier	3547001
- <b>Three ports</b> - ① video in, ② video out, ③ AC-3	3547002
- Includes video in/out cable	<b>3547003</b>
- 5.1GB disk, 12ms, Ultra DMA/33	<b>83H6741</b>
- 8.1GB disk, 12ms, Ultra DMA/33	<b>11J8839</b>
- 2nd Disk Adapter (for 760/770 disks)	83H6739
- <b>SelectaBase 770</b>	11J8933
- SelectaDock I <sup>18</sup>	02K0516
- SelectaDock II <sup>18</sup>	11J8950
- <b>SelectaDock III<sup>18</sup></b>	11J8957
- <b>SelectaBase PC Card Enabler</b>	<b>76H0293</b>
- <b>760 UltraBay Tray for SD III</b>	<b>76H0294</b>
- 56 watt AC Adapter (barrel; 3 prong)	<b>76H0295</b>
- <b>20X-8X CD-ROM Drive</b> (UltraBay II)	04K0052
- <b>24X-10X CD-ROM Drive</b> (UltraBay II)	83H6738
- <b>DVD CD-ROM Drive</b> (UltraBay II)	
- DVD and Enh Video Adapter	
- <b>16MB SO DIMM 3.3v NP SDRAM</b>	
- <b>32MB SO DIMM 3.3v NP SDRAM</b>	
- <b>64MB SO DIMM 3.3v NP SDRAM</b>	
- 56K PC Card Modem Kit	
- ThinkPad 770 Li-Ion Battery	

## WINDOWS 95 PRELOAD<sup>16</sup>

- Microsoft® Windows® 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Configuration Program
- Diskette Factory Utilities
- 1. Puma TranXit; 2. IBM AntiVirus
- 3. Asymetrix Digital Video Producer (1AU)
- 4. RingZero Ring Central (1AU only)
- 5. Intelliquet Registration Mailer
- 6. Voyetra Audiostation
- 7. Artisoft ConfigSafe
- 8. IBM Internet Connection services with Netscape Navigator web browser
- 9. Intel® LANDesk® Client Manager
- 10. Intel Video Phone (receive) (1AU only)
- 11. ThinkPad PointCast
- 12. NetMeeting™ 2.0
- 13. Ergonomics; 14. ThinkPad on the NET
- 15. NetFinity for Windows 95
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)
- Internet Explorer 4.0 CD-ROM

## WINDOWS NT 4.0 PRELOAD

- Windows NT® Workstation (FAT16)
- Advanced NT extensions:
  - Power management
  - UltraBay Plug and Play
  - DVD (storage only; no DVD movies)
  - Hot Plug PC Card; MPEG-2 playback
  - 3D graphics (OpenGL)
  - Video capture
- Online User's Guide
- ThinkPad Configuration Program
- 1. IBM AntiVirus
- 2. IBM Internet Connection services with Netscape Navigator web browser
- 3. Intel LANDesk Client Manager

The right bay (UltraBay™ II) has LED on release latch to provide status; it supports hot swapping; it supports:  
 ① std diskette; ② optional DVD drive;  
 ③ optional CD-ROM; ④ optional 2nd disk;  
 ⑤ optional 2nd battery; ⑥ optional ThinkPad Proven™ VST Zip™ 100 drive;  
 Easy-Setup is entered by holding F1 when turning on.  
 Screens are 150 nits (90 nits on battery)

ThinkPad 770 supported disks:  
 - **3.2GB** 13ms read/14ms write  
 17 mm PIO Mode 4 or DMA Mode 2  
 - **4.0GB** 13ms read/14ms write  
 12.5 mm PIO Mode 4 or Ultra DMA/33  
 - **5.1 and 8.1GB** 12ms read/13ms write  
 17 mm PIO Mode 4 or Ultra DMA/33  
 - All 760 supported disks (requires opt adaptr)

## FEATURES OF 770 MODELS

**Wired for Management 1.1a**  
**PC 97 compliant**  
**DMI 1.1 compliant**  
 DMI instrumentation (thermal monitoring)  
**Wake-on-LAN via SelectaDock III**  
 C: is 1.99 GB, D: is up to 1.99 GB, etc.  
 Quick Setup Guide (single page)  
**LCD indicator panel**  
 Plug and Play 1.0a  
 Discharge battery via mouse click  
 Non-disruptive battery exchange  
 Standby, suspend, safe suspend, and hibernation modes  
 ENERGY STAR compliant  
 International Warranty Service<sup>14</sup>  
**IBM SystemXtra™**  
 24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support  
 IBM and dealer warranty/service

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

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# IBM ThinkPad® 770E and 770ED - withdrawn

IBM® ThinkPad®:	770E	770E	770ED	770E (AAP)	WINDOWS 95 PRELOAD <sup>16</sup>
Processor type/path	<b>Pentium® II 266/66MHz<sup>1</sup></b> (Deschutes) / 64-bit to L2 and memory				<ul style="list-style-type: none"> <li>- Microsoft® Windows® 95 OSR2.1 (FAT16)</li> <li>• Online User's Guide</li> <li>• ThinkPad Customization Center</li> <li>• ThinkPad Configuration Program</li> <li>• SystemSoft CardWorks</li> <li>• Diskette Factory Utilities</li> <li>• Puma IntelliSync 97; 2. IBM AntiVirus</li> <li>• Asymetrix Digital Video Producer (5AU)</li> <li>• RingZero Ring Central (5AU only)</li> <li>• Intelliquest Registration Mailer</li> <li>• Voyetra Audiostation</li> <li>• ConfigSafe</li> <li>• IBM Internet Connection services with Netscape Navigator web browser</li> <li>• Intel® LANDesk® Client Manager</li> <li>• Intel Video Phone (receive) (5AU only)</li> <li>• ThinkPad PointCast</li> <li>• Ergonomics</li> <li>• ThinkPad on the NET</li> <li>• NetFinity for Windows 95</li> <li>◇ Recovery CD-ROM with boot diskette</li> <li>◇ Customization CD-ROM (apps/drivers)</li> </ul>
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel MMO				
L2 cache	<b>512KB</b> / write-back / 4 way set associative/ sync pipelined burst / ECC / 133MHz				
Diskette (removable)	3.5" 1.44MB / in encased enclosure / use in UltraBay II or attach externally				
External FDD port	External diskette port (use std cable to attach diskette drive externally)				
CD-ROM (removable)	Option: <b>5.25" CD-ROM / 24X-10X<sup>5</sup> speed</b> / CAV / bootable / hot swap				
DVD-ROM (removable)	EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltraBay II Std or option: <b>DVD drive</b> / 8 x to 16 x spd / CAV / use in UltraBay II / (DVD5/4.7GB) requires DVD and Enhanced Video Adapter for movie playback / sw enb AC-3 port				
Type - model	<b>9548-51U</b>	<b>9548-52U</b>	<b>9549-5AU</b>	<b>9548-53U (AAP)</b>	
Display (diagonal)	<b>14.1" TFT XGA</b>	<b>14.1" TFT XGA</b>	<b>14.1" TFT XGA</b>	<b>14.1" TFT XGA</b>	
Disk (removable)	<b>5.1GB<sup>4</sup> / PIO4</b>	<b>5.1GB / DMA33</b>	<b>8.1GB / PIO4</b>	None	
DVD-ROM drive	Optional	Optional	<b>Standard DVD</b>	Optional	
Preload (see side)	<b>W95 OSR2.1</b>	<b>NT 4.0</b>	<b>W95 OSR2.1</b>	Blank (no disk)	
DVD and Enh Vid Ad	Optional	Optional	<b>Standard</b>	Optional	
Modem	Opt PC Card	Opt PC Card	<b>56Kbps</b>	Opt PC Card	
Avail / withdr date	April 1998 / December 1998				
Memory - std / max	<b>32MB / 288MB<sup>3</sup></b>	<b>32MB / 288MB<sup>3</sup></b>	<b>64MB / 288MB<sup>3</sup></b>	<b>32MB / 288MB<sup>3</sup></b>	
Memory - upgrade	<b>SDRAM</b> / 83 or 100MHz / non-parity / 3.3v / 2 sockets available for two JEDEC 144 pin SDRAM SO-DIMMs / sockets accessed by removing screw on bottom				
Display - size (colors)	<b>XGA color</b> / 640x480, 800x600, or <b>1024x768 (16 million simultaneous colors)</b>				
Display - technology	<b>Active Matrix TFT</b> - 100 to 1 contrast / 150 nits (AC) / 90 nits (batt) / 180 degree tilt				
Graphics - controller	<b>Trident™ CYBER9397E</b> / 64-bit accelerator / <b>4MB SGRAM</b> / 83MHz				
Graphics - arch	PCI 2.1 / Direct3D, DirectDraw, DirectVideo, DirectX 5.0 support / ZV interface				
Graphics - features	<b>3D hardware accelerator</b> / interpolation in X and Y axis / color space conversion				
Graphics - external	External SVGA to 1280x1024 w/ 64K colors (85Hz) or 1024x768 w/ 16M colors				
Disk (swappable)	Left side / removable via 3 methods: latch, coin screw, security tool / SMART				
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / 430TX South Bridge / PIIX4 / supports two internal disks (16.2GB max) / DMA Mode 2, Ultra DMA/33, or PIO Mode 4				
Keyboard / Fn keys	Full size alp/num / 7 Fn key functions / integrated palm rest				
Keyboard slope	Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)				
Pointing device	<b>TrackPoint®</b> / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps				
Dimensions	12.3 x 10 x 2.2" (270 cubic in) / <b>5AU</b> : 7.8 pounds (3.5 kg) with battery/diskette				
Weight <sup>2</sup>	<i>Others</i> : 7.6 pounds (3.45 kg) with battery/diskette				
Battery - type	Lithium Ion / intelligent / left side				
Battery - life <sup>10</sup> (1 batt)	3.5 hrs (7 hrs with second battery in UltraBay II)				
Charge time - on / off <sup>2</sup>	2 to 3 hrs / 1.5 to 2.5 hrs				
Architecture	<b>Intel 440BX PCiset</b> / TI® PCI1250A for CardBus / LM75 digital thermometer PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, CardBus, MPEG, USB, ext expansion) PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)				
Port replicator	<b>SelectaBase 770</b> / PC Card Enabler <sup>18</sup> / PC Card Enabler with Adv EtherJet <sup>18</sup>				
Docking Station	<b>SelectaDock III / SelectaDock I and II</b>				
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / <b>CardBus</b> / PCMCIA 2.1 / Zoomed Video				
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot				
Video in/out	<b>5AU or option</b> : Video in/out (composite and S-Video) / SAA7111A NTSC/PAL				
MPEG decoder	<b>5AU or option</b> : MPEG-2 / IBM MPEGCD1M / 2MB SDRAM; 100MHz				
Data/fax modem	<b>5AU</b> : 56Kbps (x2, upgradeable to v.90 <sup>9</sup> ) / 14.4Kbps fax / telephony / integrated Mwave® 3780i DSP / international programmable DAA				
Audio support	16-bit / CS4237B / <b>SRS 3D audio</b> / FM synthesis / software decodes AC3 into stereo Int stereo speakers (front) / <b>1 watt</b> / rotary volume control (right) / int microphone				
Jacks	Input jack (3.5 mm) / output jack (3.5 mm) / full duplex				
Infrared ports	Infrared ports (front and back) / IrDA 1.1 compatible / <b>up to 4Mbps</b>				
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screws on base for battery and UltraBay II bays				
Limited warranty <sup>11</sup>	<b>3 year</b> - ThinkPad EasyServ <sup>31</sup> (door-to-door depot repair service) or carry-in Rapid Depot Repair (12 hr service from arrival time for 3 bus day average turnaround)				
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (71 cities) / serv up to 5 yrs from purchase date				
<b>DVD and Enhanced Video Adapter (DEVA)</b> provides (standard in 5AU; optional all others):	<ul style="list-style-type: none"> <li>- 5.1GB disk, 12ms, Ultra DMA/33 11J8947</li> <li>- 8.1GB disk, 12ms, Ultra DMA/33 02K0517</li> <li>- 2nd Disk Adapter (for 760/770 disks) 11J8836</li> <li>- <b>SelectaBase 770</b> <b>83H6735</b></li> <li>- <b>SelectaDock III</b><sup>18</sup> <b>3547003</b></li> <li>- <b>PC Card Enabler with EtherJet</b><sup>18</sup> <b>05K4820</b></li> <li>- <b>760 UltraBay Tray for SD III</b> <b>11J8839</b></li> <li>- 56 watt AC Adapter (barrel; 3 prong) 83H6739</li> <li>- <b>20X-8X CD-ROM Drive</b> (UltraBay II) 11J8933</li> <li>- <b>24X-10X CD-ROM Drive</b> (UltraBay II) 02K0516</li> <li>- <b>DVD Drive</b> (UltraBay II) 05K8886</li> <li>- DVD and Enh Video Adapter 11J8957</li> <li>- <b>16MB SO DIMM 3.3v NP SDRAM</b> <b>76H0293</b></li> <li>- <b>32MB SO DIMM 3.3v NP SDRAM</b> <b>76H0294</b></li> <li>- <b>64MB SO DIMM 3.3v NP SDRAM</b> <b>76H0295</b></li> <li>- 900MHz Cordless Comp Connection 04K0064</li> <li>- V.90 PC Card Modem with XJACK<sup>24</sup> 10L7393</li> <li>- ThinkPad 770 Li-Ion Battery 83H6738</li> <li>- External Battery Charger 11J8985</li> </ul>				
	<p><b>PC 97 compliant</b> <b>DMI 2.0 compliant</b> DMI instrumentation (thermal monitoring) <b>ACPI ready (APM enabled)</b> <b>Wired for Management 1.1a compliant</b> <b>Wake on LAN™ support</b><sup>28</sup> C: is 1.99G, D: up to 1.99G (FAT32), etc. Setup Guide, User's Guide, Up and Running, Windows 95 manual</p> <p><b>LCD indicator panel</b> Plug and Play 1.0a Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes ENERGY STAR compliant International Warranty Service<sup>14</sup> <b>IBM SystemXtra™</b> 24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</p>				

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# IBM ThinkPad® 770X - withdrawn

IBM® ThinkPad®:	770X	770X	770X	770X	770X (AAP)	WINDOWS 98 PRELOAD <sup>16</sup>
Processor	Intel® Mobile Pentium® II 300MHz <sup>1</sup> / 66MHz system bus					<ul style="list-style-type: none"> <li>Microsoft® Windows® 98</li> <li>Online User's Guide</li> <li>ThinkPad Configuration Program</li> <li>ThinkPad Utilities</li> <li>IBM Registration</li> <li>Puma IntelliSync 97</li> <li>Norton AntiVirus</li> <li>Mediamatics DVD Express</li> <li>Artisoft ConfigSafe</li> <li>IBM Global Network Dialer</li> <li>Netscape Navigator web browser</li> <li>ThinkPad on the Net</li> <li>Ring Central</li> <li>Intel Video Phone</li> <li>Ergonomics</li> <li>Update Connector</li> <li>Recovery CD-ROM (with boot diskette)</li> <li>Customization CD-ROM (apps/drivers)</li> </ul>
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Mobile Module					
L2 cache	512KB / write-back / 4 way set associative/ sync pipelined burst / ECC / 150MHz					
Diskette (removable)	3.5" 1.44MB / in encased enclosure / use in UltraBay™ II or attach externally					
External FDD port	External diskette port (use std cable to attach diskette drive externally)					
CD-ROM (removable)	Std or option: <b>CD-ROM / 24X-10X<sup>5</sup></b> speed / bootable / hot swap/ use in UltraBay II					
DVD-ROM (removable)	Std or option: <b>2X<sup>5</sup> DVD drive / 16X-8X<sup>5</sup></b> speed / CAV / use in UltraBay II					
Type - model	9549-71U	9549-72U	9549-7AU	9549-7BU	9549-73U(AAP)	
Preload (see side)	Windows 98	NT 4.0	Windows 98	NT 4.0	Blank (no disk)	
DVD or CD-ROM	DVD-ROM	CD-ROM	DVD-ROM	CD-ROM	Optional	
Display (diagonal)	14.1" TFT XGA (1024x768)		13.7" TFT SXGA (1280x1024)		14.1" TFT XGA	
Disk (removable)	8.1GB <sup>4</sup> / 12ms read / 13ms write					
Avail / withdr date	October 1998 / June 1999					
Memory - std / max	64MB / 320MB <sup>21</sup>		128MB / 320MB <sup>21</sup>		64MB / 320MB <sup>21</sup>	
Available sockets	2 available sockets		1 socket (one used by 64MB)		2 available	
Memory - features	SDRAM / 66MHz / non-parity / 3.3v / sockets accessed by removing screw on bottom 64MB on motherboard and 2 sockets for two JEDEC 144-pin SDRAM SO-DIMMs					
Display - size	14.1" (358mm) color / 1024x768		13.7" (348mm) SXGA color / 1280x1024			
Display - colors	16.7 million simultaneous colors		65,536 simultaneous colors			
Display - technology	Active Matrix TFT / 180 degree tilt					
Graphics - controller	Trident™ CYBER9397DVD / Accelerated Graphics Port / 64-bit accelerator					
Graphics - arch	4MB SGRAM / 83MHz		8MB SGRAM / 83MHz		4MB SGRAM	
Graphics - features	3D hardware accelerator / AGP-1x / sideband / motion compensation / Direct3D					
Graphics - external	External SVGA to 1280x1024 w/ 64K colors (85Hz) / multiple-monitor support <sup>26</sup>					
Disk (swappable)	Left side / removable via 3 methods: latch, coin screw, security tool / SMART					
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / PIIX4E / supports two internal disks / DMA Mode 2, Ultra DMA/33, or PIO Mode 4					
Keyboard / Fn keys	Full size alp/num keys / 7 Fn key functions / integrated palm rest					
Keyboard slope	Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)					
Pointing device	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace/ center click button for scrolling or magnifying glass / suspension top / spare caps					
Dimensions / weight <sup>2</sup>	12.3 x 10 x 2.2" (270 cubic in) / 14.1" mod: 7.57 lbs (3.43 kg) with battery/diskette 13.7" mod: 7.63 lbs (3.46 kg) with battery/diskette					
Battery - type	Lithium Ion / intelligent / left side					
Battery - life <sup>10</sup> (1 batt)	3.5 hrs (7 hrs with second battery in UltraBay II)					
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs					
Architecture	Intel 440BX AGPset / Intel 82371EB PIIX4E (EIDE, ISA Bridge, USB) / TI® PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)					
Port replicator	SelectaBase 770 / PC Card Enabler <sup>18</sup> / PC Card Enabler with Adv EtherJet <sup>18</sup>					
Docking Station	SelectaDock III / SelectaDock I and II					
PC Card Std slots	2 Type 1, 2 Type II, or 1 Type III / CardBus / PCMCIA 2.1 / Zoomed Video					
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)					
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot					
Video in/out	Option on DEVA: Video in/out (composite and S-Video) / SAA7111A NTSC/PAL					
MPEG	Software support for MPEG-2 <sup>27</sup> because 300MHz with motion compensation					
Data/fax modem	56Kbps (x2, upgradeable to v.90 <sup>3</sup> ) / voice-capable / integrated Mwave® 3780i DSP / international programmable DAA					
Audio support	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX Int stereo speakers (front) / 1 watt / rotary volume control (right) / int microphone Input jack (3.5 mm) / output jack (3.5 mm) / full duplex					
Jacks	Infrared ports (front and back) / IrDA 1.1 compatible / up to 4Mbps					
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screws on base for battery and UltraBay II bays					
Limited warranty <sup>11</sup>	3 year - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround					
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date					
Optional DVD and Enhanced Video Adapter (DEVA) 10L1228 provides:	<ul style="list-style-type: none"> <li>- 5.1GB disk, 12ms, Ultra DMA/33 11J8947</li> <li>- 8.1GB disk, 12ms, Ultra DMA/33 02K0517</li> <li>- 14.1GB disk, 12ms, Ultra DMA/33 02K0526</li> <li>- 2nd Disk Adapter (for 760/770 disks) 11J8836</li> <li>- SelectaBase 770 83H6735</li> <li>- SelectaDock III<sup>18</sup> 3547003</li> <li>- PC Card Enabler with EtherJet™<sup>18</sup> 05K4820</li> <li>- 760 UltraBay Tray for SD III 11J8839</li> <li>- 56 watt AC Adapter (barrel; 3 prong) 83H6739</li> <li>- 24X-10X CD-ROM Drive (UltraBay II) 02K0516</li> <li>- 2X DVD Drive (UltraBay II) 05K8886</li> <li>- DVD and Enh Video Adapter (DEVA) 10L1228</li> <li>- 32MB SO DIMM 3.3v NP SDRAM 76H0294</li> <li>- 64MB SO DIMM 3.3v NP SDRAM 20L0241</li> <li>- 128MB SO DIMM 3.3v NP SDRAM 01K1150</li> <li>- V.90 PC Card Modem with XJACK<sup>24</sup> 10L7393</li> <li>- ThinkPad 770 Li-Ion Battery 83H6738</li> <li>- External Battery Charger 11J8985</li> </ul>					
	<p>WINDOWS NT 4.0 PRELOAD<sup>16</sup></p> <ul style="list-style-type: none"> <li>- Windows NT® Workstation 4.0</li> <li>- Service Pack 3</li> <li>- Internet Explorer 4.01</li> <li>- Advanced NT extensions</li> <li>- Online User's Guide</li> <li>- ThinkPad Utilities</li> <li>- ThinkPad Configuration Program</li> <li>- Norton AntiVirus (OEM Version)</li> <li>- IBM Global Network Dialer</li> <li>- Netscape Navigator web browser</li> <li>- Ergonomics</li> <li>- SystemSoft CardWizard</li> <li>- ConfigSafe</li> <li>- Puma IntelliSync 97</li> <li>Recovery CD-ROM (with boot diskette)</li> <li>Customization CD-ROM (apps/drivers)</li> </ul> <p>All models:</p> <ul style="list-style-type: none"> <li>- C: drive is FAT16 of 2GB</li> <li>- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space</li> </ul> <p>The right bay (UltraBay™ II) has LED on release latch to provide status; supports hot swapping:</p> <ul style="list-style-type: none"> <li>• std diskette</li> <li>• std or optional DVD drive</li> <li>• std or optional CD-ROM</li> <li>• optional 2nd disk</li> <li>• optional 2nd battery (requires adapter; cold swap only)</li> <li>• optional ThinkPad Proven™ VST Zip™ 100 drive or SuperDisk (LS-120) drive (cold swap only)</li> </ul> <p>ThinkPad 770 supported disks:</p> <ul style="list-style-type: none"> <li>- 3.2GB 13ms read/14ms write 17 mm</li> <li>- 4.0GB 13ms read/14ms write 12.5 mm</li> <li>- 5.1GB 12ms read/13ms write 17 mm</li> <li>- 8.1GB 12ms read/13ms write 17 mm</li> <li>- All 760 supported disks (requires opt adaptr)</li> </ul> <p>PC 97 compliant DMI 2.0 compliant</p> <p>DMI instrumentation (thermal monitoring) ACPI ready (APM enabled) Wired for Management 1.1a compliant Wake on LAN® support<sup>28</sup></p> <p>Setup Guide, User's Guide, Windows 98 or NT manual</p> <p>LCD indicator panel Plug and Play 1.0a Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes ENERGY STAR compliant International Warranty Service<sup>14</sup> IBM SystemXtra®<sup>35</sup> 24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</p>					

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# IBM ThinkPad® 770Z - withdrawn

IBM® ThinkPad®:	770Z	770Z	770Z	770Z	770Z (AAP)	WINDOWS 98 PRELOAD <sup>16</sup>
Processor	Intel® Mobile Pentium® II 366MHz <sup>1</sup> / 66MHz system bus					<ul style="list-style-type: none"> <li>Microsoft® Windows® 98</li> <li>Online User's Guide</li> <li>ThinkPad Configuration Program</li> <li>ThinkPad Utilities</li> <li>IBM Registration</li> <li>Puma IntelliSync 97</li> <li>Norton AntiVirus (OEM Version)</li> <li>Mediamatics DVD Express (DVD mod)</li> <li>ConfigSafe</li> <li>IBM Global Network Dialer</li> <li>Netscape Communicator</li> <li>Universal Management Agent</li> <li>Access ThinkPad</li> <li>ThinkPad on the Net</li> <li>RingCentral</li> <li>Intel Video Phone</li> <li>IBM Update Connector</li> <li>Software Selections CD-ROM</li> <li>Recovery CD-ROM (Windows 98)</li> <li>Recovery CD-ROM (Windows 95)<sup>7</sup></li> </ul>
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Mobile Module					
L2 cache	<b>256KB / onboard (full speed)</b> / sync pipelined burst / write-back / ECC					
Diskette (removable)	3.5" 1.44MB / in encased enclosure / use in UltraBay™ II or attach externally					
External FDD port	External diskette port (use std cable to attach diskette drive externally)					
CD-ROM (removable)	Std or option: <b>CD-ROM / 24X-10X<sup>5</sup></b> speed / bootable / hot swap/ use in UltraBay II					
DVD-ROM (removable)	Std or option: <b>2X<sup>5</sup> DVD drive</b> / use in UltraBay II / CD-ROM speed of 16X-8X <sup>5</sup>					
Type - model	<b>9549-81U</b>	<b>9549-82U</b>	<b>9549-8AU</b>	<b>9549-8BU</b>	<b>9549-83U (AAP)</b>	
Preload (see side)	<b>Windows 98</b>	<b>NT 4.0</b>	<b>Windows 98</b>	<b>NT 4.0</b>	<b>Blank (no disk)</b>	
DVD or CD-ROM	<b>DVD-ROM</b>	<b>CD-ROM</b>	<b>DVD-ROM</b>	<b>CD-ROM</b>	<b>Optional</b>	
Display (diagonal)	<b>14.1" TFT XGA (1024x768)</b>		<b>13.7" TFT SXGA (1280x1024)</b>		<b>14.1" TFT XGA</b>	
Disk (removable)	<b>14.1GB<sup>4</sup></b> / 12ms / 4902rpm / PIO4 or Ultra DMA/33 / 17mm high					
Avail / withdrawn	February 1999 / December 1999					
Memory - std / max	<b>128MB / 320MB<sup>21</sup></b>					
Available sockets	1 available socket (one used by 64MB SO-DIMM)					
Memory - features	<b>SDRAM</b> / 66MHz / non-parity / 3.3v / sockets accessed by removing screw on bottom 64MB on motherboard and 2 sockets for two JEDEC 144-pin SDRAM SO-DIMMs					
Display - size	<b>14.1"</b> (358mm) <b>color / 1024x768</b>		<b>13.7"</b> (348mm) <b>SXGA color / 1280x1024</b>			
Display - colors	<b>16.7 million simultaneous colors</b>		<b>65,536 simultaneous colors</b> at 1280x1024			
Display - technology	<b>Active Matrix TFT</b> / 180 degree tilt					
Graphics - controller	<b>Trident™ CYBER9397DVD / Accelerated Graphics Port</b> / 64-bit accelerator					
Graphics - arch	<b>4MB SGRAM</b> / 83MHz		<b>8MB SGRAM</b> / 83MHz		<b>4MB SGRAM</b>	
Graphics - features	<b>3D hardware accelerator</b> / AGP-1x / sideband / <b>motion compensation</b>					
Graphics - external	External SVGA to 1280x1024 w/ 64K colors (85Hz) / multiple-monitor support <sup>26</sup>					
Disk (swappable)	Left side / removable via 3 methods: latch, coin screw, security tool / SMART <sup>29</sup>					
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / PIIX4E / supports two internal disks / DMA Mode 2, Ultra DMA/33, or PIO Mode 4					
Keyboard / Fn keys	Full size alp/num keys / 7 Fn key functions / integrated palm rest					
Keyboard slope	Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)					
Pointing device	<b>TrackPoint®</b> / Press-to-Select / Release-to-Select / dragging / click pace/ center click button for scrolling or magnifying glass / suspension top / spare caps					
Dimensions / weight <sup>2</sup>	12.3 x 10 x 2.2" (270 cubic in) / <b>14.1" mod:</b> 7.79 lbs (3.53 kg) with battery/DVD <b>13.7" mod:</b> 7.85 lbs (3.56 kg) with battery/DVD					
Battery - life <sup>10</sup> (1 batt)	4.0 hrs (8 hrs with second battery in UltraBay II) / lithium ion / intelligent / left side					
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs					
Architecture	<b>Intel 440BX AGPset</b> / Intel 82371EB <b>PIIX4E</b> (EIDE, ISA Bridge, USB) / TI <sup>®</sup> PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer					
Port replicator	<b>SelectaDock III<sup>18</sup> / SelectaDock I and II</b>					
Docking Station	<b>2 Type 1, 2 Type II, or 1 Type III / CardBus</b> / PCMCIA 2.1 / Zoomed Video					
PC Card Std slots	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)					
USB / serial / parallel	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot					
Other features						
Video in/out	<i>Option on DEVA:</i> Video in/out (composite and S-Video) / SAA7111A NTSC/PAL					
MPEG-2 playback <sup>27</sup>	<i>W98 models:</i> Full MPEG-2 playback		<i>NT models:</i> Optional via DEVA			
DVD movie playback <sup>34</sup>	<i>W98 models:</i> Yes		<i>NT models:</i> No (limitation of NT)			
Data/fax modem	<b>56K<sup>22</sup></b> / V.90 / integrated Mwave <sup>®</sup> 3780i DSP / voice-capable / international programmable DAA					
Audio support	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX Int stereo speakers (front) / 1 watt / rotary volume control (right) / int microphone Input jack (3.5 mm) / output jack (3.5 mm) / full duplex					
Jacks	Infrared ports (front and back) / IrDA 1.1 compatible / up to 4Mbps					
Infrared ports						
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screws on base for battery and UltraBay II bays					
Limited warranty <sup>11</sup>	<b>3 year</b> - carry-in or ThinkPad EasyServ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround)					
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date					
Optional DVD and Enhanced Video Adapter (DEVA) 10L1228 provides:	<ul style="list-style-type: none"> <li>- 5.1GB disk, 12ms, Ultra DMA/33 11J8947</li> <li>- 8.1GB disk, 12ms, Ultra DMA/33 02K0517</li> <li>- 14.1GB disk, 12ms, Ultra DMA/33 02K0526</li> <li>- 2nd Disk Adapter (for 760/770 disks) 11J8836</li> <li>- SelectaBase 770 83H6735</li> <li>- SelectaDock III<sup>18</sup> 3547003</li> <li>- PC Card Enabler<sup>18</sup> 83H6741</li> <li>- PC Card Enabler with EtherJet<sup>18</sup> 05K4820</li> <li>- 760 UltraBay Tray for SD III 11J8839</li> <li>- Ultralim 56 watt AC Adpter (3 prong) 02K6545</li> <li>- 24X-10X<sup>5</sup> CD-ROM Drive (UltraBy II) 02K0516</li> <li>- 2X<sup>5</sup> DVD Drive (UltraBay II) 05K8886</li> <li>- DVD and Enh Video Adapter (DEVA) 10L1228</li> <li>- 32MB SO DIMM 3.3v NP SDRAM 76H0294</li> <li>- 64MB SO DIMM 3.3v NP SDRAM 20L0241</li> <li>- 128MB SO DIMM 3.3v NP SDRAM 01K1150</li> <li>- V.90 PC Card Modem with XJACK<sup>24</sup> 10L7393</li> <li>- ThinkPad 770 Li-Ion Battery 83H6738</li> </ul>					
	<p><b>PC 97 compliant</b> <b>DMI 2.0 compliant</b> DMI instrumentation (thermal monitoring) <b>ACPI ready</b> (APM enabled) <b>Wired for Management 1.1a compliant</b> <b>Wake on LAN<sup>®</sup> support<sup>28</sup></b> Setup Guide, User's Guide, Windows 98 or NT manual</p> <p><b>LCD indicator panel</b> Plug and Play 1.0a Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes ENERGY STAR compliant Asset ID wireless RF technology (available only as an AAP option on the 770Z model 83U; Atmel<sup>®</sup> AT24RF08 EEPROM)</p> <p>International Warranty Service<sup>14</sup> <b>IBM SystemXtra<sup>®35</sup></b> 24 hour / 7 day<sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</p>					

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No warranties are expressed or implied in this summary (770Z) © IBM Corp. December 1999

# IBM ThinkPad Power Series 820 - withdrawn

<b>IBM® ThinkPad®:</b> <b>⌘ 820</b> PowerPC - TFT color - CD-ROM		<b>ThinkPad Power Series 820 strengths:</b>																																																																																																																						
Processor type	<b>Power PC 603e</b> / 100/33 MHz / 32 KB L1 cache	<ul style="list-style-type: none"> <li>⌘ <b>PowerPC performance</b></li> <li>⌘ <b>AIX or NT preloaded (or no operating sys)</b></li> <li>⌘ <b>Removable, double speed, 5.25" CD-ROM</b></li> <li>⌘ <b>Standard or optional Video Card (acceleration, composite video in/out)</b></li> </ul>																																																																																																																						
L2 cache	256 KB / write through / 2 way associative / 32 bit transfers																																																																																																																							
Processor / L2 upgrade	None																																																																																																																							
Removable diskette	Internal or external 3.5" 1.44 MB ○ / external diskette drive connector Can use diskette and CD-ROM simultaneously as diskette drive ships with an external case with cable	<b>Operating System preloads:</b> <ol style="list-style-type: none"> <li>① IBM AIX Version 4 for Clients 4.1.3 <ul style="list-style-type: none"> <li>- Ultimedia Services Ver 2.1.2</li> <li>- Insignia SoftWindows Ver 1.1</li> <li>- Speech Dictation</li> <li>- Personal Conferencing for AIX (some mod)</li> <li>- Essentials! (catalogs and support)</li> <li>- Power, Performance, Potential multimedia presentation</li> <li>- CD-ROMs included: Program Pack, AIX backup, Pers Conferencing for AIX (some)</li> <li>- Black 3 button mouse</li> </ul> </li> <li>② Microsoft Windows NT 3.51 Workstation <ul style="list-style-type: none"> <li>- Essentials! (catalogs and support)</li> <li>- Power, Performance, Potential presenta</li> <li>- Comuserve WinCIM Power Series Ed</li> <li>- Introducing ThinkPad Power Series 820</li> <li>- CD-ROMs included: Program Pack, NT backup</li> </ul> </li> <li>③ No preloaded operating system <ul style="list-style-type: none"> <li>- CD-ROMs included: Program Pack, Pers Conferencing for AIX (some mod)</li> </ul> </li> <li>④ IBM OS/2 Warp Connect (when available)</li> <li>⑤ Solaris (when available)</li> </ol>																																																																																																																						
Removable CD-ROM	<b>5.25" CD-ROM</b> ○ / double speed / multi-session / XA / SCSI-2 / bootable The middle bay supports either the standard diskette drive or standard CD-ROM																																																																																																																							
Type - model	6040-xxx (listed below)																																																																																																																							
Available date	July 1995 or later (listed below)	<b>G10 Graphics with Motion Video Adapter (some models) provides:</b> <ul style="list-style-type: none"> <li>- <b>Acceleration</b> of motion video with scaling (no interpolation) of image. Video may be scaled up to full screen without frame rate degradation</li> <li>- <b>Composite in</b> (from camcorder, TV, VCR) for video capture (capture and digitize video), still image capture (capture and digitize still photo images), and overlay (view video on LCD without capturing it to disk). Uses NTSC or PAL</li> <li>- <b>Composite out</b> (to camcorder, TV, VCR) in NTSC.</li> <li>- Includes a cable with in/out RCA jacks to connect to the "integrated video connector" on back of unit</li> </ul>																																																																																																																						
Disk controller	SCSI-2 Fast (for disk, CD-ROM) / external SCSI-2 50 pin connector																																																																																																																							
Removable disk - size	<i>Choice:</i> <b>540 MB</b> 14 ms □ ○ / <b>810 MB</b> 14 ms □ ○ / <b>1.2 GB</b> 12 ms ○																																																																																																																							
Display - type	<i>Choice:</i> Color 640 x 480 or Color 800 x 600 (listed below)	<b>Options for ThinkPad Power Series 820:</b> <ul style="list-style-type: none"> <li>- Disks: 540 MB SCSI-2 30H1388</li> <li>810 MB SCSI-2 30H1392</li> <li>1.2 GB SCSI-2 30H1467</li> <li>- AC Adapter 50 watts 30H1403</li> <li>- 820 Travel Quick Charger 30H1373</li> <li>- 820 NiMH Battery Pack 30H1369</li> <li>- IBM Personal Microphone 12H1504</li> <li>- 8 MB SO DIMM parity 92G7255</li> <li>- 16 MB SO DIMM parity 92G7257</li> </ul>																																																																																																																						
Display - technology	<b>Black Matrix TFT - active matrix / up to 65,536 simultaneous colors</b>																																																																																																																							
Display - diagonal size	10.4 inch / 100 to 1 contrast ratio for 640 x 480 / 110 to 1 for 800 x 600																																																																																																																							
Graphics - controller	WD90C24A Rev C with 1 MB DRAM (called G10 Graphics Adapter)	<b>FEATURES OF 820 MODELS</b> Battery life and other indicators Non-disruptive battery exchange Suspend mode US EPA Energy Star compliant Personalized nameplate in molded indentation Compatible with PowerPC Reference Platform™ Specifications (PReP) v1.1 <b>3 year warranty</b> <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, and electronic support</b> <b>IBM warranty/service</b> <b>30 day money back guarantee</b>																																																																																																																						
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)																																																																																																																							
Graph - arch/data path	PCI 2.0 / 32 bit / Simultaneous LCD and CRT / 180 degree tilt																																																																																																																							
Video function	<i>Some:</i> <b>Video acceleration / composite in/out</b> (called G10 Graphics with Motion Video Adapter) with Personal Conferencing for AIX CD-ROM	<b>ALL 820 MODELS</b> <b>Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, disk, battery, and memory</b>																																																																																																																						
Memory - std / max	16 or 32 MB / 48 MB 70 ns / <b>parity</b> / 5 volt / 32 bit transfers																																																																																																																							
Mem - sockets	Standard: 1 or 2 SO DIMMs; available: 2 or 1 SO DIMM sockets (16 MB DIMM(s) std)																																																																																																																							
Mem-options available	8, 16 MB JEDEC 72 pin SO DIMMs	<b>Keyboard / # of keys</b> Full size alp/num / 84 (no Fn key) Easy-Setup is entered by holding F1 when power on <b>Keyboard slope</b> <b>Palm rest space</b> <b>Mouse/pointing</b> <b>TrackPoint III™</b> <b>Ext keyboard support</b> Yes (with option cable)																																																																																																																						
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Keyboard slope	<b>Palm rest space</b>																																																																																																																							
Mouse/pointing	<b>TrackPoint III™</b>	<b>Dimensions</b> 11.7 x 8.3 x 2.2" (213 cubic inches) <b>Color</b> Black <b>Weight (with battery)</b> 7.5 pounds (with CD-ROM)																																																																																																																						
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Dimensions	11.7 x 8.3 x 2.2" (213 cubic inches)																																																																																																																							
Battery - type	Nickel hydride (NiMH) / intelligent	<b>Battery - life</b> 2 to 5 hours <b>Charge time - on / off</b> 2.0 hrs / 1.5 hrs																																																																																																																						
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Charge time - on / off	2.0 hrs / 1.5 hrs																																																																																																																							
Architecture	PCI 2.0 / 32 bit / 33 MHz / 5 volt (SCSI, motion video) ISA (audio, PCMCIA, diskette, serial, parallel, 120-pin external expansion) VL-Bus 2.0 / 32 bit (graphics via PCI-to-VL Bridge)	<b>Docking Station</b> None <b>Port replicator</b> None <b>PCMCIA™ 2.1 slots</b> 2 Type I or 2 Type II or 1 Type III <b>Serial / parallel ports</b> One 9 pin; 16550A / Enhanced Parallel Port (EPP and IEEE 1284) <b>Other features</b> Universal AC adapter, 50 watts, not wallmount / Drive Startup Sequence																																																																																																																						
Docking Station	None																																																																																																																							
Port replicator	None																																																																																																																							
Data/fax modem	None (use PCMCIA)	<b>Audio support</b> <b>CD quality audio (44.1 kHz, 16 bit, stereo)</b> / Crystal Semiconductor™ CS4231 Internal stereo speakers (.5 watt each) / dial volume control Internal microphone / IBM Personal Microphone (earphone and headset) <b>Audio in/out jacks</b> Input jack / output jack <b>Infrared ports</b> None																																																																																																																						
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Audio in/out jacks	Input jack / output jack																																																																																																																							
Security	Power-on password / Supervisor password / Hardware security loop (locking lever) / Keyboard lock / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock	<b>Preinstalled software</b> <i>Choice:</i> none or select a supported operating system (listed on side) <b>Warranty</b> <b>3 year</b> - ThinkPad EasyServ <b>Warranty options</b> ThinkPad EasyServ Overnight Repair Option																																																																																																																						
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**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99  
 □ = Upgradeable; ○ = Removable; ⌘ = Withdrawn effective March 20, 1996

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 No warranties are expressed or implied in this summary (820) Compiled by Roger Dodson, IBM. February 1996

# IBM ThinkPad Power Series 850 - withdrawn

<b>IBM® ThinkPad®:</b>	⊗ 850 PowerPC - TFT color - CD-ROM - Video Card	<b>ThinkPad Power Series 850 strengths:</b>
Processor type	<b>Power PC 603e</b> / 100/66 MHz / 32 KB L1 cache	<ul style="list-style-type: none"> <li>⊕ <b>PowerPC performance</b></li> <li>⊕ <b>Collaborative and conversational computing</b></li> <li>⊕ <b>Removable, double speed, 5.25" CD-ROM</b></li> <li>⊕ <b>Video card (acceleration, composite video)</b></li> <li>⊕ <b>Optional top mounted video camera</b></li> </ul>
L2 cache	256 KB / write back / direct mapped / 64 bit transfers	
Processor / L2 upgrade	None	<b>Operating System Preloads:</b> <ul style="list-style-type: none"> <li>① IBM AIX Version 4 for Clients 4.1.3 <ul style="list-style-type: none"> <li>- Ultimedia Services Ver 2.1.2</li> <li>- Insignia SoftWindows Ver 1.1</li> <li>- Speech Dictation</li> <li>- Personal Conferencing for AIX on CD</li> <li>- Essentials! (catalogs and support)</li> <li>- Power, Performance, Potential multimedia presentation</li> <li>- CD-ROMs included: Program Pack, AIX backup, Pers Conferencing for AIX</li> <li>- Black 3 button mouse</li> </ul> </li> <li>② Microsoft Windows NT 3.51 Workstation <ul style="list-style-type: none"> <li>- Essentials! (catalogs and support)</li> <li>- Power, Performance, Potential presenta</li> <li>- Compuserve WinCIM Power Series Ed</li> <li>- Introducing ThinkPad Power Series 850</li> <li>- CD-ROMs included: Program Pack, NT backup</li> </ul> </li> <li>③ No preloaded operating system <ul style="list-style-type: none"> <li>- CD-ROMs included: Program Pack, Personal Conferencing for AIX</li> </ul> </li> <li>④ IBM OS/2 Warp Connect (when available)</li> <li>⑤ Solaris (when available)</li> </ul>
Removable diskette	Internal or external 3.5" 1.44 MB ○ / external diskette drive connector Can use diskette and CD-ROM simultaneously as diskette drive ships with an external case with cable	
Removable CD-ROM	<b>5.25" CD-ROM ○</b> / double speed / multi-session / XA / SCSI-2 / bootable The middle bay supports either the standard diskette drive or standard CD-ROM	<b>G10 Graphics with Motion Video provides:</b> <ul style="list-style-type: none"> <li>- <b>Acceleration</b> of motion video with scaling (no interpolation) of image. Video may be scaled up to full screen without frame rate degradation</li> <li>- <b>Composite in</b> (from camcorder, TV, VCR) for video capture (capture and digitize video), still image capture (capture and digitize still photo images), and overlay (view video on LCD without capturing it to disk). Uses NTSC or PAL</li> <li>- <b>Composite out</b> (to camcorder, TV, VCR) in NTSC. So can use TV as an external display or record the contents of the screen to VCR</li> <li>- ThinkPad 850 includes in/out RCA jacks on the back of the system</li> </ul>
Type - model	6042-xxx (listed below)	
Available date	July 1995 or later (listed below)	<b>Options for ThinkPad Power Series 850:</b> <ul style="list-style-type: none"> <li>- Disks: 540 MB SCSI-2 30H1388</li> <li>810 MB SCSI-2 30H1392</li> <li>1.2 GB SCSI-2 30H1467</li> <li>- AC Adapter 50 watts 30H1403</li> <li>- <b>Video Camera (NTSC) 85G2715</b></li> <li>- 850 NiMH Battery Pack 85G2671</li> <li>- 850 Quick Charger 85G2662</li> <li>- IBM Personal Microphone 12H1504</li> <li>- 4 MB IC DRAM 70ns 5v parity 92G7238</li> <li>- 8 MB IC DRAM 70ns 5v parity 92G7241</li> <li>- 16 MB IC DRAM 70ns 5v parity 92G7234</li> <li>- 32 MB IC DRAM 70ns 5v parity 92G7235</li> </ul>
Disk controller	SCSI-2 Fast (for disk, CD-ROM) / external SCSI-2 50 pin connector	
Removable disk - size	Choice: <b>540 MB</b> 14 ms □ ○ / <b>810 MB</b> 14 ms □ ○ / <b>1.2 GB</b> 12 ms ○	<b>FEATURES OF 850 MODELS</b> Battery life and other indicators Non-disruptive battery exchange Suspend mode US EPA Energy Star compliant Personalized nameplate in molded indentation Compatible with PowerPC Reference Platform™ Specifications (PReP) v1.1 <b>3 year warranty</b> <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, and electronic support</b> <b>IBM warranty/service</b> <b>30 day money back guarantee</b>
Display - type	Choice: Color 640 x 480 or Color 800 x 600 (listed below)	
Display - technology	<b>Black Matrix TFT - active matrix</b> / up to 65,536 simultaneous colors	<b>ALL 850 MODELS</b> <b>Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, disk, and memory (Battery removed from side)</b>
Display - diagonal size	10.4 inch / 100 to 1 contrast ratio for 640 x 480 / 110 to 1 for 800 x 600	
Graphics - controller	WD90C24A Rev C with 1 MB DRAM (called G10 Graphics Adapter)	<b>Architecture</b> PCI 2.0 / 32 bit / 33 MHz / 5 volt (SCSI, motion video) ISA (audio, PCMCIA, diskette, serial, parallel, 120-pin external expansion) VL-Bus 2.0 / 32 bit (graphics via PCI-to-VL Bridge)
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)	
Graph - arch/data path	PCI 2.0 / 32 bit / Simultaneous LCD and CRT / 180 degree tilt	<b>Docking Station</b> None Port replicator None PCMCIA™ 2.1 slots <b>2 Type I or 2 Type II or 1 Type III</b> One 9 pin; 16550A / Enhanced Parallel Port (EPP and IEEE 1284) Other features Universal AC adapter, 50 watts, not wallmount / Drive Startup Sequence
Video function	<b>Video acceleration / composite in/out</b> (called G10 Graphics with Motion Video)	
Video camera	Option: CCD camera on top of LCD / NTSC / white balance, iris, lens focus	<b>Data/fax modem</b> None (use PCMCIA) / voice-over-data using industry standard modems <b>CD quality audio (44.1 kHz, 16 bit, stereo)</b> / Crystal Semiconductor™ CS4231 Internal stereo speakers (1 watt each) / dial volume control Internal microphone / IBM Personal Microphone (earphone and headset) Input jack / output jack / line in / line out (all 3.5 mm) <b>Audio in/out jacks</b> Infrared ports None
Memory - std / max	16 or 32 MB / 80 to 96 MB 70 ns / parity / 5 volt / 64 bit transfers	
Mem - sockets	Standard: 2 SO DIMMs in 2 SO DIMM sockets; available: 2 IC DRAM sockets	<b>Security</b> Power-on password / Supervisor password / Hardware security loop (locking lever) / Keyboard lock / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock
Mem-options available	4, 8, 16, 32 MB IC DRAMs / must be installed in matched pairs	
Keyboard / # of keys	Full size alp/num / 84 (no Fn key)	<b>Preinstalled software</b> Choice: none or select a supported operating system (listed below) <b>Warranty</b> <b>3 year - ThinkPad EasyServ</b> <b>Warranty options</b> ThinkPad EasyServ Overnight Repair Option
Keyboard slope	Yes (legs pop out) / <b>palm rest space</b>	
Mouse/pointing	<b>TrackPoint III™</b>	<b>Compatible in 820 and 850:</b> ① Disks, ② CD-ROM, ③ AC Adapter
Ext keyboard support	Yes (with option cable)	
Dimensions	11.7 x 10.2 x 2.4" (286 cubic inches)	<b>ThinkPad EasyServ™:</b> customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99. □ = Upgradeable; ○ = Removable; ⊗ = Withdrawn effective March 20, 1996
Color	Black	
Weight (with battery)	7.96 pounds (with CD-ROM)	<b>IBM trademarks are the property of their respective owners</b> No warranties are expressed or implied in this summary (850) Compiled by Roger Dodson, IBM. February 1996
Battery - type	Nickel hydride (NiMH) / Intelligent	
Battery - life	2 to 5 hours	
Charge time - on / off	2 hrs / 1.5 hrs	

- <sup>1</sup> MHz only measures microprocessor internal clock speed (or bus speed where indicated), not application performance. Other factors also affect application performance.
- <sup>2</sup> Unless otherwise indicated, weight includes battery (and travel cover on ThinkPad 600) and excludes external diskette, CD, and/or DVD drives if applicable; actual weight may vary due to vendor components, manufacturing process and options.
- <sup>3</sup> Current available memory options allow memory expansion up to 160MB using two 64MB SDRAM SO DIMMs in the two available slots for memory expansion. Memory expansion beyond 160MB will depend on the availability of memory options larger than 64MB built to IBM ThinkPad 600-770 specifications and such availability cannot be assured. EDO memory is not supported in ThinkPad 770E/ED models.
- <sup>4</sup> GB means billion bytes when referring to hard drive capacity. Accessible capacity varies.
- <sup>5</sup> Variable read rate. Actual playback speed will vary and is often less than the maximum possible.
- <sup>6</sup> DVD drive required for ThinkPad 770 models (standard in some models). For Dolby Digital output, the 'DVD and Enhanced Video Adapter' (11J8957) must be installed (standard in some models) and the ThinkPad notebook connected to appropriate receiver and external speakers.
- <sup>7</sup> ThinkPad notebooks are delivered with Windows 98 preloaded on the hard disk drive and a Windows 98 Recovery CD in the box. For customers who prefer Windows 95, a Windows 95 Recovery CD is also included for installation of Windows 95. Installation of Windows 95 results in removal of the Windows 98 preload.
- <sup>8</sup> Upgrade on 9549-1AU (770) and -5AU (770ED) and 770X via Internet software download at no additional charge (Internet access fees excepted). Software upgrade via the Internet to the V.90 56K ITU standard beginning in 4Q98. Subject to change without notice. x2 modems are designed to be capable of receiving data at up to 56Kbps from an x2-compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.
- <sup>9</sup> Software upgrade via the Internet to the V.90 56K ITU standard beginning 4Q98. Subject to change without notice.
- <sup>10</sup> Results obtained using BAPCo (Business Applications Performance Corporation) SYSmark Benchmark Test. Battery life and recharge times will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences. Battery life may be less using Windows NT.
- <sup>11</sup> For terms and conditions or a copy of IBM's Statement of Limited Warranty, call 1 800 772-2227 in the U.S. and in Canada, call 1 800 426-2255.
- <sup>12</sup> IBM makes no warranties, expressed or implied regarding ThinkPad Proven products and services, including Year 2000 readiness and any implied warranties of merchantability and fitness for a particular purpose.
- <sup>13</sup> If you qualify and subject to condition.
- <sup>14</sup> Available in those countries where IBM and IBM resellers sell and service ThinkPad products. Registration required. Service level is based on the standard service for ThinkPad notebooks in that particular country.
- <sup>15</sup> Service options available based on specific ThinkPad notebook purchased; not all machine types and models are eligible, other limitations apply. Call 1800 426-3395 and request document #11008 or call your IBM authorized reseller for additional information. Service options must be purchased during the original product warranty period.
- <sup>16</sup> Some software may differ from its retail version (if any) and may not include user manuals or all program functionality. Warranty, service and support for non-IBM products are provided directly to you by third parties, not IBM. IBM makes no representations or warranties regarding non-IBM products. For non-IBM software applicable third-party software licenses may apply.

- <sup>17</sup> SelectaDock III, PC Card Enabler, and/or PC Card Enabler with Advanced EtherJet Feature requires optional SelectaBase 600
- <sup>18</sup> SelectaDock III, PC Card Enabler, and/or PC Card Enabler with Advanced EtherJet Feature requires optional SelectaBase 770.
- <sup>19</sup> On ThinkPad 600, DVD drive supports standard CD-ROM and data-only DVD discs. DVD movie playback requires an optional third-party DVD PC Card adapter. DVD movie playback not supported with Windows NT.
- <sup>20</sup> Lotus SmartSuite may be preinstalled or provided on CD-ROM depending on the model. Diskettes and hard copy documentation are available at an extra charge.
- <sup>21</sup> The IBM ThinkPad 770X is designed to recognize up to 320MB of addressable memory with the new Mobile Pentium II processor at 300MHz. 64MB or 128MB of new, fast SDRAM SO DIMM system memory (RAM) is standard, depending on model. Current available memory options allow memory expansion up to 320MB using two 128MB SDRAM SO DIMMs in the two user accessible slots for memory expansion. On models with the 13.7-inch display, one of these slots is currently occupied with a 64MB SDRAM that provides the standard 128MB of system memory. This 64MB SDRAM would have to be removed and replaced with a 128MB SDRAM to achieve the 320MB maximum.
- <sup>22</sup> These 56K V.90 modems are designed to be capable of receiving data at up to 56Kbps from a compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.
- <sup>23</sup> x2 modems are designed to be capable of receiving data at up to 56Kbps from an x2-compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.
- <sup>24</sup> Designed to be capable of receiving at up to 56kbps with x2 or V.90 compatible phone line and server equipment, and transmitting at up to 31.2kbps. Public networks currently limit download speeds to about 53kbps. Actual speeds vary and are often less than the maximum.
- <sup>25</sup> For ThinkPad 600 or 600E, to achieve 288MB memory configuration on models with 64MB standard, you need to replace one 32MB SDRAM SO DIMM in the memory slot with 128MB SDRAM SO DIMM and add a second 128MB SDRAM SO DIMM.
- <sup>26</sup> Multiple monitor support gives you the ability to expand your ThinkPad desktop area by attaching an external monitor or second display, allowing you to view two different applications running simultaneously. External device must support the same maximum resolution and refresh rate as that of the built-in notebook display. Available video memory may limit resolution and/or color depth. Individual application support for this feature will vary.
- <sup>27</sup> Software-supported MPEG-2 playback is supported on ThinkPad 770X and 770Z models with Windows 98. Software-supported MPEG-2 playback and support for video capture on Windows NT models requires the optional 'DVD and Enhanced Video Adapter'.
- <sup>28</sup> For ThinkPad 770, IBM Wake on LAN support available via the optional SelectaBase 770 and PC Card Enabler with Advanced EtherJet Feature or SelectaDock III and a Wake on LAN network interface card. For ThinkPad 600, IBM Wake on LAN support available via the optional SelectaBase 600 and PC Card Enabler with Advanced EtherJet Feature or SelectaDock III and a Wake on LAN network interface card. For the ThinkPad 380Z, 390, 560Z, and 570, IBM Wake on LAN support available via the optional ThinkPad Port Replicator with Advanced EtherJet Feature.
- <sup>29</sup> S.M.A.R.T. is defined as Self-Monitoring, Analysis and Reporting Technology.
- <sup>30</sup> Response time varies. May exclude some holidays.
- <sup>31</sup> ThinkPad EasyServ: customer calls 1-800-772-2227, courier service picks up ThinkPad system at most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, five business day average turnaround). Rapid Depot Repair (12-hour turnaround at depot from the time the machine arrives at the depot; three business day average turnaround) is standard for ThinkPad 600 and 770 systems in warranty and included for all ThinkPad systems as part of any mobile warranty upgrade. sent. Service levels are response objectives and are not guaranteed.

<sup>32</sup> Onsite service: for customers who have purchased on-site service options, LCD screen replacements and other selected repair replacements may be completed at a Depot repair center at IBM's discretion. National on-site coverage is available for selected ThinkPad products 8 a.m. to 5 p.m., customer's time zone, Monday through Friday, excluding holidays, next business day response. Not available in Alaska, Hawaii, Montana, and Wyoming (depot repair service only). Available in selected locations in other states.

<sup>33</sup> Maximum memory varies depending on model, and may require replacement of standard memory with optional maximum memory module.

<sup>34</sup> On ThinkPad 770X and 770Z, software-supported DVD movie playback is supported with an optional DVD drive (standard on some models) and Windows 98. All other 770 models require the optional DVD and Enhanced Video Adapter and either Windows 95 or Windows 98 for DVD movie playback.

<sup>35</sup> SystemXtra is available to commercial and state and local government customers with valid credit. Program is subject to change without notice. Additional terms, conditions and limitations may apply. IBM Global Financing offerings are made available through IBM Credit Corporation in the US and other IBM subsidiaries and divisions worldwide.

<sup>36</sup> ThinkPad 390, 570 and 600: thickness may vary at certain points on the system.

<sup>37</sup> These 56K V.90 modems are designed to be capable of receiving data at up to 56Kbps from a K56Flex or V.90 compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.

<sup>38</sup> DVD movie playback not supported with Windows NT.

<sup>39</sup> External device must support the same maximum resolution and refresh rate as that of the built-in notebook display.

These systems ship with an operating system.

As an ENERGY STAR Partner, the IBM Personal Systems Group has determined that this product meets the ENERGY STAR guidelines for energy efficiency. ENERGY STAR is a U.S. registered mark.

<sup>40</sup> Delivered with Windows 98 SE preloaded on the hard disk drive and a Windows 98SE Recovery CD in the box. For customers who prefer Windows 95, a Windows 95 Recovery CD is also included for installation of Windows 95. Installation of Windows 95 results in removal of the Windows 98 preload.

<sup>41</sup> For the models with Intel SpeedStep technology, denotes maximum performance mode; battery optimization mode is a lower MHz speed.



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