

# DIGITAL PC 5510

Delivering the most advanced levels of manageability and security in a Pentium® II-class PC, the DIGITAL™ PC 5510 was designed for MIS managers looking for a Windows NT®-optimized system that reduces total cost of ownership and extends the life-cycle of an enterprise-class system. Built with leading-edge technology, the DIGITAL PC 5510 delivers the highest levels of performance, reliability, and interoperability, while providing plenty of room for expansion and growth.

## TARGET AUDIENCE

- MIS managers looking to maximize investment protection.
- Business users of data- and graphics-intensive applications who are looking for the most advanced features and performance benefits as they make the transition to Windows NT in the networked enterprise.
- High-end users who want the power and manageability features necessary to handle the most demanding business applications.

## KEY FEATURES

- Choice of 233MHz, 266MHz, and 300MHz Pentium® II processors.
- Advanced manageability and security with DIGITAL ClientWORKS™.
- Intel 440LX chipset.
- 32MB SDRAM, expandable to 384MB.
- SDRAM system DIMM memory.
- 512KB L2 cache.
- AGP graphics optional.
- Ultra DMA/33-capable EIDE hard disk drives.
- Integrated networking.
- Integrated audio.
- Low-profile and short-tower configurations.
- Year 2000-ready.
- Windows NT 4.0 or Windows® 95 preinstalled.



## COMPETITIVE DIFFERENTIATORS

- Integrated features for a network-ready Windows NT environment include: CD-ROM drive (select configurations), 10Base-T/100Base-TX Autosensing Ethernet, 16-bit audio chip and multilevel security.
- Innovative tool-less chassis design for ease of service and upgradability.
- Advanced manageability and security with ClientWORKS:
  - SecureON for secure remote system wake-up.
  - SecureBIOS for firmware tampering prevention.
  - SecureBOX for system box tampering detection.
  - Environmental sensors support.
- Automatic SMART alarming (remote and local):
  - Disk failures (on SMART-enabled hard disks)\*.
  - Environmentally hazardous conditions (temperature/voltage).
  - System box tampering (SecureBOX).
  - Unauthorized wake-up attempts (SecureON).

\* Windows 95 models only.

Features	DIGITAL™ PC 5510	Compaq Deskpro 4000	HP Kayak XA	IBM PC 300XL	Dell OptiPlex GXa
Processors	233 Pentium® II 266 Pentium II 300 Pentium II	233 Pentium II 266 Pentium II 300 Pentium II	233 Pentium II 266 Pentium II 300 Pentium II	233 Pentium II 266 Pentium II 300 Pentium II	233 Pentium II 266 Pentium II 300 Pentium II
Chip set	Intel 440LX	Intel 440LX	Intel 440LX	Intel 440FX	Intel 440LX
Enclosure (slots/bays)	Low-profile (3x4) Short-tower (5x6)	Desktop (5x4) Mini-tower (8x5)	Desktop (5x4) Mini-tower (6x6)	Desktop (5x5)	Low-profile (3x3) Desktop (5x4) Mini-tower (7x5)
Standard graphics	Matrox MGA 1164SG (PCI)	Matrox MGA 1064SG	CL 5465 AGP	S3™ Trio 64V2 PCI	ATI Rage Pro AGP
Video RAM std.	2MB SGRAM	2MB SGRAM	4MB Rambus	2MB EDO DRAM	2MB SGRAM
Video RAM max.	6MB SGRAM	4MB SGRAM	6MB Rambus	2MB EDO DRAM	4MB SGRAM
Maximum system memory	384MB	384MB	384MB	384MB	384MB
Memory type	SDRAM DIMMs	SDRAM DIMMs	SDRAM DIMMs	EDO DRAM DIMMs	ECC SDRAM DIMMs
Cache standard/ maximum	512KB/512KB	512KB/512KB	512KB/512KB	512KB/512KB	512KB/512KB
Cache type	Write-back	Write-back	Write-back	Write-back	Write-back
USB port	2 ports	2 ports	2 ports	2 ports	2 ports
CD-ROM	24x max. CD-ROM	24x CD-ROM	24x CD-ROM on select models	16x CD-ROM on select models	12x24 CD-ROM
Audio	16-bit audio Sound Blaster® Pro-compatible	Enhanced Business Pro	16-bit Sound Blaster Pro-compatible	Sound Blaster Pro-compatible	Sound Blaster Pro-compatible
Standard hard disk drive	EIDE Ultra DMA/33: 2.1GB, 3.2GB, 4.0GB; Ultra-Wide SCSI: 4.0GB	EIDE Ultra DMA/33: 2.4GB, 3.2GB	EIDE Ultra DMA/33: 2.5GB, 4.3GB; Ultra-Wide SCSI: 2.1GB, 4.5GB	EIDE PIO mode4: 2.5GB, 4.2GB; Ultra-Wide SCSI: 4.3GB	EIDE Ultra DMA/33: 2.1GB, 3.2GB, 4.3GB; Ultra-Wide SCSI: 2.0GB, 4.0GB
Disk controller	Ultra DMA/33; Ultra-Wide SCSI	Ultra DMA/33	Ultra DMA/33; Ultra-Wide SCSI	EIDE PIO mode4; Ultra-Wide SCSI	Ultra DMA/33; Ultra-Wide SCSI
Networking	10Base-T/100Base-TX with Autosensing	Netelligent 10/100 TX UTP	10/100Base-T with Autosensing	10/100Mbps Ethernet	3Com 10/100Mbps Ethernet
Desktop management	ClientWORKS™ (local & remote DMI viewer)	Intelligent Manageability (local DMI viewer)	HP TopTOOLS (local DMI viewer)	TME 10 NetFinity (local & remote DMI viewer)	Dell Inspector (remote DMI viewer)

## Processors

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Model/Processor speed/Type/Enclosure:

DIGITAL™ PC 5510 low-profile  
 233MHz Pentium® II processor  
 266MHz Pentium II processor  
 300MHz Pentium II processor  
 DIGITAL PC 5510 short-tower  
 233MHz Pentium II processor  
 266MHz Pentium II processor  
 300MHz Pentium II processor

External bus speed: 33MHz PCI  
 Internal architecture: 32-bit PCI/16-bit ISA  
 Address bus: 32-bit  
 Data bus: 64-bit  
 Primary cache: 32KB

## Processor Socket

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Slot 1 connector

## System Memory

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Included: 32MB SDRAM  
 Maximum: 384MB SDRAM  
 Speed: 66MHz  
 Configuration: Three DIMM sockets  
 Upgradable: With 16, 32, 64, and 128MB SDRAM DIMM memory kits

## Cache Memory

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512KB four-way, set-associative secondary cache standard

## Bus Architecture

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32-bit PCI/16-bit ISA, 32-bit AGP

## BIOS

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256KB Flash ROM BIOS, including video BIOS  
 Support for Plug and Play BIOS  
 Phoenix  
 Supports multi-boot for on-board UDMA devices

## Graphics

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Type: Integrated PCI 64-bit graphics controller with 2-D/3-D graphics acceleration;  
 optional AGP card  
 Graphics memory: 2MB SGRAM standard, upgradable to 6MB  
 Supports up to 1600 x 1200 @ 75Hz

## Diskette Drive

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3.5" 1.44MB diskette drive

## CD-ROM Drive

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5.25" 24x max. EIDE (select models)

## Audio Features

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Integrated Sound Blaster® Pro-compatible 16-bit stereo-quality chip  
 Full-duplex stereo on audio ports  
 Internal speaker  
 Mixer integration  
 Headphones in/microphone in on front  
 Line in/line out on rear

## Networking Features

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Integrated 32-bit PCI DIGITAL 21143 Ethernet chip  
 10Base-T/100Base-TX Autosensing Ethernet standard  
 10Base-5/AUI (optional)  
 10Base-2 BNC (optional)  
 Ability to disable in software (BIOS)

## Slots

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Low-profile  
 Total: 3  
 PCI: 1  
 ISA: 1  
 PCI/ISA: 1  
 Short-tower  
 Total: 5  
 PCI: 2  
 ISA: 2  
 PCI/ISA: 1

## Bays

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Low-profile: 4 total  
 Front-accessible:  
 1 3.5" slim-height (1.44MB diskette drive installed)  
 2 5.25" half-height (CD-ROM drive installed on select models)  
 Internal:  
 1 3.5" slim-height  
 Short-tower: 6 total  
 Front-accessible:  
 1 3.5" slim-height (1.44MB diskette drive installed)  
 3 5.25" half-height (CD-ROM drive installed on select models)  
 Internal:  
 2 3.5" slim-height

## External Ports

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Enhanced parallel (ECP/EPP):  
 1 D-type female 25-pin  
 High-speed 16550-compatible serial:  
 1 D-type male 9-pin  
 Universal Serial Bus (USB):  
 2 USB ports  
 VGA graphics:  
 1 D-type female 15-pin  
 AGP port:  
 optional  
 Keyboard:  
 1 PS/2-compatible 6-pin mini-DIN  
 Mouse:  
 1 PS/2-compatible 6-pin mini-DIN  
 Audio:  
 2 jacks (line in/stereo out)  
 1 microphone  
 1 headphone connection  
 Ethernet:  
 1 10Base-T/100Base-TX RJ45 connector

## Power Supply

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Low-profile:  
 145W (230/115 VAC) switch-selectable  
 Short-tower:  
 200W (230/115 VAC) switch-selectable

## Dimensions

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Low-profile:		
Height:	4.2"	106.7mm
Width:	16.5"	419.1mm
Depth:	17.75"	450.8mm
Weight:	31.2 lb	14.1kg
Short-tower:		
Height:	16.0"	406.4mm
Width:	8.5"	215.9mm
Depth:	17.5"	444.5mm
Weight:	33.6 lb	15.2kg

## Multilevel Security and Manageability

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SecureON for secure remote system wake-up  
 SecureBIOS for firmware tampering prevention  
 SecureBOX for system box tampering detection  
 Built-in BIOS password protection  
 User and supervisor passwords  
 Diskette drive write control  
 Time-out variable in BIOS to trigger APM system-suspend mode  
 Flash ROM write protection  
 Diskette drive boot control  
 Security hasp  
 Hot key keyboard lockout  
 SMART disk support

## Preemptive Fault Management

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Automatic remote and local alarming on all SMART devices supported via both remote DMI and local applications: SMART IDE drives (Windows® 95), thermal sensors, voltage sensors

## Regulatory Certifications

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UL-listed, CSA, TUV-GS, Australia (AS/NZS 3548), CE-Mark, FCC (class B), D-Mark (DEMKO), N-Mark (NEMKO), S-Mark (SEMKO), FIMKO (SETI), VCCI-2, Korean EMI, CISPR-22, CB (European), TCO'95, PC 97-compliant, U.S. Energy Star (low-profile models)

## Software Preinstalled

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Windows NT® Workstation 4.0 or Windows 95  
 DIGITAL™ ClientWORKS™ (Desktop Management Interface [DMI] manageability software) (see Section C)  
 Microsoft® Internet Explorer  
 Adobe® Acrobat™ Reader  
 Alta Vista Search My Computer pX  
 System Readme  
 On-line system and software documentation  
 System-specific drivers  
 System-specific utilities  
 AMI Diagnostics (DOS-based)  
 Power panel for Windows NT  
 PC Care Diagnostics for Windows 95  
 Desktop Wellness  
 Z.A.K. (on backup CD)  
 Power Management (NT)

## Certified Operating Systems

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Windows 95; Windows NT Workstation; Novell® NetWare® 386  
 3.12, 4.11 (client)

## Other Standard Features

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Intel 440LX chipset  
 PCI Bus Master EIDE with Ultra DMA/33 disk controllers  
 Bus Master EIDE support for Mode 3 and 4 EIDE drives  
 Voltage regulator module to support Pentium® II processor  
 Slide-in, slide-out MLB  
 One-thumb screw enclosure (low-profile)  
 Front reset button  
 Windows 95 keyboard  
 Three-button mouse

## Other Specifications

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Front panel indicators:  
 Power, hard disk drive, diskette drive  
 Front panel switches:  
 Power, reset  
 Operating temperature: 10°C to 40°C  
 Storage temperature: -40°C to 66°C  
 Operating humidity: 20% to 80%  
 Storage humidity: 10% to 95%

## Warranty

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Three-year limited warranty

## Configurations

**All configurations include:**

**512KB secondary cache, integrated 64-bit graphics controller with 2MB SGRAM, integrated audio, 10Base-T/100Base-TX Ethernet controller**

**DIGITAL™ PC 5510 low-profile**

233MHz Pentium® II processor, 32MB RAM, 2.1GB Ultra DMA hard disk drive, Windows NT® 4.0 preinstalled	FR-G2B2A-GB
233MHz Pentium II processor, 32MB RAM, 2.1GB Ultra DMA hard disk drive, Windows® 95 preinstalled	FR-G2B2A-EB
266MHz Pentium II processor, 32MB RAM, 3.2GB Ultra DMA hard disk drive, Windows NT 4.0 preinstalled	FR-G2B4A-GB
266MHz Pentium II processor, 32MB RAM, 2.1GB Ultra DMA hard disk drive, Windows 95 preinstalled	FR-G2B4A-EB
300MHz Pentium II processor, 32MB RAM, 3.2GB Ultra DMA hard disk drive, Windows NT 4.0 preinstalled	FR-G2B6A-GB

**DIGITAL PC 5510 short-tower**

233MHz Pentium II processor, 32MB RAM, 3.2GB Ultra DMA hard disk drive, 24x max. CD-ROM drive, Windows NT 4.0 preinstalled	FR-G2B2A-VB
233MHz Pentium II processor, 32MB RAM, 3.2GB Ultra DMA hard disk drive, 24x max. CD-ROM drive, Windows 95 preinstalled	FR-G2B2A-TB
266MHz Pentium II processor, 32MB RAM, 3.2GB Ultra DMA hard disk drive, 24x max. CD-ROM drive, Windows NT 4.0 preinstalled	FR-G2B4A-VB
266MHz Pentium II processor, 32MB RAM, 3.2GB Ultra DMA hard disk drive, 24x max. CD-ROM drive, Windows 95 preinstalled	FR-G2B4A-TB
300MHz Pentium II processor, 32MB RAM, 4GB Ultra DMA hard disk drive, 24x max. CD-ROM drive, Windows NT 4.0 preinstalled	FR-G2B6A-VB

## Options

**System Memory**

16MB single-bank DIMM upgrade kit	FR-PCCAM-EB
32MB dual-bank DIMM upgrade kit	FR-PCCAM-EC
64MB single-bank DIMM upgrade kit	FR-PCCAM-ED
128MB dual-bank DIMM upgrade kit	FR-PCCAM-EE
32MB ECC DIMM upgrade kit	FR-MSP01-JB
64MB ECC DIMM upgrade kit	FR-MSP01-JC
128MB ECC DIMM upgrade kit	FR-MSP01-JD

**Graphics Options and Upgrades**

AGP graphics adapter	FR-PCXAG-BE
4MB SGRAM upgrade for AGP card or integrated graphics	FR-PBXGK-GA
2MB SGRAM upgrade for integrated graphics	FR-PBXGK-GB
Matrox MGA Millennium II	FR-PCXAG-BD
4MB WRAM upgrade for Matrox MGA Millennium II	FR-PCCAM-CC

**Storage Devices**

3.5" 1.44MB diskette drive	FR-PCXRJ-AD
2GB IDE Ultra DMA hard disk drive, 3.5"	FR-PCXRA-AR
3.2GB IDE Ultra DMA hard disk drive, 3.5"	FR-PCXRA-AS
4GB IDE Ultra DMA hard disk drive, 3.5"	FR-PCXRA-AU
6.4GB IDE Ultra DMA hard disk drive, 3.5"	FR-PCXRA-AV
2.0GB Ultra-Wide SCSI hard disk drive	FR-CDCAA-BA
4.0GB Ultra-Wide SCSI hard disk drive	FR-PCXRE-BA
4/8GB internal ATAPI tape drive	FR-PCXAT-DB
24x max. EIDE CD-ROM drive, 5.25"	FR-PCXRN-AM

**SCSI Adapter**

Adaptec PCI 2940UW Ultra-Wide host adapter	FR-PCTAZ-DE
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**Network Interface Card**

Ethernet PCI 10/100Mbps NIC	FR-DE500-BA
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**Multimedia**

24x CD-ROM drive, Creative Labs multimedia kit (includes Plug and Play sound card, headset with microphone, audio cable, installation disk)	FR-PCXBJ-DP
Speaker kit – 10 watt	FR-PCXJA-AH
Headset with microphone	FR-PCTAZ-DE

**Monitors**

DIGITAL PC 5000 Series PCs support all DIGITAL monitors. Refer to the Monitors section for part numbers

**Keyboard**

Windows 95 keyboard	FR-PCXLA-NA
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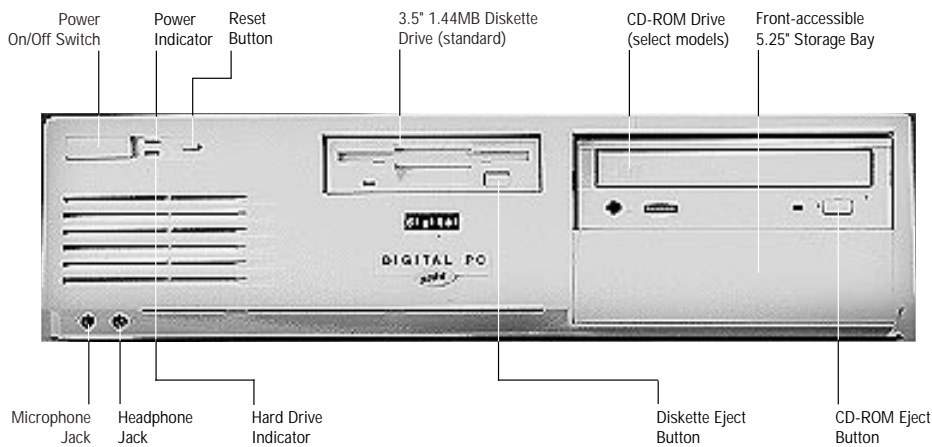
**Mice**

Logitech PS/2-style, two-button mouse	FR-PCXLN-AB
Logitech PS/2-style, three-button mouse	FR-PCXLN-AD

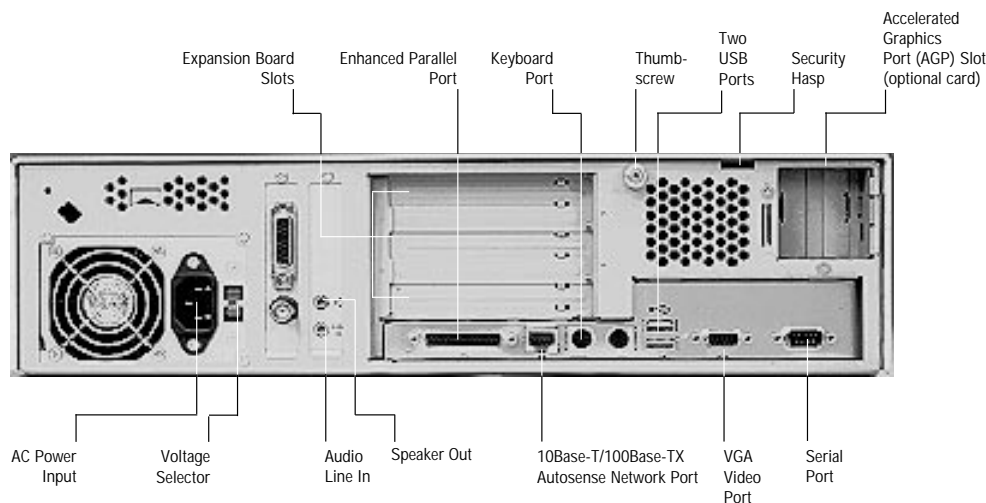
**Modem**

56Kbps internal data/fax modem	FR-PCXFA-AA
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## Low-profile Enclosure

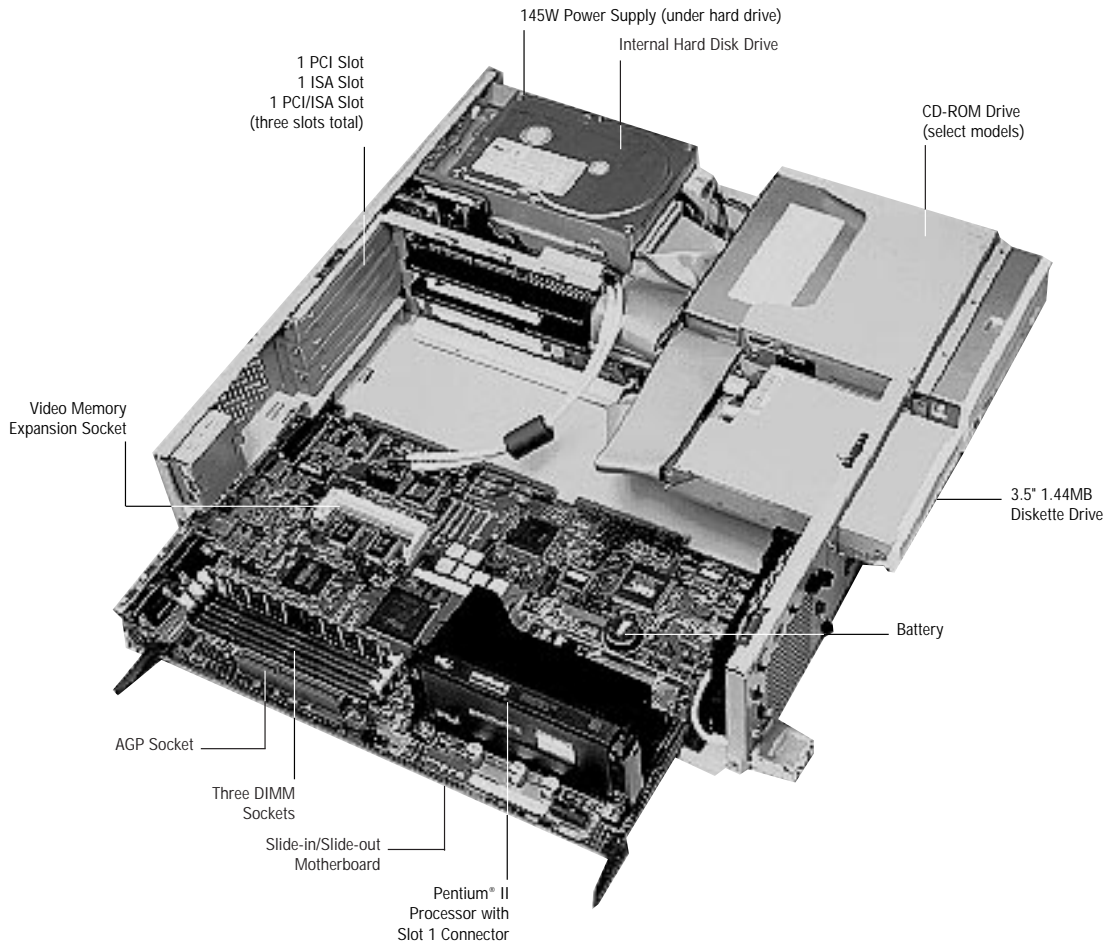


Front View

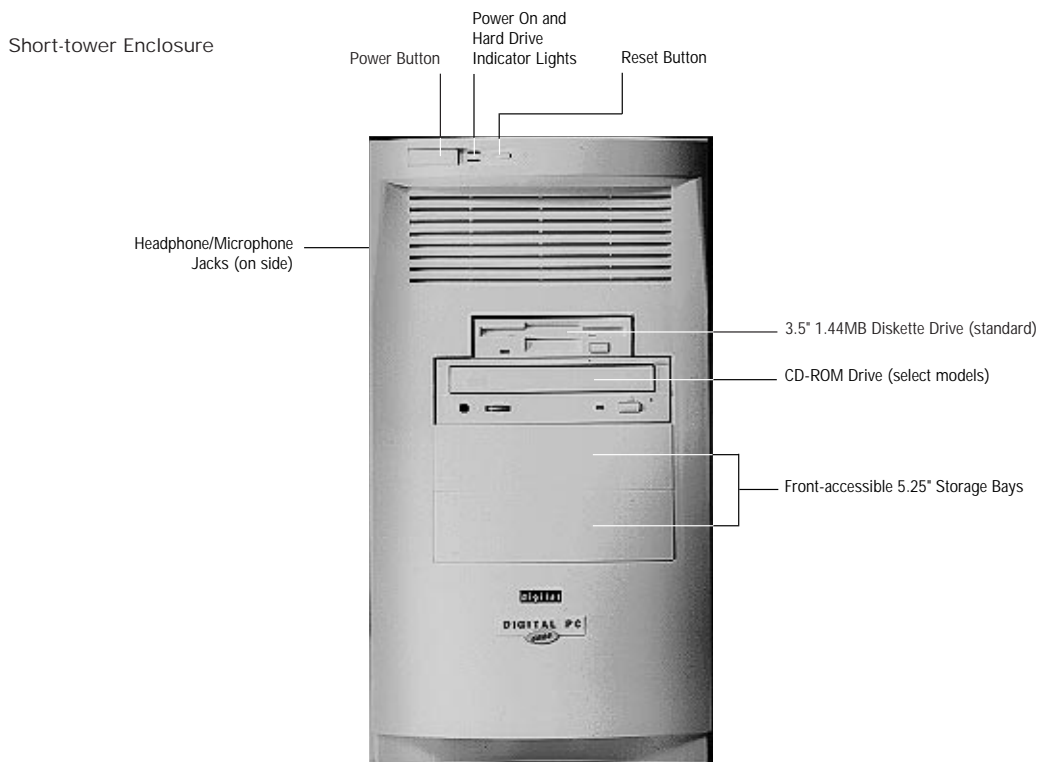


Back View

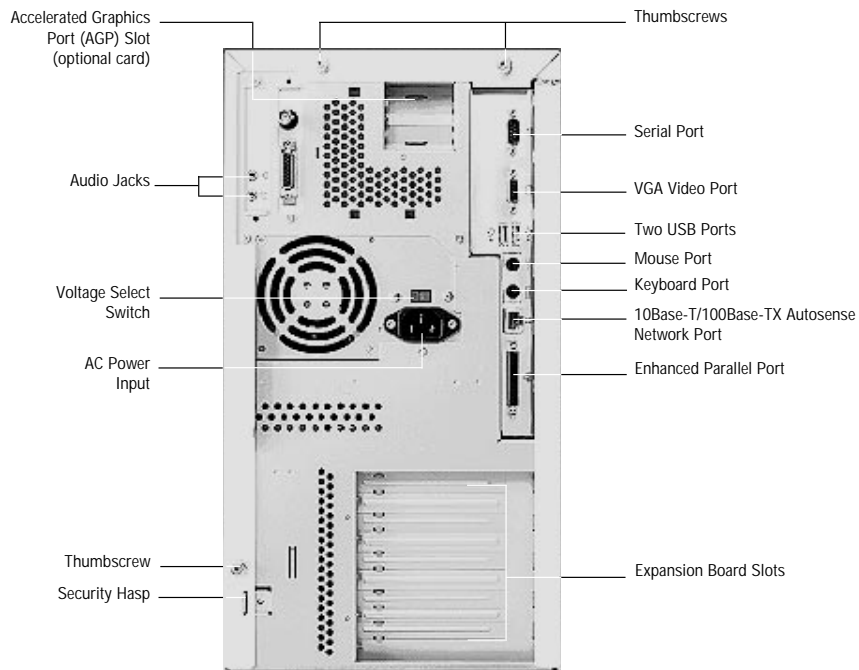
Low-profile Enclosure



Motherboard



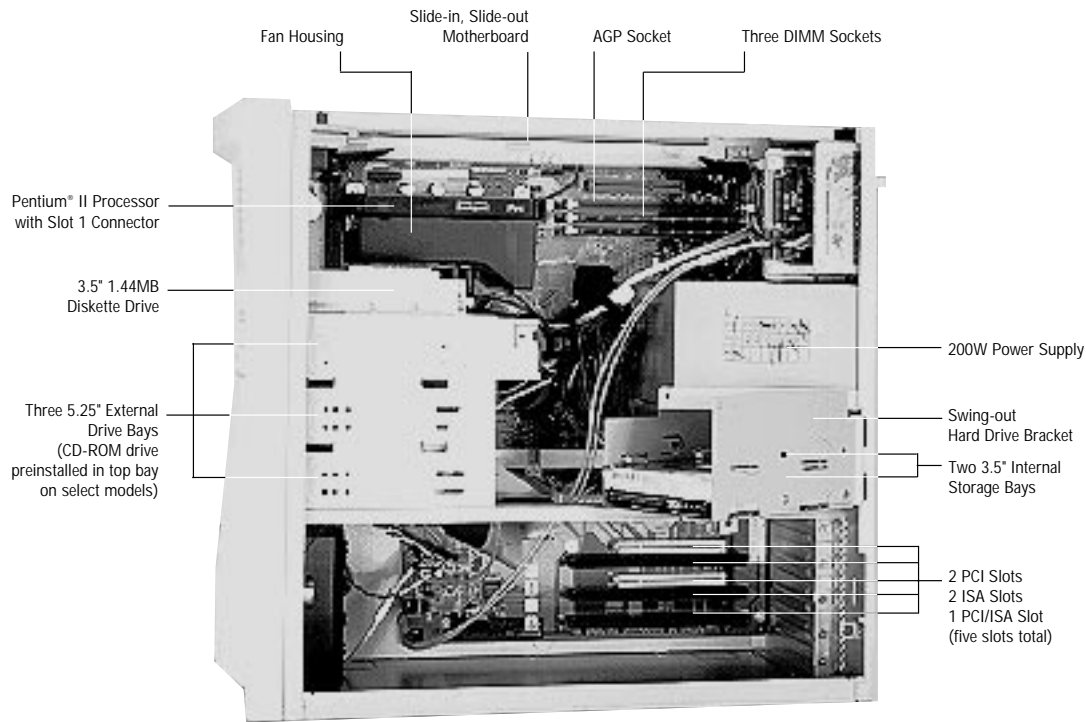
Front View



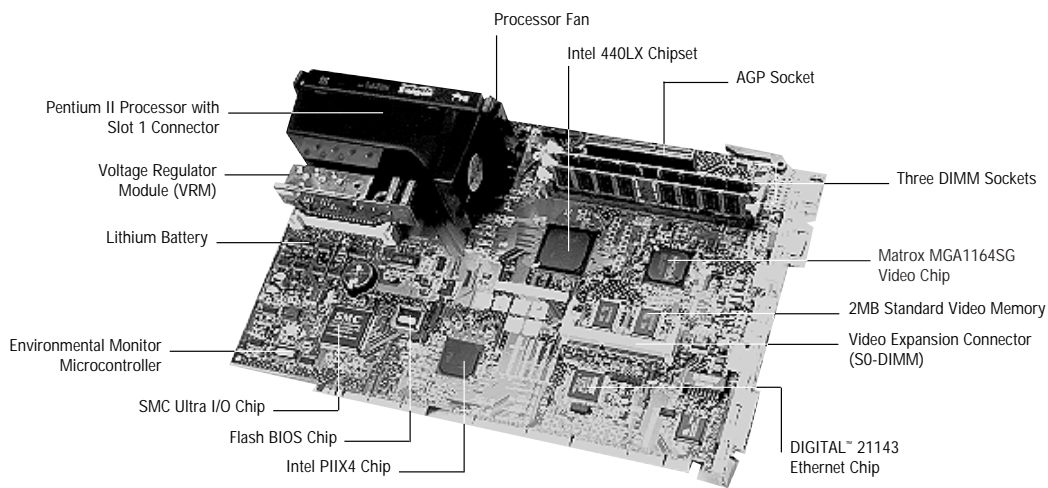
Back View



Short-tower Enclosure



Internal Side View



Motherboard

DIGITAL™ PC 5510  
Memory Configurations

Total Memory	DIMM 0	DIMM 1	DIMM 2
16MB	16MB		
32MB	16MB	16MB	
32MB	32MB		
48MB	16MB	16MB	16MB
48MB	16MB	32MB	
64MB	64MB		
64MB	16MB	16MB	32MB
64MB	32MB	32MB	
80MB	16MB	64MB	
80MB	32MB	32MB	16MB
96MB	64MB	32MB	
96MB	32MB	32MB	32MB
112MB	64MB	32MB	16MB
128MB	128MB		
128MB	64MB	64MB	
128MB	64MB	32MB	32MB
144MB	128MB	16MB	
160MB	128MB	16MB	16MB
160MB	128MB	32MB	
176MB	128MB	32MB	16MB
192MB	64MB	64MB	64MB
192MB	128MB	64MB	
192MB	128MB	32MB	32MB
208MB	128MB	64MB	16MB
224MB	128MB	64MB	32MB
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