



# *Personal Systems Reference Lenovo® Essential Notebooks*

*June 2013 - Version 437*



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Lenovo B560



Lenovo B560



Lenovo B560



Lenovo B560

Type-model	Pro-cessor	GHz	Max turbo (GHz)	Memory	Widescreen display	Cam-era	Integrated graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI con-necter	eSATA port	Win7 preload	Avail date
4330-2AU	i3-380M	2.53	None	2GB	15.6" HD	0.3M	Intel HD	320GB 5400 <sup>8</sup>	DVD±RW	11b/g/n <sup>28</sup>	Black	None	eSATA	Pro 64	Aug 12
4330-2BU	i3-380M	2.53	None	4GB	15.6" HD	0.3M	Intel HD	500GB 5400	DVD±RW	11b/g/n	Black	None	eSATA	Pro 64	Aug 12

- 15.6" widescreen, glossy display
- Integrated 0.3 megapixel camera
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

Positioning Processor	<i>Widescreen flexibility; two-spindle</i> <b>Intel® Core™ i3-380M processor (dual-core, 2.53GHz, 3MB cache),</b> DDR3 memory controller (up to 1066MHz), HT technology	<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Professional 64  <b>Preloaded applications<sup>14</sup></b> (only some listed) <ul style="list-style-type: none"> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo ReadyComm</li> <li>• McAfee® VirusScan® Plus (60 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• CyberLink YouCam</li> <li>• Lenovo Energy Management Software</li> <li>• Cyberlink Power2Go (DVD±RW)</li> </ul>
Memory	8GB max <sup>7</sup> / <b>PC3-8500 1066MHz DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets;	
Diskette drive	None	
SATA DVD±RW	DVD burner, dual-layer support, removable, 12.7mm high, tray-in	
SATA disk	Hard Disk Drive / SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable,	
Widescreen display	<b>15.6"</b> (396mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio	
Camera	Camera on top of screen, 0.3-megapixel, fixed focus	
Integrated graphics	<b>Intel HD Graphics</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector (on selected models)	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	Numeric keypad on right of keyboard	
Touch controls	None	
Touch pad	Touch pad with two button, supports scroll feature	
Dimensions <sup>3</sup>	<i>(WxDxH):</i> 14.88" x 10.04" x 0.71" to 1.34"; 378mm x 255mm x 18 to 34mm	65-watt AC adapter RoHS-compliant  <b>Limited Warranty<sup>12</sup></b> ⇨ <b>1-year warranty*:</b> * <b>1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b> ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> <ul style="list-style-type: none"> <li>• <b>3-year Depot warranty</b> 78Y1538</li> <li>• <b>1-year Mail In with accidental damage protection</b> 55Y2511</li> <li>• <b>3-year Mail In with accidental damage protection</b> 78Y1539</li> <li>• <b>3-year Onsite warranty</b> 78Y1540</li> <li>• <b>1-year Onsite with accidental damage protection</b> 78Y1533</li> </ul> ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell:</i> from 5.51 lb (2.50kg)	
Case color	Black top, black bottom	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b>	
Battery - life <sup>10</sup>	<i>6-cell:</i> up to 4 hr	
Chipset	<b>Mobile Intel HM55 Express Chipset</b>	
ExpressCard/34	None	
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)	
Ports	Three USB 2.0, one USB 2.0/eSATA combo port, ethernet (RJ-45), external monitor (VGA DB-15, HDMI on selected models)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, 1x1	
Bluetooth™	None	
Modem	None	
Ethernet	Gigabit ethernet, Atheros® AR8131L	
Audio support	High Definition (HD) Audio, Realtek® ALC269Q codec / stereo speakers (2 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	
Security	Power-on password, hard disk password, supervisor password, security lockhole	
Fingerprint reader	None	

See footnotes for important warranty information  
 US models announced August 8, 2012

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 (YUSN1-1) August 2012

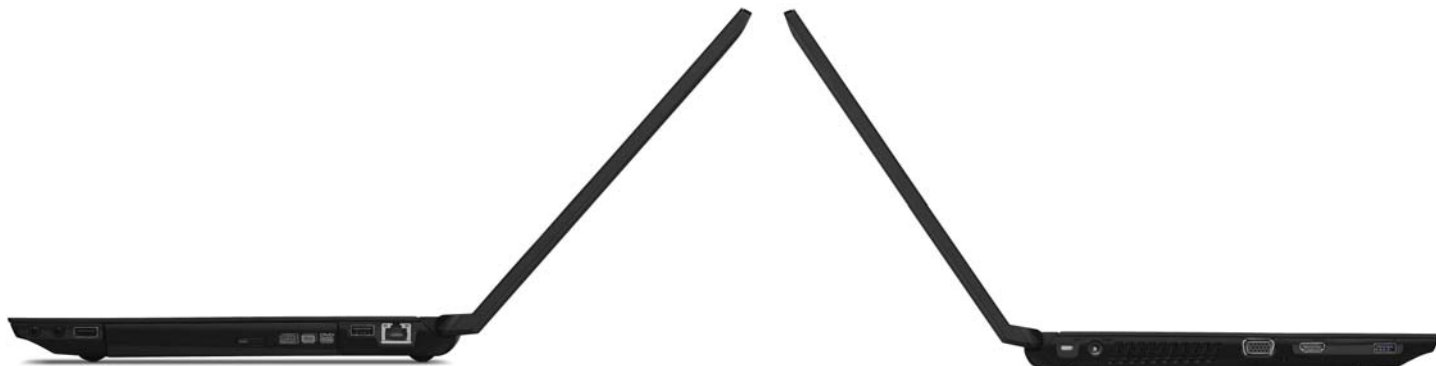
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Lenovo B575e



Lenovo B575e



Lenovo B575e

Lenovo B575e



Lenovo B575e



Lenovo B575e

Type-model	Pro-cessor	GHz	Max turbo (GHz)	Memory	Widescreen display	Cam-era	Integrated graphics	SATA disk	SATA optical	PCIe Mini Card WLAN / BT	Top color	HDMI con-necter	Preload	Avail date
3685-A2U	E2-1800	1.70	None	2GB	15.6" HD Glos	720p	HD 7340	320GB 5400 <sup>8</sup>	DVD±RW	11b/g/n	Black	HDMI	Pro 64	Nov 12
3685-A3U	E2-1800	1.70	None	4GB	15.6" HD Glos	720p	HD 7340	500GB 5400	DVD±RW	11b/g/n	Black	HDMI	Pro 64	Nov 12
3685-A4U	E2-1800	1.70	None	4GB	15.6" HD Glos	720p	HD 7340	500GB 5400	DVD±RW	11b/g/n	Black	HDMI	Prem 64	Nov 12
3685-A5U	E2-1800	1.70	None	2GB	15.6" HD	720p	HD 7340	320GB 5400	DVD±RW	11b/g/n	Black	HDMI	Pro 64	Nov 12
3685-A6U	E2-1800	1.70	None	4GB	15.6" HD	720p	HD 7340	500GB 5400	DVD±RW	11b/g/n	Black	HDMI	Pro 64	Nov 12

- 15.6" widescreen, anti-glare
- Integrated 720p HD camera

Positioning Processor	<i>Widescreen flexibility; two-spindle</i> <b>AMD Accelerated Processor E2-1800</b> (dual-core, 1.70GHz, 1MB L2 cache), integrated AMD Radeon HD 7340 Graphics, integrated DDR3 memory controller (up to 1333MHz)	<b>Preloaded operating system<sup>20</sup></b> - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64	
Memory	4GB max <sup>7</sup> / <b>PC3-10600 1333MHz DDR3</b> , non-parity, one 204-pin SO-DIMM socket; * System automatically clocks down for processors with 1066MHz memory controller		
Diskette drive SATA DVD±RW SATA disk	None DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable.		
Widescreen display	Some: <b>15.6"</b> (396mm) <b>HD (1366x768) TFT color</b> , anti-glare, <b>LED backlight</b> , 220 nits, 16:9 aspect ratio Some: <b>15.6"</b> (396mm) <b>HD (1366x768) TFT color</b> , <b>VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio		
Camera	HD720p Camera on top of screen, 1.0-megapixel, fixed focus		
Integrated graphics	<b>AMD Radeon HD 7340 Graphics</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector		
Keyboard Numeric keypad Touch controls Touch pad	Full-size keyboard, multimedia Fn keys, recovery key Numeric keypad on right of keyboard None Touch pad with two buttons, supports scroll feature, multi-touch		
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type Battery - life <sup>10</sup>	( <i>WxDxH</i> ): 14.88" x 9.92" x 1.32"; 378mm x 252mm x 33.5mm with optical drive and battery: <i>6-cell</i> : from 5.34 lb (2.42kg) Black top, black bottom Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic Lithium Ion <b>6-cell</b> <i>6-cell</i> : up to 6.5 hr		
Chipset ExpressCard/34 Multicard reader Ports	<b>AMD A68M FCH</b> None 4-in-1 reader (MMC, Secure Digital Card, SDXC, SDHC) One USB 3.0, two USB 2.0, ethernet (RJ-45), external monitor (VGA DB-15, HDMI)		
TV tuner PCIe Mini Card 11b/g/n <sup>28</sup> Bluetooth™ Modem Ethernet Audio support	None One PCI Express Mini Card slot 11b/g/n, PCIe Half Mini Card, Wi-Fi + Bluetooth combo adapter, 1x1 None None Gigabit ethernet, Realtek® RTL8111F High Definition (HD) Audio, Realtek® 272 codec / stereo speakers (1.5 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)		
Security Fingerprint reader	Power-on password, hard disk password, supervisor password, security lockhole None		
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service		65-watt AC adapter ENERGY STAR® 5.0-compliant RoHS-compliant

See footnotes for important warranty information  
US model(s) announced November 20, 2012

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(BOLT-3-1) February 2013

Type-model	Pro-cessor	GHz	Max turbo (GHz)	Memory	Widescreen display	Cam-era	Integrated graphics	SATA disk	SATA optical	PCIe Mini Card WLAN / BT	Top color	HDMI con-necter	Preload	Avail date
3685-A7U	E2-1800	1.70	None	2GB	15.6" HD	720p	HD 7340	320GB 5400	DVD±RW	11b/g/n	Black	HDMI	Win8 Pro64	Nov 12
3685-A8U	E2-1800	1.70	None	4GB	15.6" HD	720p	HD 7340	320GB 5400	DVD±RW	11b/g/n	Black	HDMI	Win8 Pro64	Nov 12
3685-A9U	E2-1800	1.70	None	4GB	15.6" HD	720p	HD 7340	500GB 5400	DVD±RW	11b/g/n	Black	HDMI	Win8 Pro64	Nov 12
3685-AAU	E2-1800	1.70	None	4GB	15.6" HD	720p	HD 7340	500GB 5400	DVD±RW	11b/g/n	Black	HDMI	Win8 64	Nov 12
59360210	E2-1800	1.70	None	2GB	15.6" HD	720p	HD 7340	320GB 5400	DVD±RW	11b/g/n	Black	HDMI	Win7 Pro64	Nov 12
59360211	E2-1800	1.70	None	4GB	15.6" HD	720p	HD 7340	500GB 5400	DVD±RW	11b/g/n	Black	HDMI	Win7 Pro64	Nov 12

- 15.6" widescreen, anti-glare
- Integrated 720p HD camera

Positioning Processor	<i>Widescreen flexibility; two-spindle</i> <b>AMD Accelerated Processor E2-1800</b> (dual-core, 1.70GHz, 1MB L2 cache), integrated AMD Radeon HD 7340 Graphics, integrated DDR3 memory controller (up to 1333MHz)	<b>Preloaded operating system<sup>20</sup></b> - <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - <i>Some:</i> Windows 8 64-bit - <i>Some:</i> Windows 8 Pro 64-bit
Memory	4GB max <sup>7</sup> / <b>PC3-10600 1333MHz DDR3</b> , non-parity, one 204-pin SO-DIMM socket; * System automatically clocks down for processors with 1066MHz memory controller	
Diskette drive SATA DVD±RW SATA disk	None DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable.	
Widescreen display Camera	<b>15.6"</b> (396mm) <b>HD (1366x768) TFT color</b> , anti-glare, <b>LED backlight</b> , 220 nits, 16:9 aspect ratio HD720p Camera on top of screen, 1.0-megapixel, fixed focus	
Integrated graphics	<b>AMD Radeon HD 7340 Graphics</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector	
Keyboard Numeric keypad Touch controls Touch pad	Full-size keyboard, multimedia Fn keys, recovery key Numeric keypad on right of keyboard None Touch pad with two buttons, supports scroll feature, multi-touch	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type Battery - life <sup>10</sup>	( <i>WxDxH</i> ): 14.88" x 9.92" x 1.32"; 378mm x 252mm x 33.5mm with optical drive and battery: <i>6-cell</i> : from 5.34 lb (2.42kg) Black top, black bottom Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic Lithium Ion <b>6-cell</b> <i>6-cell</i> : up to 6.5 hr	
Chipset ExpressCard/34 Multicard reader Ports	<b>AMD A68M FCH</b> None 4-in-1 reader (MMC, Secure Digital Card, SDXC, SDHC) One USB 3.0, two USB 2.0, ethernet (RJ-45), external monitor (VGA DB-15, HDMI)	
TV tuner PCIe Mini Card 11b/g/n <sup>28</sup> Bluetooth™ Modem Ethernet Audio support	None One PCI Express Mini Card slot 11b/g/n, PCIe Half Mini Card, Wi-Fi + Bluetooth combo adapter, 1x1 None None Gigabit ethernet, Realtek® RTL8111F High Definition (HD) Audio, Realtek® 272 codec / stereo speakers (1.5 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	
Security Fingerprint reader Limited warranty <sup>12</sup>	Power-on password, hard disk password, supervisor password, security lockhole None <b>1-year</b> - depot repair service	
	65-watt AC adapter ENERGY STAR® 5.0-compliant RoHS-compliant	

See footnotes for important warranty information  
US model(s) announced November 20, 2012

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(BOLT3-2) February 2013





Lenovo B590



Lenovo B590



Lenovo B590  
(With HM77 chipset)

Lenovo B590  
(With HM70 chipset)



Lenovo B590



Lenovo B590

Type-model	Processor	Max turbo GHz (GHz)	Memory	Widescreen display	Camera	Integrated graphics	SATA disk	SATA optical	PCIe Mini Card WLAN / BT	Top color	HDMI connector	Preload	Avail date
59356652	i3-2328M	2.20	No 2GBx1	15.6" HD	720p	Intel HD 3000	320GB 5400 <sup>8</sup>	DVD±RW	11b/g/n <sup>28</sup>	Black	HDMI	Win8 Pro64	Oct 12
59356648	i3-2328M	2.20	No 4GBx1	15.6" HD	720p	Intel HD 3000	500GB 5400	DVD±RW	11b/g/n	Black	HDMI	Win8 Pro64	Oct 12
59356645	i3-2328M	2.20	No 4GBx1	15.6" HD	720p	Intel HD 3000	320GB 5400	DVD±RW	11b/g/n	Black	HDMI	Win8 Pro64	Oct 12
59356651	i3-2328M	2.20	No 4GBx1	15.6" HD	720p	Intel HD 3000	500GB 5400	DVD±RW	11b/g/n	Black	HDMI	Win8 64	Oct 12
59359397	i3-2328M	2.20	No 2GBx1	15.6" HD	720p	Intel HD 3000	320GB 5400	DVD±RW	11b/g/n	Black	HDMI	Win7 Pro64	Nov 12
59359396	i3-2328M	2.20	No 4GBx1	15.6" HD	720p	Intel HD 3000	500GB 5400	DVD±RW	11b/g/n	Black	HDMI	Win7 Pro64	Nov 12
59366616	i3-2348M	2.30	No 2GBx1	15.6" HD	720p	Intel HD 3000	320GB 5400	DVD±RW	11b/g/n	Black	HDMI	Win7 Pro64	Jan 13
59366609	i3-2348M	2.30	No 2GBx1	15.6" HD	720p	Intel HD 3000	320GB 5400	DVD±RW	11b/g/n	Black	HDMI	Win8 Pro64	Jan 13
59366614	i3-2348M	2.30	No 4+2GB	15.6" HD	Glos 720p	Intel HD 3000	750GB 5400	DVD±RW	11b/g/n	Black	HDMI	Win7 Pro64	Jan 13
59366612	i3-2348M	2.30	No 4+2GB	15.6" HD	Glos 720p	Intel HD 3000	750GB 5400	DVD±RW	11b/g/n	Black	HDMI	Win8 Pro64	Jan 13

- 15.6" widescreen, anti-glare display
- Integrated camera

Positioning Processor	Widescreen flexibility; two-spindle <b>Intel® Core™ i3-2328M processor (2 cores, 2.20GHz, 3MB cache),</b> Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology <b>Intel Core i3-2348M processor (2 cores, 2.30GHz, 3MB cache),</b> Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology	<b>Preloaded operating system<sup>20</sup></b> - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 64-bit - Some: Windows 8 Pro 64-bit  <b>Preloaded applications (only some listed)</b> - <b>Windows 7 models</b> • ThinkVantage Tools • Lenovo SimpleTap • Adobe® Reader® • CyberLink YouCam • Microsoft® Office 2010 preloaded; purchase product key to activate  - <b>Windows 8 models</b> • Lenovo Support • Lenovo Companion • Lenovo Settings • Microsoft Office 2013 preloaded; purchase product key to activate  - <b>All models</b> • ThinkVantage System Update • Norton™ Internet Security (30 days of virus definitions) • Lenovo Cloud Storage  65-watt AC adapter EPEAT™ Sliver rating ENERGY STAR® compliant RoHS-compliant
Memory	8GB max <sup>7</sup> / <b>PC3-12800 1600MHz DDR3</b> , non-parity, two 204-pin SO-DIMM sockets; * System automatically clocks down for processors with 1333MHz memory controller	
Diskette drive	None	
SATA DVD±RW	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in	
SATA disk	Hard Disk Drive / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable,	
mSATA™ SSD	None	
Widescreen display	Some: <b>15.6"</b> (396mm) <b>HD (1366x768) TFT color</b> , anti-glare, <b>LED backlight</b> , 200 nits, 16:9 aspect ratio Some: <b>15.6"</b> (396mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio	
Camera	HD720p Camera on top of screen, fixed focus	
Integrated graphics	<b>Intel HD Graphics 3000</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	Numeric keypad on right of keyboard	
Touch controls	None	
Touch pad	Touch pad with two button, supports scroll feature, multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 14.88" x 9.92" x 1.32"; 378mm x 252mm x 33.4mm	
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 5.51 lb (2.5kg)	
Case color	Black top, black bottom	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b>	
Battery - life <sup>10</sup>	<i>6-cell</i> : up to 6 hr	
Chipset	<b>Mobile Intel HM77 Express Chipset</b>	
ExpressCard/34	None	
Multicard reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
Ports	Two USB 3.0, two USB 2.0, ethernet (RJ-45), external monitor (VGA DB-15, HDMI)	
TV tuner	None	
PCIe Mini Card	Two PCI Express Mini Card slots	
11b/g/n <sup>28</sup>	11b/g/n, PCIe Half Mini Card, Wi-Fi + Bluetooth combo adapter, 1x1	
WWAN	None	
Bluetooth™	None	
Modem	None	
Ethernet	Gigabit ethernet, Realtek® RTL8111F	
Audio support	High Definition (HD) Audio, Realtek® 269Q codec / stereo speakers (2.0 watt x 2) / microphone, microphone input and headphone combo jack	
Security	Power-on password, hard disk password, supervisor password, security lockhole	
Fingerprint reader	None	
Limited warranty <sup>12</sup>	<b>1-year</b> - depot repair service	

See footnotes for important warranty information  
 US model(s) announced October 23, November 13, 2012 or January 22, 2013

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Lenovo G460



Lenovo G460



Lenovo G460



Lenovo G560

Type-model	Pro-cessor	Max turbo GHz (GHz)	Memory	Widescreen display	Cam-era	Graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI con-necter	Blue-tooth	Battery cells	Win7 preload	Avail date	
✗ 0677-2GU	i3-330M	2.13	4GB	14.0" HD	0.3M	Intel HD	320GB <sup>8</sup>	DVD±RW	11b/g/n <sup>28</sup>	Black	HDMI	Blue	6-cell	Prem 64	Jan 10	
0677-7CU	i3-370M	2.40	4GB	14.0" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Pro 64	Oct 10	
0677-7DU	i5-460M	2.53	2.80	4GB	14.0" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Pro 64	Oct 10
0677-7TU	i3-370M	2.40	4GB	14.0" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Prem 64	Oct 10	
0677-7UU	i5-460M	2.53	2.80	4GB	14.0" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Prem 64	Oct 10
0677-7SU	i3-370M	2.40	4GB	14.0" HD	0.3M	Intel HD	750GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Pro 64	Dec 10	
0677-2WU	i5-430M	2.26	2.53	4GB	14.0" HD	0.3M	GF 310M	320GB	DVD±RW	Intel 1000	Black	HDMI	Blue	6-cell	Prem 64	Dec 10
0677-7EU	i5-560M	2.66	3.20	4GB	14.0" HD	0.3M	GF 310M	500GB	DVD±RW	Intel 1000	Black	HDMI	Blue	6-cell	Prem 64	Dec 10
☞ 0677-9UU	i3-380M	2.53	4GB	14.0" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Prem 64	Mar 11	
☞ 0677-9XU	i5-480M	2.66	2.93	4GB	14.0" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Prem 64	Mar 11

- 14.0" widescreen, glossy display
- Integrated 0.3 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning	Widescreen flexibility; two-spindle	<b>Preloaded operating system<sup>20</sup></b> - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64  <b>Preloaded applications<sup>14</sup></b> (only some listed) • Lenovo OneKey Recovery • Lenovo ReadyComm • ooVoo™ • McAfee® VirusScan® Plus (60 days of virus definitions) • Adobe® Reader® • CyberLink YouCam • Microsoft Office 2010 preloaded; purchase product key to activate • VeriFace™ • Lenovo Energy Management Software • Lenovo DirectShare • Cyberlink Power2Go (DVD±RW)
Processo	Intel® Core™ i3 processor i3-330M, i3-370M, or i3-380M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology, and 3MB cache Intel Core i5 processor i5-430M, i5-460M, i5-480M, or i5-560M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology, and 3MB cache	
Memory	4GB std / 8GB max* / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available	
Diskette drive	None	
SATA DVD±RW	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in	
SATA disk	320GB (5400 rpm), 500GB (5400 rpm), or 750GB (5400 rpm) / SATA 3.0Gb/s, 9.5mm high	
Widescreen display	14.0" (355.6mm) HD (1366x768) TFT color, VibrantView (glossy), LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel, fixed focus	
Graphics	Some: Intel HD Graphics in processor, Some: NVIDIA® GeForce® 310M, PCI Express x16, 512MB memory, DirectX 10.1, PureVideo® HD technology, CUDA™ technology external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	None	
Touch controls	OneKey Theater, mute, volume up, and volume down buttons	
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®)	
Dimensions <sup>3</sup>	(WxDxH): 13.4" x 9.13" x 0.68" to 1.35"; 340.0mm x 231.8mm x 17.2 to 34.4mm	
Weight <sup>2</sup>	with optical drive and battery: 6-cell: from 4.85 lb (2.2kg)	
Case color	Black top, black bottom	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion 6-cell	
Battery - life <sup>10</sup>	Discrete models: up to 3.5 hr; Integrated models: up to 4 hr	
Chipset	Mobile Intel HM55 Express Chipset	
ExpressCard/34	One slot (ExpressCard/34)	
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)	
Ports	Two USB 2.0, one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter	
Bluetooth™	Bluetooth 2.1 wireless, USB 2.0 interface	
Modem	None	
Ethernet	10/100 ethernet, RealTek® RTL8103EL	
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (2 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	
Security	Power-on password, hard disk password, supervisor password, security lockhole	
Fingerprint reader	None	
<b>Limited Warranty<sup>12</sup></b> ⇨ 1-year warranty*: * 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ Mail In repair service ⇨ Service upgrade options <sup>58</sup> (in eligible locations): <sup>9</sup> • 3-year Depot warranty 78Y1538 • 1-year Mail In with accidental damage protection 55Y2511 • 3-year Mail In with accidental damage protection 78Y1539 • 3-year Onsite warranty 78Y1540 • 1-year Onsite with accidental damage protection 78Y1533 ⇨ Toll-free support for warranty issues during the warranty period <sup>12</sup> via 877-453-6686		

See footnotes for important warranty information

☞ US models announced March 2, 2011; previous models on January 26, October 20, or December 1, 2010

✗ US model withdrawn effective December 2010

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Type-model	Processor	GHz	Max turbo (GHz)	Memory	Widescreen display	Camera	Graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload
4328-24U	i3-2310M	2.10		2GBx2	14.0" HD	2.0M	Intel HD	500GB <sup>8</sup>	DVD±RW	11b/g/n <sup>28</sup>	Dark brown	HDMI	Blue	6-cell	Prem 64
4328-25U	i3-2310M	2.10		2GBx2	14.0" HD	2.0M	Intel HD	500GB	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4328-26U	i5-2410M	2.30	2.90	2GBx2	14.0" HD	2.0M	Intel HD	500GB	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4328-27U	i5-2410M	2.30	2.90	2+4GB	14.0" HD	2.0M	HD 6370M	640GB	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4328-2UU	i5-2410M	2.30	2.90	2GBx2	14.0" HD	2.0M	Intel HD	500GB	Blu-ray	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4328-2VU	i5-2410M	2.30	2.90	4GBx2	14.0" HD	2.0M	Intel HD	750GB	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4328-2WU	i5-2410M	2.30	2.90	4GBx2	14.0" HD	2.0M	Intel HD	750GB	Blu-ray	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4328-35U	i5-2410M	2.30	2.90	2+4GB	14.0" HD	2.0M	Intel HD	750GB	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4328-34U	B800	1.50		4GBx1	14.0" HD	2.0M	Intel HD	500GB	DVD±RW	11b/g/n	Dark brown	HDMI		6-cell	Prem 64
4328-39U	i3-2330M	2.20		4GBx1	14.0" HD	2.0M	Intel HD	500GB	DVD±RW	11b/g/n	Dark brown	HDMI		6-cell	Prem 64
4328-3DU	i5-2430M	2.40	3.00	4GBx1	14.0" HD	2.0M	Intel HD	500GB	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4328-3CU	i5-2430M	2.40	3.00	4+2GB	14.0" HD	2.0M	Intel HD	750GB	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4328-3BU	i5-2430M	2.40	3.00	4GBx2	14.0" HD	2.0M	Intel HD	750GB	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64

- 14.0" widescreen, glossy display
- Integrated 2.0 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
- These system are Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning	Widescreen flexibility; two-spindle	<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Home Premium 64  <b>Preloaded applications<sup>14</sup></b> (only some listed) <ul style="list-style-type: none"> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo ReadyComm</li> <li>• ooVoo™</li> <li>• McAfee® VirusScan® Plus (60 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• CyberLink YouCam</li> <li>• Microsoft Office 2010 preloaded; purchase product key to activate</li> <li>• VeriFace™</li> <li>• Lenovo Energy Management Software</li> <li>• Lenovo DirectShare</li> <li>• Cyberlink Power2Go (DVD±RW)</li> </ul>
Processo	<b>Intel® Celeron® B800 processor (dual-core, 1.50GHz, 2MB cache),</b> DDR3 memory controller (up to 1333MHz) <b>Intel Core™ i3-2310M processor (2 cores / 4 threads, 2.10GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz) <b>Intel Core i3-2330M processor (2 cores / 4 threads, 2.20GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz) <b>Intel Core i5-2410M processor (2 cores / 4 threads, 2.30GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.90GHz) <b>Intel Core i5-2430M processor (2 cores / 4 threads, 2.40GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.00GHz)	
Memory	8GB max <sup>7</sup> / <b>PC3-10600 1333MHz DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	
Diskette drive	None	
SATA optical	Some: DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in Some: Blu-ray™ Disc reader (no Blu-ray burning), DVD recordable, 12.7mm, tray-in	
SATA disk	<b>500GB</b> (5400 rpm), <b>640GB</b> (5400 rpm), or <b>750GB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high	
Widescreen display	<b>14.0"</b> (355.6mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus	
Graphics	Some: <b>Intel HD Graphics in processor;</b> Some: <b>AMD Radeon™ HD 6370M Graphics</b> , PCI Express x16, <b>512MB</b> memory, DirectX® 11; external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector (HDCP-compliant)	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	None	
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 13.4" x 9.13" x 0.68" to 1.35"; 340.0mm x 231.8mm x 17.2 to 34.4mm	
Weight <sup>2</sup>	with optical drive and battery: <b>6-cell</b> : from 4.85 lb (2.2kg)	
Case color	Black top, black bottom	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b>	
Battery - life <sup>10</sup>	<i>Discrete models</i> : up to 5 hr; <i>Integrated models</i> : up to 6 hr	
Chipset	<b>Mobile Intel HM65 Express Chipset</b>	
ExpressCard/34	None	
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)	
Ports	Four USB 2.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, Broadcom® or Atheros® chip	
Bluetooth™	Some: Bluetooth 2.1 wireless + EDR, USB 2.0 interface	
Modem	None	
Ethernet	10/100 ethernet, Atheros AR8152L	
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (1.5 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	
Security	Hard disk password, user password, administrator password, security lockhole	
Fingerprint reader	None	
		<b>Limited Warranty<sup>12</sup></b> ⇨ <b>1-year warranty*</b> : * <b>1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b> ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> <ul style="list-style-type: none"> <li>• <b>3-year Depot warranty</b> 78Y1538</li> <li>• <b>1-year Mail In with accidental damage protection</b> 55Y2511</li> <li>• <b>3-year Mail In with accidental damage protection</b> 78Y1539</li> <li>• <b>3-year Onsite warranty</b> 78Y1540</li> <li>• <b>1-year Onsite with accidental damage protection</b> 78Y1533</li> </ul> ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>

See footnotes for important warranty information

US models announced December 21, 2011; previous models on February 16, June 8, or September 1, 2011

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Type-model	Processor	GHz	Max turbo (GHz)	Memory	Widescreen display	Camera	Graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Bluetooth	Battery cells	Win7 preload
4328-3UU	i5-2450M	2.50	3.10	4GBx1	14.0" HD	2.0M	Intel HD	500GB <sup>8</sup>	DVD±RW	11b/g/n <sup>28</sup>	Dark brown	HDMI	Blue	6-cell	Prem 64
4328-3YU	i5-2450M	2.50	3.10	4GBx1	14.0" HD	2.0M	Intel HD	750GB	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4328-3VU	i5-2450M	2.50	3.10	4+2GB	14.0" HD	2.0M	Intel HD	750GB	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4328-3RU	i5-2450M	2.50	3.10	4GBx2	14.0" HD	2.0M	Intel HD	750GB	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4328-3ZU	i5-2450M	2.50	3.10	4GBx2	14.0" HD	2.0M	Intel HD	750GB	Blu-ray	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64

- **14.0" widescreen, glossy display**
- **Integrated 2.0 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**
- **These system are Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning	<i>Widescreen flexibility; two-spindle</i>										<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Home Premium 64				
Processor	<b>Intel® Core™ i5-2450M processor (2 cores / 4 threads, 2.50GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz)										<b>Preloaded applications<sup>14</sup></b> (only some listed) • Lenovo OneKey Recovery • Lenovo ReadyComm • ooVoo™ • McAfee® VirusScan® Plus (60 days of virus definitions) • Adobe® Reader® • CyberLink YouCam • Microsoft Office 2010 preloaded; purchase product key to activate • VeriFace™ • Lenovo Energy Management Software • Lenovo DirectShare • Cyberlink Power2Go (DVD±RW)				
Memory	8GB max <sup>7</sup> / <b>PC3-10600 1333MHz DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets														
Diskette drive	None														
SATA optical	<i>Some:</i> DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in <i>Some:</i> Blu-ray™ Disc reader (no Blu-ray burning), DVD recordable, 12.7mm, tray-in														
SATA disk	<b>500GB</b> (5400 rpm) or <b>750GB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high														
Widescreen display	<b>14.0"</b> (355.6mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio										<i>Integrated models:</i> 65-watt AC adapter <i>Discrete models:</i> 90-watt AC adapter Wireless on/off switch EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant				
Camera	Camera on top of screen, 2.0-megapixel, fixed focus														
Graphics	<b>Intel HD Graphics in processor;</b> external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector (HDCP-compliant)														
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key														
Numeric keypad	None														
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch														
Dimensions <sup>3</sup>	<i>(WxDxH):</i> 13.4" x 9.13" x 0.68" to 1.35"; 340.0mm x 231.8mm x 17.2 to 34.4mm														
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell:</i> from 4.85 lb (2.2kg)														
Case color	Dark brown top, black bottom														
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic														
Battery - type	Lithium Ion <b>6-cell</b>														
Battery - life <sup>10</sup>	<i>Discrete models:</i> up to 5 hr; <i>Integrated models:</i> up to 6 hr														
Chipset	<b>Mobile Intel HM65 Express Chipset</b>										<b>Limited Warranty<sup>12</sup></b> ↪ <b>1-year warranty*:</b> <b>* 1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b> ↪ <b>Mail In repair service</b> ↪ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • <b>3-year Depot warranty</b> 78Y1538 • <b>1-year Mail In with accidental damage protection</b> 55Y2511 • <b>3-year Mail In with accidental damage protection</b> 78Y1539 • <b>3-year Onsite warranty</b> 78Y1540 • <b>1-year Onsite with accidental damage protection</b> 78Y1533 ↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>				
ExpressCard/34	None														
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)														
Ports	Four USB 2.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)														
TV tuner	None														
PCIe Mini Card	One PCI Express Mini Card slot														
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, Broadcom® or Atheros® chip														
Bluetooth™	Bluetooth 2.1 wireless + EDR, USB 2.0 interface														
Modem	None														
Ethernet	10/100 ethernet, Atheros AR8152L														
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (1.5 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)														
Security	Hard disk password, user password, administrator password, security lockhole														
Fingerprint reader	None														

See footnotes for important warranty information  
US models announced February 29, 2012

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(DKBR1-2) March 2012



Type-model	Processor	GHz	Max turbo (GHz)	Memory	Widescreen display	Camera	Integrated graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Express-Card	eSATA port	Win7 preload	Avail date
0679-3JU	i5-430M	2.26	2.53	4GB	15.6" HD	0.3M	Intel HD	320GB <sup>8</sup>	DVD±RW	11b/g/n <sup>28</sup>	Black	HDMI	/34	eSATA	Prem 64	Apr 10
0679-98U	P6100	2.00		4GB	15.6" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black				Prem 64	Aug 10
0679-99U	P6100	2.00		4GB	15.6" HD	0.3M	Intel HD	320GB	DVD±RW	11b/g/n	Black				Prem 64	Aug 10
0679-AJU	P6200	2.13		2GB	15.6" HD	0.3M	Intel HD	250GB	DVD±RW	11b/g/n	Black				Prem 64	Feb 11
0679-ALU	P6200	2.13		4GB	15.6" HD	0.3M	Intel HD	320GB	DVD±RW	11b/g/n	Black				Prem 64	Feb 11
0679-AKU	i3-380M	2.53		4GB	15.6" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black				Prem 64	Feb 11

- 15.6" widescreen, glossy display
- Integrated 0.3 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning	Widescreen flexibility; two-spindle	<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Home Premium 64  <b>Preloaded applications<sup>14</sup></b> (only some listed) <ul style="list-style-type: none"> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo ReadyComm</li> <li>• ooVoo™</li> <li>• McAfee® VirusScan® Plus (60 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• CyberLink YouCam</li> <li>• Microsoft Office 2010 preloaded; purchase product key to activate</li> <li>• VeriFace™</li> <li>• Lenovo Energy Management Software</li> <li>• Lenovo DirectShare</li> <li>• Cyberlink Power2Go (DVD±RW)</li> </ul>
Processor	<b>Intel® Pentium® processor P6100</b> or <b>P6200</b> with <b>dual-core</b> , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), and 3MB cache or <b>Intel Core™ i3 processor i3-380M</b> with <b>dual-core</b> , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology, and 3MB cache or <b>Intel Core i5 processor i5-430M</b> with <b>dual-core</b> , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology, and 3MB cache	
Memory	<b>2GB</b> or <b>4GB</b> std / 8GB max <sup>7</sup> / <b>PC3-8500 1066MHz DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available; <i>Non-italics:</i> standard memory in one socket; 1 socket available	
Diskette drive	None	
SATA DVD±RW	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in	
SATA disk	<b>250GB</b> (5400 rpm), <b>320GB</b> (5400 rpm), or <b>500GB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high	
Widescreen display	<b>15.6"</b> (396.2mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel, fixed focus	
Integrated graphics	<b>Intel HD Graphics in processor</b> , external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector (on selected models)	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	Numeric keypad on right of keyboard	
Touch controls	OneKey Theater, mute, volume up, and volume down buttons	
Touch pad	One-piece touch pad with two button function, supports scroll feature	
Dimensions <sup>3</sup>	(WxDxH): 14.83" x 9.83" x 0.68" to 1.37"; 376.8mm x 249.8mm x 17.3 to 34.9mm	
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 5.73 lb (2.6kg)	
Case color	Black top, black bottom	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b>	
Battery - life <sup>10</sup>	<i>6-cell</i> : up to 4 hr	
Chipset	<b>Mobile Intel HM55 Express Chipset</b>	
ExpressCard/34	<i>Some:</i> One slot (ExpressCard/34)	
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)	
Ports	Two USB 2.0, one USB 2.0/eSATA combo port (eSATA available on selected models), ethernet (RJ-45), monitor (VGA DB-15, HDMI on selected models)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter	
Bluetooth™	None	
Modem	None	
Ethernet	10/100 ethernet, RealTek® RTL8103EL	
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (2 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	
Security	Power-on password, hard disk password, supervisor password, security lockhole	
Fingerprint reader	None	
		<b>Limited Warranty<sup>12</sup></b> ↪ <b>1-year warranty*:</b> * 1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ↪ Mail In repair service ↪ Service upgrade options <sup>58</sup> (in eligible locations): <sup>9</sup> <ul style="list-style-type: none"> <li>• 3-year Depot warranty 78Y1538</li> <li>• 1-year Mail In with accidental damage protection 55Y2511</li> <li>• 3-year Mail In with accidental damage protection 78Y1539</li> <li>• 3-year Onsite warranty 78Y1540</li> <li>• 1-year Onsite with accidental damage protection 78Y1533</li> </ul> ↪ Toll-free support for warranty issues during the warranty period <sup>12</sup> via 877-453-6686

See footnotes for important warranty information

US models announced February 16, 2011; previous models on April 7 or August 25, 2010

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Type-model	Pro-cessor	GHz	Max turbo (GHz)	Memory	Widescreen display	Cam-era	Integrated graphics	SATA disk	SATA optical	Mini PCIe 802.11 wireless	Top color	HDMI con-necter	Blue-tooth	Battery cells	Win7 preload	Avail date
0679-23U	i3-330M	2.13	None	4GB	15.6" HD	0.3M	Intel HD	320GB <sup>8</sup>	DVD±RW	11b/g/n <sup>28</sup>	Black	HDMI	None	6-cell	Prem 64	Apr 10

- **15.6" widescreen, glossy display**
- **Integrated 0.3 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**
- **This system is Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning	<i>Widescreen flexibility; two-spindle</i>											<b>Preloaded operating system<sup>20</sup></b>	
Processo	<b>Intel® Core™ i3 processor i3-330M</b> with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology, and 3MB cache											- Genuine Windows® 7 Home Premium 64	
Memory	<b>4GB</b> std / 8GB max <sup>7</sup> / <b>PC3-8500 1066MHz DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available											<b>Preloaded applications<sup>14</sup></b> (only some listed)	
Diskette drive	None											• Lenovo OneKey Recovery	
SATA DVD±RW	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in											• Lenovo ReadyComm	
SATA disk	<b>320GB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high											• ooVoo™	
Widescreen display	<b>15.6"</b> (396.2mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio											• McAfee® VirusScan® Plus (60 days of virus definitions)	
Camera	Camera on top of screen, 0.3-megapixel, fixed focus											• Adobe® Reader®	
Integrated graphics	<b>Intel HD Graphics in processor</b> , external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector											• CyberLink YouCam	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key											• Microsoft Office 2010 preloaded; purchase product key to activate	
Numeric keypad	Numeric keypad on right of keyboard											• VeriFace™	
Touch controls	OneKey Theater, mute, volume up, and volume down buttons											• Lenovo Energy Management Software	
Touch pad	One-piece touch pad with two button function, supports scroll feature											• Lenovo DirectShare	
Dimensions <sup>3</sup>	<i>(WxDxH):</i> 14.83" x 9.83" x 0.68" to 1.37"; 376.8mm x 249.8mm x 17.3 to 34.9mm											• Cyberlink Power2Go (DVD±RW)	
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell:</i> from 5.73 lb (2.6kg)											65-watt AC adapter	
Case color	Black top, black bottom											Wireless on/off switch	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic											ENERGY STAR® 5.0-compliant	
Battery - type	Lithium Ion <b>6-cell</b>											RoHS-compliant	
Battery - life <sup>10</sup>	<i>6-cell:</i> up to 4 hr											<b>Limited Warranty<sup>12</sup></b>	
Chipset	<b>Mobile Intel HM55 Express Chipset</b>											↪ <b>1-year warranty*:</b>	
ExpressCard/34	One slot (ExpressCard/34)											* <b>1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b>	
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)											↪ <b>Mail In repair service</b>	
Ports	Two USB 2.0, one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)											↪ <b>Service upgrade options<sup>58</sup> (in eligible locations):<sup>9</sup></b>	
TV tuner	None											• <b>3-year Depot warranty</b> 78Y1538	
PCIe Mini Card	One PCI Express Mini Card slot											• <b>1-year Mail In with accidental damage protection</b> 55Y2511	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter											• <b>3-year Mail In with accidental damage protection</b> 78Y1539	
Bluetooth™	None											• <b>3-year Onsite warranty</b> 78Y1540	
Modem	None											• <b>1-year Onsite with accidental damage protection</b> 78Y1533	
Ethernet	10/100 ethernet, RealTek® RTL8103EL											↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>	
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (2 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)												
Security	Power-on password, hard disk password, supervisor password, security lockhole												
Fingerprint reader	None												

See footnotes for important warranty information  
US model announced May 12, 2010

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(EFL2-3) May 2010



Type-model	Pro-cessor	GHz	Memory	Widescreen display	Cam-era	Integrated graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload	Avail date
0679-2AU	i3-330M	2.13	4GB	15.6" HD	0.3M	Intel HD	320GB <sup>8</sup>	DVD±RW	11b/g/n <sup>28</sup>	Black	HDMI	None	6-cell	Prem 64	Jan 10

- **15.6" widescreen, glossy display**
- **Integrated 0.3 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**
- **This system is Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning	<i>Widescreen flexibility; two-spindle</i>										<b>Preloaded operating system<sup>20</sup></b>			
Processo	<b>Intel® Core™ i3-330M</b> with <b>dual-core</b> , DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology, and 3MB cache										- Genuine Windows® 7 Home Premium 64			
Memory	<b>4GB</b> std / 8GB max <sup>7</sup> / <b>PC3-8500 1066MHz DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; <i>Italics:</i> standard memory in both sockets; no sockets available										<b>Preloaded applications<sup>14</sup></b> (only some listed)			
Diskette drive	None										• Lenovo OneKey Recovery			
SATA DVD±RW	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in										• Lenovo ReadyComm			
SATA disk	<b>320GB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high										• ooVoo™			
Widescreen display	<b>15.6"</b> (396.2mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio										• McAfee® VirusScan® Plus (60 days of virus definitions)			
Camera	Camera on top of screen, 0.3-megapixel, fixed focus										• Adobe® Reader®			
Integrated graphics	<b>Intel HD Graphics in processor</b> , external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector										• CyberLink YouCam			
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key										• Microsoft Office 2010 preloaded; purchase product key to activate			
Numeric keypad	Numeric keypad on right of keyboard										• VeriFace™			
Touch controls	OneKey Theater, mute, volume up, and volume down buttons										• Lenovo Energy Management Software			
Touch pad	One-piece touch pad with two button function, supports scroll feature										• Lenovo DirectShare			
Dimensions <sup>3</sup>	<i>(WxDxH):</i> 14.83" x 9.83" x 0.68" to 1.37"; 376.8mm x 249.8mm x 17.3 to 34.9mm										• Cyberlink Power2Go (DVD±RW)			
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell:</i> from 5.73 lb (2.6kg)										65-watt AC adapter			
Case color	Black top, black bottom										Wireless on/off switch			
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic										ENERGY STAR® 5.0-compliant			
Battery - type	Lithium Ion <b>6-cell</b>										RoHS-compliant			
Battery - life <sup>10</sup>	<i>6-cell:</i> up to 4 hr										<b>Limited Warranty<sup>12</sup></b>			
Chipset	<b>Mobile Intel HM55 Express Chipset</b>										↪ <b>1-year warranty*:</b>			
ExpressCard/34	One slot (ExpressCard/34)										* <b>1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b>			
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)										↪ <b>Mail In repair service</b>			
Ports	Two USB 2.0, one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)										↪ <b>Service upgrade options<sup>58</sup> (in eligible locations):<sup>9</sup></b>			
TV tuner	None										• <b>3-year Depot warranty</b> 78Y1538			
PCIe Mini Card	One PCI Express Mini Card slot										• <b>1-year Mail In with accidental damage protection</b> 55Y2511			
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter										• <b>3-year Mail In with accidental damage protection</b> 78Y1539			
Bluetooth™	None										• <b>3-year Onsite warranty</b> 78Y1540			
Modem	None										• <b>1-year Onsite with accidental damage protection</b> 78Y1533			
Ethernet	10/100 ethernet, RealTek® RTL8103EL										↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (2 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)													
Security	Power-on password, hard disk password, supervisor password, security lockhole													
Fingerprint reader	None													

See footnotes for important warranty information  
US model announced January 26, 2010

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(EFL2-1) January 2010

# Lenovo® G560e (1050) - Integrated (Windows 7)

Personal Systems Reference (PSREF)

Type-model	Pro-cessor	GHz	Memory	Widescreen or display	CCFL LED	Cam-era	Integrated graphics	Chipset	SATA disk	SATA optical	Mini PCIe 802.11 wireless	Top color	Card reader	Blue-tooth	Win7 preload	Avail date
1050-42U	T3500	2.10	2GBx1	15.6" HD	LED	0.3M	4500MHD	GM45	250GB <sup>8</sup>	DVD±RW	11b/g/n <sup>28</sup>	Dark Blue	5-in-1	None	Prem 64	Apr 11

- **15.6" widescreen, glossy display**
- **Integrated 0.3 megapixel camera and Lenovo's VeriFace face recognition software helps control access to your notebook by recognizing your face**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**
- **This system is Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning Processor	<i>Widescreen flexibility; two-spindle</i> <b>Intel® Celeron® Processor T3500</b> with <b>dual-core</b> , 800MHz system bus, and 1MB L2 cache	<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows 7 Home Premium 64  <b>Preloaded applications<sup>14</sup></b> (only some listed) <ul style="list-style-type: none"> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo ReadyComm</li> <li>• ooVoo™</li> <li>• McAfee® VirusScan® Plus (60 days of virus definitions)</li> <li>• Windows Live™ Essentials</li> <li>• CyberLink YouCam</li> <li>• VeriFace™</li> <li>• Lenovo Energy Management Software</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Microsoft Office 2010 preloaded; purchase product key to activate</li> </ul>
Memory	8GB max <sup>7</sup> / <b>PC3-8500 1066MHz DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	
Diskette drive	None	
SATA DVD±RW	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in	
SATA disk	<b>250GB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high, removable	
Widescreen display	<b>15.6"</b> (396.2mm) <b>HD (WXGA 1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio	
Camera	Camera on top of screen, 0.3-megapixel, fixed focus	
Integrated graphics	<b>Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD)</b> , in GM45, external analog monitor support via VGA DB-15 connector; <i>Max external resolution: 2048x1536@85Hz (VGA)</i>	
Keyboard	Full-size keyboard, Fn keys, recovery key	
Numeric keypad	Numeric keypad on right of keyboard	
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 14.8" x 9.8" x 0.7" to 1.4"; 376mm x 249.8mm x 17.3 to 34.9mm	65-watt AC adapter Wireless on/off switch RoHS-compliant  <b>Limited Warranty<sup>12</sup></b> ⇨ <b>1-year warranty*</b> : * <b>1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b> ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options (in eligible locations):<sup>9</sup></b> <ul style="list-style-type: none"> <li>• <b>3-year Depot warranty</b> 78Y1538</li> <li>• <b>3-year Mail In with accidental damage protection</b> 78Y1539</li> <li>• <b>3-year Onsite warranty</b> 78Y1540</li> <li>• <b>1-year Onsite with accidental damage protection</b> 78Y1533</li> </ul> ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 5.73 lb (2.6 kg)	
Case color	Dark blue top, black bottom	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b>	
Battery - life <sup>10</sup>	<i>6-cell</i> : up to 4 hr	
Chipset	<b>Mobile Intel GM45 Express Chipset</b> (Memory Controller Hub), ICH9M I/O Controller Hub	
ExpressCard/34	None	
Multicard reader	5-in-1 reader (MultiMedia Card, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)	
Ports	Three USB 2.0, external monitor (VGA), ethernet (RJ-45)	
TV tuner	None	
Mini PCI Express	One Mini PCI Express slot	
11b/g/n	11b/g/n wireless <sup>4</sup> , PCIe Half Mini Card, Broadcom® or Atheros® chip	
Bluetooth™	None	
Modem	None	
Ethernet	10/100 ethernet, Atheros AR8152L	
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers (1.5 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	
Security	Power-on password, user password, supervisor password, security lockhole	
Fingerprint reader	None	

See footnotes for important warranty information  
 US model announced April 7, 2011

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 (WSHT1-1) April 2011

Type-model	Pro-cessor	GHz	Max turbo (GHz)	Memory	Widescreen display	Cam-era	Integrated graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload
4334-46U	i3-2310M	2.10		4GBx1	15.6" HD	0.3M	Intel HD	500GB <sup>8</sup>	DVD±RW	11b/g/n <sup>28</sup>	Dark brown	HDMI		6-cell	Prem 64
4334-5NU	i3-2310M	2.10		2GBx2	15.6" HD	0.3M	Intel HD	320GB	DVD±RW	11b/g/n	Dark brown			6-cell	Prem 64
4334-5TU	i3-2310M	2.10		2GBx2	15.6" HD	0.3M	Intel HD	750GB	DVD±RW	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64
4334-62U	B940	2.00		2+1GB	15.6" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black			6-cell	Prem 64
4334-4JU	B940	2.00		2GBx1	15.6" HD	0.3M	Intel HD	320GB	DVD±RW	11b/g/n	Black			6-cell	Prem 64
4334-4QU	B940	2.00		2GBx2	15.6" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black			6-cell	Prem 64
4334-7RU	B950	2.10		2GBx1	15.6" HD	0.3M	Intel HD	320GB	DVD±RW	11b/g/n	Black			6-cell	Prem 64
4334-7UU	B950	2.10		4GBx1	15.6" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black			6-cell	Prem 64
4334-7PU	i3-2330M	2.20		4GBx1	15.6" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black			6-cell	Prem 64
4334-7QU	i3-2330M	2.20		4+2GB	15.6" HD	0.3M	Intel HD	750GB	DVD±RW	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64
4334-8PU	i5-2430M	2.40	3.00	4GBx1	15.6" HD	0.3M	Intel HD	750GB	DVD±RW	11b/g/n	Black			6-cell	Prem 64
4334-9HU	B960	2.20		2GBx1	15.6" HD	0.3M	Intel HD	320GB	DVD±RW	11b/g/n	Black			6-cell	Prem 64
4334-9EU	B960	2.20		4GBx1	15.6" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black			6-cell	Prem 64
4334-9LU	i3-2350M	2.30		4GBx1	15.6" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black			6-cell	Prem 64
4334-9KU	i5-2450M	2.50	3.10	4GBx1	15.6" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black			6-cell	Prem 64
4334-DBU	i3-2350M	2.30		4GBx1	15.6" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Dark brown	HDMI		6-cell	Prem 64
4334-DDU	i5-2450M	2.50	3.10	4GBx1	15.6" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Dark brown	HDMI		6-cell	Prem 64

- 15.6" widescreen, glossy display
- These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning Processor	<p><i>Widescreen flexibility; two-spindle</i></p> <p><b>Intel® Pentium® B940 processor (2 cores / 2 threads, 2.00GHz, 2MB cache),</b> DDR3 memory controller (up to 1333MHz)</p> <p><b>Intel Pentium B950 processor (2 cores / 2 threads, 2.10GHz, 2MB cache),</b> DDR3 memory controller (up to 1333MHz)</p> <p><b>Intel Pentium B960 processor (2 cores / 2 threads, 2.20GHz, 2MB cache),</b> DDR3 memory controller (up to 1333MHz)</p> <p><b>Intel Core™ i3-2310M processor (2 cores / 4 threads, 2.10GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz)</p> <p><b>Intel Core i3-2330M processor (2 cores / 4 threads, 2.20GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz)</p> <p><b>Intel Core i3-2350M processor (2 cores / 4 threads, 2.30GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz)</p> <p><b>Intel Core i5-2430M processor (2 cores / 4 threads, 2.40GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.00GHz)</p> <p><b>Intel Core i5-2450M processor (2 cores / 4 threads, 2.50GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz)</p>	<p><b>Preloaded operating system<sup>20</sup></b></p> <ul style="list-style-type: none"> <li>- Genuine Windows® 7 Home Premium 64</li> </ul> <p><b>Preloaded applications<sup>14</sup></b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo ReadyComm</li> <li>• McAfee® VirusScan® Plus (60 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• CyberLink YouCam</li> <li>• Microsoft® Office 2010 preloaded; purchase product key to activate</li> <li>• VeriFace™</li> <li>• Lenovo Energy Management Software</li> <li>• Lenovo DirectShare</li> <li>• Cyberlink Power2Go (DVD±RW)</li> </ul>
Memory	8GB max <sup>7</sup> / <b>PC3-10600 1333MHz DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	
Diskette drive	None	
SATA DVD±RW	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in	
SATA disk	<b>320GB</b> (5400 rpm), <b>500GB</b> (5400 rpm), or <b>750GB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high	
Widescreen display	<b>15.6"</b> (396.2mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel, fixed focus	
Integrated graphics	<b>Intel HD Graphics</b> in processor, external analog monitor support via VGA DB-15 connector, <i>Some:</i> digital monitor support via HDMI connector	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	Numeric keypad on right of keyboard	
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 14.83" x 9.83" x 0.68" to 1.37"; 376.8mm x 249.8mm x 17.3 to 34.9mm	
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell:</i> from 5.73 lb (2.6kg)	
Case color	Black or dark brown top, black bottom	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b>	
Battery - life <sup>10</sup>	<i>Integrated models:</i> up to 6 hr	
Chipset	<b>Mobile Intel HM65 Express Chipset</b>	
ExpressCard/34	None	
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)	
Ports	Four USB 2.0, external monitor (VGA DB-15, HDMI on some models), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, Broadcom® or Atheros® chip	
Bluetooth™	<i>Some:</i> Bluetooth 2.1 wireless + EDR, USB 2.0 interface	
Modem	None	
Ethernet	10/100 ethernet, Atheros AR8152L	
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (1.5 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	
Security	Hard disk password, user password, administrator password, security lockhole	
Fingerprint reader	None	
		<p>65-watt AC adapter</p> <p>Wireless on/off switch</p> <p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.0-compliant</p> <p>RoHS-compliant</p> <p><b>Limited Warranty<sup>12</sup></b></p> <ul style="list-style-type: none"> <li>↪ <b>1-year warranty*:</b></li> <li>* <b>1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b></li> <li>↪ <b>Mail In repair service</b></li> <li>↪ <b>Service upgrade options<sup>58</sup></b> (in eligible locations):<sup>9</sup> <ul style="list-style-type: none"> <li>• <b>3-year Depot warranty</b> 78Y1538</li> <li>• <b>1-year Mail In with accidental damage protection</b> 55Y2511</li> <li>• <b>3-year Mail In with accidental damage protection</b> 78Y1539</li> <li>• <b>3-year Onsite warranty</b> 78Y1540</li> <li>• <b>1-year Onsite with accidental damage protection</b> 78Y1533</li> </ul> </li> <li>↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b></li> </ul>

See footnotes for important warranty information

US model(s) announced March 21, 2012; previous model on March 23, July 6, or October 13, 2011 or January 18, 2012

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Type-model	Pro-cessor	GHz	Max turbo (GHz)	Memory	Widescreen display	Cam-era	Integrated graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload
4334-ECU	B970	2.30		4GBx1	15.6" HD	0.3M	Intel HD	500GB <sup>8</sup>	DVD±RW	11b/g/n <sup>28</sup>	Black	None	None	6-cell	Prem 64
4334-EAU	i3-2370M	2.40		4GBx1	15.6" HD	0.3M	Intel HD 3000	500GB	DVD±RW	11b/g/n	Black	None	None	6-cell	Prem 64
4334-EEU	i5-2450M	2.50	3.10	4GBx1	15.6" HD	0.3M	Intel HD 3000	500GB	DVD±RW	11b/g/n	Black	None	None	6-cell	Prem 64

- 15.6" widescreen, glossy display
- Integrated 0.3 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
- These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Widescreen flexibility; two-spindle <b>Intel® Pentium® B970 processor (2 cores / 2 threads, 2.30GHz, 2MB cache)</b> , DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics <b>Intel Core™ i3-2370M processor (2 cores / 4 threads, 2.40GHz, 3MB cache)</b> , DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics 3000 <b>Intel Core i5-2450M processor (2 cores / 4 threads, 2.50GHz, 3MB cache)</b> , DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz) integrated Intel HD Graphics 3000	<b>Preloaded operating system</b> <sup>20</sup> - Genuine Windows® 7 Home Premium 64 <b>Preloaded applications</b> <sup>14</sup> (only some listed) • Lenovo OneKey Recovery • Lenovo ReadyComm • McAfee® VirusScan® Plus (60 days of virus definitions) • Adobe® Reader® • CyberLink YouCam • Microsoft® Office 2010 preloaded; purchase product key to activate • VeriFace™ • Lenovo Energy Management Software • Lenovo DirectShare • Cyberlink Power2Go (DVD±RW)
Memory	8GB max <sup>7</sup> / <b>PC3-10600 1333MHz DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	
Diskette drive SATA DVD±RW SATA disk	None DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in <b>500GB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high	
Widescreen display Camera	<b>15.6"</b> (396.2mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 0.3-megapixel, fixed focus	
Integrated graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 3000</b> in processor, external analog monitor support via VGA DB-15 connector	
Keyboard Numeric keypad Touch pad	Full-size keyboard, multimedia Fn keys, recovery key Numeric keypad on right of keyboard Two-button touch pad with scroll feature (no TrackPoint®), multi-touch	65-watt AC adapter Wireless on/off switch EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant
Dimensions <sup>3</sup> Weight <sup>2</sup> Case color Case material Battery - type Battery - life <sup>10</sup>	(WxDxH): 14.83" x 9.83" x 0.68" to 1.37"; 376.8mm x 249.8mm x 17.3 to 34.9mm with optical drive and battery: <i>6-cell</i> : from 5.73 lb (2.6kg) Black or dark brown top, black bottom Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic Lithium Ion <b>6-cell</b> <i>Integrated models</i> : up to 6 hr	<b>Limited Warranty</b> <sup>12</sup> ↪ <b>1-year warranty*</b> : * 1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ↪ <b>Mail In repair service</b> ↪ <b>Service upgrade options</b> <sup>58</sup> (in eligible locations): <sup>9</sup> • 3-year Depot warranty 78Y1538 • 1-year Mail In with accidental damage protection 55Y2511 • 3-year Mail In with accidental damage protection 78Y1539 • 3-year Onsite warranty 78Y1540 • 1-year Onsite with accidental damage protection 78Y1533 ↪ <b>Toll-free support for warranty issues during the warranty period</b> <sup>12</sup> via 877-453-6686
Chipset ExpressCard/34 Multicard reader	<b>Mobile Intel HM65 Express Chipset</b> None 5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)	
Ports	Four USB 2.0, external monitor (VGA DB-15, HDMI on some models), ethernet (RJ-45)	
TV tuner PCIe Mini Card 11b/g/n <sup>28</sup> Bluetooth™ Modem Ethernet Audio support	None One PCI Express Mini Card slot 11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, Broadcom® or Atheros® chip None None 10/100 ethernet, Atheros AR8152L High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (1.5 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	
Security Fingerprint reader	Hard disk password, user password, administrator password, security lockhole None	

See footnotes for important warranty information  
US model(s) announced August 17, 2012

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(LAGR1-3) August 2012



# Lenovo® G570 (4334) - Windows 7 (web only models)

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Max turbo (GHz)	Memory	Widescreen display	Camera	Integrated graphics	SATA disk GB <sup>8</sup> rpm	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload
4334-2HU	i3-2310M	2.10		2GBx2	15.6" HD	2.0M	Intel HD	500GB 5400	DVD±RW	11b/g/n <sup>28</sup>	Dark brown	HDMI	Blue	6-cell	Prem 64
4334-2JU	i3-2310M	2.10		2GBx2	15.6" HD	2.0M	Intel HD	500GB 5400	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4334-2KU	i5-2410M	2.30	2.90	2GBx2	15.6" HD	2.0M	Intel HD	500GB 5400	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4334-4AU	i5-2410M	2.30	2.90	2GBx2	15.6" HD	2.0M	Intel HD	500GB 5400	Blu-ray	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4334-5JU	i5-2410M	2.30	2.90	4GBx2	15.6" HD	2.0M	Intel HD	750GB 5400	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4334-5HU	i5-2410M	2.30	2.90	4GBx2	15.6" HD	2.0M	Intel HD	750GB 5400	Blu-ray	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4334-5ZU	B940	2.00		2GBx1	15.6" HD	2.0M	Intel HD	500GB 5400	DVD±RW	11b/g/n	Dark brown	HDMI		6-cell	Prem 64
4334-5YU	B940	2.00		4GBx1	15.6" HD	2.0M	Intel HD	500GB 5400	DVD±RW	11b/g/n	Dark brown	HDMI		6-cell	Prem 64
4334-7XU	B800	1.50		4GBx1	15.6" HD	2.0M	Intel HD	500GB 5400	DVD±RW	11b/g/n	Dark brown	HDMI		6-cell	Prem 64
4334-A2U	i5-2430M	2.40	3.00	4GBx1	15.6" HD	2.0M	Intel HD	500GB 5400	Blu-ray	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4334-A8U	i5-2430M	2.40	3.00	4+2GB	15.6" HD	2.0M	Intel HD	750GB 5400	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4334-B7U	i5-2430M	2.40	3.00	4GBx2	15.6" HD	2.0M	Intel HD	500GB 7200	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4334-B8U	i5-2430M	2.40	3.00	4+2GB	15.6" HD	2.0M	Intel HD	500GB 7200	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4334-CYU	i3-2350M	2.30		4+2GB	15.6" HD	2.0M	Intel HD	500GB 5400	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4334-A5U	i5-2430M	2.40	3.00	4GBx2	15.6" HD	2.0M	Intel HD	750GB 5400	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4334-D4U	i5-2450M	2.50	3.10	4GBx2	15.6" HD	2.0M	Intel HD	500GB 5400	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4334-CZU	i5-2450M	2.50	3.10	4GBx2	15.6" HD	2.0M	Intel HD	750GB 5400	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4334-AUU	i5-2450M	2.50	3.10	4GBx1	15.6" HD	2.0M	Intel HD	500GB 5400	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4334-D3U	i5-2450M	2.50	3.10	4+2GB	15.6" HD	2.0M	Intel HD	750GB 5400	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4334-B6U	i5-2450M	2.50	3.10	4GBx2	15.6" HD	2.0M	Intel HD	500GB 7200	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4334-B9U	i5-2450M	2.50	3.10	4+2GB	15.6" HD	2.0M	Intel HD	500GB 7200	DVD±RW	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64
4334-B2U	i5-2450M	2.50	3.10	4GBx2	15.6" HD	2.0M	Intel HD	750GB 5400	Blu-ray	11b/g/n	Dark brown	HDMI	Blue	6-cell	Prem 64

- 15.6" widescreen, glossy display
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	<p><i>Widescreen flexibility; two-spindle</i></p> <p><b>Intel® Celeron® B800 processor (2 cores / 2 threads, 1.50GHz, 2MB cache),</b> DDR3 memory controller (up to 1333MHz)</p> <p><b>Intel Pentium® B940 processor (2 cores / 2 threads, 2.00GHz, 2MB cache),</b> DDR3 memory controller (up to 1333MHz)</p> <p><b>Intel Core™ i3-2310M processor (2 cores / 4 threads, 2.10GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz)</p> <p><b>Intel Core i3-2350M processor (2 cores / 4 threads, 2.30GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz)</p> <p><b>Intel Core i5-2410M processor (2 cores / 4 threads, 2.30GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.90GHz)</p> <p><b>Intel Core i5-2430M processor (2 cores / 4 threads, 2.40GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.00GHz)</p> <p><b>Intel Core i5-2450M processor (2 cores / 4 threads, 2.50GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz)</p>	<p><b>Preloaded operating system<sup>20</sup></b></p> <ul style="list-style-type: none"> <li>- Genuine Windows® 7 Home Premium 64</li> </ul> <p><b>Preloaded applications<sup>14</sup></b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo ReadyComm</li> <li>• McAfee® VirusScan® Plus (60 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• CyberLink YouCam</li> <li>• Microsoft Office 2010 preloaded; purchase product key to activate</li> <li>• VeriFace™</li> <li>• Lenovo Energy Management Software</li> <li>• Lenovo DirectShare</li> <li>• Cyberlink Power2Go (DVD±RW)</li> </ul>
Memory	8GB max <sup>7</sup> / <b>PC3-10600 1333MHz DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets;	
Diskette drive	None	
SATA optical	Some: DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in Some: Blu-ray™ Disc reader (no Blu-ray burning), DVD recordable, 12.7mm, tray-in	
SATA disk	<b>500GB</b> (5400 rpm), <b>500GB</b> (7200 rpm), or <b>750GB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high	
Widescreen display	<b>15.6"</b> (396.2mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus	
Integrated graphics	<b>Intel HD Graphics in processor</b> , uses system memory, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	65-watt AC adapter Wireless on/off switch EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant
Numeric keypad	Numeric keypad on right of keyboard	
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 14.83" x 9.83" x 0.68" to 1.37"; 376.8mm x 249.8mm x 17.3 to 34.9mm	<p><b>Limited Warranty<sup>12</sup></b></p> <p>↪ <b>1-year warranty*:</b></p> <p>* 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</p> <p>↪ <b>Mail In repair service</b></p> <p>↪ <b>Service upgrade options<sup>58</sup></b> (in eligible locations):<sup>9</sup></p> <ul style="list-style-type: none"> <li>• 3-year Depot warranty 78Y1538</li> <li>• 1-year Mail In with accidental damage protection 55Y2511</li> <li>• 3-year Mail In with accidental damage protection 78Y1539</li> <li>• 3-year Onsite warranty 78Y1540</li> <li>• 1-year Onsite with accidental damage protection 78Y1533</li> </ul> <p>↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b></p>
Weight <sup>2</sup>	with optical drive and battery: 6-cell: from 5.73 lb (2.6kg)	
Case color	Dark brown top, black bottom	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b>	
Battery - life <sup>10</sup>	<i>Discrete models:</i> up to 5 hr; <i>Integrated models:</i> up to 6 hr	
Chipset	<b>Mobile Intel HM65 Express Chipset</b>	
ExpressCard/34	None	
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)	
Ports	Four USB 2.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, Broadcom® or Atheros® chip	
Bluetooth™	Some: Bluetooth 2.1 wireless + EDR, USB 2.0 interface	
Modem	None	
Ethernet	10/100 ethernet, Atheros AR8152L	
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (1.5 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	
Security	Hard disk password, user password, administrator password, security lockhole	
Fingerprint reader	None	

See footnotes for important warranty information

US model(s) announced July 11, 2012;

previous models on February 16, June 8, August 10, October 13, or December 21, 2011 or January 18, March 21, or May 17, 2012

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# Lenovo® G575 (4383) - Integrated

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Widescreen display	Camera	Integrated graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload
4383-48U	AMD E-350	1.60	4GBx1	15.6" HD LED	0.3M	HD 6310M	500GB <sup>8</sup>	DVD±RW	11b/g/n <sup>28</sup>	Black	None	None	6-cell	Prem 64
4383-3CU	AMD E-350	1.60	1+2GB	15.6" HD LED	0.3M	HD 6310M	320GB	DVD±RW	11b/g/n	Black	None	None	6-cell	Prem 64
4383-3YU	AMD E-450	1.65	4GBx1	15.6" HD LED	0.3M	HD 6320M	500GB	DVD±RW	11b/g/n	Black	None	None	6-cell	Prem 64
Ⓢ 4383-4HU	AMD E-450	1.65	4GBx1	15.6" HD LED	0.3M	HD 6320M	320GB	DVD±RW	11b/g/n	Black	None	None	6-cell	Prem 64
Ⓢ 4383-4WU	AMD E-450	1.65	4GBx1	15.6" HD LED	0.3M	HD 6320M	320GB	DVD±RW	11b/g/n	Black	None	None	6-cell	Prem 64
Ⓢ 4383-5GU	AMD E-450	1.65	4GBx1	15.6" HD LED	0.3M	HD 6320M	320GB	DVD±RW	11b/g/n	Black	None	None	6-cell	Prem 64

- 15.6" widescreen, glossy display
- Integrated 0.3 or 2.0 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Widescreen flexibility; two-spindle <b>AMD Accelerated Processor E-350</b> (dual-core, 1.60GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6310M Graphics, integrated DDR3 memory controller (up to 1066MHz) <b>AMD Accelerated Processor E-450</b> (dual-core, 1.65GHz, 1MB L2 cache), integrated AMD Radeon HD 6320M Graphics, integrated DDR3 memory controller (up to 1333MHz)	<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Home Premium 64 <b>Preloaded applications<sup>14</sup></b> (only some listed) • Lenovo OneKey Recovery • Lenovo ReadyComm • ooVoo™ • McAfee® VirusScan® Plus (60 days of virus definitions) • Adobe® Reader® • CyberLink YouCam • Microsoft Office 2010 preloaded; purchase product key to activate • VeriFace™ • Lenovo Energy Management Software • Cyberlink Power2Go (DVD±RW)
Memory	8GB max <sup>7</sup> / <b>PC3-8500 1066MHz DDR3</b> , non-parity, two 204-pin SO-DIMM sockets	
Diskette drive	None	
SATA optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in	
SATA disk	<b>320GB</b> (5400 rpm) or <b>500GB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high	
Widescreen display	<b>15.6"</b> (396.2mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel or 2.0-megapixel, fixed focus	
Integrated graphics	<i>Some:</i> <b>AMD Radeon HD 6310M Graphics</b> , in processor, DirectX® 11, use system memory, <i>Some:</i> <b>AMD Radeon HD 6320M Graphics</b> , in processor, DirectX 11, use system memory, External monitor support via analog VGA DB-15 connector	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	Numeric keypad on right of keyboard	
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch	40-watt AC adapter Wireless on/off switch EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant
Dimensions <sup>3</sup>	(WxDxH): 14.83" x 9.83" x 0.68" to 1.37"; 376.8mm x 249.8mm x 17.3 to 34.9mm	
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 5.73 lb (2.6kg)	
Case color	Black top, black bottom	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b>	<b>Limited Warranty<sup>12</sup></b>
Battery - life <sup>10</sup>	<i>Integrated models</i> : up to 6 hr	↪ <b>1-year warranty*</b> : * <b>1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b> ↪ <b>Mail In repair service</b> ↪ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • <b>3-year Depot warranty</b> 78Y1538 • <b>1-year Mail In with accidental damage protection</b> 55Y2511 • <b>3-year Mail In with accidental damage protection</b> 78Y1539 • <b>3-year Onsite warranty</b> 78Y1540 • <b>1-year Onsite with accidental damage protection</b> 78Y1533 ↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>
Chipset	<b>AMD A50M FCH</b>	
ExpressCard/34	None	
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)	
Ports	Four USB 2.0, external monitor (VGA DB-15), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, Broadcom® or Atheros® chip	
Bluetooth™	None	
Modem	None	
Ethernet	10/100 ethernet, Atheros AR8152L	
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (1.5 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	
Security	Hard disk password, user password, administrator password, security lockhole	
Fingerprint reader	None	

See footnotes for important warranty information

Ⓢ US model(s) announced August 17, 2012; previous models on August 10 or October 13, 2011 or March 21, 2012

Ⓢ< US model(s) withdrawn effective March 2012, August, 2012

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# Lenovo® G575 (4383) - Integrated (web only models)

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Widescreen display	Camera	Integrated graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload
4383-3NU	AMD E-350	1.60	4GBx1	15.6" HD LED	2.0M	HD 6310M	750GB <sup>8</sup>	DVD±RW	11b/g/n <sup>28</sup>	Black	None	None	6-cell	Prem 64
4383-3PU	AMD E-350	1.60	4GBx1	15.6" HD LED	2.0M	HD 6310M	500GB	DVD±RW	11b/g/n	Black	None	None	6-cell	Prem 64

- **15.6" widescreen, glossy display**
- **Integrated 0.3 or 2.0 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning Processor	<i>Widescreen flexibility; two-spindle</i> <b>AMD Accelerated Processor E-350</b> (dual-core, 1.60GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6310M Graphics, integrated DDR3 memory controller (up to 1066MHz)	<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Home Premium 64
Memory	8GB max <sup>7</sup> / <b>PC3-8500 1066MHz DDR3</b> , non-parity, two 204-pin SO-DIMM sockets	<b>Preloaded applications<sup>14</sup></b> (only some listed) • Lenovo OneKey Recovery • Lenovo ReadyComm • ooVoo™ • McAfee® VirusScan® Plus (60 days of virus definitions) • Adobe® Reader® • CyberLink YouCam • Microsoft Office 2010 preloaded; purchase product key to activate • VeriFace™ • Lenovo Energy Management Software • Cyberlink Power2Go (DVD±RW)
Diskette drive	None	40-watt AC adapter Wireless on/off switch EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant
SATA optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in	
SATA disk	<b>500GB</b> (5400 rpm) or <b>750GB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high	
Widescreen display	<b>15.6"</b> (396.2mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel or 2.0-megapixel, fixed focus	
Integrated graphics	<b>AMD Radeon HD 6310M Graphics</b> , in processor, DirectX® 11, use system memory, External monitor support via analog VGA DB-15 connector	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	Numeric keypad on right of keyboard	
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 14.83" x 9.83" x 0.68" to 1.37"; 376.8mm x 249.8mm x 17.3 to 34.9mm	
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 5.73 lb (2.6kg)	<b>Limited Warranty<sup>12</sup></b> ↪ <b>1-year warranty*</b> : * <b>1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b> ↪ <b>Mail In repair service</b> ↪ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • <b>3-year Depot warranty</b> 78Y1538 • <b>1-year Mail In with accidental damage protection</b> 55Y2511 • <b>3-year Mail In with accidental damage protection</b> 78Y1539 • <b>3-year Onsite warranty</b> 78Y1540 • <b>1-year Onsite with accidental damage protection</b> 78Y1533 ↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>
Case color	Black top, black bottom	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b>	
Battery - life <sup>10</sup>	<i>Integrated models</i> : up to 6 hr	
Chipset	<b>AMD A50M FCH</b>	
ExpressCard/34	None	
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)	
Ports	Four USB 2.0, external monitor (VGA DB-15), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, Broadcom® or Atheros® chip	
Bluetooth™	None	
Modem	None	
Ethernet	10/100 ethernet, Atheros AR8152L	
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (1.5 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	
Security	Hard disk password, user password, administrator password, security lockhole	
Fingerprint reader	None	

See footnotes for important warranty information  
US models announced August 10, 2011

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(SAMB1-2) August 2011

Type-model	Processor	GHz	Memory	Widescreen display	Camera	Integrated graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload
4383-4NU	AMD E-450	1.65	4GBx1	15.6" HD LED	0.3M	HD 6320M	500GB <sup>8</sup>	DVD±RW	11b/g/n <sup>28</sup>	Black	None	None	6-cell	Prem 64

- 15.6" widescreen, glossy display
- Integrated 0.3 or 2.0 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
- This system is Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Widescreen flexibility; two-spindle <b>AMD Accelerated Processor E-450</b> (dual-core, 1.65GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6320M Graphics, integrated DDR3 memory controller (up to 1333MHz)	<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Home Premium 64
Memory	4GB max <sup>7</sup> / <b>PC3-8500 1066MHz DDR3</b> , non-parity, one 204-pin SO-DIMM socket	<b>Preloaded applications<sup>14</sup></b> (only some listed) • Lenovo OneKey Recovery • Lenovo ReadyComm • ooVoo™ • McAfee® VirusScan® Plus (60 days of virus definitions) • Adobe® Reader® • CyberLink YouCam • Microsoft Office 2010 preloaded; purchase product key to activate • VeriFace™ • Lenovo Energy Management Software • Cyberlink Power2Go (DVD±RW)
Diskette drive	None	40-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant
SATA optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in	
SATA disk	<b>500GB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high	<b>Limited Warranty<sup>12</sup></b> ↪ <b>1-year warranty*:</b> * 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ↪ <b>Mail In repair service</b> ↪ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • 3-year Depot warranty 78Y1538 • 1-year Mail In with accidental damage protection 55Y2511 • 3-year Mail In with accidental damage protection 78Y1539 • 3-year Onsite warranty 78Y1540 • 1-year Onsite with accidental damage protection 78Y1533 ↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>
Widescreen display	<b>15.6"</b> (396.2mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel or 2.0-megapixel, fixed focus	
Integrated graphics	<b>AMD Radeon HD 6320M Graphics</b> , in processor, DirectX® 11, use system memory, External monitor support via analog VGA DB-15 connector	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	Numeric keypad on right of keyboard	
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 14.83" x 9.83" x 0.68" to 1.37"; 376.8mm x 249.8mm x 17.3 to 34.9mm	
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 5.73 lb (2.6kg)	
Case color	Black top, black bottom	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b>	
Battery - life <sup>10</sup>	<i>Integrated models</i> : up to 6 hr	
Chipset	<b>AMD A50M FCH</b>	
ExpressCard/34	None	
Multicard reader	None	
Ports	Two USB 2.0, external monitor (VGA DB-15), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, Broadcom® or Atheros® chip	
Bluetooth™	None	
Modem	None	
Ethernet	10/100 ethernet, Atheros AR8152L	
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / speaker (1.5 watt x 1) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	
Security	Hard disk password, user password, administrator password, security lockhole	
Fingerprint reader	None	

See footnotes for important warranty information  
US model(s) announced February 29, 2012

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(SAMB1-4) March 2012

# Lenovo® G575 (4383) - Switchable (web only models)

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Widescreen display	Camera	Graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload
4383-4PU	AMD E-450	1.65	4+2GB	15.6" HD LED	0.3M	HD 6370M	750GB <sup>8</sup>	DVD±RW	11b/g/n <sup>28</sup>	Black	None	BT2.1	6-cell	Prem 64

- **15.6" widescreen, glossy display**
- **Integrated 0.3 or 2.0 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning Processor	<i>Widescreen flexibility; two-spindle</i> <b>AMD Accelerated Processor E-450</b> (dual-core, 1.65GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6320M Graphics, integrated DDR3 memory controller (up to 1333MHz)	<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Home Premium 64
Memory	8GB max <sup>7</sup> / <b>PC3-8500 1066MHz DDR3</b> , non-parity, two 204-pin SO-DIMM sockets	<b>Preloaded applications<sup>14</sup></b> (only some listed) • Lenovo OneKey Recovery • Lenovo ReadyComm • ooVoo™ • McAfee® VirusScan® Plus (60 days of virus definitions) • Adobe® Reader® • CyberLink YouCam • Microsoft Office 2010 preloaded; purchase product key to activate • VeriFace™ • Lenovo Energy Management Software • Cyberlink Power2Go (DVD±RW)
Diskette drive	None	65-watt AC adapter Wireless on/off switch EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant
SATA optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in	
SATA disk	<b>750GB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high	<b>Limited Warranty<sup>12</sup></b> ↪ <b>1-year warranty*:</b> * <b>1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b> ↪ <b>Mail In repair service</b> ↪ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • <b>3-year Depot warranty</b> 78Y1538 • <b>1-year Mail In with accidental damage protection</b> 55Y2511 • <b>3-year Mail In with accidental damage protection</b> 78Y1539 • <b>3-year Onsite warranty</b> 78Y1540 • <b>1-year Onsite with accidental damage protection</b> 78Y1533 ↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>
Widescreen display	<b>15.6"</b> (396.2mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel or 2.0-megapixel, fixed focus	
Switchable graphics	Dynamic switching between discrete and integrated graphics (user selectable), <b>AMD Radeon HD 6320M Graphics</b> in processor, and <b>AMD Radeon HD 6370M Graphics</b> , PCI Express® x16, 1GB memory, DirectX® 11, external analog monitor support via VGA DB-15 connector	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	Numeric keypad on right of keyboard	
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 14.83" x 9.83" x 0.68" to 1.37"; 376.8mm x 249.8mm x 17.3 to 34.9mm	
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 5.73 lb (2.6kg)	
Case color	Black top, black bottom	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b>	
Battery - life <sup>10</sup>	<i>Integrated models</i> : up to 6 hr	
Chipset	<b>AMD A50M FCH</b>	
ExpressCard/34	None	
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)	
Ports	Four USB 2.0, external monitor (VGA DB-15), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, Broadcom® or Atheros® chip	
Bluetooth™	Bluetooth 2.1 wireless + EDR, USB 2.0 interface	
Modem	None	
Ethernet	10/100 ethernet, Atheros AR8152L	
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (1.5 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	
Security	Hard disk password, user password, administrator password, security lockhole	
Fingerprint reader	None	

See footnotes for important warranty information  
US model(s) announced October 13, 2011

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(SAMB1-3) October 2011



Lenovo G480



Lenovo G480/G580



Lenovo G480/G580



Lenovo G580



Lenovo G480/G580  
Red (Glossy)



Lenovo G480/G580  
Dark Brown (hairline)



Lenovo G480/G580  
Dark Brown (Glossy)



Lenovo G480/G580  
Blue (Glossy)



# Lenovo® G480 (2184) - web only models

Personal Systems Reference (PSREF)

Type-model	Processor	Memory	Widescreen display	Camera	Graphics	SATA disk GB <sup>a</sup> rpm	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload	Avail date (mm/yy)
2184-3PU	B820	4GBx1	14.0" HD	0.3M	Intel HD Graphics	750GB 5400	DVD±RW	11b/g/n <sup>28</sup>	Dark brown	HDMI		6-cell	Prem 64	07/12
2184-3NU	B820	4GBx1	14.0" HD	0.3M	Intel HD Graphics	1TB 5400	DVD±RW	11b/g/n	Dark brown	HDMI		6-cell	Prem 64	07/12
☞ 2184-27U	i5-3210M	4+2GB	14.0" HD	0.3M	Intel HD 4000	500GB 7200	DVD±RW	11b/g/n	Dark brown	HDMI	BT	6-cell	Prem 64	07/12
☞ 2184-22U	i5-3210M	4GBx2	14.0" HD	0.3M	Intel HD 4000	750GB 5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT	6-cell	Prem 64	07/12

- 14.0" widescreen, glossy display
- Integrated 0.3 megapixel or 720P HD camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
- These system are Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Widescreen flexibility; two-spindle <b>Intel® Celeron® B820 processor (2 cores / 2 threads, 1.70GHz, 2MB cache)</b> , DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics <b>Intel Core™ i5-3210M processor (2 cores / 4 threads, 2.50 GHz, 3MB cache)</b> , DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.10GHz), integrated Intel HD Graphics 4000										<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Home Premium 64			
Memory	8GB max <sup>7</sup> / <b>PC3-12800 1600MHz DDR3*</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller										<b>Preloaded applications<sup>14</sup></b> (only some listed) • Lenovo OneKey Recovery • Lenovo Solution Center • ooVoo™ • PokeTALK • McAfee® Internet Security (30-Day Trial) • Adobe® Reader® • CyberLink YouCam • Microsoft Office 2010 preloaded; purchase product key to activate • VeriFace™ • Lenovo Energy Management Software • Cyberlink Power2Go (DVD±RW)			
Diskette drive	None										Integrated models: 65-watt AC adapter Optimus models: 90-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant			
SATA optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in													
SATA disk	<b>500GB</b> (7200 rpm), <b>750GB</b> (5400 rpm), or <b>1TB</b> (5400 rpm) / SATA 3.0Gb/s, 7mm or 9.5mm high										<b>Limited Warranty<sup>12</sup></b> ⇨ <b>1-year warranty*:</b> * 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • 3-year Depot warranty 78Y1538 • 1-year Mail In with accidental damage protection 55Y2511 • 3-year Mail In with accidental damage protection 78Y1539 • 3-year Onsite warranty 78Y1540 • 1-year Onsite with accidental damage protection 78Y1533 ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset													
Widescreen display	<b>14.0"</b> (355.6mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 200 nits, 16:9 aspect ratio, 500:1 contrast ratio										⇨ <b>1-year warranty*:</b> * 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • 3-year Depot warranty 78Y1538 • 1-year Mail In with accidental damage protection 55Y2511 • 3-year Mail In with accidental damage protection 78Y1539 • 3-year Onsite warranty 78Y1540 • 1-year Onsite with accidental damage protection 78Y1533 ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			
Camera	Camera on top of screen, 0.3-megapixel or 720p HD, fixed focus													
Graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4000</b> , integrated in processor; external monitor support via analog VGA DB-15 connector / digital HDMI connector										⇨ <b>1-year warranty*:</b> * 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • 3-year Depot warranty 78Y1538 • 1-year Mail In with accidental damage protection 55Y2511 • 3-year Mail In with accidental damage protection 78Y1539 • 3-year Onsite warranty 78Y1540 • 1-year Onsite with accidental damage protection 78Y1533 ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key													
Numeric keypad	None										⇨ <b>1-year warranty*:</b> * 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • 3-year Depot warranty 78Y1538 • 1-year Mail In with accidental damage protection 55Y2511 • 3-year Mail In with accidental damage protection 78Y1539 • 3-year Onsite warranty 78Y1540 • 1-year Onsite with accidental damage protection 78Y1533 ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch													
Dimensions <sup>3</sup>	(WxDxH): 13.35" x 9.06" x 0.68" to 1.33"; 339mm x 230mm x 17.2 to 33.8mm										⇨ <b>1-year warranty*:</b> * 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • 3-year Depot warranty 78Y1538 • 1-year Mail In with accidental damage protection 55Y2511 • 3-year Mail In with accidental damage protection 78Y1539 • 3-year Onsite warranty 78Y1540 • 1-year Onsite with accidental damage protection 78Y1533 ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			
Weight <sup>2</sup>	with optical drive and battery: 6-cell: from 4.85 lb (2.2kg)													
Case color	<i>Top:</i> Dark Brown (metal-like, hairline cover finishing); <i>bottom:</i> Black										⇨ <b>1-year warranty*:</b> * 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • 3-year Depot warranty 78Y1538 • 1-year Mail In with accidental damage protection 55Y2511 • 3-year Mail In with accidental damage protection 78Y1539 • 3-year Onsite warranty 78Y1540 • 1-year Onsite with accidental damage protection 78Y1533 ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic													
Battery - type	Lithium Ion <b>6-cell</b> , 48Wh										⇨ <b>1-year warranty*:</b> * 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • 3-year Depot warranty 78Y1538 • 1-year Mail In with accidental damage protection 55Y2511 • 3-year Mail In with accidental damage protection 78Y1539 • 3-year Onsite warranty 78Y1540 • 1-year Onsite with accidental damage protection 78Y1533 ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			
Battery - life <sup>10</sup>	<i>GT 630M models:</i> up to 4.5 hr; <i>610M models:</i> up to 5 hr; <i>Integrated models:</i> up to 6 hr													
Chipset	<b>Mobile Intel HM76 Express Chipset</b>										⇨ <b>1-year warranty*:</b> * 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • 3-year Depot warranty 78Y1538 • 1-year Mail In with accidental damage protection 55Y2511 • 3-year Mail In with accidental damage protection 78Y1539 • 3-year Onsite warranty 78Y1540 • 1-year Onsite with accidental damage protection 78Y1533 ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			
ExpressCard/34	None													
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)										⇨ <b>1-year warranty*:</b> * 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • 3-year Depot warranty 78Y1538 • 1-year Mail In with accidental damage protection 55Y2511 • 3-year Mail In with accidental damage protection 78Y1539 • 3-year Onsite warranty 78Y1540 • 1-year Onsite with accidental damage protection 78Y1533 ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			
Ports	One USB 2.0 and two USB 3.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)													
TV tuner	None										⇨ <b>1-year warranty*:</b> * 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • 3-year Depot warranty 78Y1538 • 1-year Mail In with accidental damage protection 55Y2511 • 3-year Mail In with accidental damage protection 78Y1539 • 3-year Onsite warranty 78Y1540 • 1-year Onsite with accidental damage protection 78Y1533 ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			
PCIe Mini Card	One PCI Express Mini Card slot													
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Half Mini Card adapter, Broadcom® or Atheros® chip, 1x1										⇨ <b>1-year warranty*:</b> * 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • 3-year Depot warranty 78Y1538 • 1-year Mail In with accidental damage protection 55Y2511 • 3-year Mail In with accidental damage protection 78Y1539 • 3-year Onsite warranty 78Y1540 • 1-year Onsite with accidental damage protection 78Y1533 ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			
Bluetooth™	<i>Some:</i> Bluetooth 4.0 wireless													
Modem	None										⇨ <b>1-year warranty*:</b> * 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • 3-year Depot warranty 78Y1538 • 1-year Mail In with accidental damage protection 55Y2511 • 3-year Mail In with accidental damage protection 78Y1539 • 3-year Onsite warranty 78Y1540 • 1-year Onsite with accidental damage protection 78Y1533 ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			
Ethernet	10/100M ethernet, Atheros AR8162													
Audio support	High Definition (HD) Audio, Conexant® CX20671 / stereo speakers (1.5 watt x 2), Dolby® Advanced Audio™ v2 / integrated microphone, headphone / microphone combo jack (3.5 mm)										⇨ <b>1-year warranty*:</b> * 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • 3-year Depot warranty 78Y1538 • 1-year Mail In with accidental damage protection 55Y2511 • 3-year Mail In with accidental damage protection 78Y1539 • 3-year Onsite warranty 78Y1540 • 1-year Onsite with accidental damage protection 78Y1533 ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			
Security	Hard disk password, administrator password, security lockhole													
Fingerprint reader	None										⇨ <b>1-year warranty*:</b> * 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • 3-year Depot warranty 78Y1538 • 1-year Mail In with accidental damage protection 55Y2511 • 3-year Mail In with accidental damage protection 78Y1539 • 3-year Onsite warranty 78Y1540 • 1-year Onsite with accidental damage protection 78Y1533 ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			

See footnotes for important warranty information

☞ US model(s) announced July 25, 2012; previous model(s) on July 11, 2012

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# Lenovo® G480 (2688) - web only models

Personal Systems Reference (PSREF)

Type-model	Pro-cessor	Memory	Widescreen display	Cam-era	Graphics	SATA disk GB <sup>2</sup>	rpm	SATA optical	PCIe Mini Card 802.11	Top color	HDMI con-necter	Blue-tooth	Battery cells	Win7 preload	Avail date (mm/yy)
2688-2LU	i3-2370M	4GBx1	14.0" HD	0.3M	Intel HD 3000	500GB	5400	DVD±RW	11b/g/n <sup>28</sup>	Blue (glossy)	HDMI	BT4.0	6-cell	Prem 64	07/12
2688-2NU	i3-2370M	4GBx1	14.0" HD	0.3M	Intel HD 3000	500GB	5400	DVD±RW	11b/g/n	Brown (glossy)	HDMI	BT4.0	6-cell	Prem 64	07/12
2688-2AU	i3-2370M	4GBx1	14.0" HD	0.3M	Intel HD 3000	500GB	5400	DVD±RW	11b/g/n	Red (glossy)	HDMI	BT4.0	6-cell	Prem 64	07/12

- **14.0" widescreen, glossy display**
- **Integrated 0.3 megapixel or 720P HD camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**
- **These system are Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning Processor	<i>Widescreen flexibility; two-spindle</i> <b>Intel® Core™ i3-2370M processor (2 cores / 4 threads, 2.40GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics 3000	<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Home Premium 64
Memory	8GB max <sup>7</sup> / <b>PC3-12800 1600MHz DDR3*</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	<b>Preloaded applications<sup>14</sup></b> (only some listed) • Lenovo OneKey Recovery • Lenovo Solution Center • ooVoo™ • PokeTALK • McAfee® Internet Security (30-Day Trial) • Adobe® Reader® • CyberLink YouCam • Microsoft Office 2010 preloaded; purchase product key to activate • VeriFace™ • Lenovo Energy Management Software • Cyberlink Power2Go (DVD±RW)
Diskette drive	None	<b>Integrated models:</b> 65-watt AC adapter <b>Optimus models:</b> 90-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant
SATA optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in	
SATA disk	<b>500GB</b> (5400 rpm) / SATA 3.0Gb/s, 7mm or 9.5mm high	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset	
Widescreen display	<b>14.0"</b> (355.6mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 200 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel or 720p HD, fixed focus	
Graphics	<b>Intel HD 3000 Graphics</b> , integrated in processor; external monitor support via analog VGA DB-15 connector / digital HDMI connector	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	None	
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 13.35" x 9.06" x 0.68" to 1.33"; 339mm x 230mm x 17.2 to 33.8mm	<b>Limited Warranty<sup>12</sup></b> ↪ <b>1-year warranty*:</b> * <b>1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b> ↪ <b>Mail In repair service</b> ↪ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • <b>3-year Depot warranty</b> 78Y1538 • <b>1-year Mail In with accidental damage protection</b> 55Y2511 • <b>3-year Mail In with accidental damage protection</b> 78Y1539 • <b>3-year Onsite warranty</b> 78Y1540 • <b>1-year Onsite with accidental damage protection</b> 78Y1533 ↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 4.85 lb (2.2kg)	
Case color	<i>Top:</i> Brown (glossy), Red (glossy), or Blue (glossy); <i>bottom:</i> Black	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b> , 48Wh	
Battery - life <sup>10</sup>	<i>GT 630M models:</i> up to 4.5 hr; <i>610M models:</i> up to 5 hr; <i>Integrated models:</i> up to 6 hr	
Chipset	<b>Mobile Intel HM76 Express Chipset</b>	
ExpressCard/34	None	
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)	
Ports	One USB 2.0 and two USB 3.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Half Mini Card adapter, Broadcom® or Atheros® chip, 1x1	
Bluetooth™	Bluetooth 4.0 wireless	
Modem	None	
Ethernet	10/100M ethernet, Atheros AR8162	
Audio support	High Definition (HD) Audio, Realtek® ALC269Q-VC2 codec / stereo speakers (1.5 watt x 2), Dolby® Advanced Audio™ v2 / integrated microphone, headphone / microphone combo jack (3.5 mm)	
Security	Hard disk password, administrator password, security lockhole	
Fingerprint reader	None	

See footnotes for important warranty information  
US model(s) announced July 11, 2012

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Part number	Pro-cessor	Memory	Widescreen display	Cam-era	Integrated graphics	SATA disk GB <sup>8</sup> rpm	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win8 preload	Avail date (mm/yy)
59344050	i3-3110M	4GBx1	15.6" HD	720p	Intel HD	500GB 5400	DVD±RW	11b/g/n <sup>28</sup>	Brown (glossy)	HDMI	None	6-cell	Win8 64	11/12
59345881	B980	4GBx1	15.6" HD	720p	Intel HD 4000	500GB 5400	DVD±RW	11b/g/n	Brown (glossy)	HDMI	None	6-cell	Win8 64	11/12
59344054	i5-3210M	4GBx1	15.6" HD	720p	Intel HD 4000	500GB 5400	DVD±RW	11b/g/n	Brown (glossy)	HDMI	None	6-cell	Win8 64	11/12
59359654	2020M	4GBx1	15.6" HD	720p	Intel HD	500GB 5400	DVD±RW	11b/g/n	Dark Brown	HDMI	None	6-cell	Win8 64	03/13
59359079	i3-3120M	4GBx1	15.6" HD	720p	Intel HD 4000	500GB 5400	DVD±RW	11b/g/n	Dark Brown	HDMI	None	6-cell	Win8 64	03/13
59359084	i5-3230M	4GBx1	15.6" HD	720p	Intel HD 4000	500GB 5400	DVD±RW	11b/g/n	Dark Brown	HDMI	None	6-cell	Win8 64	03/13

- 15.6" widescreen, glossy display
- Integrated 0.3 megapixel or 720P HD camera
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

Positioning Processor	<p><i>Widescreen flexibility; two-spindle</i></p> <p><b>Intel® Pentium® B980 Processor (2 cores / 2 threads, 2.40 GHz, 2MB Cache)</b>, DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics</p> <p><b>Intel Pentium 2020M Processor (2 cores / 2 threads, 2.40 GHz, 2MB Cache)</b>, DDR3 memory controller (up to 1600MHz), integrated Intel HD Graphics</p> <p><b>Intel Core™ i3-3110M processor (2 cores / 4 threads, 2.40GHz, 3MB cache)</b>, DDR3 memory controller (up to 1600MHz), integrated Intel HD Graphics 4000</p> <p><b>Intel Core i3-3120M processor (2 cores / 4 threads, 2.50GHz, 3MB cache)</b>, DDR3 memory controller (up to 1600MHz), integrated Intel HD Graphics 4000</p> <p><b>Intel Core i5-3210M processor (2 cores / 4 threads, 2.50GHz, 3MB cache)</b>, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.10GHz), integrated Intel HD Graphics 4000</p> <p><b>Intel Core i5-3230M processor (2 cores / 4 threads, 2.60GHz, 3MB cache)</b>, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.20GHz), integrated Intel HD Graphics 4000</p>	<p><b>Preloaded operating system<sup>20</sup></b></p> <ul style="list-style-type: none"> <li>- Windows® 8 64-bit</li> </ul> <p><b>Preloaded applications<sup>14</sup></b> (only some listed)</p> <ul style="list-style-type: none"> <li>- <b>Traditional Desktop apps</b> <ul style="list-style-type: none"> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• PokeTALK</li> <li>• McAfee® Internet Security (30-Day Trial)</li> <li>• CyberLink YouCam</li> <li>• Cyberlink PowerDVD (DVD±RW)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Microsoft Office preloaded; purchase product key to activate</li> <li>• Lenovo Energy Management</li> </ul> </li> <li>- <b>Windows Store apps (Metro-style)</b> <ul style="list-style-type: none"> <li>• AccuWeather</li> <li>• Evernote</li> <li>• Skype</li> <li>• McAfee</li> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Cyberlink PowerDVD</li> </ul> </li> </ul>
Memory	<p>16GB max<sup>7</sup> / <b>PC3-12800 1600MHz DDR3*</b>, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets</p> <p>* System automatically clocks down for processors with 1333MHz DDR3 memory controller</p>	
Diskette drive	None	
SATA optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in	
SATA disk	<b>500GB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset	
Widescreen display	<b>15.6"</b> (396.2mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel or 720p HD, fixed focus	
Integrated graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4000</b> , integrated in processor; external monitor support via analog VGA DB-15 connector / digital HDMI connector	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	Numeric keypad on right of keyboard	
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 14.80" x 9.65" x 0.68" to 1.35"; 376mm x 245mm x 17.2 to 34.3mm	
Weight <sup>2</sup>	with optical drive and battery: <b>6-cell</b> : from 5.73 lb (2.6kg)	
Case color	<i>Top:</i> Brown (glossy), Red (glossy), Blue (glossy), or Dark Brown (metal-like, hairline cover finishing); <i>bottom:</i> Black	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b> , 48Wh	
Battery - life <sup>10</sup>	<i>GT 630M models:</i> up to 4.5 hr; <i>610M models:</i> up to 5 hr; <i>Integrated models:</i> up to 6 hr	
Chipset	<b>Mobile Intel HM76 Express Chipset</b>	
ExpressCard/34	None	
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)	
Ports	One USB 2.0 and two USB 3.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Half Mini Card adapter, Broadcom® or Atheros® chip	
Bluetooth™	None	
Modem	None	
Ethernet	10/100M ethernet, Atheros AR8162	
Audio support	High Definition (HD) Audio, Realtek® ALC269Q-VG2 or Conexant® CX20671 codec / stereo speakers (1.5 watt x 2), Dolby® Advanced Audio™ v2 / integrated microphone, headphone / microphone combo jack (3.5 mm)	
Security	Hard disk password, administrator password, security lockhole	
Fingerprint reader	None	

*Integrated models:* 65-watt AC adapter  
*Optimus models:* 90-watt AC adapter  
EPEAT™ Gold rating  
ENERGY STAR® 5.0-compliant  
RoHS-compliant

**Limited Warranty<sup>12</sup>**

- ↪ **1-year warranty\*:**
  - \* **1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter**
- ↪ **Mail In repair service**
- ↪ **Service upgrade options<sup>58</sup>** (in eligible locations):<sup>9</sup>
  - **3-year Depot warranty** 78Y1538
  - **1-year Mail In with accidental damage protection** 55Y2511
  - **3-year Mail In with accidental damage protection** 78Y1539
  - **3-year Onsite warranty** 78Y1540
  - **1-year Onsite with accidental damage protection** 78Y1533
- ↪ **Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686**

See footnotes for important warranty information

US model(s) announced March 6, 2013; previous model(s) on November 8 or November 28, 2012

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# Lenovo® G580 (Windows 8) - Black

Personal Systems Reference (PSREF)

Part number	Processor	Memory	Widescreen display	Camera	Integrated graphics	Chipset	SATA disk GB <sup>8</sup> rpm	SATA optical	PCIe Mini Card 802.11	Top color	HDMI	Blue-tooth	Battery cells	Win8 preload	Avail date (mm/yy)
59359680	B960	4GBx1	15.6" HD	720p	Intel HD graphics	HM70	320G 5400	DVD±RW	11b/g/n <sup>28</sup>	Black	None	None	6-cell	Win8 64	03/13

- 15.6" widescreen, glossy display
- Integrated 0.3 megapixel or 720P HD camera
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

Positioning Processor	Widescreen flexibility; two-spindle <b>Intel® Pentium® B960 Processor (2 cores / 2 threads, 2.20 GHz, 2MB Cache)</b> , DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics	<b>Preloaded operating system<sup>20</sup></b> - Windows® 8 64-bit
Memory	8GB max <sup>7</sup> / <b>PC3-12800 1600MHz DDR3*</b> , non-parity, single-channel capable, one 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	<b>Preloaded applications<sup>14</sup></b> (only some listed) <b>- Traditional Desktop apps</b> • Lenovo OneKey Recovery • Lenovo Cloud Storage by SugarSync • PokeTALK • McAfee® Internet Security (30-Day Trial) • CyberLink YouCam • Cyberlink PowerDVD (DVD±RW) • Cyberlink Power2Go (DVD±RW) • Microsoft Office preloaded; purchase product key to activate • Lenovo Energy Management <b>- Windows Store apps (Metro-style)</b> • AccuWeather • Evernote • Skype • McAfee • Lenovo Support • Lenovo Companion • Cyberlink PowerDVD
Diskette drive	None	<b>Limited Warranty<sup>12</sup></b> ⇨ <b>1-year warranty*:</b> * 1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ Mail In repair service ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • 3-year Depot warranty 78Y1538 • 1-year Mail In with accidental damage protection 55Y2511 • 3-year Mail In with accidental damage protection 78Y1539 • 3-year Onsite warranty 78Y1540 • 1-year Onsite with accidental damage protection 78Y1533 ⇨ Toll-free support for warranty issues during the warranty period <sup>12</sup> via 877-453-6686
SATA optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in	
SATA disk	<b>320GB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset	
Widescreen display	<b>15.6"</b> (396.2mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel or 720p HD, fixed focus	
Integrated graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4000</b> , integrated in processor; external monitor support via analog VGA DB-15 connector	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	Numeric keypad on right of keyboard	
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 14.80" x 9.65" x 0.68" to 1.35"; 376mm x 245mm x 17.2 to 34.3mm	
Weight <sup>2</sup>	with optical drive and battery: <b>6-cell</b> : from 5.73 lb (2.6kg)	
Case color	<i>Top:</i> Black or Black (Glossy); <i>bottom:</i> Black	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b> , 48Wh	
Battery - life <sup>10</sup>	<i>Integrated models:</i> up to 6 hr	
Chipset	<b>Mobile Intel HM76 or HM70 Express Chipset</b>	
ExpressCard/34	None	
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)	
Ports	One USB 2.0 and two USB 3.0, external monitor (VGA DB-15), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Half Mini Card adapter, Broadcom® or Atheros® chip	
Bluetooth™	None	
Modem	None	
Ethernet	10/100M ethernet, Atheros AR8162	
Audio support	High Definition (HD) Audio, Realtek® ALC269Q-VC2 codec / stereo speakers (1.5 watt x 2), Dolby® Advanced Audio™ v2 / integrated microphone, headphone / microphone combo jack (3.5 mm)	
Security	Hard disk password, administrator password, security lockhole	
Fingerprint reader	None	

See footnotes for important warranty information  
US model(s) announced March 6, 2013

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(LAGR2-5) March 2013

# Lenovo® G580 (2189) - web only models

Personal Systems Reference (PSREF)

Type-model	Pro-cessor	Memory	Widescreen display	Cam-era	Integrated graphics	SATA disk GB <sup>8</sup>	rpm	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload	Avail date (mm/yy)
2189-8CU	B820	4GBx1	15.6" HD	0.3M	Intel HD Graphics	500GB	5400	DVD±RW	11b/g/n <sup>28</sup>	Dark brown	HDMI		6-cell	Prem 64	07/12
2189-8AU	B820	4GBx1	15.6" HD	0.3M	Intel HD Graphics	750GB	5400	DVD±RW	11b/g/n	Dark brown	HDMI		6-cell	Prem 64	07/12
2189-88U	B820	4+2GB	15.6" HD	0.3M	Intel HD Graphics	1TB	5400	DVD±RW	11b/g/n	Dark brown	HDMI		6-cell	Prem 64	07/12
2189-82U	i5-3210M	4GBx2	15.6" HD	0.3M	Intel HD 4000	1TB	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT	6-cell	Prem 64	07/12

- 15.6" widescreen, glossy display
- Integrated 0.3 megapixel or 720P HD camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
- These system are Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Widescreen flexibility; two-spindle <b>Intel® Celeron® B820 processor (2 cores / 2 threads, 1.70GHz, 2MB cache)</b> , DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics <b>Intel Core™ i5-3210M processor (2 cores / 4 threads, 2.50 GHz, 3MB cache)</b> , DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.10GHz), integrated Intel HD Graphics 4000										<b>Preloaded operating system</b> <sup>20</sup> - Genuine Windows® 7 Home Premium 64 <b>Preloaded applications</b> <sup>14</sup> (only some listed)				
Memory	16GB max <sup>7</sup> / <b>PC3-12800 1600MHz DDR3*</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller										<ul style="list-style-type: none"> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo Solution Center</li> <li>• ooVoo™</li> <li>• PokeTALK</li> <li>• McAfee® Internet Security (30-Day Trial)</li> <li>• Adobe® Reader®</li> <li>• CyberLink YouCam</li> <li>• Microsoft Office 2010 preloaded; purchase product key to activate</li> <li>• VeriFace™</li> <li>• Lenovo Energy Management Software</li> <li>• Cyberlink Power2Go (DVD±RW)</li> </ul>				
Diskette drive	None										<b>Integrated models:</b> 65-watt AC adapter <b>Optimus models:</b> 90-watt AC adapter <b>EPEAT™</b> Gold rating <b>ENERGY STAR®</b> 5.0-compliant <b>RoHS-compliant</b>				
SATA optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in														
SATA disk	<b>500GB</b> (5400 rpm), <b>750GB</b> (5400 rpm) or <b>1TB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset														
Widescreen display	<b>15.6"</b> (396.2mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio										<b>Limited Warranty</b> <sup>12</sup> ↪ <b>1-year warranty*</b> : * <b>1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b> ↪ <b>Mail In repair service</b> ↪ <b>Service upgrade options</b> <sup>58</sup> (in eligible locations): <sup>9</sup> <ul style="list-style-type: none"> <li>• <b>3-year Depot warranty</b> 78Y1538</li> <li>• <b>1-year Mail In with accidental damage protection</b> 55Y2511</li> <li>• <b>3-year Mail In with accidental damage protection</b> 78Y1539</li> <li>• <b>3-year Onsite warranty</b> 78Y1540</li> <li>• <b>1-year Onsite with accidental damage protection</b> 78Y1533</li> </ul> ↪ <b>Toll-free support for warranty issues during the warranty period</b> <sup>12</sup> via 877-453-6686				
Camera	Camera on top of screen, 0.3-megapixel or 720p HD, fixed focus														
Integrated graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4000</b> , integrated in processor; external monitor support via analog VGA DB-15 connector / digital HDMI connector														
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key														
Numeric keypad	Numeric keypad on right of keyboard														
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch														
Dimensions <sup>3</sup>	(WxDxH): 14.80" x 9.65" x 0.68" to 1.35"; 376mm x 245mm x 17.2 to 34.3mm														
Weight <sup>2</sup>	with optical drive and battery: <b>6-cell</b> : from 5.73 lb (2.6kg)														
Case color	<i>Top:</i> Dark Brown (metal-like, hairline cover finishing); <i>bottom:</i> Black														
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic														
Battery - type	Lithium Ion <b>6-cell</b> , 48Wh														
Battery - life <sup>10</sup>	<i>GT 630M models:</i> up to 4.5 hr; <i>610M models:</i> up to 5 hr; <i>Integrated models:</i> up to 6 hr														
Chipset	<b>Mobile Intel HM76 Express Chipset</b>														
ExpressCard/34	None														
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)														
Ports	One USB 2.0 and two USB 3.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)														
TV tuner	None														
PCIe Mini Card	One PCI Express Mini Card slot														
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Half Mini Card adapter, Broadcom® or Atheros® chip														
Bluetooth™	<i>Some:</i> Bluetooth wireless														
Modem	None														
Ethernet	10/100M ethernet, Atheros AR8162														
Audio support	High Definition (HD) Audio, Conexant® CX20671 / stereo speakers (1.5 watt x 2), Dolby® Advanced Audio™ v2 / integrated microphone, headphone / microphone combo jack (3.5 mm)														
Security	Hard disk password, administrator password, security lockhole														
Fingerprint reader	None														

See footnotes for important warranty information

☞ US model(s) announced July 25, 2012; previous model(s) on July 11, 2012

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# Lenovo® G580 (2689) - web only models

Personal Systems Reference (PSREF)

Type-model	Pro-cessor	Memory	Widescreen display	Cam-era	Integrated graphics	SATA disk GB <sup>8</sup> rpm	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload	Avail date (mm/yy)
2689-38U	i3-2370M	4GBx1	15.6" HD	0.3M	Intel HD 3000	500GB 5400	DVD±RW	11b/g/n <sup>28</sup>	Brown (glossy)	HDMI	BT	6-cell	Prem 64	07/12
2689-3DU	i3-2370M	4GBx1	15.6" HD	0.3M	Intel HD 3000	500GB 5400	DVD±RW	11b/g/n	Blue (glossy)	HDMI	BT	6-cell	Prem 64	07/12

- 15.6" widescreen, glossy display
- Integrated 0.3 megapixel or 720P HD camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
- These system are Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Widescreen flexibility; two-spindle <b>Intel® Core™ i3-2370M processor (2 cores / 4 threads, 2.40GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics 3000										<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Home Premium 64			
Memory	16GB max <sup>7</sup> / <b>PC3-12800 1600MHz DDR3*</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller										<b>Preloaded applications<sup>14</sup></b> (only some listed) • Lenovo OneKey Recovery • Lenovo Solution Center • ooVoo™ • PokeTALK • McAfee® Internet Security (30-Day Trial) • Adobe® Reader® • CyberLink YouCam • Microsoft Office 2010 preloaded; purchase product key to activate • VeriFace™ • Lenovo Energy Management Software • Cyberlink Power2Go (DVD±RW)			
Diskette drive	None										<b>Limited Warranty<sup>12</sup></b> ⇨ <b>1-year warranty*:</b> * <b>1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b> ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • <b>3-year Depot warranty</b> 78Y1538 • <b>1-year Mail In with accidental damage protection</b> 55Y2511 • <b>3-year Mail In with accidental damage protection</b> 78Y1539 • <b>3-year Onsite warranty</b> 78Y1540 • <b>1-year Onsite with accidental damage protection</b> 78Y1533 ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			
SATA optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in													
SATA disk	<b>500GB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high													
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset													
Widescreen display	<b>15.6"</b> (396.2mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio										⇨ <b>Integrated models:</b> 65-watt AC adapter ⇨ <b>Optimus models:</b> 90-watt AC adapter ⇨ <b>EPEAT™ Gold rating</b> ⇨ <b>ENERGY STAR® 5.0-compliant</b> ⇨ <b>RoHS-compliant</b>			
Camera	Camera on top of screen, 0.3-megapixel or 720p HD, fixed focus													
Integrated graphics	<b>Intel HD 3000 Graphics</b> , integrated in processor; external monitor support via analog VGA DB-15 connector / digital HDMI connector													
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key													
Numeric keypad	Numeric keypad on right of keyboard													
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch													
Dimensions <sup>3</sup>	(WxDxH): 14.80" x 9.65" x 0.68" to 1.35"; 376mm x 245mm x 17.2 to 34.3mm													
Weight <sup>2</sup>	with optical drive and battery: <b>6-cell:</b> from 5.73 lb (2.6kg)													
Case color	<b>Top:</b> Brown (glossy), Red (glossy), and Blue (glossy); <b>bottom:</b> Black													
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic													
Battery - type	Lithium Ion <b>6-cell</b> , 48Wh													
Battery - life <sup>10</sup>	<b>GT 630M models:</b> up to 4.5 hr; <b>610M models:</b> up to 5 hr; <b>Integrated models:</b> up to 6 hr													
Chipset	<b>Mobile Intel HM76 Express Chipset</b>										⇨ <b>1-year warranty*:</b> * <b>1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b> ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • <b>3-year Depot warranty</b> 78Y1538 • <b>1-year Mail In with accidental damage protection</b> 55Y2511 • <b>3-year Mail In with accidental damage protection</b> 78Y1539 • <b>3-year Onsite warranty</b> 78Y1540 • <b>1-year Onsite with accidental damage protection</b> 78Y1533 ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			
ExpressCard/34	None													
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)													
Ports	One USB 2.0 and two USB 3.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)													
TV tuner	None													
PCIe Mini Card	One PCI Express Mini Card slot													
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Half Mini Card adapter, Broadcom® or Atheros® chip													
Bluetooth™	Bluetooth wireless													
Modem	None													
Ethernet	10/100M ethernet, Atheros AR8162													
Audio support	High Definition (HD) Audio, Realtek® ALC269Q-VC2 codec / stereo speakers (1.5 watt x 2), Dolby® Advanced Audio™ v2 / integrated microphone, headphone / microphone combo jack (3.5 mm)													
Security	Hard disk password, administrator password, security lockhole										⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			
Fingerprint reader	None													

See footnotes for important warranty information  
US model(s) announced July 11, 2012

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# Lenovo® G580 (Windows 8) - web only models

Personal Systems Reference (PSREF)

Part number	Pro-cessor	Memory	Widescreen display	Cam-era	Integrated graphics	SATA disk GB <sup>8</sup>	rpm	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win8 preload	Avail date (mm/yy)
59354110	B830	4GBx1	15.6" HD	720p	Intel HD Graphics	500GB	5400	DVD±RW	11b/g/n <sup>28</sup>	Dark brown	HDMI	BT4.0	6-cell	Win8 64	11/12
59354101	i3-3110M	4+2GB	15.6" HD	720p	Intel HD 4000	500GB	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT4.0	6-cell	Win8 64	11/12
5935410M	i5-3210M	4GBx2	15.6" HD	720p	Intel HD 4000	1TB	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT4.0	6-cell	Win8 64	11/12
59354099	i7-3520M	4GBx2	15.6" HD	720p	Intel HD 4000	1TB	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT4.0	6-cell	Win8 64	11/12
59358720	B800	4GBx1	15.6" HD	720p	Intel HD Graphics	500GB	5400	DVD±RW	11b/g/n	Dark brown	HDMI		6-cell	Win8 64	03/13
59371412	i3-3120M	4+2GB	15.6" HD	720p	Intel HD 4000	500GB	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT4.0	6-cell	Win8 64	04/13
59371414	i5-3230M	4+2GB	15.6" HD	720p	Intel HD 4000	500GB	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT4.0	6-cell	Win8 64	04/13
59371416	i5-3230M	4GBx2	15.6" HD	720p	Intel HD 4000	1TB	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT4.0	6-cell	Win8 64	04/13
59381082	i7-3612QM	4GBx2	15.6" HD	720p	Intel HD 4000	1TB	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT4.0	6-cell	Win8 64	06/13

- **15.6" widescreen, glossy display**
- **Integrated 0.3 megapixel or 720P HD camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**

Positioning Processor	<p><i>Widescreen flexibility; two-spindle</i></p> <p><b>Intel® Celeron® B800 processor (2 cores / 2 threads, 1.50GHz, 2MB cache),</b> DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics</p> <p><b>Intel Celeron B830 processor (2 cores / 2 threads, 1.80GHz, 2MB cache),</b> DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics</p> <p><b>Intel Core™ i3-3110M processor (2 cores / 4 threads, 2.40GHz, 3MB cache),</b> DDR3 memory controller (up to 1600MHz), integrated Intel HD Graphics 4000</p> <p><b>Intel Core i3-3120M processor (2 cores / 4 threads, 2.50GHz, 3MB cache),</b> DDR3 memory controller (up to 1600MHz), integrated Intel HD Graphics 4000</p> <p><b>Intel Core i5-3210M processor (2 cores / 4 threads, 2.50GHz, 3MB cache),</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.10GHz), integrated Intel HD Graphics 4000</p> <p><b>Intel Core i5-3230M processor (2 cores / 4 threads, 2.60GHz, 3MB cache),</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.20GHz), integrated Intel HD Graphics 4000</p> <p><b>Intel Core i7-3520M processor (2 cores / 4 threads, 2.90GHz, 4MB cache),</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.60GHz), integrated Intel HD Graphics 4000</p> <p><b>Intel Core i7-3612QM processor (4 cores / 8 threads, 2.10GHz, 6MB cache),</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.10GHz), integrated Intel HD Graphics 4000</p>										<p><b>Preloaded operating system<sup>20</sup></b></p> <ul style="list-style-type: none"> <li>- Windows® 8 64-bit</li> </ul> <p><b>Preloaded applications<sup>14</sup></b> (only some listed)</p> <ul style="list-style-type: none"> <li>- <b>Traditional Desktop apps</b></li> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• PokeTALK</li> <li>• McAfee® Internet Security (30-Day Trial)</li> <li>• CyberLink YouCam</li> <li>• Cyberlink PowerDVD (DVD±RW)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Microsoft® Office preloaded; purchase product key to activate</li> <li>• Lenovo Energy Management</li> <li>- <b>Windows Store apps (Metro-style)</b></li> <li>• AccuWeather</li> <li>• Evernote</li> <li>• Skype</li> <li>• McAfee</li> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Cyberlink PowerDVD</li> </ul>
Memory	<p>16GB max<sup>7</sup> / <b>PC3-12800 1600MHz DDR3*</b>, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets</p> <p>* System automatically clocks down for processors with 1333MHz DDR3 memory controller</p>										
Diskette drive	None										
SATA optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in										
SATA disk	<b>500GB</b> (5400 rpm) or <b>1TB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high										
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset										
Widescreen display	<b>15.6"</b> (396.2mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio										
Camera	Camera on top of screen, 0.3-megapixel or 720p HD, fixed focus										
Integrated graphics	<b>Intel HD Graphics</b> or <b>Intel HD Graphics 4000</b> , integrated in processor; external monitor support via analog VGA DB-15 connector / digital HDMI connector										
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key										
Numeric keypad	Numeric keypad on right of keyboard										
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch										
Dimensions <sup>3</sup>	(WxDxH): 14.80" x 9.65" x 0.68" to 1.35"; 376mm x 245mm x 17.2 to 34.3mm										
Weight <sup>2</sup>	with optical drive and battery: <b>6-cell</b> : from 5.73 lb (2.6kg)										
Case color	<p><i>Top:</i> Dark Brown (metal-like, hairline cover finishing);</p> <p><i>bottom:</i> Black</p>										
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic										
Battery - type	Lithium Ion <b>6-cell</b> , 48Wh										
Battery - life <sup>10</sup>	<i>GT 630M models:</i> up to 4.5 hr; <i>610M models:</i> up to 5 hr; <i>Integrated models:</i> up to 6 hr										
Chipset	<b>Mobile Intel HM76 Express Chipset</b>										
ExpressCard/34	None										
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)										
Ports	One USB 2.0 and two USB 3.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)										
TV tuner	None										
PCIe Mini Card	One PCI Express Mini Card slot										
11b/g/n <sup>28</sup>	<p><i>Some:</i> 11b/g/n wireless<sup>4</sup>, PCIe Half Mini Card adapter, Broadcom® or Atheros® chip,</p> <p><i>Some:</i> 11b/g/n wireless, PCIe Half Mini Card adapter, Broadcom or Atheros chip, Wi-Fi + Bluetooth combo adapter</p>										
Bluetooth™	<i>Some:</i> Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter										
Modem	None										
Ethernet	10/100M ethernet, Atheros AR8162										
Audio support	High Definition (HD) Audio, Conexant® CX20671 / stereo speakers (1.5 watt x 2), Dolby® Advanced Audio™ v2 / integrated microphone, headphone / microphone combo jack (3.5 mm)										
Security	Hard disk password, administrator password, security lockhole										
Fingerprint reader	None										
											<p><i>Integrated models:</i> 65-watt AC adapter</p> <p><i>Optimus models:</i> 90-watt AC adapter</p> <p>EPEAT™ Gold rating</p> <p>ENERGY STAR® 5.0-compliant</p> <p>RoHS-compliant</p> <p><b>Limited Warranty<sup>12</sup></b></p> <ul style="list-style-type: none"> <li>↪ <b>1-year warranty*:</b></li> <li>* <b>1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b></li> <li>↪ <b>Mail In repair service</b></li> <li>↪ <b>Service upgrade options<sup>58</sup></b> (in eligible locations):<sup>9</sup> <ul style="list-style-type: none"> <li>• <b>3-year Depot warranty</b> 78Y1538</li> <li>• <b>1-year Mail In with accidental damage protection</b> 55Y2511</li> <li>• <b>3-year Mail In with accidental damage protection</b> 78Y1539</li> <li>• <b>3-year Onsite warranty</b> 78Y1540</li> <li>• <b>1-year Onsite with accidental damage protection</b> 78Y1533</li> </ul> </li> <li>↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b></li> </ul>

See footnotes for important warranty information

US model(s) announced June 5, 2013; previous model(s) on November 28, 2012 or March 27 or April 17, 2013

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# Lenovo® G585 (Integrated) - Windows 8

Personal Systems Reference (PSREF)

Part number	Processor	Memory	Widescreen display	Camera	Integrated graphics	SATA disk GB <sup>8</sup>	rpm	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win8 preload	Avail date (mm/yy)
59343703	E2-1800	4GBx1	15.6" HD	720p	Radeon HD 7340	320GB	5400	DVD±RW	11b/g/n <sup>28</sup>	Brown	HDMI	None	6-cell	Win8 64	11/12
59343701	E1-1200	4GBx1	15.6" HD	720p	Radeon HD 7310	320GB	5400	DVD±RW	11b/g/n	Brown	HDMI	None	6-cell	Win8 64	11/12

- 15.6" widescreen, glossy display
- Integrated 0.3 megapixel or 720P HD camera
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

Positioning Processor	Widescreen flexibility; two-spindle <b>AMD Accelerated Processor E1-1200 (2 cores, 1.40GHz, 1MB L2 cache)</b> , integrated AMD Radeon™ HD 7310 Graphics, integrated DDR3 memory controller (up to 1066MHz) <b>AMD Accelerated Processor E2-1800 (2 cores, 1.70GHz, 1MB L2 cache)</b> , integrated AMD Radeon HD 7340 Graphics, integrated DDR3 memory controller (up to 1333MHz)	<b>Preloaded operating system</b> <sup>20</sup> - Windows® 8 64-bit <b>Preloaded applications</b> <sup>14</sup> (only some listed) - <b>Traditional Desktop apps</b> • Lenovo OneKey Recovery • Lenovo Cloud Storage by SugarSync • Lenovo Solution Center • PokeTALK • McAfee® Internet Security (30-Day Trial) • Nitro Pro (90-Day Trial) • CyberLink YouCam • Cyberlink PowerDVD (DVD±RW) • Cyberlink Power2Go (DVD±RW) • Microsoft Office preloaded; purchase product key to activate • Lenovo Energy Management • Intel AppUp® - <b>Windows Store apps (Metro-style)</b> • AccuWeather • Evernote • Skype • McAfee • Lenovo Support • Lenovo Companion • Cyberlink PowerDVD
Memory	16GB max <sup>7</sup> / <b>PC3-12800 1600MHz DDR3*</b> , non-parity, single-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1066 MHz or 1333MHz DDR3 memory controller	
Diskette drive	None	
SATA optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in	
SATA disk	<b>320GB</b> (5400 rpm) / SATA 3.0Gb/s, 7mm or 9.5mm high	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset	
Widescreen display	<b>15.6"</b> (396.2mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	HD720p Camera on top of screen, 1.0-megapixel, fixed focus, LED indicator	
Integrated graphics	<b>AMD Radeon HD 7340 or HD 7310 graphics</b> , integrated in processor; external monitor support via analog VGA DB-15 connector / digital HDMI connector	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	Numeric keypad on right of keyboard	
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 14.80" x 9.65" x 1.35"; 376mm x 245mm x 34.3mm	
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 5.73 lb (2.6kg)	
Case color	<i>Top</i> : Brown (glossy); <i>bottom</i> : Black	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b> , 48Wh	
Battery - life <sup>10</sup>	<i>Integrated models</i> : up to 6 hr	<i>Integrated models</i> : 40-watt AC adapter EPEAT™ Gold rating ENERGY STAR® qualified RoHS-compliant
Chipset	<b>AMD A68M FCH</b>	
ExpressCard/34	None	
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)	
Ports	One USB 2.0 and two USB 3.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	<b>Limited Warranty</b> <sup>12</sup> ↪ <b>1-year warranty*</b> : * <b>1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b> ↪ <b>Mail In repair service</b> ↪ <b>Service upgrade options</b> <sup>58</sup> (in eligible locations): <sup>9</sup> • <b>3-year Depot warranty</b> 78Y1538 • <b>1-year Mail In with accidental damage protection</b> 55Y2511 ↪ <b>Toll-free support for warranty issues during the warranty period</b> <sup>12</sup> via 877-453-6686
TV tuner	None	
PCIe Mini Card	One PCI Express Half Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Half Mini Card adapter, Broadcom® or Atheros® chip, 1x1	
Bluetooth™	None	
Modem	None	
Ethernet	10/100M ethernet, Realtek RTL8105E	
Audio support	High Definition (HD) Audio, Conexant® CX20671 / stereo speakers (1.5 watt x 2), Dolby® Advanced Audio™ v2 / integrated microphone, headphone / microphone combo jack (3.5 mm)	
Security	Hard disk password, administrator password, security lockhole	
Fingerprint reader	None	

See footnotes for important warranty information

Ⓔ US model(s) announced November 28, 2012; previous model(s) on November 8, 2012

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(CHCH2-1) November 2012

# Lenovo® G585 (Integrated) - Black (Windows 8)

Personal Systems Reference (PSREF)

Part number	Processor	Memory	Widescreen display	Camera	Integrated graphics	SATA disk GB <sup>8</sup>	rpm	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win8 preload	Avail date (mm/yy)
59345756	E-300	2GBx1	15.6" HD	720p	Radeon HD 6310	320GB	5400	DVD±RW	11b/g/n <sup>28</sup>	Black	None	None	6-cell	Win8 64	11/12
59345757	E-300	4GBx1	15.6" HD	720p	Radeon HD 6310	320GB	5400	DVD±RW	11b/g/n	Black	None	None	6-cell	Win8 64	11/12
59359143	E1-1500	4GBx1	15.6" HD	720p	Radeon HD 7310	320GB	5400	DVD±RW	11b/g/n	Black	None	None	6-cell	Win8 64	02/13

- 15.6" widescreen, glossy display
- Integrated 0.3 megapixel or 720P HD camera
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

Positioning Processor	<p><i>Widescreen flexibility; two-spindle</i>  <b>AMD Accelerated Processor E-300 (2 cores, 1.30GHz, 1MB L2 cache)</b>, integrated AMD Radeon™ HD 6310 Graphics, integrated DDR3 memory controller (up to 1066MHz)  <b>AMD Accelerated Processor E1-1500 (2 cores, 1.48GHz, 1MB L2 cache)</b>, integrated AMD Radeon HD 7310 Graphics, integrated DDR3 memory controller (up to 1066MHz)</p>										<p><b>Preloaded operating system<sup>20</sup></b>                      - Windows® 8 64-bit</p> <p><b>Preloaded applications<sup>14</sup></b> (only some listed)                      - <b>Traditional Desktop apps</b></p> <ul style="list-style-type: none"> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• PokeTALK</li> <li>• McAfee® Internet Security (30-Day Trial)</li> <li>• Nitro Pro (90-Day Trial)</li> <li>• CyberLink YouCam</li> <li>• Cyberlink PowerDVD (DVD±RW)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Microsoft Office preloaded; purchase product key to activate</li> <li>• Lenovo Energy Management</li> <li>• Intel AppUp®</li> </ul> <p>- <b>Windows Store apps (Metro-style)</b></p> <ul style="list-style-type: none"> <li>• AccuWeather</li> <li>• Evernote</li> <li>• Skype</li> <li>• McAfee</li> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Cyberlink PowerDVD</li> </ul>				
Memory	<p>8GB max<sup>7</sup> / <b>PC3-12800 1600MHz DDR3*</b>, non-parity, single-channel capable, one 204-pin SO-DIMM sockets                      * System automatically clocks down for processors with 1066MHz DDR3 memory controller</p>														
Diskette drive	None														
SATA optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in														
SATA disk	<b>320GB</b> (5400 rpm) / SATA 3.0Gb/s, 7mm or 9.5mm high														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset														
Widescreen display	<b>15.6"</b> (396.2mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio														
Camera	HD720p Camera on top of screen, 1.0-megapixel, fixed focus, LED indicator														
Integrated graphics	<b>AMD Radeon HD 6310 or HD 7310 graphics</b> , integrated in processor; external monitor support via analog VGA DB-15 connector														
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key														
Numeric keypad	Numeric keypad on right of keyboard														
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch														
Dimensions <sup>3</sup>	(WxDxH): 14.80" x 9.65" x 1.35"; 376mm x 245mm x 34.3mm														
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 5.73 lb (2.6kg)														
Case color	<i>Top</i> : Black (matt); <i>bottom</i> : Black														
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic														
Battery - type	Lithium Ion <b>6-cell</b> , 48Wh														
Battery - life <sup>10</sup>	<i>Integrated models</i> : up to 6 hr										<p><i>Integrated models</i>: 40-watt AC adapter                      EPEAT™ Gold rating                      ENERGY STAR® qualified                      RoHS-compliant</p>				
Chipset	<b>AMD A68M FCH</b>														
ExpressCard/34	None														
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)														
Ports	One USB 2.0 and two USB 3.0, external monitor (VGA DB-15), ethernet (RJ-45)														
TV tuner	None														
PCIe Mini Card	One PCI Express Half Mini Card slot														
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Half Mini Card adapter, Broadcom® or Atheros® chip, 1x1														
Bluetooth™	None														
Modem	None														
Ethernet	10/100M ethernet, Realtek RTL8105E														
Audio support	High Definition (HD) Audio, Conexant® CX20671 / stereo speakers (1.5 watt x 2), Dolby® Advanced Audio™ v2 / integrated microphone, headphone / microphone combo jack (3.5 mm)														
Security	Hard disk password, administrator password, security lockhole														
Fingerprint reader	None										<p><b>Limited Warranty<sup>12</sup></b></p> <ul style="list-style-type: none"> <li>↪ <b>1-year warranty*</b>:                      * <b>1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b></li> <li>↪ <b>Mail In repair service</b></li> <li>↪ <b>Service upgrade options<sup>58</sup></b> (in eligible locations):<sup>9</sup> <ul style="list-style-type: none"> <li>• <b>3-year Depot warranty</b> 78Y1538</li> <li>• <b>1-year Mail In with accidental damage protection</b> 55Y2511</li> </ul> </li> <li>↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b></li> </ul>				

See footnotes for important warranty information

Ⓔ US model(s) announced February 21, 2013; previous model(s) on November 28, 2012

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# Lenovo® G585 (Integrated) - Windows 8 (web only models)

Personal Systems Reference (PSREF)

Part number	Processor	Memory	Widescreen display	Camera	Integrated graphics	SATA disk GB <sup>a</sup>	rpm	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win8 preload	Avail date (mm/yy)
2181-9EU	E-300	2GBx1	15.6" HD	720p	Radeon HD 6310	320GB	5400	DVD±RW	11b/g/n <sup>28</sup>	Black	None	None	6-cell	Win8 64	11/12
2181-98U	E-300	4GBx1	15.6" HD	720p	Radeon HD 6310	500GB	5400	DVD±RW	11b/g/n	Black	None	None	6-cell	Win8 64	11/12
2181-9FU	E1-1200	4GBx1	15.6" HD	720p	Radeon HD 7310	500GB	5400	DVD±RW	11b/g/n	Black	None	None	6-cell	Win8 64	11/12
2181-99U	E1-1200	4GBx1	15.6" HD	720p	Radeon HD 7310	1TB	5400	DVD±RW	11b/g/n	Black	None	None	6-cell	Win8 64	11/12

- 15.6" widescreen, glossy display
- Integrated 0.3 megapixel or 720P HD camera
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

Positioning Processor	<p><i>Widescreen flexibility; two-spindle</i>  <b>AMD Accelerated Processor E-300 (2 cores, 1.30GHz, 1MB L2 cache)</b>, integrated AMD Radeon™ HD 6310 Graphics, integrated DDR3 memory controller (up to 1066MHz)  <b>AMD Accelerated Processor E1-1200 (2 cores, 1.40GHz, 1MB L2 cache)</b>, integrated AMD Radeon HD 7310 Graphics, integrated DDR3 memory controller (up to 1066MHz)</p>										<p><b>Preloaded operating system<sup>20</sup></b>                      - Windows® 8 64-bit</p> <p><b>Preloaded applications<sup>14</sup></b> (only some listed)                      - <b>Traditional Desktop apps</b></p> <ul style="list-style-type: none"> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• Lenovo Solution Center</li> <li>• PokeTALK</li> <li>• McAfee® Internet Security (30-Day Trial)</li> <li>• Nitro Pro (90-Day Trial)</li> <li>• CyberLink YouCam</li> <li>• Cyberlink PowerDVD (DVD±RW)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Microsoft Office preloaded; purchase product key to activate</li> <li>• Lenovo Energy Management</li> <li>• Intel AppUp®</li> </ul> <p>- <b>Windows Store apps (Metro-style)</b></p> <ul style="list-style-type: none"> <li>• AccuWeather</li> <li>• Evernote</li> <li>• Skype</li> <li>• McAfee</li> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> <li>• Cyberlink PowerDVD</li> </ul>				
Memory	<p>8GB max<sup>7</sup> / <b>PC3-12800 1600MHz DDR3*</b>, non-parity, single-channel capable, one 204-pin SO-DIMM sockets                      * System automatically clocks down for processors with 1066MHz DDR3 memory controller</p>														
Diskette drive	None														
SATA optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in														
SATA disk	<p><b>320GB</b> (5400 rpm), <b>500GB</b> (5400 rpm), or <b>1TB</b> (5400 rpm) / SATA 3.0Gb/s, 7mm or 9.5mm high</p>														
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset														
Widescreen display	<p><b>15.6"</b> (396.2mm) <b>HD (1366x768) TFT color, VibrantView</b> (glossy), <b>LED backlight</b>, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio</p>														
Camera	HD720p Camera on top of screen, 1.0-megapixel, fixed focus, LED indicator														
Integrated graphics	<p><b>AMD Radeon HD 6310 or HD 7310 graphics</b>, integrated in processor; external monitor support via analog VGA DB-15 connector</p>														
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key														
Numeric keypad	Numeric keypad on right of keyboard														
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch														
Dimensions <sup>3</sup>	(WxDxH): 14.80" x 9.65" x 1.35"; 376mm x 245mm x 34.3mm														
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 5.73 lb (2.6kg)														
Case color	<p><i>Top</i>: Black (matt);  <i>bottom</i>: Black</p>														
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic														
Battery - type	Lithium Ion <b>6-cell</b> , 48Wh														
Battery - life <sup>10</sup>	<i>Integrated models</i> : up to 6 hr										<p><i>Integrated models</i>: 40-watt AC adapter                      EPEAT™ Gold rating                      ENERGY STAR® qualified                      RoHS-compliant</p>				
Chipset	<b>AMD A68M FCH</b>										<p><b>Limited Warranty<sup>12</sup></b></p> <p>↪ <b>1-year warranty*</b>:                      * <b>1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b></p> <p>↪ <b>Mail In repair service</b></p> <p>↪ <b>Service upgrade options<sup>58</sup></b> (in eligible locations):<sup>9</sup></p> <ul style="list-style-type: none"> <li>• <b>3-year Depot warranty</b> 78Y1538</li> <li>• <b>1-year Mail In with accidental damage protection</b> 55Y2511</li> </ul> <p>↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b></p>				
ExpressCard/34	None														
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)														
Ports	One USB 2.0 and two USB 3.0, external monitor (VGA DB-15), ethernet (RJ-45)														
TV tuner	None														
PCIe Mini Card	One PCI Express Half Mini Card slot														
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Half Mini Card adapter, Broadcom® or Atheros® chip, 1x1														
Bluetooth™	None														
Modem	None														
Ethernet	10/100M ethernet, Realtek RTL8105E														
Audio support	High Definition (HD) Audio, Conexant® CX20671 / stereo speakers (1.5 watt x 2), Dolby® Advanced Audio™ v2 / integrated microphone, headphone / microphone combo jack (3.5 mm)														
Security	Hard disk password, administrator password, security lockhole														
Fingerprint reader	None														

See footnotes for important warranty information  
 US model(s) announced November 28, 2012

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 (CHCH2-3) November 2012

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Lenovo G770



Lenovo G770



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Lenovo G770



Lenovo G770



Type-model	Processor	GHz	Max turbo (GHz)	Memory	Widescreen display	Camera	Integrated graphics	SATA disk	Optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload
1037-2MU	i3-2310M	2.10		2GBx2	17.3" HD+	2.0M	Intel HD	750GB <sup>8</sup>	Blu-ray	11b/g/n <sup>28</sup>	Dark brown	HDMI		6-cell	Prem 64
1037-28U	i3-2310M	2.10		2GBx2	17.3" HD+	2.0M	Intel HD	500GB	DVD±RW	11b/g/n	Dark brown	HDMI		6-cell	Prem 64
1037-2LU	i5-2410M	2.30	2.90	2GBx2	17.3" HD+	2.0M	Intel HD	750GB	DVD±RW	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64
1037-2WU	i3-2330M	2.20		4GBx1	17.3" HD+	2.0M	Intel HD	500GB	DVD±RW	11b/g/n	Dark brown	HDMI		6-cell	Prem 64
1037-2UU	i3-2330M	2.20		4GBx1	17.3" HD+	2.0M	Intel HD	750GB	Blu-ray	11b/g/n	Dark brown	HDMI		6-cell	Prem 64
1037-2VU	i5-2430M	2.40	3.00	4+2GB	17.3" HD+	2.0M	Intel HD	750GB	DVD±RW	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64
1037-2XU	i5-2430M	2.40	3.00	4GBx2	17.3" HD+	2.0M	Intel HD	750GB	Blu-ray	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64
1037-5FU	i3-2350M	2.30		4GBx1	17.3" HD+	2.0M	Intel HD	500GB	DVD±RW	11b/g/n	Dark brown	HDMI		6-cell	Prem 64
1037-5WU	i5-2450M	2.50	3.10	4+2GB	17.3" HD+	2.0M	Intel HD	500GB	DVD±RW	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64

- 17.3" widescreen, glossy display
- Integrated 2.0 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	<p><i>Widescreen flexibility: two-spindle</i></p> <p><b>Intel® Core™ i3-2310M processor (dual-core, 2.10GHz, 3MB cache)</b>, DDR3 memory controller (up to 1333MHz)</p> <p><b>Intel Core i3-2330M processor (dual-core, 2.20GHz, 3MB cache)</b>, DDR3 memory controller (up to 1333MHz)</p> <p><b>Intel Core i3-2350M processor (dual-core, 2.30GHz, 3MB cache)</b>, DDR3 memory controller (up to 1333MHz)</p> <p><b>Intel Core i5-2410M processor (dual-core, 2.30GHz, 3MB cache)</b>, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology</p> <p><b>Intel Core i5-2430M processor (dual-core, 2.40GHz, 3MB cache)</b>, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology</p> <p><b>Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB cache)</b>, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology</p>	<p><b>Preloaded operating system<sup>20</sup></b></p> <ul style="list-style-type: none"> <li>- Genuine Windows® 7 Home Premium 64</li> </ul> <p><b>Preloaded applications<sup>14</sup></b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo ReadyComm</li> <li>• ooVoo™</li> <li>• McAfee® VirusScan® Plus (60 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• CyberLink YouCam</li> <li>• Microsoft Office 2010 preloaded; purchase product key to activate</li> <li>• VeriFace™</li> <li>• Lenovo Energy Management Software</li> <li>• Lenovo DirectShare</li> <li>• Cyberlink Power2Go (DVD±RW)</li> </ul>
Memory	8GB max <sup>7</sup> / <b>PC3-10600 1333MHz DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	
Diskette drive	None	
Optical	<p><i>Some:</i> DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in</p> <p><i>Some:</i> Blu-ray™ Disc reader (no Blu-ray burning), DVD recordable, 12.7mm, tray-in</p>	
SATA disk	<b>500GB</b> (5400 rpm) or <b>750GB</b> (5400 rpm) / SATA 3.0Gb/s, 7mm or 9.5mm high	
Widescreen display	<b>17.3"</b> (439.4mm) <b>HD+</b> ( <b>1600x900</b> ) <b>TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus	
Integrated graphics	<b>Intel HD Graphics 3000</b> in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector (HDCP-compliant)	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	65-watt AC adapter Wireless on/off switch EPEAT™ Gold rating ENERGY STAR® qualified RoHS-compliant
Numeric keypad	Numeric keypad on right of keyboard	
Touch pad	Two-button touch pad with scroll feature, multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 16.38" x 10.71" x 1.42" to 1.77"; 416mm x 272mm x 36.1 to 44.9mm	<p><b>Limited Warranty<sup>12</sup></b></p> <p>↪ <b>1-year warranty*:</b></p> <ul style="list-style-type: none"> <li>* 1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</li> </ul> <p>↪ <b>Mail In repair service</b></p> <p>↪ <b>Service upgrade options<sup>58</sup></b> (in eligible locations):<sup>9</sup></p> <ul style="list-style-type: none"> <li>• <b>3-year Depot warranty</b> 78Y1538</li> <li>• <b>1-year Mail In with accidental damage protection</b> 55Y2511</li> <li>• <b>3-year Mail In with accidental damage protection</b> 78Y1539</li> <li>• <b>3-year Onsite warranty</b> 78Y1540</li> <li>• <b>1-year Onsite with accidental damage protection</b> 78Y1533</li> </ul> <p>↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b></p>
Weight <sup>2</sup>	with optical drive and battery: 6-cell: from 6.61 lb (3.0kg)	
Case color	Dark brown top, black bottom	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b>	
Battery - life <sup>10</sup>	<i>Integrated models:</i> up to 5 hr	
Chipset	<b>Mobile Intel HM65 Express Chipset</b>	
ExpressCard/34	None	
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)	
Ports	Four USB 2.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, Broadcom® or Atheros® chip	
Bluetooth™	<i>Some:</i> Bluetooth 2.1 wireless + EDR, USB 2.0 interface	
Modem	None	
Ethernet	10/100 ethernet, Atheros AR8152L	
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (1.5 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	
Security	Hard disk password, user password, administrator password, security lockhole	
Fingerprint reader	None	

See footnotes for important warranty information

US models announced January 18, 2012; previous models on July 6 or October 13, 2011

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# Lenovo® G770 (1037) - Integrated (Windows 7) - web only models

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Max turbo (GHz)	Memory	Widescreen display	Camera	Integrated graphics	SATA disk GB <sup>8</sup> rpm	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload
1037-2GU	i5-2410M	2.30	2.90	4GBx2	17.3" HD+	2.0M	Intel HD	750G 5400	DVD±RW	11b/g/n <sup>28</sup>	Dark brown	HDMI	BT2.1	6-cell	Prem 64
1037-2HU	i5-2410M	2.30	2.90	2GBx2	17.3" HD+	2.0M	Intel HD	500G 5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64
1037-52U	i5-2410M	2.30	2.90	4+2GB	17.3" HD+	2.0M	Intel HD	750G 5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64
1037-53U	i5-2410M	2.30	2.90	4+2GB	17.3" HD+	2.0M	Intel HD	750G 5400	Blu-ray	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64
1037-2YU	i3-2330M	2.20	2.90	4GBx1	17.3" HD+	2.0M	Intel HD	500G 5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64
1037-5NU	i5-2430M	2.40	3.00	4GBx1	17.3" HD+	2.0M	Intel HD	500G 5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64
1037-5MU	i5-2430M	2.40	3.00	4+2GB	17.3" HD+	2.0M	Intel HD	750G 5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64
1037-5KU	i5-2430M	2.40	3.00	4GBx2	17.3" HD+	2.0M	Intel HD	750G 5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64
1037-56U	B800	1.50		4GBx1	17.3" HD+	2.0M	Intel HD	500G 5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64
1037-5SU	i5-2450M	2.50	3.10	4GBx1	17.3" HD+	2.0M	Intel HD	500G 5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64
1037-5RU	i5-2450M	2.50	3.10	4+2GB	17.3" HD+	2.0M	Intel HD	750G 5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64
1037-5PU	i5-2450M	2.50	3.10	4GBx2	17.3" HD+	2.0M	Intel HD	750G 5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64
1037-5TU	i5-2430M	2.40	3.00	4GBx2	17.3" HD+	2.0M	Intel HD	500G 7200	DVD±RW	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64

- **17.3" widescreen, glossy display**
- **Integrated 2.0 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning Processor	<p><i>Widescreen flexibility; two-spindle</i></p> <p><b>Intel® Celeron® B800 processor (2 cores / 2 threads, 1.50GHz, 2MB cache),</b> DDR3 memory controller (up to 1333MHz)</p> <p><b>Intel Core™ i3-2330M processor (dual-core, 2.20GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz), HT technology</p> <p><b>Intel Core i5-2410M processor (dual-core, 2.30GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology</p> <p><b>Intel Core i5-2430M processor (dual-core, 2.40GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology</p> <p><b>Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology</p>	<p><b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Home Premium 64</p> <p><b>Preloaded applications<sup>14</sup></b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo ReadyComm</li> <li>• ooVoo™</li> <li>• McAfee® VirusScan® Plus (60 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• CyberLink YouCam</li> <li>• Microsoft Office 2010 preloaded; purchase product key to activate VeriFace™</li> <li>• Lenovo Energy Management Software</li> <li>• Lenovo DirectShare</li> <li>• Cyberlink Power2Go (DVD±RW)</li> </ul>
Memory	8GB max <sup>7</sup> / <b>PC3-10600 1333MHz DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets;	
Diskette drive	None	
Optical	<p><i>Some:</i> DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in</p> <p><i>Some:</i> Blu-ray™ Disc reader (no Blu-ray burning), DVD recordable, 12.7mm, tray-in</p>	
SATA disk	<b>500GB</b> (5400 rpm) or <b>750GB</b> (5400 rpm) / SATA 3.0Gb/s, 7mm or 9.5mm high	
Widescreen display	<b>17.3"</b> (439.4mm) <b>HD+</b> ( <b>1600x900</b> ) <b>TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus	
Integrated graphics	<b>Intel HD Graphics in processor</b> , external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector (HDCP-compliant)	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	Numeric keypad on right of keyboard	
Touch pad	Two-button touch pad with scroll feature, multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 16.38" x 10.71" x 1.42" to 1.77"; 416mm x 272mm x 36.1 to 44.9mm	
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 6.61 lb (3.0kg)	
Case color	Dark brown top, black bottom	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b>	
Battery - life <sup>10</sup>	<i>Integrated models</i> : up to 5 hr	
Chipset	<b>Mobile Intel HM65 Express Chipset</b>	
ExpressCard/34	None	
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)	
Ports	Four USB 2.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, Broadcom® or Atheros® chip	
Bluetooth™	Bluetooth 2.1 wireless + EDR, USB 2.0 interface	
Modem	None	
Ethernet	10/100 ethernet, Atheros AR8152L	
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (1.5 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	
Security	Hard disk password, user password, administrator password, security lockhole	
Fingerprint reader	None	
		<p>65-watt AC adapter</p> <p>Wireless on/off switch</p> <p>EPEAT™ Gold rating</p> <p>ENERGY STAR® qualified</p> <p>RoHS-compliant</p> <p><b>Limited Warranty<sup>12</sup></b></p> <p>↪ <b>1-year warranty*:</b></p> <p><b>* 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b></p> <p>↪ <b>Mail In repair service</b></p> <p>↪ <b>Service upgrade options<sup>58</sup></b> (in eligible locations):<sup>9</sup></p> <ul style="list-style-type: none"> <li>• <b>3-year Depot warranty</b> 78Y1538</li> <li>• <b>1-year Mail In with accidental damage protection</b> 55Y2511</li> <li>• <b>3-year Mail In with accidental damage protection</b> 78Y1539</li> <li>• <b>3-year Onsite warranty</b> 78Y1540</li> <li>• <b>1-year Onsite with accidental damage protection</b> 78Y1533</li> </ul> <p>↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b></p>

See footnotes for important warranty information

US model(s) announced June 6, 2012; previous models on June 08, October 13, or December 21, 2011 or January 18, 2012

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# Lenovo® G770 (1037) - Discrete (Windows 7)

Personal Systems Reference (PSREF)

Type-model	Pro-cessor	GHz	Max turbo (GHz)	Memory	Widescreen display	Cam-era	Graphics	SATA disk	Optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload
1037-2KU	i5-2410M	2.30	2.90	4+2GB	17.3" HD+	2.0M HD	6650M	750GB <sup>8</sup>	Blu-ray	11b/g/n <sup>28</sup>	Dark brown	HDMI	BT2.1	6-cell	Prem 64

- **17.3" widescreen, glossy display**
- **Integrated 2.0 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**
- **This system is Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning Processor	<i>Widescreen flexibility; two-spindle</i> <b>Intel® Core™ i5-2410M processor (dual-core, 2.30GHz, 3MB cache)</b> , integrated Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology	<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Home Premium 64
Memory	8GB max <sup>7</sup> / <b>PC3-10600 1333MHz DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	<b>Preloaded applications<sup>14</sup></b> (only some listed) • Lenovo OneKey Recovery • Lenovo ReadyComm • ooVoo™ • McAfee® VirusScan® Plus (60 days of virus definitions) • Adobe® Reader® • Windows Live™ Essentials • CyberLink YouCam • Microsoft Office 2010 preloaded; purchase product key to activate • VeriFace™ • Lenovo Energy Management Software • Lenovo DirectShare • Cyberlink Power2Go (Blu-ray)
Diskette drive	None	90-watt AC adapter Wireless on/off switch EPEAT™ Gold rating ENERGY STAR® qualified RoHS-compliant
Optical	Blu-ray™ Disc reader (no Blu-ray burning), DVD recordable, 12.7mm, tray-in	
SATA disk	<b>750GB</b> (5400 rpm) / SATA 3.0Gb/s, 7mm or 9.5mm high	
Widescreen display	<b>17.3"</b> (439.4mm) <b>HD+ (1600x900) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 2.0-megapixel, fixed focus	
Graphics	<b>AMD Radeon™ HD 6650M</b> , PCI Express® x16, <b>1GB</b> DDR3 memory, DirectX® 11, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector (HDCP-compliant)	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	Numeric keypad on right of keyboard	<b>Limited Warranty<sup>12</sup></b> ↪ <b>1-year warranty*:</b> * <b>1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b> ↪ <b>Mail In repair service</b> ↪ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> • <b>3-year Depot warranty</b> 78Y1538 • <b>1-year Mail In with accidental damage protection</b> 55Y2511 • <b>3-year Mail In with accidental damage protection</b> 78Y1539 • <b>3-year Onsite warranty</b> 78Y1540 • <b>1-year Onsite with accidental damage protection</b> 78Y1533 ↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>
Touch pad	Two-button touch pad with scroll feature, multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 16.38" x 10.71" x 1.42" to 1.77"; 416mm x 272mm x 36.1 to 44.9mm	
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 6.61 lb (3.0kg)	
Case color	Dark brown top, black bottom	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b>	
Battery - life <sup>10</sup>	<i>Discrete models</i> : up to 4.5 hr	
Chipset	<b>Mobile Intel HM65 Express Chipset</b>	
ExpressCard/34	None	
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)	
Ports	Four USB 2.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, Broadcom® or Atheros® chip	
Bluetooth™	Bluetooth 2.1 wireless + EDR, USB 2.0 interface	
Modem	None	
Ethernet	10/100 ethernet, Atheros AR8152L	
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (1.5 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)	
Security	Hard disk password, user password, administrator password, security lockhole	
Fingerprint reader	None	

See footnotes for important warranty information  
US model announced July 6, 2011

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(BUD1-4) July 2011

# Lenovo® G770 (1037) - Discrete (Windows 7) - web only models

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Max turbo (GHz)	Memory	Widescreen display	Camera	Graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload
1037-2JU	i5-2410M	2.30	2.90	4GBx2	17.3" HD+	2.0M	HD 6650M	750GB <sup>8</sup>	DVD±RW	11b/g/n <sup>28</sup>	Dark brown	HDMI	BT2.1	6-cell	Prem 64
1037-5LU	i5-2430M	2.40	3.00	4GBx2	17.3" HD+	2.0M	HD 6650M	750GB	Blu-ray	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64
1037-5QU	i5-2450M	2.50	3.10	4GBx2	17.3" HD+	2.0M	HD 6650M	750GB	Blu-ray	11b/g/n	Dark brown	HDMI	BT2.1	6-cell	Prem 64

- **17.3" widescreen, glossy display**
- **Integrated 2.0 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning Processor	<p><i>Widescreen flexibility; two-spindle</i>  <b>Intel® Core™ i5-2410M processor (dual-core, 2.30GHz, 3MB cache)</b>, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology  <b>Intel Core i5-2430M processor (dual-core, 2.40GHz, 3MB cache)</b>, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology  <b>Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB cache)</b>, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology</p>										<p><b>Preloaded operating system<sup>20</sup></b>                      - Genuine Windows® 7 Home Premium 64</p> <p><b>Preloaded applications<sup>14</sup></b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo ReadyComm</li> <li>• ooVoo™</li> <li>• McAfee® VirusScan® Plus (60 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Essentials</li> <li>• CyberLink YouCam</li> <li>• Microsoft Office 2010 preloaded; purchase product key to activate</li> <li>• VeriFace™</li> <li>• Lenovo Energy Management Software</li> <li>• Lenovo DirectShare</li> <li>• Cyberlink Power2Go (DVD±RW)</li> </ul>				
Memory	8GB max <sup>7</sup> / <b>PC3-10600 1333MHz DDR3</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets;										<p>90-watt AC adapter                      Wireless on/off switch                      EPEAT™ Gold rating                      ENERGY STAR® qualified                      RoHS-compliant</p> <p><b>Limited Warranty<sup>12</sup></b></p> <p>↪ <b>1-year warranty*:</b>                      * <b>1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b></p> <p>↪ <b>Mail In repair service</b></p> <p>↪ <b>Service upgrade options<sup>58</sup></b> (in eligible locations):<sup>9</sup></p> <ul style="list-style-type: none"> <li>• <b>3-year Depot warranty</b> 78Y1538</li> <li>• <b>1-year Mail In with accidental damage protection</b> 55Y2511</li> <li>• <b>3-year Mail In with accidental damage protection</b> 78Y1539</li> <li>• <b>3-year Onsite warranty</b> 78Y1540</li> <li>• <b>1-year Onsite with accidental damage protection</b> 78Y1533</li> </ul> <p>↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b></p>				
Diskette drive	None														
Optical	<p><i>Some:</i> DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in</p> <p><i>Some:</i> Blu-ray™ Disc reader (no Blu-ray burning), DVD recordable, 12.7mm, tray-in</p>										<p><b>750GB</b> (5400 rpm) / SATA 3.0Gb/s, 7mm or 9.5mm high</p>				
SATA disk															
Widescreen display	<b>17.3"</b> (439.4mm) <b>HD+ (1600x900) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio										<p>Camera on top of screen, 2.0-megapixel, fixed focus</p>				
Camera															
Graphics	<b>AMD Radeon™ HD 6650M</b> , PCI Express® x16, <b>1GB</b> DDR3 memory, DirectX® 11, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector (HDCP-compliant)										<p>Full-size keyboard, multimedia Fn keys, recovery key                      Numeric keypad on right of keyboard                      Two-button touch pad with scroll feature, multi-touch</p>				
Keyboard															
Numeric keypad											<p>Dimensions<sup>3</sup> (WxDxH): 16.38" x 10.71" x 1.42" to 1.77"; 416mm x 272mm x 36.1 to 44.9mm</p> <p>Weight<sup>2</sup> with optical drive and battery: <b>6-cell</b>: from 6.61 lb (3.0kg)</p> <p>Case color Dark brown top, black bottom</p> <p>Case material Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic</p> <p>Battery - type Lithium Ion <b>6-cell</b></p> <p>Battery - life<sup>10</sup> <i>Discrete models:</i> up to 4.5 hr</p>				
Touch pad															
Chipset	<b>Mobile Intel HM65 Express Chipset</b>										<p>ExpressCard/34 None</p> <p>Multicard reader 5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)</p> <p>Ports Four USB 2.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)</p>				
ExpressCard/34															
Multicard reader											<p>TV tuner None</p> <p>PCIe Mini Card One PCI Express Mini Card slot</p> <p>11b/g/n<sup>28</sup> 11b/g/n wireless<sup>4</sup>, PCIe Mini Card adapter, Broadcom® or Atheros® chip</p> <p>Bluetooth™ Bluetooth 2.1 wireless + EDR, USB 2.0 interface</p> <p>Modem None</p> <p>Ethernet 10/100 ethernet, Atheros AR8152L</p> <p>Audio support High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (1.5 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)</p>				
Ports															
TV tuner											<p>Security Hard disk password, user password, administrator password, security lockhole</p> <p>Fingerprint reader None</p>				
PCIe Mini Card															
11b/g/n <sup>28</sup>															
Bluetooth™															
Modem															
Ethernet															
Audio support															
Security															
Fingerprint reader															

See footnotes for important warranty information

US model(s) announced January 18, 2012; previous models on June 8 or December 21, 2011

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Lenovo G780



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Lenovo G780



Lenovo G780

# Lenovo® G780 (2182) - Integrated

Personal Systems Reference (PSREF)

Type-model	Pro-cessor	Memory	Widescreen display	Cam-era	Graphics	SATA disk GB <sup>8</sup> rpm	Optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload	Avail date (mm/yy)
2182-3FU	i3-2370M	4GBx1	17.3" HD+	720p	Intel HD 3000	500G 5400	DVD±RW	11b/g/n <sup>28</sup>	Dark brown	HDMI		6-cell	Prem 64	08/12
2182-3DU	i5-3210M	4+2GB	17.3" HD+	720p	Intel HD 4000	750G 5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT	6-cell	Prem 64	08/12

- **17.3" widescreen, glossy display**
- **Integrated 0.3 megapixel or 720P HD camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**
- **These system are Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning Processor	<p><i>Widescreen flexibility: two-spindle</i></p> <p><b>Intel® Core™ i3-2370M processor (2 cores / 4 threads, 2.40 GHz, 3MB cache)</b>, DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics 3000</p> <p><b>Intel Core i5-3210M processor (2 cores / 4 threads, 2.50 GHz, 3MB cache)</b>, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.10GHz), integrated Intel HD Graphics 4000</p>	<p><b>Preloaded operating system<sup>20</sup></b></p> <ul style="list-style-type: none"> <li>- Genuine Windows® 7</li> <li>Home Premium 64</li> </ul> <p><b>Preloaded applications<sup>14</sup></b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo Solution Center</li> <li>• ooVoo™</li> <li>• PokeTALK</li> <li>• McAfee® Internet Security (30-Day Trial)</li> <li>• Adobe® Reader®</li> <li>• CyberLink YouCam</li> <li>• Microsoft Office 2010 preloaded; purchase product key to activate</li> <li>• VeriFace™</li> <li>• Lenovo Energy Management Software</li> <li>• Cyberlink Power2Go (DVD±RW)</li> </ul>
Memory	<p>8GB max<sup>7</sup> / <b>PC3-12800 1600MHz DDR3*</b>, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets</p> <p>* System automatically clocks down for processors with 1333MHz DDR3 memory controller</p>	
Diskette drive	None	
Optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in	
SATA disk	<b>500GB</b> (5400 rpm) or <b>750GB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset	
Widescreen display	<b>17.3"</b> (439.4mm) <b>HD+ (1600x900) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel or 720p HD, fixed focus	
Graphics	<b>Intel HD Graphics 3000</b> or <b>Intel HD Graphics 4000</b> , integrated in processor; external monitor support via analog VGA DB-15 connector / digital HDMI connector	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	Numeric keypad on right of keyboard	
Touch pad	Two-button touch pad with scroll feature, multi-touch	<p><i>Integrated models:</i> 65-watt AC adapter</p> <p><i>Optimus models:</i> 90-watt AC adapter</p> <p>EPEAT™ Gold rating</p> <p>ENERGY STAR® qualified</p> <p>RoHS-compliant</p>
Dimensions <sup>3</sup>	(WxDxH): 16.38" x 10.75" x 1.42" to 1.77"; 416mm x 273mm x 36.1 to 44.9mm	
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 6.6 lb (3.0kg)	
Case color	<i>Top:</i> Dark Brown (metal-like, hairline cover finishing); <i>bottom:</i> Black	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b> , 48Wh	
Battery - life <sup>10</sup>	<i>Optimus models:</i> up to 4.5 hr; <i>Integrated models:</i> up to 5 hr	<p><b>Limited Warranty<sup>12</sup></b></p> <ul style="list-style-type: none"> <li>↪ <b>1-year warranty*</b>:</li> <li>* <b>1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b></li> <li>↪ <b>Mail In repair service</b></li> <li>↪ <b>Service upgrade options<sup>58</sup></b> (in eligible locations):<sup>9</sup> <ul style="list-style-type: none"> <li>• <b>3-year Depot warranty</b> 78Y1538</li> <li>• <b>1-year Mail In with accidental damage protection</b> 55Y2511</li> <li>• <b>3-year Mail In with accidental damage protection</b> 78Y1539</li> <li>• <b>3-year Onsite warranty</b> 78Y1540</li> <li>• <b>1-year Onsite with accidental damage protection</b> 78Y1533</li> </ul> </li> <li>↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b></li> </ul>
Chipset	<b>Mobile Intel HM76 Express Chipset</b>	
ExpressCard/34	None	
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)	
Ports	Two USB 2.0, two USB 3.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, Broadcom® or Atheros® chip	
Bluetooth™	<i>Some:</i> Bluetooth wireless	
Modem	None	
Ethernet	10/100M ethernet, Atheros AR8162	
Audio support	High Definition (HD) Audio, Conexant® CX20671 / stereo speakers (1.5 watt x 2), Dolby® Advanced Audio™ v2 / integrated microphone, headphone jack (3.5 mm), microphone jack (3.5 mm)	
Security	Hard disk password, administrator password, security lockhole	
Fingerprint reader	None	

See footnotes for important warranty information  
US model(s) announced August 17, 2012

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(BUD2-2) August 2012

# Lenovo® G780 (Integrated) - Windows 8

Personal Systems Reference (PSREF)

Part number	Pro-cessor	Memory	Widescreen display	Cam-era	Graphics	SATA disk GB <sup>8</sup> rpm	Optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win8 preload	Avail date (mm/yy)
59344005	i5-3210M	4+2GB	17.3" HD+	720p	Intel HD 4000	750G 5400	DVD±RW	11b/g/n <sup>28</sup>	Dark brown	HDMI	BT.4.0	6-cell	Win8 64	11/12
59344004	i3-3110M	4GBx1	17.3" HD+	720p	Intel HD 4000	500G 5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT.4.0	6-cell	Win8 64	11/12
59359249	i5-3230M	4+2GB	17.3" HD+	720p	Intel HD 4000	1TB 5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT.4.0	6-cell	Win8 64	03/13

- 17.3" widescreen, glossy display
- Integrated 0.3 megapixel or 720P HD camera
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

Positioning Processor	<p><i>Widescreen flexibility; two-spindle</i></p> <p><b>Intel® Core™ i3-3110M processor (2 cores / 4 threads, 2.40 GHz, 3MB cache)</b>, DDR3 memory controller (up to 1600MHz), integrated Intel HD Graphics 4000</p> <p><b>Intel Core i5-3210M processor (2 cores / 4 threads, 2.50 GHz, 3MB cache)</b>, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.10GHz), integrated Intel HD Graphics 4000</p> <p><b>Intel Core i5-3230M processor (2 cores / 4 threads, 2.60 GHz, 3MB cache)</b>, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.20GHz), integrated Intel HD Graphics 4000</p>	<p><b>Preloaded operating system<sup>20</sup></b> - Windows® 8 64-bit</p> <p><b>Preloaded applications<sup>14</sup></b> (only some listed)</p> <p><b>- Traditional Desktop apps</b></p> <ul style="list-style-type: none"> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• PokeTALK</li> <li>• McAfee® Internet Security (30-Day Trial)</li> <li>• CyberLink YouCam</li> <li>• Cyberlink PowerDVD (DVD±RW)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Microsoft Office preloaded; purchase product key to activate</li> <li>• Lenovo Energy Management</li> </ul> <p><b>- Windows Store apps (Metro-style)</b></p> <ul style="list-style-type: none"> <li>• AccuWeather</li> <li>• Evernote</li> <li>• Skype</li> <li>• McAfee</li> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> </ul>
Memory	<p>8GB max<sup>7</sup> / <b>PC3-12800 1600MHz DDR3*</b>, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets</p> <p>* System automatically clocks down for processors with 1333MHz DDR3 memory controller</p>	
Diskette drive	None	
Optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in	
SATA disk	<b>500GB</b> (5400 rpm), <b>750GB</b> (5400 rpm), or <b>1TB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset	
Widescreen display	<b>17.3"</b> (439.4mm) <b>HD+ (1600x900) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel or 720p HD, fixed focus	
Graphics	<b>Intel HD Graphics 3000</b> or <b>Intel HD Graphics 4000</b> , integrated in processor; external monitor support via analog VGA DB-15 connector / digital HDMI connector	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	Numeric keypad on right of keyboard	
Touch pad	Two-button touch pad with scroll feature, multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 16.38" x 10.75" x 1.42" to 1.77"; 416mm x 273mm x 36.1 to 44.9mm	
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 6.6 lb (3.0kg)	
Case color	<i>Top</i> : Dark Brown; <i>bottom</i> : Black	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b> , 48Wh	
Battery - life <sup>10</sup>	<i>Optimus models</i> : up to 4.5 hr; <i>Integrated models</i> : up to 5 hr	
Chipset	<b>Mobile Intel HM76 Express Chipset</b>	
ExpressCard/34	None	
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)	
Ports	Two USB 2.0, two USB 3.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, Broadcom® or Atheros® chip	
Bluetooth™	<i>Some</i> : Bluetooth 4.0 wireless	
Modem	None	
Ethernet	10/100M ethernet, Atheros AR8162	
Audio support	High Definition (HD) Audio, Conexant® CX20671 / stereo speakers (1.5 watt x 2), Dolby® Advanced Audio™ v2 / integrated microphone, headphone jack (3.5 mm), microphone jack (3.5 mm)	
Security	Hard disk password, administrator password, security lockhole	
Fingerprint reader	None	
		<p><b>Limited Warranty<sup>12</sup></b></p> <p>⇒ <b>1-year warranty*</b>: * <b>1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b></p> <p>⇒ <b>Mail In repair service</b></p> <p>⇒ <b>Service upgrade options<sup>58</sup></b> (in eligible locations):<sup>9</sup></p> <ul style="list-style-type: none"> <li>• <b>3-year Depot warranty</b> 78Y1538</li> <li>• <b>1-year Mail In with accidental damage protection</b> 55Y2511</li> <li>• <b>3-year Mail In with accidental damage protection</b> 78Y1539</li> <li>• <b>3-year Onsite warranty</b> 78Y1540</li> <li>• <b>1-year Onsite with accidental damage protection</b> 78Y1533</li> </ul> <p>⇒ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup></b> via 877-453-6686</p>

See footnotes for important warranty information

☞ US model(s) announced March 6, 2013; previous model(s) on November 8, 2012

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(BUD2-3) March 2013

# Lenovo® G780 (Discrete) - Windows 8

Personal Systems Reference (PSREF)

Part number	Processor	Memory	Widescreen display	Camera	Graphics	SATA disk GB <sup>8</sup>	rpm	Optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win8 preload	Avail date (mm/yy)
59347664	i5-3210M	4GBx1	17.3" HD+	720p	GT 635M 2G	500G	5400	DVD±RW	11b/g/n <sup>28</sup>	Dark brown	HDMI	BT4.0	6-cell	Win8 64	11/12
59347663	i7-3520M	4+2GB	17.3" HD+	720p	GT 635M 2G	750G	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT4.0	6-cell	Win8 64	11/12
59347662	i7-3520M	4GBx2	17.3" HD+	720p	GT 635M 2G	1TB	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT4.0	6-cell	Win8 64	11/12
59352497	i7-3632QM	4+2GB	17.3" HD+	720p	GT 635M 2G	750G	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT4.0	6-cell	Win8 64	11/12
59352498	i7-3632QM	4GBx2	17.3" HD+	720p	GT 635M 2G	1TB	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT4.0	6-cell	Win8 64	11/12

- **17.3" widescreen, glossy display**
- **Integrated 0.3 megapixel or 720P HD camera**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**

Positioning Processor	<p><i>Widescreen flexibility: two-spindle</i></p> <p><b>Intel® Core™ i5-3210M processor (2 cores / 4 threads, 2.50GHz, 3MB cache)</b>, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.10GHz), integrated Intel HD Graphics 4000</p> <p><b>Intel Core i7-3520M processor (2 cores / 4 threads, 2.90GHz, 4MB cache)</b>, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.60GHz), integrated Intel HD Graphics 4000</p> <p><b>Intel Core i7-3632QM processor (4 cores / 8 threads, 2.20GHz, 6MB cache)</b>, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.20GHz), integrated Intel HD Graphics 4000</p>	<p><b>Preloaded operating system<sup>20</sup></b></p> <ul style="list-style-type: none"> <li>- Windows® 8 64-bit</li> </ul> <p><b>Preloaded applications<sup>14</sup></b> (only some listed)</p> <ul style="list-style-type: none"> <li>- <b>Traditional Desktop apps</b></li> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• PokeTALK</li> <li>• McAfee® Internet Security (30-Day Trial)</li> <li>• CyberLink YouCam</li> <li>• Cyberlink PowerDVD (BD burner)</li> <li>• Cyberlink Power2Go (BD burner)</li> <li>• Microsoft Office preloaded; purchase product key to activate</li> <li>• Lenovo Energy Management</li> <li>- <b>Windows Store apps (Metro-style)</b></li> <li>• AccuWeather</li> <li>• Evernote</li> <li>• Skype</li> <li>• McAfee</li> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> </ul>
Memory	8GB max <sup>7</sup> / <b>PC3-12800 1600MHz DDR3*</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	
Diskette drive	None	
Optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in	
SATA disk	<b>500GB</b> (5400 rpm), <b>750GB</b> (5400 rpm), or <b>1TB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset	
Widescreen display	<b>17.3"</b> (439.4mm) <b>HD+</b> ( <b>1600x900</b> ) <b>TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel or 720p HD, fixed focus	
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, <b>Intel HD Graphics 4000</b> in processor, and <b>NVIDIA GeForce® GT 635M Graphics</b> , PCI Express® x16, <b>2GB</b> DDR3, DirectX® 11, external monitor support via analog VGA DB-15 connector / digital HDMI connector	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	Numeric keypad on right of keyboard	
Touch pad	Two-button touch pad with scroll feature, multi-touch	<p><i>Integrated models:</i> 65-watt AC adapter</p> <p><i>Optimus models:</i> 90-watt AC adapter</p> <p>EPEAT™ Gold rating</p> <p>ENERGY STAR® qualified</p> <p>RoHS-compliant</p>
Dimensions <sup>3</sup>	(WxDxH): 16.38" x 10.75" x 1.42" to 1.77"; 416mm x 273mm x 36.1 to 44.9mm	
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 6.6 lb (3.0kg)	
Case color	<i>Top:</i> Dark Brown (metal-like, hairline cover finishing); <i>bottom:</i> Black	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b> , 48Wh	
Battery - life <sup>10</sup>	<i>Optimus models:</i> up to 4.5 hr; <i>Integrated models:</i> up to 5 hr	<p><b>Limited Warranty<sup>12</sup></b></p> <ul style="list-style-type: none"> <li>↪ <b>1-year warranty*:</b></li> <li><b>* 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b></li> <li>↪ <b>Mail In repair service</b></li> <li>↪ <b>Service upgrade options<sup>58</sup></b></li> <li>(in eligible locations):<sup>9</sup></li> <li>• <b>3-year Depot warranty</b> 78Y1538</li> <li>• <b>1-year Mail In with accidental damage protection</b> 55Y2511</li> <li>• <b>3-year Mail In with accidental damage protection</b> 78Y1539</li> <li>• <b>3-year Onsite warranty</b> 78Y1540</li> <li>• <b>1-year Onsite with accidental damage protection</b> 78Y1533</li> <li>↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b></li> </ul>
Chipset	<b>Mobile Intel HM76 Express Chipset</b>	
ExpressCard/34	None	
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)	
Ports	Two USB 2.0, two USB 3.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, Broadcom® or Atheros® chip, Wi-Fi + Bluetooth combo adapter	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Modem	None	
Ethernet	10/100M ethernet, Atheros AR8162	
Audio support	High Definition (HD) Audio, Conexant® CX20671 / stereo speakers (1.5 watt x 2), Dolby® Advanced Audio™ v2 / integrated microphone, headphone jack (3.5 mm), microphone jack (3.5 mm)	
Security	Hard disk password, administrator password, security lockhole	
Fingerprint reader	None	

See footnotes for important warranty information  
US model(s) announced November 28, 2012

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(BUD2-6) November 2012



# Lenovo® G780 (2182) - Integrated (web only models)

Personal Systems Reference (PSREF)

Type-model	Pro-cessor	Memory	Widescreen display	Cam-era	Graphics	SATA disk GB <sup>a</sup>	rpm	Optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload	Avail date (mm/yy)
2182-4MU	i5-3210M	4+2GB	17.3" HD+	720p	Intel HD 4000	500G	7200	DVD±RW	11b/g/n <sup>28</sup>	Dark brown	HDMI	BT	6-cell	Prem 64	08/12
2182-4GU	i5-3210M	4GBx2	17.3" HD+	720p	Intel HD 4000	1TB	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT	6-cell	Prem 64	08/12
2182-4JU	i7-3612QM	4GBx2	17.3" HD+	720p	Intel HD 4000	1TB	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT	6-cell	Prem 64	08/12

- **17.3" widescreen, glossy display**
- **Integrated 0.3 megapixel or 720P HD camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**
- **These system are Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning Processor	<p><i>Widescreen flexibility; two-spindle</i></p> <p><b>Intel® Core™ i5-3210M processor (2 cores / 4 threads, 2.50 GHz, 3MB cache)</b>, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.10GHz), integrated Intel HD Graphics 4000</p> <p><b>Intel Core i7-3612QM processor (4 cores / 8 threads, 2.10 GHz, 6MB cache)</b>, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.10GHz), integrated Intel HD Graphics 4000</p>	<p><b>Preloaded operating system<sup>20</sup></b></p> <ul style="list-style-type: none"> <li>- Genuine Windows® 7 Home Premium 64</li> </ul> <p><b>Preloaded applications<sup>14</sup></b> (only some listed)</p> <ul style="list-style-type: none"> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo Solution Center</li> <li>• ooVoo™</li> <li>• PokeTALK</li> <li>• McAfee® Internet Security (30-Day Trial)</li> <li>• Adobe® Reader®</li> <li>• CyberLink YouCam</li> <li>• Microsoft Office 2010 preloaded; purchase product key to activate</li> <li>• VeriFace™</li> <li>• Lenovo Energy Management Software</li> <li>• Cyberlink Power2Go (DVD±RW)</li> </ul>
Memory	<p>8GB max<sup>7</sup> / <b>PC3-12800 1600MHz DDR3*</b>, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets</p> <p>* System automatically clocks down for processors with 1333MHz DDR3 memory controller</p>	
Diskette drive	None	
Optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in	
SATA disk	<b>500GB</b> (7200 rpm) or <b>1TB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset	
Widescreen display	<b>17.3"</b> (439.4mm) <b>HD+ (1600x900) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel or 720p HD, fixed focus	
Graphics	<b>Intel HD Graphics 4000</b> , integrated in processor; external monitor support via analog VGA DB-15 connector / digital HDMI connector	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	<p><i>Integrated models:</i> 65-watt AC adapter</p> <p><i>Optimus models:</i> 90-watt AC adapter</p> <p>EPEAT™ Gold rating</p> <p>ENERGY STAR® qualified</p> <p>RoHS-compliant</p>
Numeric keypad	Numeric keypad on right of keyboard	
Touch pad	Two-button touch pad with scroll feature, multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 16.38" x 10.75" x 1.42" to 1.77"; 416mm x 273mm x 36.1 to 44.9mm	
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 6.6 lb (3.0kg)	
Case color	<i>Top:</i> Dark Brown (metal-like, hairline cover finishing); <i>bottom:</i> Black	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	<p><b>Limited Warranty<sup>12</sup></b></p> <p>↪ <b>1-year warranty*</b>:</p> <p>* <b>1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b></p> <p>↪ <b>Mail In repair service</b></p> <p>↪ <b>Service upgrade options<sup>58</sup></b> (in eligible locations):<sup>9</sup></p> <ul style="list-style-type: none"> <li>• <b>3-year Depot warranty</b> 78Y1538</li> <li>• <b>1-year Mail In with accidental damage protection</b> 55Y2511</li> <li>• <b>3-year Mail In with accidental damage protection</b> 78Y1539</li> <li>• <b>3-year Onsite warranty</b> 78Y1540</li> <li>• <b>1-year Onsite with accidental damage protection</b> 78Y1533</li> </ul> <p>↪ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b></p>
Battery - type	Lithium Ion <b>6-cell</b> , 48Wh	
Battery - life <sup>10</sup>	<i>Optimus models:</i> up to 4.5 hr; <i>Integrated models:</i> up to 5 hr	
Chipset	<b>Mobile Intel HM76 Express Chipset</b>	
ExpressCard/34	None	
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)	
Ports	Two USB 2.0, two USB 3.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, Broadcom® or Atheros® chip	
Bluetooth™	Bluetooth wireless	
Modem	None	
Ethernet	10/100M ethernet, Atheros AR8162	
Audio support	High Definition (HD) Audio, Conexant® CX20671 / stereo speakers (1.5 watt x 2), Dolby® Advanced Audio™ v2 / integrated microphone, headphone jack (3.5 mm), microphone jack (3.5 mm)	
Security	Hard disk password, administrator password, security lockhole	
Fingerprint reader	None	

See footnotes for important warranty information  
US model(s) announced August 17, 2012

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(BUD2-1) August 2012

# Lenovo® G780 (Integrated) - Windows 8 (web only models)

Personal Systems Reference (PSREF)

Type-model / Pro-part number	Processor	Memory	Widescreen display	Camera	Graphics	SATA disk GB <sup>8</sup>	rpm	Optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win8 preload	Avail date (mm/yy)
2182-9SU	i5-3210M	4GBx2	17.3" HD+	720p	Intel HD 4000	750G	5400	DVD±RW	11b/g/n <sup>28</sup>	Dark brown	HDMI	BT4.0	6-cell	Win8 64	11/12
2182-9UU	i5-3210M	4GBx2	17.3" HD+	720p	Intel HD 4000	1TB	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT4.0	6-cell	Win8 64	11/12
2182-9RU	i7-3520M	4GBx2	17.3" HD+	720p	Intel HD 4000	1TB	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT4.0	6-cell	Win8 64	11/12
59371424	i5-3230M	4+2GB	17.3" HD+	720p	Intel HD 4000	500G	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT4.0	6-cell	Win8 64	03/13
59371425	i5-3230M	4GBx2	17.3" HD+	720p	Intel HD 4000	1TB	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT4.0	6-cell	Win8 64	03/13
59381095	i7-3612QM	4GBx2	17.3" HD+	720p	Intel HD 4000	500G	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT4.0	6-cell	Win8 64	06/13
59381094	i7-3612QM	4GBx2	17.3" HD+	720p	Intel HD 4000	1TB	5400	DVD±RW	11b/g/n	Dark brown	HDMI	BT4.0	6-cell	Win8 64	06/13

- 17.3" widescreen, glossy display
- Integrated 0.3 megapixel or 720P HD camera
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

Positioning Processor	<p><i>Widescreen flexibility: two-spindle</i></p> <p><b>Intel® Core™ i5-3210M processor (2 cores / 4 threads, 2.50 GHz, 3MB cache)</b>, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.10GHz), integrated Intel HD Graphics 4000</p> <p><b>Intel Core i5-3230M processor (2 cores / 4 threads, 2.60 GHz, 3MB cache)</b>, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.20GHz), integrated Intel HD Graphics 4000</p> <p><b>Intel Core i7-3520M processor (2 cores / 4 threads, 2.90GHz, 4MB cache)</b>, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.60GHz), integrated Intel HD Graphics 4000</p> <p><b>Intel Core i7-3612QM processor (4 cores / 8 threads, 2.10GHz, 6MB cache)</b>, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.10GHz), integrated Intel HD Graphics 4000</p>	<p><b>Preloaded operating system<sup>20</sup></b></p> <ul style="list-style-type: none"> <li>- Windows® 8 64-bit</li> </ul> <p><b>Preloaded applications<sup>14</sup></b> (only some listed)</p> <ul style="list-style-type: none"> <li>- <b>Traditional Desktop apps</b></li> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• PokeTALK</li> <li>• McAfee® Internet Security (30-Day Trial)</li> <li>• CyberLink YouCam</li> <li>• Cyberlink PowerDVD (DVD±RW)</li> <li>• Cyberlink Power2Go (DVD±RW)</li> <li>• Microsoft Office preloaded; purchase product key to activate</li> <li>• Lenovo Energy Management</li> <li>- <b>Windows Store apps (Metro-style)</b></li> <li>• AccuWeather</li> <li>• Evernote</li> <li>• Skype</li> <li>• McAfee</li> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> </ul>
Memory	8GB max <sup>7</sup> / <b>PC3-12800 1600MHz DDR3*</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	
Diskette drive	None	
Optical	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in	
SATA disk	<b>750GB</b> (5400 rpm) or <b>1TB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset	
Widescreen display	<b>17.3"</b> (439.4mm) <b>HD+ (1600x900) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel or 720p HD, fixed focus	
Graphics	<b>Intel HD Graphics 4000</b> , integrated in processor, external monitor support via analog VGA DB-15 connector / digital HDMI connector	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	<p><i>Integrated models:</i> 65-watt AC adapter</p> <p><i>Optimus models:</i> 90-watt AC adapter</p> <p>EPEAT™ Gold rating</p> <p>ENERGY STAR® qualified</p> <p>RoHS-compliant</p>
Numeric keypad	Numeric keypad on right of keyboard	
Touch pad	Two-button touch pad with scroll feature, multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 16.38" x 10.75" x 1.42" to 1.77"; 416mm x 273mm x 36.1 to 44.9mm	<p><b>Limited Warranty<sup>12</sup></b></p> <ul style="list-style-type: none"> <li>⇒ <b>1-year warranty*:</b></li> <li>* <b>1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b></li> <li>⇒ <b>Mail In repair service</b></li> <li>⇒ <b>Service upgrade options<sup>58</sup></b> (in eligible locations):<sup>9</sup></li> <li>• <b>3-year Depot warranty</b> 78Y1538</li> <li>• <b>1-year Mail In with accidental damage protection</b> 55Y2511</li> <li>• <b>3-year Mail In with accidental damage protection</b> 78Y1539</li> <li>• <b>3-year Onsite warranty</b> 78Y1540</li> <li>• <b>1-year Onsite with accidental damage protection</b> 78Y1533</li> <li>⇒ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b></li> </ul>
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 6.6 lb (3.0kg)	
Case color	<i>Top:</i> Dark Brown (metal-like, hairline cover finishing); <i>bottom:</i> Black	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b> , 48Wh	
Battery - life <sup>10</sup>	<i>Optimus models:</i> up to 4.5 hr; <i>Integrated models:</i> up to 5 hr	
Chipset	<b>Mobile Intel HM76 Express Chipset</b>	
ExpressCard/34	None	
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)	
Ports	Two USB 2.0, two USB 3.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, Broadcom® or Atheros® chip, Wi-Fi + Bluetooth combo adapter	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Modem	None	
Ethernet	10/100M ethernet, Atheros AR8162	
Audio support	High Definition (HD) Audio, Conexant® CX20671 / stereo speakers (1.5 watt x 2), Dolby® Advanced Audio™ v2 / integrated microphone, headphone jack (3.5 mm), microphone jack (3.5 mm)	
Security	Hard disk password, administrator password, security lockhole	
Fingerprint reader	None	

See footnotes for important warranty information

☞ US model(s) announced June 5, 2013; previous model(s) on November 28, 2012 or March 27, 2013

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# Lenovo® G780 (Discrete) - Windows 8 (web only models)

Personal Systems Reference (PSREF)

Type-model	Pro-cessor	Memory	Widescreen display	Cam-era	Graphics	SATA disk GB <sup>8</sup> rpm	Optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win8 preload	Avail date (mm/yy)
2182-9TU	i7-3632QM	4GBx2	17.3" HD+	720p	GT 635M 2G	1TB 5400	BD burner	11b/g/n <sup>28</sup>	Dark brown	HDMI	BT4.0	6-cell	Win8 64	11/12

- **17.3" widescreen, glossy display**
- **Integrated 0.3 megapixel or 720P HD camera**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**

Positioning Processor	<i>Widescreen flexibility; two-spindle</i> <b>Intel® Core™ i7-3632QM processor (4 cores / 8 threads, 2.20GHz, 6MB cache)</b> , DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.20GHz), integrated Intel HD Graphics 4000	<b>Preloaded operating system<sup>20</sup></b> - Windows® 8 64-bit  <b>Preloaded applications<sup>14</sup></b> (only some listed) <b>- Traditional Desktop apps</b> <ul style="list-style-type: none"> <li>• Lenovo OneKey Recovery</li> <li>• Lenovo Cloud Storage by SugarSync</li> <li>• PokeTALK</li> <li>• McAfee® Internet Security (30-Day Trial)</li> <li>• CyberLink YouCam</li> <li>• Cyberlink PowerDVD (BD burner)</li> <li>• Cyberlink Power2Go (BD burner)</li> <li>• Microsoft Office preloaded; purchase product key to activate</li> <li>• Lenovo Energy Management</li> </ul> <b>- Windows Store apps (Metro-style)</b> <ul style="list-style-type: none"> <li>• AccuWeather</li> <li>• Evernote</li> <li>• Skype</li> <li>• McAfee</li> <li>• Lenovo Support</li> <li>• Lenovo Companion</li> </ul>
Memory	8GB max <sup>7</sup> / <b>PC3-12800 1600MHz DDR3*</b> , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	
Diskette drive	None	
Optical	Blu-ray™ burner, Blu-ray and DVD disk recordable, 12.7mm, tray-in	
SATA disk	<b>1TB</b> (5400 rpm) / SATA 3.0Gb/s, 9.5mm high	
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset	
Widescreen display	<b>17.3"</b> (439.4mm) <b>HD+ (1600x900) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel or 720p HD, fixed focus	
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, <b>Intel HD Graphics 4000</b> in processor, and <b>NVIDIA GeForce® GT 635M Graphics</b> , PCI Express® x16, <b>2GB</b> DDR3, DirectX® 11, external monitor support via analog VGA DB-15 connector / digital HDMI connector	
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key	
Numeric keypad	Numeric keypad on right of keyboard	
Touch pad	Two-button touch pad with scroll feature, multi-touch	
Dimensions <sup>3</sup>	(WxDxH): 16.38" x 10.75" x 1.42" to 1.77"; 416mm x 273mm x 36.1 to 44.9mm	
Weight <sup>2</sup>	with optical drive and battery: <i>6-cell</i> : from 6.6 lb (3.0kg)	
Case color	<i>Top</i> : Dark Brown (metal-like, hairline cover finishing); <i>bottom</i> : Black	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion <b>6-cell</b> , 48Wh	
Battery - life <sup>10</sup>	<i>Optimus models</i> : up to 4.5 hr; <i>Integrated models</i> : up to 5 hr	
Chipset	<b>Mobile Intel HM76 Express Chipset</b>	
ExpressCard/34	None	
Multicard reader	2-in-1 reader (MMC, Secure Digital Card)	
Ports	Two USB 2.0, two USB 3.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	One PCI Express Mini Card slot	
11b/g/n <sup>28</sup>	11b/g/n wireless <sup>4</sup> , PCIe Mini Card adapter, Broadcom® or Atheros® chip, Wi-Fi + Bluetooth combo adapter	
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
Modem	None	
Ethernet	10/100M ethernet, Atheros AR8162	
Audio support	High Definition (HD) Audio, Conexant® CX20671 / stereo speakers (1.5 watt x 2), Dolby® Advanced Audio™ v2 / integrated microphone, headphone jack (3.5 mm), microphone jack (3.5 mm)	
Security	Hard disk password, administrator password, security lockhole	
Fingerprint reader	None	
		<b>Limited Warranty<sup>12</sup></b> ⇨ <b>1-year warranty*</b> : * <b>1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b> ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options<sup>58</sup></b> (in eligible locations): <sup>9</sup> <ul style="list-style-type: none"> <li>• <b>3-year Depot warranty</b> 78Y1538</li> <li>• <b>1-year Mail In with accidental damage protection</b> 55Y2511</li> <li>• <b>3-year Mail In with accidental damage protection</b> 78Y1539</li> <li>• <b>3-year Onsite warranty</b> 78Y1540</li> <li>• <b>1-year Onsite with accidental damage protection</b> 78Y1533</li> </ul> ⇨ <b>Toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>

See footnotes for important warranty information  
US model(s) announced November 28, 2012

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**Partial list of Lenovo® Services<sup>22</sup>  
for Lenovo Essential notebooks**

For more information see:

[http://www.lenovo.com/services\\_warranty/us/en/index.html](http://www.lenovo.com/services_warranty/us/en/index.html)

**Lenovo service upgrade options**

***Lenovo Value Line notebooks with 1-year Mail In warranty***

*Mail in = Mail In repair, ADP = Accidental Damage Protection*

2-year Depot warranty	78Y1534
3-year Depot warranty	78Y1538
1-year Mail In warranty with ADP	55Y2511
2-year Mail In warranty with ADP	78Y1535
3-year Mail In warranty with ADP	78Y1539

*LOR = Lenovo Onsite Repair, ADP = Accidental Damage Protection*

1-year LOR warranty 9x5 NBD	78Y1532
2-year LOR warranty 9x5 NBD	78Y1536
3-year LOR warranty 9x5 NBD	78Y1540
1-year LOR warranty 9x5 NBD with ADP	78Y1533
2-year LOR warranty 9x5 NBD with ADP	78Y1537
3-year LOR warranty 9x5 NBD with ADP	78Y1541



**Availability:** All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

**Warranty:** For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept ZPYA/B676. Lenovo makes no representation or warranty regarding third party products or services.

**Footnotes:**

- <sup>1</sup> Power management, including Intel® SpeedStep® Technology, reduces processor speed when in battery mode.
- <sup>2</sup> **Weight** includes battery and standard optical drive; weight may vary due to vendor components, manufacturing process and options.
- <sup>3</sup> **Thinness** may vary at certain points on the system.
- <sup>4</sup> **Wireless capability:** Requires compatible wireless-enabled options sold separately.
- <sup>5</sup> **Post-warranty annual maintenance agreement:** Service begins at the end of the base warranty or the end of any other applied warranty and maintenance option, whichever occurs last. Service delivery is not available the same day the maintenance agreement is purchased. Maintenance agreements must be purchased and the registration successfully completed prior to the service being available.
- <sup>6</sup> **Public network download modem speeds** are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.
- <sup>7</sup> **Maximum memory capacity** may require the replacement of standard component with largest supported component available. Even though it is possible to physically install 4GB of memory, the actual amount of memory addressable by a 32-bit operating system will be limited to 3GB. This limitation does not exist with 64-bit operating systems.
- <sup>8</sup> **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.
- <sup>9</sup> **Service upgrade options:** Upgrades do not apply to components covered for 90 days. Those remain at 90-day warranty
- <sup>10</sup> **Battery:** These model numbers achieved Battery Rundown Time of at least the time shown during testing. A description of the testing available at [lenovo.com/pc/www/thinkpad/batterylife](http://lenovo.com/pc/www/thinkpad/batterylife). Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.
- <sup>11</sup> **Wireless:** Based on IEEE 802.11a, 802.11b, and 802.11g respectively. An adapter with 11a/b, 11b/g, or 11a/b/g can communicate on either/any of these listed formats respectively, the actual connection will be based on the access point to which it connects.
- <sup>12</sup> **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.
- <sup>13</sup> **Onsite Service:** If a machine is listed as having "On-site", this means that on-site service is available for the replacement of parts for warranty repairs. Certain parts, referred to as Customer Replaceable Unit ("CRU") parts, are easy to install and require little or no tools or technical knowledge. Some examples of CRU parts are mice, keyboards, hard disk drives, speakers, and memory. If your problem can be resolved with a CRU, the Support Center will offer to ship the part to you for you to install.
- <sup>14</sup> **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.
- <sup>15</sup> **Modem speeds:** Public network download speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.
- <sup>16</sup> **Telephone support** may be subject to additional charges, even during the limited warranty period. Response times may vary and may exclude some holidays.
- <sup>19</sup> **EasyServ depot repair:** The customer may be asked certain diagnostic questions before a courier is sent. Your purchase includes this depot repair service, available in the U.S. during the limited warranty period.
- <sup>20</sup> **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to [lenovo.com/pc/support](http://lenovo.com/pc/support) and enter your machine type and model number for more information.
- <sup>21</sup> **For combination drives**, maximum possible speeds only are given in the following order: CD write, CD rewrite, CD read, DVD read.
- <sup>22</sup> **Lenovo Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part can be express shipped to you for quick replacement. For notebooks requiring LCD or other component replacement, Lenovo may choose to perform service at the depot repair center. Calls must be received by 5 pm local time in order to qualify for Next Business Day service. P&L means parts and labor. P/U means pick-up. See terms and conditions for complete details and restrictions.
- <sup>25</sup> **Wireless WAN Cards:** Wireless data service requires separate agreement with Verizon Wireless. Verizon Wireless, not Lenovo, is solely responsible for service. Monthly and airtime charges may apply. Service may not be available in all areas; purchaser is responsible for verifying with Verizon Wireless that service is available for the intended location before the purchase of the card. For complete details, including service plans, additional required hardware or software, and service coverage, visit [www.verizonwireless.com](http://www.verizonwireless.com).

<sup>28</sup> **The IEEE 802.11n specification (MIMO)** has been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.

<sup>58</sup> **Service upgrade options for Split Warranty:** (1) Mail In upgrades cover all components except power adapter, keyboard, plastics, and hinges after 90 days through end of first year. The "Mail-In" upgrades require customer to pay the leg of shipping into the depot repair center. (2) Onsite upgrades cover all components except power adapter, keyboard, plastics, and hinges after 90 days through end of term selected. (3) Accidental Damage Protection covers all components through the end of the term selected.

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