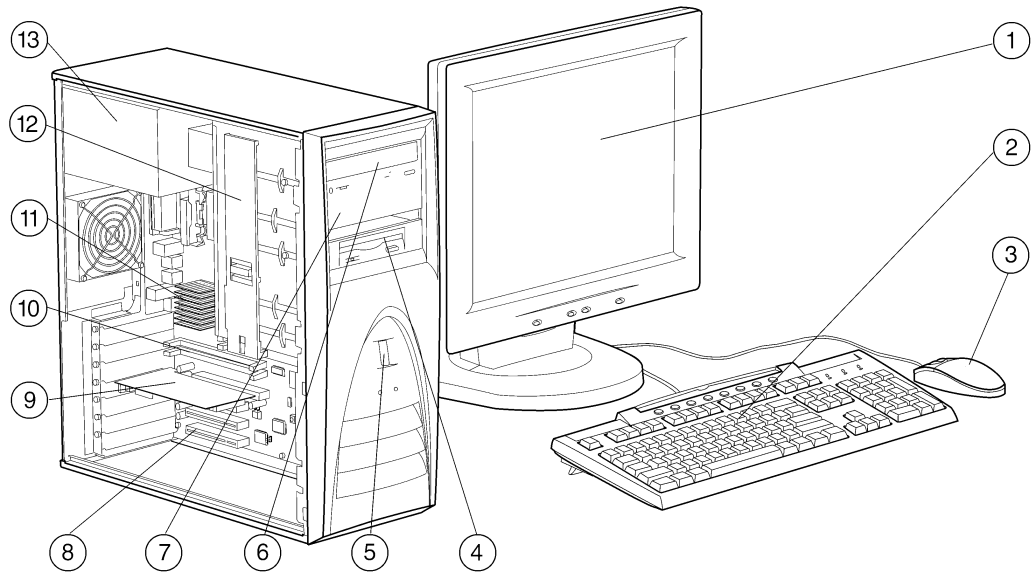


Overview

At A Glance

- Convertible minitower form factor
- Supports up to two Intel® Xeon™ processors, up to 2.8-GHz (400 MHz Front Side Bus)
- Intel 860 chipset with 400-MHz front side bus and dual memory channels
- 512-KB L2 cache integrated on processor
- ECC RDRAM expandable to 2 GB
- High-performance Ultra160 SCSI 10,000 rpm or 15,000 rpm hard drives or UATA/100 7200 rpm hard drives
- Integrated Ultra160 SCSI and Ultra ATA/100 controllers
- Up to 360 GB of high-performance internal storage
- Choice of NVIDIA® Quadro2 EX, NVIDIA Quadro4 750 XGL, NVIDIA Quadro4 200 NVS, NVIDIA Quadro4 400 NVS, NVIDIA Quadro4 550 XGL, NVIDIA Quadro4 750 XGL, NVIDIA Quadro4 900 XGL, Matrox® Millennium® G450, Matrox G200 Quad Multi-monitor Series, Matrox Millennium G550, ATI Fire GL 8800, or 3DLabs Wildcat™ III 6110 Graphics Controller
- Multiple display support
- Integrated Intel PRO/100+ Management Adapter
- Four total slots (three PCI and one AGP Pro 4X)
- Five bays (three external and two internal)
- CD-ROM, DVD-ROM, DVD+RW, CD-RW, or combo drive (depending on model)
- SoundBlaster 128 audio
- Windows® XP Professional or Windows 2000 Professional and Compaq support software pre-installed
- Protected by Compaq Services, including a three-year, limited warranty — certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details. Three-year onsite and labor not available in all countries.



1. Compaq Monitor (optional)
2. Compaq Keyboard
3. Compaq 3-button Mouse
4. 1.44-MB Diskette Drive
5. On-Off Button
6. CD-ROM Drive or DVD-ROM Drive
7. 5.25-in Drive Bay (available)
8. PCI Slots
9. AGP Pro 4x slot
10. Memory Sockets
11. Processors
12. Drivelock
13. 460-Watt Power Supply

COMPAQ

Standard Features - Pre-configured Models

Models	Compaq Evo Workstation W6000 Available in multiple configurations. Not all configurations available in all countries. Check with your Authorized Compaq Reseller or Compaq.	
Processor <i>One of the following:</i>	Intel Xeon processor 2.0 GHz, 512-KB cache Intel Xeon processor 2.2 GHz, 512-KB cache Intel Xeon processor 2.4 GHz, 512-KB cache Intel Xeon processor 2.6 GHz, 512-KB cache Intel Xeon processor 2.8 GHz, 512-KB cache	
Cache Memory	512-KB integrated, full speed Level 2 cache per processor	
Upgradability	Upgradable to dual processor	
Memory <i>One of the following:</i>	Standard	1 GB of 800-MHz ECC RDRAM
	Standard	512 MB of 800-MHz ECC RDRAM
	Maximum	2 GB of 800-MHz ECC RDRAM
Network Controller	Integrated Intel PRO/100+Management Adapter	
Expansion Slots	I/O (Total)	4, up to 3 available
	32-bit/33-MHz PCI	3, up to 3 depending on model
	AGP Pro 4X	1, up to 1 depending on model
Expansion Bays	(Total/Available)	5/2
	Internal	2/1
	External	3/1
Storage	Diskette Drive	1.44 MB
	Removable Media	DVD-ROM Drive
	Hard Drive	18-GB Ultra160 SCSI (10,000 rpm or 15,000) or 36-GB Ultra160 SCSI (10,000 rpm) 80-GB or 40-GB Ultra ATA/100 (7200 rpm)
Interfaces	Parallel	1
	USB	4
	Serial	2
	Ultra160 SCSI	1 (68-pin internal)
	Ultra ATA/100	2
	Keyboard (PS/2)	1
	Pointing Device (PS/2 mouse)	1
	Video	1
	Microphone Jack	1
	Headphone Jack	1
	Line-In Jack	1
	Line-Out Jack	1
	RJ-45	1

Standard Features - Pre-configured Models

Graphics

One of the following:

Matrox Millennium G550 (AGP)
Matrox Millennium G450 (AGP)
Matrox G200 Quad Multi-monitor Series (PCI)
NVIDIA Quadro2 EX (AGP)
NVIDIA Quadro4 550 XGL (AGP)
NVIDIA Quadro4 750 XGL (AGP)
NVIDIA Quadro4 900 XGL (AGP)
NVIDIA Quadro4 200 NVS (AGP)
NVIDIA Quadro4 400 (PCI)
ATI Fire GL 8800 (AGP)
3Dlabs Wildcat III 6110 (AGP)

Audio

Integrated SoundBlaster 128 Audio

Software

Windows XP Professional
Windows 2000 Professional
Microsoft® Service Pack 2 for Windows 2000 Professional
Compaq Restore CD
Compaq Management Agents via the web
Compaq PC Diagnostics via the Web
ROM-based Setup
Diagnostics for Windows 2000 and Windows XP Professional
Microsoft Internet Explorer
System Software Manager via the Web
Altiris eXpress (Limited Time License)

Intelligent Manageability

Asset Control
Alert on LAN (AoL) hardware ready
Wake on LAN (WoL)
Fault Management
Lite Console
Security Management
Pre-Failure Warranty (processors, hard drives and memory)
Remote Management
Remote Wakeup via Magic Packet Support
Remote ROM Flash
Remote Security
Remote Shut Down
Bios Features
Advanced Configuration and Power Interface (ACPI) 1.0b
Advanced Power Management (APM) 1.2
Desktop Management Interface (DMI) 2.1
System Management (SM) Bios 2.3

Security

Diskette write and boot control
Flash ROM lock
Keyboard password
Network server mode
Parallel interface control
Power-on password
Serial interface control
Setup password
Cable lock provision

Power Supply

460-Watt, with Power Factor Correction

Service and Support

Protected by Compaq Services including a three-year, limited warranty with three-year parts coverage, three year, on-site service, and three-year labor; 7 x 24 hardware technical phone support and on-line support through the Internet; Pre-Failure Warranty coverage of hard drives, memory, and processors.
Note: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details. Three-year, onsite and labor not available in all countries.

Standard Features – Global Series Pre-configured Models

W6P/2.4/18S/512/Xd <i>xxxxxx-xxx and graphics option</i>	Processor	Intel Xeon 2.4 GHz
	Cache Memory	512-KB integrated L2
	Memory	512-MB 800-MHz ECC RDRAM
	Optical Drive	16X/40X DVD-ROM Drive
	Hard Drive	18-GB Ultra160 SCSI 10,000 rpm
	Graphics	Choice of graphics option: Matrox Millennium G550 (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox G200 Quad MMS with analog cables (PCI) (159513-B21) Matrox G200 Quad MMS with DVI cables (PCI) (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro4 550 XGL (AGP) (290648-B21) NVIDIA Quadro4 750 XGL (AGP) (270731-B21) NVIDIA Quadro4 900 XGL (AGP) (284279-B21) NVIDIA Quadro4 200 NVS (AGP) (273304-B21) NVIDIA Quadro4 400 NVS (PCI) (273305-B21) ATI Fire GL 8800 (AGP) (271686-B21) 3DLabs Wildcat III 6110 (AGP) (271685-B21)
	Audio	Integrated SoundBlaster 128 Audio
	OS	Windows 2000 SP2/Windows XP Professional

W6P/2.4/18S/1/Xd <i>xxxxxx-xxx and graphics option</i>	Processor	Intel Xeon 2.4 GHz
	Cache Memory	512-KB integrated L2
	Memory	1-GB (2 x 512-MB) 800-MHz ECC RDRAM
	Optical Drive	16X/40X DVD-ROM Drive
	Hard Drive	18-GB Ultra160 SCSI 10,000 rpm
	Graphics	Choice of graphics option: Matrox Millennium G550 (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox G200 Quad MMS with analog cables (PCI) (159513-B21) Matrox G200 Quad MMS with DVI cables (PCI) (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro4 550 XGL (AGP) (290648-B21) NVIDIA Quadro4 750 XGL (GPU) (270731-B21) NVIDIA Quadro4 900 XGL (AGP) (284279-B21) NVIDIA Quadro4 200 NVS (GPU) (273304-B21) NVIDIA Quadro4 400 NVS (PCI) (273305-B21) ATI Fire GL 8800 (AGP) (271686-B21) 3DLabs Wildcat III 6110 (AGP) (271685-B21)
	Audio	Integrated SoundBlaster 128 Audio
	OS	Windows 2000 SP2/Windows XP Professional

Standard Features – Global Series Pre-configured Models

W6P/2.2/18S/512/Xd <i>xxxxxx-xxx and graphics option</i>	Processor	Intel Xeon 2.2 GHz	
	Cache Memory	512-KB integrated L2	
	Memory	512-MB 800-MHz ECC RDRAM	
	Optical Drive	16X/40X DVD-ROM Drive	
	Hard Drive	18-GB Ultra160 SCSI 10,000 rpm	
	Graphics	Choice of graphics option: Matrox Millennium G550 (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox G200 Quad MMS with analog cables (PCI) (159513-B21) Matrox G200 Quad MMS with DVI cables (PCI) (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro4 550 XGL (AGP) (290648-B21) NVIDIA Quadro4 750 XGL (AGP) (270731-B21) NVIDIA Quadro4 900 XGL (AGP) (284279-B21) NVIDIA Quadro4 200 NVS (AGP) (273304-B21) NVIDIA Quadro4 400 NVS (PCI) (273305-B21) ATI Fire GL 8800 (AGP) (271686-B21) 3Dlabs Wildcat III 6110 (AGP) (271685-B21)	
	Audio	Integrated SoundBlaster 128 Audio	
	OS	Windows 2000/Windows XP Professional	
	<hr/>		
	W6P/2.2/18S/1/Xd <i>xxxxxx-xxx and graphics option</i>	Processor	Intel Xeon 2.2 GHz
Cache Memory		512-KB integrated L2	
Memory		1-GB (2 x 512-MB) 800-MHz ECC RDRAM	
Optical Drive		16X/40X DVD-ROM Drive	
Hard Drive		18-GB Ultra160 SCSI 10,000 rpm	
Graphics		Choice of graphics option: Matrox Millennium G550 (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox G200 Quad MMS with analog cables (PCI) (159513-B21) Matrox G200 Quad MMS with DVI cables (PCI) (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro4 550 XGL (AGP) (290648-B21) NVIDIA Quadro4 750 XGL (GPU) (270731-B21) NVIDIA Quadro4 900 XGL (AGP) (284279-B21) NVIDIA Quadro4 200 NVS (GPU) (273304-B21) NVIDIA Quadro4 400 NVS (PCI) (273305-B21) ATI Fire GL 8800 (AGP) (271686-B21) 3Dlabs Wildcat III 6110 (AGP) (271685-B21)	
Audio		Integrated SoundBlaster 128 Audio	
OS		Windows 2000/Windows XP Professional	

Standard Features – Global Series Pre-configured Models

W6P/2.0/18S/512/Xd <i>xxxxxx-xxx and graphics option</i>	Processor	Intel Xeon 2.0 GHz
	Cache Memory	512-KB integrated L2
	Memory	512-MB 800-MHz ECC RDRAM
	Optical Drive	16X/40X DVD-ROM Drive
	Hard Drive	18-GB Ultra160 SCSI 10,000 rpm
	Graphics	Choice of graphics option: Matrox Millennium G550 (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox G200 Quad MMS with analog cables (PCI) (159513-B21) Matrox G200 Quad MMS with DVI cables (PCI) (179597-B21) NVIDIA Quadro2 EX (AGP) (250066-B21) NVIDIA Quadro4 550 XGL (AGP) (290648-B21) NVIDIA Quadro4 750 XGL (AGP) (270731-B21) NVIDIA Quadro4 900 XGL (AGP) (284279-B21) NVIDIA Quadro4 200 NVS (GPU) (273304-B21) NVIDIA Quadro4 400 NVS (PCI) (273305-B21) ATI FireGL 8800 (GPU) (271686-B21) 3DLabs Wildcat III 6110 (AGP) (271685-B21)
	Audio	Integrated SoundBlaster 128 Audio
	OS	Windows 2000 SP2/Windows XP Professional

W6P/2.0/18S/1/Xd <i>xxxxxx-xxx and graphics option</i>	Processor	Intel Xeon 2.0 GHz
	Cache Memory	512-KB integrated, L2
	Memory	1-GB 800-MHz ECC RDRAM
	Optical Drive	16X/40X DVD-ROM Drive
	Hard Drive	18-GB Ultra160 SCSI 10,000 rpm
	Graphics	Choice of graphics option: Matrox Millennium G550 (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox G200 Quad MMS with analog cables (PCI) (159513-B21) Matrox G200 Quad MMS with DVI cables (PCI) (179597-B21) NVIDIA Quadro2 EX (AGP) (250066-B21) NVIDIA Quadro4 550 XGL (AGP) (290648-B21) NVIDIA Quadro4 750 XGL (AGP) (270731-B21) NVIDIA Quadro4 900 XGL (AGP) (284279-B21) NVIDIA Quadro4 200 NVS (AGP) (273304-B21) NVIDIA Quadro4 400 NVS (PCI) (273305-B21) ATI Fire GL 8800 (AGP) (271686-B21) 3DLabs Wildcat III 6110 (271685-B21)
	Audio	Integrated SoundBlaster 128 Audio
	OS	Windows 2000 Professional/Windows XP Professional

Standard Features – Global Series Pre-configured Models

W6P/1.8/18S/512/Xd <i>xxxxxx--xxx and graphics option</i>	Processor	Intel Xeon 1.8-GHz	
	Cache Memory	512-KB integrated L2	
	Memory	512-MB 800-MHz ECC RDRAM	
	Optical Drive	16X/40X DVD-ROM Drive	
	Hard Drive	18-GB Ultra160 SCSI 10,000 rpm	
	Graphics	Choice of graphics option: Matrox Millennium G550 (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox G200 Quad MMS with analog cables (PCI) (159513-B21) Matrox G200 Quad MMS with DVI cables (PCI) (179597-B21) NVIDIA Quadro2 EX (AGP) (250066-B21) NVIDIA Quadro4 550 XGL (AGP) (290648-B21) NVIDIA Quadro4 750 XGL (AGP) (270731-B21) NVIDIA Quadro4 900 XGL (AGP) (284279-B21) NVIDIA Quadro4 200 NVS (AGP) (273304-B21) NVIDIA Quadro4 400 NVS (PCI) (273305-B21) ATI Fire GL 8800 (AGP) (271686-B21) 3Dlabs Wildcat III 6110 (AGP) (271685-B21)	
	Audio	Integrated SoundBlaster 128 Audio	
	OS	Windows 2000 Professional/Windows XP Professional	
	<hr/>		
	W6P/1.8/18S/1/Xd <i>xxxxxx--xxx and graphics option</i>	Processor	Intel Xeon 1.8-GHz
Cache Memory		512-KB integrated L2	
Memory		1-GB 800-MHz ECC RDRAM	
Optical Drive		16X/40X DVD-ROM Drive	
Hard Drive		18-GB Ultra160 SCSI 10,000 rpm	
Graphics		Choice of graphics option: Matrox Millennium G550 (AGP) (250227-B21) Matrox Millennium G450 (AGP) (202389-B21) Matrox G200 Quad MMS with analog cables (PCI) (159513-B21) Matrox G200 Quad MMS with DVI cables (PCI) (179597-B21) NVIDIA Quadro2 EX (250066-B21) NVIDIA Quadro4 550 XGL (AGP) (290648-B21) NVIDIA Quadro4 750 XGL (AGP) (270731-B21) NVIDIA Quadro4 900 XGL (AGP) (284279-B21) NVIDIA Quadro4 200 NVS (AGP) (273304-B21) NVIDIA Quadro4 400 NVS (PCI) (273305-B21) ATI Fire GL 8800 (AGP) (271686-B21) 3Dlabs Wildcat III 6110 (AGP) (271685-B21)	
Audio		Integrated SoundBlaster 128 Audio	
OS		Windows 2000 Professional/Windows XP Professional (dual install)	

Standard Features – Custom Configuration Models

Processor <i>One of the following:</i>	Intel Xeon processor 2.0 GHz, 512-KB cache	
	Intel Xeon processor 2.2 GHz, 512-KB cache	
	Intel Xeon processor 2.4 GHz, 512-KB cache	
	Intel Xeon processor 2.6 GHz, 512-KB cache	
	Intel Xeon processor 2.8 GHz, 512-KB cache	
Cache Memory	512-KB integrated, full speed Level 2 cache per processor	
Upgradability	Upgradable to dual processor	
Memory	Maximum 2 GB of 800-MHz ECC RDRAM	
Network Controller	Integrated Intel PRO/100+ Management Adapter 3COM 3C920C PCI card	
Expansion Slots	I/O (Total) 4, up to 3 available	
	32-bit/33-MHz PCI 3, up to 3 depending on model	
	AGP Pro 4X 1, up to 1 depending on model	
Expansion Bays	(Total/Available) 5/2	
	Internal 2/1	
	External 3/1	
Storage	Diskette Drive 1.44 MB	
	Removable Media CD-ROM, CD-RW, DVD-ROM, Combo CD-RW and DVD-ROM, or DVD+RW drive	
	Hard Drives	73-GB, 36.4-GB, 18-GB Ultra160 SCSI (10,000 rpm)
		36-GB, 18-GB Ultra160 SCSI (15,000 rpm)
	Tape Drives	120-GB, 80-GB, 40-GB or 20-GB Ultra ATA/100 (7200 rpm)
TR5 10/20-GB 250-MB ATAPI ZIP Ecrix 33/66 GB VXA-1 Tape Drive (SCSI or IDE)		
Interfaces	Parallel 1	
	USB 4	
	Serial 2	
	Ultra160 SCSI 1 (68-pin internal)	
	Ultra ATA/100 2	
	Keyboard (PS/2) 1	
	Pointing Device (PS/2 mouse) 1	
	Video 1	
	Microphone Jack 1	
	Headphone Jack 1	
	Line-In 1	
	Line-Out 1	
	RJ-45 1	
Graphics <i>One of the following:</i>	Matrox Millennium G550 (AGP)	
	Matrox Millennium G450 (AGP)	
	Matrox G200 Quad Multi-monitor Series (PCI)	
	NVIDIA Quadro2 EX (AGP)	
	NVIDIA Quadro4 550 XGL (AGP)	
	NVIDIA Quadro4 750 XGL (AGP)	
	NVIDIA Quadro4 900 XGL (AGP)	
	NVIDIA Quadro4 200 NVS (AGP)	
	NVIDIA Quadro4 400 NVS (PCI)	
	ATI Fire GL 8800 (AGP)	
	3Dlabs Wildcat III 6110 (AGP)	

Options

Processor	Intel Xeon processor 1.8 GHz, 512-KB cache	277599-B21	
	Intel Xeon processor 2.0 GHz, 512-KB cache	277600-B21	
	Intel Xeon processor 2.2 GHz, 512-KB cache	267805-B21	
	Intel Xeon processor 2.4 GHz, 512-KB cache	284033-B21	
	Intel Xeon processor 2.6 GHz, 512-KB cache	310563-B21	
	Intel Xeon processor 2.8 GHz, 512-KB cache	284035-B21	
	Note: When adding an additional processor, both processors must have the same speed and cache size.		
Memory (RDRAM)	512-MB Memory Module Upgrade Kit (800-MHz ECC)	103996-B21	
	256-MB Memory Module Upgrade Kit (800-MHz ECC)	157341-B21	
	128-MB Memory Module Upgrade Kit (800-MHz ECC)	157338-B21	
	Note: Memory must be installed in like pairs. Option kits contain one memory module. Only 800-MHz speed is qualified.		
Monitors	TFT8030 Flat Panel Color Monitor (18-inch, Carbon/Silver)	234362-xxx	
	TFT7020 Flat Panel Color (Monitor 17-inch, Carbon/Silver, baseless)	253218-xxx	
	TFT7020 Flat Panel Color Monitor (17-inch, Carbon/Silver, built in speakers)	253217-xxx	
	TFT5030 Flat Panel Color Monitor (15-inch, Carbon/Silver)	228134-xxx	
	TFT5030 Flat Panel Monitor (15-inch, Carbon/Silver, baseless)	250198-xxx	
	TFT5017 Flat Panel Color Monitor (15-inch, Carbon/Silver)	263874-xxx	
	TFT5017 Flat Panel Color Monitor (15-inch, built-in speakers)	279414-xxx	
	P1220 CRT Color Monitor (22-inch, Carbon/Silver)	244374-xxx	
	P920 CRT Color Monitor (19-inch, Carbon/Silver)	244375-xxx	
	P720 CRT Color Monitor (17-inch, Carbon/Silver)	244373-xxx	
	V7550 CRT Color Monitor (17-inch, Carbon/Silver)	261611-xxx	
	S9500 CRT Monitor (19-inch, Carbon/Silver)	261615-xxx	
	S7500 CRT Monitor (17-inch, Carbon/Silver)	261606-xxx	
	S5500 CRT Monitor (15-inch Carbon/Silver)	261602-xxx	
	Note: AssetControl monitor. AssetControl features are accessible with Compaq Workstations featuring Intelligent Manageability.		
Graphics	Matrox G200 Quad Multi-monitor Series with cables for analog output (PCI)	159513-B21	
	Matrox G200 Quad Multi-monitor Series with cables for DVI output (PCI)	179597-B21	
	Matrox G200 Quad MMS DVI Upgrade Cable Kit (for option kit 159513-B21)	170840-B21	
	Matrox Millennium G550 with analog and DVI cables (AGP)	250227-B21	
	Matrox Millennium G450 (AGP)	202389-B21	
	NVIDIA Quadro2 EX (AGP)	250066-B21	
	NVIDIA Quadro4 550 XGL (AGP)	290648-B21	
	NVIDIA Quadro4 750 XGL (AGP)	270731-B21	
	NVIDIA Quadro4 900 XGL (AGP)	284279-B21	
	NVIDIA Quadro4 200 NVS (AGP)	273304-B21	
	DVI pigtail cable upgrade kit (used with Quadro4 200 NVS)	284281-B21	
	NVIDIA Quadro4 400 NVS (PCI)	273305-B21	
	DVI pigtail cable upgrade kit, quantity 2 (used with Quadro4 400 NVS)	284282-B21	
	ATI Fire GL 8800 (AGP)	271686-B21	
	3DLabs Wildcat III 6110 (AGP Pro 4X)	271685-B21	
	Diskette Drives	250-MB ATAPI ZIP	294416-B22
		250-MB ATAPI ZIP Media 3-Pack	217896-B21

Options

Tape Drives	TR5 10/20-GB	294243-B22	
	TR5 10/20-GB Media 3-pack	125782-B21	
	33/66GB VXA-1 IDE	237109-B22	
	33/66GB VXA-1 SCSI	237108-B22	
	33/66GB VXA-1 Media 2-pack	237111-B21	
	VXA-1 Cleaning Cartridge	237110-B21	
Hard Drives	Ultra3 (Ultra160) SCSI Drives		
	73-GB Ultra160 SCSI 10,000 rpm	250023-B21	
	36-GB Ultra160 SCSI 10,000 rpm	191189-B21	
	36-GB Ultra 160 SCSI 15,000 rpm	250022-B21	
	18-GB Ultra160 SCSI 15,000 rpm	191188-B21	
	18-GB Ultra160 SCSI 10,000 rpm	159764-B21	
	Ultra ATA Drives		
	120-GB Ultra ATA 100 7200 rpm Quiet Seek and Quiet Idle	250021-B21	
	80-GB Ultra ATA 100 7200 rpm Quiet Seek and Quiet Idle	250020-B21	
	40-GB Ultra ATA 100 7200 rpm Quiet Seek and Quiet Idle	201066-B21	
	20-GB Ultra ATA 100 7200 rpm Quiet Seek and Quiet Idle	251974-B21	
	Storage Controllers	Adaptec 29160N Ultra160 Single Channel SCSI Controller	157810-B21
		Adaptec 2100S Ultra160 (U3) Single Channel RAID Controller	192842-B21
		5 Device SCSI Cable	230777-B21
Biometrics	USB Biometric FIT Device (Carbon)	240238-B21	
Multimedia	48X CD-ROM	187217-B22	
	16X/40X DVD-ROM Read	280625-B22	
	16X Combo CD-RW/DVD-ROM	273504-B22	
	40X/12X/40X CD-RW	268985-B22	
	4.7-GB DVD-RW Drive	272851-B22	
	4.7-GB DVD+RW Drive (2.4X/2.4X/8X DVD-RW and 12X10X32X CD-RW)	306816-B22	
	Labtec Spin-22 Carbon Speakers (NA)	246637-001	
	Labtec Spin-22 Carbon Speakers (EMEA)	246637-022	
	Labtec Spin-22 Carbon Speakers (APD)	246637-031	
	1394 PCI DV and Adobe Software Kit	229966-xxx	
Communications	Compaq NC6136 Fiber Gbit NIC	203539-B21	
	Compaq NC7131 Gigabit Server Adapter PCI (64/44 10/100/1000-T)	158575-B21	
	Lucent V.90 56K PCI Win Modem	239137-xxx	
	Broadcom NetXtreme Based 10/100/1000 Management Gb Adapter	266997-B21	
	V.92 56K SftWin Modem (Philippines, India, Hungary, Russia, Slovakia)	259032-B24	

Options

Uninterruptible Power Systems	Compaq Tower UPS Model T1500h (high voltage, not available in North America)	242688-004
	Compaq Tower UPS Model T1500 (low voltage)	242688-003
	Compaq Tower UPS Model T1000h (high voltage, not available in North America)	242688-002
	Compaq Tower UPS Model T1000 (low voltage)	242688-001
	Compaq Tower UPS Model T700h (high voltage, not available in North America)	295372-B22
	Compaq Tower UPS Model T700 (low voltage)	295372-B21
Other	PS/2 2-Button Scroll Mouse (carbon)	170299-B22
	PS/2 3-Button Scroll Mouse (carbon)	269192-B23
	USB 2-Button Scroll Mouse	195255-B25
	USB 2-Button Optical Scroll Mouse	265985-B21
	PS/2 Easy Access Keyboard	267145-xx8
	USB Easy Access Smartcard Keyboard	267147-xx8
	PS/2 Easy Access Keyboard 8-Button (Carbon)	202109-xx8
	Logitech Cordless Desktop (Keyboard and Mouse)	251385-xx8
	Spaceball 4000 3D Motion Controller (carbon)	112138-B22
	1394 Firewire PCI Card	277824-B21
	Rack Fixed Shelf	303606-B21
	Kensington Security Lock	294316-B21
	High-speed USB 2.0 PCI Card	287636-B21
	Support Software CD	Annual Subscription
Single CD-ROM (current month)		272505-001

Memory

Compaq Evo Workstation W6000

STANDARD MEMORY

256-MB of 800-MHz ECC RDRAM is standard. Memory must be installed in like pairs. (Only 800-MHz memory speed is supported.)

STANDARD MEMORY PLUS OPTIONAL MEMORY

Support for up to 1280 MB of 800-MHz ECC RDRAM is available with the installation of optional Memory Kits. Memory must be installed in like pairs.

STANDARD MEMORY REPLACED WITH OPTIONAL MEMORY

Support for up to 2 GB of 800-MHz ECC RDRAM is available with the removal of the standard 128-MB RDRAM modules and the installation of optional 512MB 800-MHz ECC RDRAM Kits. Memory must be installed in like pairs

Note: This chart does not represent all possible memory configurations. Memory must be installed in like pairs. Option kits contain one memory module.

Memory		Memory Channel A		Memory Channel B	
		XMM1	XMM2	XMM3	XMM4
Standard	256 MB	128 MB	CRIMM	128 MB	CRIMM
Optional	512 MB	128 MB	128 MB	128 MB	128 MB
Optional	768 MB	128 MB	256 MB	128 MB	256 MB
Maximum	1024 MB	256 MB	256 MB	256 MB	256 MB
Maximum	2048 MB	512 MB	512 MB	512 MB	512 MB

Following are memory options available from Compaq:

- 512-MB Memory Kit (800 MHz ECC RDRAM) 103996-B21
- 256-MB Memory Kit (800 MHz ECC RDRAM) 157341-B21
- 128-MB Memory Kit (800 MHz ECC RDRAM) 157338-B21

Memory

Compaq Evo Workstation W6000

STANDARD MEMORY

512-MB of 800-MHz ECC RDRAM is standard. Memory must be installed in like pairs. (Only 800-MHz memory speed is supported.)

STANDARD MEMORY PLUS OPTIONAL MEMORY

Support for up to 1536 MB of 800-MHz ECC RDRAM is available with the installation of optional ECC RDRAM Kits. Memory must be installed in like pairs.

STANDARD MEMORY REPLACED WITH OPTIONAL MEMORY

Support for up to 2 GB of 800-MHz ECC RDRAM is available with the removal of the standard 128-MB RDRAM modules and the installation of optional 512MB 800-MHz ECC RDRAM Kits. Memory must be installed in like pairs.

Note: This chart does not represent all possible memory configurations. Memory must be installed in like pairs. Option kits contain one memory module.

Memory		Memory Channel A		Memory Channel B	
		XMM1	XMM2	XMM3	XMM4
Standard	512 MB	256 MB	CRIMM	256 MB	CRIMM
Optional	1024 MB	256 MB	256 MB	256 MB	256 MB
Optional	2048 MB	512 MB	512 MB	512 MB	512 MB

Following are memory options available from Compaq:

- 512-MB Memory Kit (800 MHz ECC RDRAM) 103996-B21
- 256-MB Memory Kit (800 MHz ECC RDRAM) 157341-B21
- 128-MB Memory Kit (800 MHz ECC RDRAM) 157338-B21

Memory

Compaq Evo Workstation W6000

STANDARD MEMORY

1 GB of 800-MHz ECC RDRAM is standard. Memory must be installed in like pairs. (Only 800-MHz memory speed is supported.)

STANDARD MEMORY PLUS OPTIONAL MEMORY

Support for up to 2 GB of ECC RDRAM. Memory must be installed in like pairs.

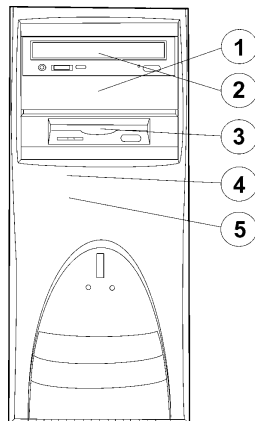
Note: This chart does not represent all possible memory configurations. Memory must be installed in like pairs. Option kits contain one memory module.

Memory		Memory Channel A		Memory Channel B	
		XMM1	XMM2	XMM3	XMM4
Standard	1024 MB	512 MB	CRIMM	512 MB	CRIMM
Optional	2048 MB	512 MB	512 MB	512 MB	512 MB

Following are memory options available from Compaq:

- 512-MB Memory Kit (RDRAM RIMM, 800 MHz) 103996-B21
- 256-MB Memory Kit (RDRAM RIMM, 800 MHz) 157341-B21
- 128-MB Memory Kit (RDRAM RIMM, 800 MHz) 157338-B21

Storage



DRIVE SUPPORT

	Quantity Supported	Position Supported	Controller
1.44-MB Diskette Drive	Up to 1	1, 2, 3	Integrated
CD-ROM Drive	Up to 1	1, 2	Integrated EIDE
ATAPI ZIP Drive	Up to 1	1, 2	Integrated EIDE
DVD-ROM Drive	Up to 1	1, 2	Integrated EIDE
CD-RW Drive	Up to 1	1, 2	Integrated EIDE
DVD+RW	Up to 1	1	Integrated EIDE
Combo CD-RW/DVD-ROM	Up to 1	1, 2	Integrated EIDE
Tape Drive	Up to 1	1, 2	Integrated EIDE

Hard Drives

Ultra3 (Ultra160) SCSI Drives

1-inch	Quantity Supported	Position Supported	Controller
73-GB 10,000 rpm	Up to 3	1, 2, 4, 5	Integrated Ultra160 SCSI Controller
36-GB 10,000 rpm			
36-GB 15,000 rpm			
18-GB 15,000 rpm			
18-GB 10,000 rpm			

Ultra ATA Drives

1-inch	Quantity Supported	Position Supported	Controller
20-GB 7200 rpm	Up to 3	1, 2, 4, 5	Integrated EIDE
40-GB 7200 rpm			
40-GB 7200 rpm			
80-GB 7200 rpm			
120-GB 7200 rpm			

Maximum Storage Capacity

Internal	360 GB (assumes two removable media drives installed)
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Technical Specifications

System Unit	Tower Dimensions (HxWxD)	17.65 x 6.6 x 17.61 in/44.83 x 16.76 x 44.73 cm		
	Weight (standard configuration)	26 lb/12 kg		
	Power Supply	Operating Voltage Range	90 VAC to 264 VAC	
		Rated Voltage Range	100 VAC to 120 VAC; 200 VAC to 240 VAC	
		Rated Line Frequency	50 Hz to 60 Hz	
		Rated Input Current	8.6A @ 115 VAC; 4.3A @ 230 VAC	
		Maximum Rated Power	460-Watt output	
		Physical Dimensions	5.9 x 3.85 x 6.3 in/15 x 9.8 x 16 cm	
		Weight	4.5 lb/2.05 kg	
	Temperature (Values are subject to change)	Operating	50° to 95°F/10° to 35°C	
		Non-operating	4° to 140°F/-15° to 60°C	
Humidity (non-condensing) (Values are subject to change)	Operating	20% to 80%		
	Non-operating	10% to 90%		
Maximum Altitude (nonpressurized)	Operating	10,000 ft/3,048 m		
	Non-operating	30,000 ft/9,144 m		
Compaq Easy Access Keyboard	Dimensions (HxWxD)	18.3 x 6.3 x 1.4 in/46.48 x 16.0 x 3.56 cm		
	Weight	Approximately 2 lb/0.9 kg		
	Electrical	Operating Voltage	+5VDC ± 5%	
		Power Consumption	50 mA maximum (with 3 LEDs on)	
		System Interface	PS/2 mini-din connector	
		ESD	CE level 4, 15 kV air discharge	
		EMI-RFI	Conforms to FCC rules for a Class B computing device	
		PC98	Functionally compliant	
	Mechanical	Languages	30+ available	
		Keycaps	Low-profile design	
		Switch Actuation	55 g nominal peak force with tactile feedback	
		Switch Life	20 million keystrokes (using Hasco modified tester)	
		Switch Type	Contamination resistant membrane	
		Key Leveling Mechanism	For all double wide and greater length keys	
		Cable Length	6 ft/1.8 m	
		PC98-99	Mechanically compliant	
		Acoustics	50 dBA maximum sound pressure level	
	Environmental	Operating Temperature	50° to 122° F/10° to 50° C	
		Non-operating Temperature	-22° to 140° F/-30° to 60° C	
		Operating Humidity	10% to 90% (non condensing at ambient)	
		Non-operating Humidity	20% to 80% (non condensing at ambient)	
Operating Shock		40 g, 6 surfaces		
Non-operating Shock		80 g, 6 surfaces		
Operating Vibration		2 g peak acceleration		
Non-operating Vibration		4 g peak acceleration		

Technical Specifications

1.44-MB Diskette Drive	Diskette Size	3.5 in/8.89 cm		
	LED Indicators (front panel)	Green		
	Read/Write Capacity per Diskette (high/low)	1.44 MB/720 KB		
	Drive Height	One-third		
	Drive Rotation	300 rpm		
	Transfer Rate (high/low)	500/250 Kb/s		
	Bytes/Sector	512		
	Sectors/Track (high/low)	18/9		
	Tracks/Side (high/low)	80/80		
	Access Times	Track-to-Track (high/low)	3/6 ms	
		Average (high/low)	94/173 ms	
		Settling Time	15 ms	
		Latency Average	100 ms	
	Cylinders (high/low)	80/80		
Read/Write Heads	Two			
Compaq 3-Button Mouse	Dimensions/Weight	Height	1.42 in/3.6 cm	
		Length	4.17 in/10.7 cm	
		Width	2.87 in/7.4 cm	
		Weight	5.20 oz/150 g	
	Environmental	Operating Temperature	32° to 104° F/0° to 40° C	
		Non-operating Temperature	-4° to 140° F/-20° to 60°C	
		Operating Humidity	10% to 90% (non condensing at ambient)	
	Mechanical	Resolution	400 ± 20% DPI	
		Tracking Speed	10 in/s Maximum	
		Switch Life	1,000,000 operations (using Hasco modified tester)	
		Switch Type	Micro-switches	
		Tracking Mechanism Life	155 miles/250 km at average speed of 10 in/s	
		Cable Length	6 ft/1.8 m	
		PC98-99	Mechanically compliant	
	Regulatory Approvals	Compliant	UL, CSA, FCC, CE Mark, TUV, TUV GS, VCCI, BSMI, C-Tick	

Technical Specifications

Ultra160 SCSI Hard Drives <i>250023-B21</i>	73 GB	Capacity	73,000 MB	
		Height	1.0 in/40.64 mm	
		Width	3.5 in/88.9 mm	
		Interface	Ultra160 SCSI	
		Synchronous Transfer Rate (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.6 ms
			Average	5.2 ms
			Full-Stroke	12 ms
			Rotational Speed	10,000 rpm
		Logical Blocks	142,264,000	
	Operating Temperature	50° to 95°F/10° to 35°C		
	36 GB	Capacity	36,400 MB	
	<i>191189-B21</i>	Height	1.0 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Interface	Ultra160 SCSI	
		Synchronous Transfer Rate (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.6 ms
			Average	4.7 ms
			Full-Stroke	12 ms
			Rotational Speed	10,000 rpm
		Logical Blocks	71,132,000	
	Operating Temperature	50° to 95°F/10° to 35°C		
	36 GB	Capacity	36419.2 MB	
	<i>250022-B21</i>	Height	1 in/25.4mm	
		Width	4.0in/101.6mm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.4 ms
			Average	3.8 ms
			Full-Stroke	7 ms
			Rotational Speed	15,000 rpm
		Physical Configuration	Bytes/Sector	512
	Logical Blocks		71,132,000	
	Operating Temperature	50° to 95°F/10° to 35°C		

Technical Specifications

Ultra160 SCSI Hard Drives <i>(continued)</i>	18 GB <i>191188-B21</i>	Capacity	18,209 MB	
		Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Interface	Ultra160 SCSI	
		Synchronous Transfer Rate (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.8 ms
			Average	4.1 ms
			Full-Stroke	7.7 ms
			Rotational Speed	15,000 rpm
		Logical Blocks	35,566,000	
	Operating Temperature	50° to 95°F/10° to 35°C		
	18 GB <i>159764-B21</i>	Capacity	18,209 MB	
		Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Interface	Ultra160 SCSI	
		Synchronous Transfer Rate (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.6 ms
			Average	4.7 ms
			Full-Stroke	12 ms
			Rotational Speed	10,000 rpm
		Logical Blocks	35,566,000	
	Operating Temperature	50° to 95°F/10° to 35°C		
Ultra ATA Hard Drives	120 GB <i>250021-B21</i>	Capacity	120,000 MB	
		Height	1 in/2.54 cm	
		Width	3.5 in/8.89 cm	
		Interface	Ultra ATA/100	
		Synchronous Transfer Rate (Maximum)	100 MB/s	
		Seek Time (typical reads, including settling)	Single Track	1.2 ms (2.7 ms quiet seek)
			Average	8.0 ms (14.3 ms quiet seek)
			Full-Stroke	18.0 ms (24.1 ms quiet seek)
			Rotational Speed	7200 rpm
		Logical Blocks	234,441,648	
	Operating Temperature	41° to 131° F/5° to 55° C		

Technical Specifications

Ultra ATA Hard Drives <i>(continued)</i> 250020-B21	80 GB	Capacity	80,000 MB	
		Height	1 in/2.54 cm	
		Width	3.5 in/8.89 cm	
		Interface	Ultra ATA/100	
		Synchronous Transfer Rate (Maximum)	100 MB/s	
		Seek Time (typical reads, including settling)	Single Track	1.2 ms (2.7 ms quiet seek)
			Average	8.0 ms (14.3 ms quiet seek)
			Full-Stroke	18.0 ms (24.1 ms quiet seek)
			Rotational Speed	7200 rpm
		Logical Blocks	157,278,240	
	Operating Temperature	41° to 131° F/5° to 55° C		
	40 GB	Capacity	40,000 MB	
	201066-B21	Height	1 in/2.54 cm	
		Width	3.5 in/8.89 cm	
		Interface	Ultra ATA	
		Synchronous Transfer Rate (Maximum)	100 MB/s	
		Seek Time (typical reads, including settling)	Single Track	1.2 ms (2.7 ms quiet seek)
			Average	8 ms (10.1 ms quiet seek)
			Full-Stroke	18.0 ms (21.1 ms quiet seek)
			Rotational Speed	7200 rpm
		Logical Blocks	78,165,360	
	Operating Temperature	41° to 131° F/5° to 55° C		
	20 GB	Capacity	20,000 MB	
	251974-B21	Height	1 in/2.54 cm	
		Width	3.5 in/8.89 cm	
		Interface	Ultra ATA	
		Synchronous Transfer Rate (Maximum)	100 MB/s	
		Seek Time (typical reads, including settling)	Single Track	1.2 ms (2.7 ms quiet seek)
			Average	8 ms (10.1 ms quiet seek)
			Full-Stroke	18.0 ms (21.1 ms quiet seek)
			Rotational Speed	7200 rpm
		Logical Blocks	39,102,336	
	Operating Temperature	41° to 131°F/5° to 55°C		

Technical Specifications

16X/40X DVD-ROM Read	Height	5.25-inch, half-height		
	Interface type	ATAPI		
	Dimensions— External, Excluding Bezel (W x H)	5.88 x 1.71 (149.5 x 43.5 mm)		
	Disc diameter	5 in, 3 in (12 cm, 8 cm)		
	Disc thickness	0.05 inch (1.2 mm)		
	Track pitch	1.6 μ m (CD), 0.74 μ m (DVD)		
	Disc center hole diameter	0.6 inch (15 mm)		
	Disc formats	DVD-ROM (single and dual layer); DVD-video; DVD-R version 1.0 and 2.0; DVD-RW version 1.0 and 1.1; DVD-R/RW multi-border; DVD+RW; CD-ROM Mode 1 and 2; CD-DA; CD-ROM XA Mode 2, Form 1 and 2; CD-extra; CD-text; CD-I Mode 2, Form 1 and 2; CD-I ready; video CD, CD-bridge; PhotoCD (single and multi-session); CD-R; CD-RW		
	Disc capacity	DVD-ROM	4.7 GB (DVD-5), 8.54 GB (DVD-9), 9.4 GB (DVD-10), 3.95 GB (DVD-R version 1.0), 4.7 GB (DVD-R version 2.0), 4.7 GB (DVD-RW version 1.0 and 1.1), 4.7 GB (DVD+RW)	
		CD-ROM	540 MB (Mode 1, 12 cm), 640 MB (Mode 2, 12 cm), 700 MB (80 minimum CD-R and CD-RW), 180 MB (8 cm)	
	Block size (bytes)	DVD-ROM – 2048; CD-ROM Mode 0 – 2352; CD-ROM Mode 1 – 2352, 2340, 2336, 2048; CD-ROM Mode 2 – 2352, 2340, 2336, 2048		
	Access times (typical reads, including settling)	DVD-ROM single layer	< 120 ms	
		CD-ROM Mode 1	< 90 ms	
		Full stroke DVD	< 240 ms (seek)	
		Full stroke CD	< 160 ms (seek)	
	Data transfer rates	2600 – 6000 KB/s (40X CAV CD-ROM mode)		
		8100 – 21,600 KB/s (16X CAV DVD-ROM mode)		
	Data transfer modes	PIO Mode 4 (16.6 MB/s); Multi-word DMA mode 2 (16.6 MB/s); UltraDMA Mode 3 (44.4 MB/s)		
	Power	Source	Four-pin, DC power receptacle	
		DC power requirement	5 VDC \pm 5%—100 mV ripple p-p	
12 VDC \pm 5%—200 mV ripple p-p				
DC current		5 VDC – <800 mA typical, < 1000 mA maximum		
	12 VDC – < 870 mA typical			
Audio Output Level	0.7 Vrms (typical)			
Configuration Jumper Block	Master, slave, and cable select modes			
Data interface connector	40-pin, shrouded and keyed, flat ribbon			
Environmental (all conditions non-condensing)	Temperature (operating)	41° to 122° F (5° to 50° C)		
	Relative humidity (operating)	10% to 85%		
	Maximum wet bulb temperature (operating)	86° F (30° C)		
Certifications, approvals	MMC II support, multi-read certification, Microsoft WHQL certification, ACA AS/NZS 3548 class B, CNS 13438, C.I.S.P.R. Pub 22, TUV or VDE EN60950, EN 55022, EN55024, SEMKO, NEMKO, DEMKO, FIMKO, EN 60825-1, UL 60950, CSA C22.2 60950-2000,			
Operating systems supported	Microsoft Windows 98, Microsoft Windows NT® 4.0, Microsoft Windows 2000, Windows XP Professional			

Technical Specifications

4.7-GB DVD+RW Drive	Interface	Atapi IDE		
	Media formats written	CD-R, CD-RW, DVD+RW, DVD+R		
	Media capacity	4.7 GB DVD disc/700 MB CD disc		
	Write methods	Disc-at-once, track-at-once, incremental fixed and variable packet		
	Recording/playing time	3 hours DVD (3.3 Mbps)/80 minutes CD		
	Data transfer rates	Write	DVD+R write — 3247 KB/s (2.4X)	
			DVD+RW write — 3247 KB/s (2.4X)	
			CD-R write — 300 KB/s (2X)	
			CD-R write — 600 KB/s (4X)	
			CD-R write — 1200 KB/s (8X)	
		Read	CD-R write — 1,800 KB/s (12X)	
			CD-RW write — 300 KB/s (2X)	
			CD-RW write — 600 KB/s (4X)	
			CD-RW write — 1500 KB/s (10X)	
			Digital audio extraction (minimum) — 1,200 KB/s (8X)	
	CD-ROM, CD-R, CD-RW read — up to 4,800 KB/s (32X)			
	DVD-ROM, DVD+R, DVD+RW read — up to 10,800 KB/s (8X)			
	Data transfer modes	ATA PIO mode 4—16.7 Mbps		
		ATA multi-word DMA mode 2—16.7 Mbps		
		ATA UltraDMA mode 0—16.7 Mbps		
ATA UltraDMA mode 1—24 Mbps mode 2—33 Mbps (default)				
Media formats read	CD-R/CD-ROM, CD-RW, CD-Digital Audio (Red Book) and CD Extra, CD-ROM (Mode 1 - Yellow Book), CD-ROM XA and CD-I (Mode 2/Form 1 - Green Book), CD-ROM XA and CD-I (Mode 2/Form 2 - Green Book), CD-Bridge and Photo-CD (single and multi-session), CD-Video, DVD-ROM, DVD+RW, DVD+R			
Access times	Random	< 125 ms typical		
	Full stroke	< 250 ms typical		
Start-up time	< 4 seconds typical			
Buffer size	2 MB			
Disc diameter	120 mm or 80 mm			
Operating conditions	Temperature	41° to 104°F/5° to 40°C		
	Humidity	10% to 90% (non-condensing)		
Mounting orientation	Horizontal or vertical			
Weight	0.9 kg/2.0 lb			
Approvals/environmental	UL 1695 (US and Canada), CE, FDA, FCC, TUV, C-TICK			
Software supplied	WinDVD 3.2 or later, Roxio Easy CD Creator 5.3 or later, DVD-It 2.5 or later			
Operating systems supported	Microsoft Windows XP Professional, Microsoft Windows 2000 SP2			

Technical Specifications

48X CD-ROM Drive	Disk	Applicable Disk	CD-ROM (Mode 1 and 2), CD-R/W, CD-R Photo CD (Single and Multi-session), Mixed Mode (Audio and Data combined), CDI Ready, CD-XA Ready, CD TEXT, CD EXTRA	
		Capacity	540 MB (Mode 1, 12 cm) 650 MB (Mode 2, 12 cm)	
		Rotational Speed	8750 maximum	
		Diameter	4.7 in, 3.15 in/12 cm, 8 cm	
		Center Hole	0.6 in/1.52 cm diameter	
		Thickness	0.05 in/0.13 cm	
		Track Pitch	1.6 μ m	
		Block Size	Mode 1 Mode 2 CD-DA CD-XA	2,048 bytes 2,340, 2,336 bytes 2,352 bytes 2,328 bytes
		Interface	IDE	
		Access Times (typical)	Random Full-Stroke	< 100 ms < 150 ms
	Audio Output Level	Line-Out	0.7 VRMS	
	Data Transfer Rate	Sustained Variable	150 KB/s (1X, using audio disc) 3,000 to 7,200 KB/s	
	Cache Buffer	128 KB minimum		
	Start-up Time (typical)	< 7 s		
	Stop Time	< 4 s		
	Operating Conditions	Temperature Humidity	41° to 113° F/5° to 45° C 10% to 80%	
	Dimensions	(HxWxD, maximum) Weight	1.7 x 5.9 x 8.19 in/4.29 x 15 x 20.8 cm 2.65 lb/1.2 kg	

Technical Specifications

40X/12X/40X CD-RW Drive	Interface	ATAPI IDE		
	Media formats written	CD-R and CD-RW		
	Media capacity	700 MB		
	Write methods	Disc-at-once, track-at-once, session-at-once, fixed packet, and variable packet		
	Recording/playing time	80 minutes		
	Data transfer rates	Sustained	CD-R write—6,000 Kbps (40X) (CLV) CD-RW write (1-4X media) —6,000 Kbps (4X) CD-RW write (4-10X media) —1,800 Kbps (12X) CD-RW read—6,000 Kbps (40X) CD-RW read—1,800 Kbps (12X) Digital audio extraction (minimum) —4,800 Kbps (32X)	
		Variable	CD-ROM, CD-R read—1,500 to 6,000 Kbps (10X to 40X) CD-R write – 2,400 to 6,000 kbps (16X to 40X)	
	Data transfer modes	ATA PIO mode 4—16.7 Mbps ATA multi-word DMA mode 2—16.7 Mbps UltraDMA mode 0—16.7 Mbps UltraDMA mode 1—24 Mbps mode 2—33 Mbps (default)		
	Media formats read	audio, CD-ROM (modes 1 and 2), CD-ROM XA (mode 2, forms 1 and 2), single- or multi-session photo CD, CD-I, video CD, CD-text		
	Access times	Random	< 120 ms typical	
		Full stroke	< 200 ms typical	
	Start-up time	Single	< 7 seconds typical	
		Multi-session	< 30 seconds typical	
		Stop time	< 4 seconds	
		Block size	Mode 1—2,048/2,352 bytes Mode 2, Form 1—2,048/2,328/2,336/2,340/2,352 bytes Mode 2, Form 2—2,328/2,336/2,340/2,352 bytes CD-DA—2,352/2,368 bytes	
	Disc diameter	4.72 in/12.0 cm or 3.15 in/8.0 cm		
	Track pitch	1.6 µm		
	Disc loading mechanism	Half-height, tray load		
	Operating conditions	Temperature	Operating 41° to 113° F/5° to 45° C	
		Humidity	10% to 80%	
	Mounting orientation	Horizontal or vertical		
Dimensions	Fits in a standard 5.25-inch drive bay			
Weight	2.6 lb/.2 kg			
Approvals/environmental	UL 94 and 1950, CSA, CE, FDA			
Operating systems supported	Microsoft Windows XP, Microsoft Windows 2000, Microsoft Windows 98, Microsoft Windows NT 4.0			

Technical Specifications

Intel PRO/100 + Management Adapter	Network Interface	10Base-T or 100Base-TX		
	Expansion Bus Architecture	PCI 2.2		
	Network Transfer Rate	10Base-T (Half-Duplex)	10 Mb/s	
		10Base-T (Full-Duplex)	20 Mb/s	
		100Base-TX (Half-Duplex)	100 Mb/s	
		100Base-TX (Full-Duplex)	200 Mb/s	
	Connectors	RJ-45		
	Standards Compliance	10-MB/s Ethernet	IEEE 802.3	
		100-Mb/s Ethernet	IEEE 802.3u	
	I/O Address	Auto-configured		
	Remote Wakeup	Yes		
	Operating Temperature	0° to 55° F/10° to 35° C		
	Operating Humidity (non-condensing)	85% at 131° F/55° C		
	Operating Altitude	10,000 ft/3,048 m		
	Communication Processor	Intel 82559		
OS Driver Support	Windows NT 4.0	NDIS 3.0, 4.0 Compliant		
	Windows 95, 98, 2000, XP Pro	NDIS 3.0, 4.0, 5.0 Compliant		
	Novell® NetWare® Server v. 3.x, 4.x and 5.0	ODI Compliant		
	SunSoft Solaris™	Not supported		
	SCO® UnixWare®, OpenDesktop, OpenServer®	Supported		

Technical Specifications

Matrox Millennium G550 AGP Graphics Controller	Form factor	Low profile (LP) board with ATX bracket attached (kit also includes a Small Form Factor (SFF) bracket)	
	Bus type	AGP 4X, AGP 2X, and AGP 1X	
	Standard memory	32-MB, high-speed DDR	
	DAC speed	360-MHz RAMDAC; secondary 230-MHz RAMDAC	
	Data path	64-bit DDR external bus to frame buffer memory/256-bit internal	
	Internal bus width	256-bit DualBus	
	Memory interface	64-bit DDR Memory	
	Frame buffer	32 MB	
	Operating systems supported	Microsoft Windows 2000, Microsoft Windows 98, Microsoft Windows NT 4.0, Microsoft Windows XP Professional	
	Two integrated RAMDACs	Yes	
	3-D engine acceleration	Matrox HeadCasting* engine, two dual-textured 3-D pixels/clock for fast 3-D game play, dual pixel pipelines with dual texturing units per pipeline, floating point 3-D setup engine with dynamically re-allocatable resources; Microsoft DirectX Environment-Mapped Bump Mapping; Vibrant Color Quality rendering; bilinear, 8-sample-per-pixel trilinear, and anisotropic filtering; Microsoft DirectX and OpenGL® alpha blending modes; Z-buffer support	
	3-D features	Single cycle multi-texturing	Yes
		Environment-mapped bump mapping	Yes
		Internal rendering	32-bit
		Source textures	Up to 32-bit
Maximum texture size		2048 x 2048	
32-bit color output		Yes	
32-bit independent Z-buffer		Yes	
Stencil buffering		Yes	
AGP texturing		Yes	
DualHead 3-D display features	Trilinear filtering	Yes	
	Microsoft DirectX support	Yes	
	OpenGL support	Yes, through Matrox	
	HeadCasting, Microsoft DirectX compliant, dual texturing units per pixel pipeline, two pixel pipelines, single-cycle multi-texturing, environment-mapped bump mapping, 32-bit internal rendering precision, up to 32-bit source textures, 32-bit color output, bilinear, trilinear and anisotropic 3-D filtering, 32-bit independent Z-buffer, OpenGL support		
	Other 3-D features Alpha blending, fogging, specular highlighting, environment mapping, stencil buffering, triple buffering, AGP texturing		
Other	Texture mapping support; true color RGB, flat, and Gouraud shading; Direct3-D support; anisotropic filter; perspective-correct texture mapping; specular highlighting (any color); hardware dithering (including dithering of LUT textures); sort-dependent antialiasing; vertex and table fogging; dual texture mapping; Plug-and-Play; 0.18-micron technology (lower heat/power consumption); high-quality DVD playback with DVDMax; color space conversion; QuickDraw supported DCI and Microsoft DirectX and OpenGL blend modes; Microsoft DirectDraw support; support for picture-in-picture and multiple video windows; Unique Motion Video Rendering support		
Optional software bundles (not included)	Matrox Virtual Presenter for Microsoft PowerPoint®; Digimask™ System, HeadFone™ by LipSinc; The Matrox Software DVD Player; eDualHead browser enhancements (PageWrap, PageLog, and PageJump); Matrox PowerDesk		

Technical Specifications

Matrox Millennium G550 AGP Graphics Controller <i>(continued)</i>	DualHead configurations	VGA monitor/analog flat panel + VGA monitor/analog flat panel VGA monitor/analog flat panel + television Digital flat panel + VGA monitor/analog flat panel Digital flat panel + television
	DualHead 2-D display features	DualHead Multi-Display support; DualHead Browser Enhancement Suite, DualHead DVDMax, DualHead Zoom, DualHead Clone, DVDMax, DualHead MultiDesk, DualHead TV-out, DualHead Snapshot, Dual DVI support; True Multi-Display support with Microsoft Windows 2000
	DualHead display technology chip specifications	Multiple independent displays with a single AGP card: analog flat panel (RGB monitor)/analog flat panel (RGB monitor); digital flat panel/digital flat panel
	Note: System recommendations for HeadCasting and DVD—450-MHz or higher computer; 128 MB RAM; 56-K or higher modem with minimum 40-K connection, microphone, and DVD-ROM; Internet Explorer 5.5 or higher, Microsoft PowerPoint 2000 or Microsoft PowerPoint XP (for Matrox Virtual Presenter)	

Resolutions Supported	Maximum Colors Supported	Refresh Rates
640 x 480	16 million	200 Hz vertical, 130 kHz horizontal
800 x 600	16 million	200 Hz vertical, 130 kHz horizontal
1024 x 768	16 million	160 Hz vertical, 130 kHz horizontal
1152 x 864	16 million	150 Hz vertical, 130 kHz horizontal
1280 x 1024	16 million	120 Hz vertical, 130 kHz horizontal
1600 x 1200	16 million	100 Hz vertical, 130 kHz horizontal
1800 x 1440	16 million	90 Hz vertical, 120kHz horizontal
1920 x 1440	16 million	85 Hz vertical, 115 kHz horizontal
2048 x 1536	16 million	85 Hz vertical, 110 kHz horizontal

Secondary Resolutions Supported	Maximum Color Depths (bpp)	Refresh Rates
640 x 480	16 million	200 Hz vertical, 130 kHz horizontal
800 x 600	16 million	200 Hz vertical, 130 kHz horizontal
1024 x 768	16 million	160 Hz vertical, 130 kHz horizontal
1152 x 864	16 million	140 Hz vertical, 130 kHz horizontal
1280 x 1024	16 million	120 Hz vertical, 130 kHz horizontal
1600 x 1200	16 million	100 Hz vertical, 130 kHz horizontal

Technical Specifications

Matrox Millennium G450 Graphics Controllers	Form Factor	ATX																										
	Bus Type	AGP 1X, 2X, 4X																										
	Standard Memory	32 MB																										
	DAC Speed	360 MHz (secondary DAC: 200 MHz)																										
	Data Path	64-bit DDR External/256-bit Internal																										
	Internal Bus Width	256-bit DualBus																										
	Memory Interface	64-bit DDR Memory																										
	Frame Buffer	32 MB																										
	Two Integrated RAMDACs	Yes																										
	Engine Acceleration	3 ROP bitBLT, line draw, text, color expansion, basic video color conversion and scaling, triangle setup engine																										
	Output	Analog, 2 ports																										
	OS Support	Microsoft Windows 2000, Microsoft Windows XP Professional, Windows 98 and Windows NT 4.0 available from Compaq.																										
	Other	Texture mapping support, flat and Gouraud shading, direct 3D support, Anisotropic Filter, perspective texture, specular highlighting, wireframe, dithering, full scene anti-aliasing, vertex fog, dual texture mapping, Plug-and-Play AGP 2X and AGP 4X, 0.18-micron technology (lower heat/power consumption), high-quality DVD playback with full access to Windows, Color Space Conversion, Quick Draw support, DCI and DirectX video playback, MS DirectDraw support																										
	3D Features	<table border="0"> <tr> <td>Single-cycle multi-texturing</td> <td>Yes</td> </tr> <tr> <td>Environment-Mapped Bump Mapping</td> <td>Yes</td> </tr> <tr> <td>Internal Rendering</td> <td>32-bit</td> </tr> <tr> <td>Source Textures</td> <td>Up to 32-bit</td> </tr> <tr> <td>Maximum Texture Size</td> <td>2048 x 2048</td> </tr> <tr> <td>Hardware non-power-of-2 textures</td> <td>Yes</td> </tr> <tr> <td>32-bit Color Output</td> <td>Yes</td> </tr> <tr> <td>32-bit Independent Z-buffer</td> <td>Yes</td> </tr> <tr> <td>Stencil Buffering</td> <td>Yes</td> </tr> <tr> <td>AGP Texturing</td> <td>Yes</td> </tr> <tr> <td>Trilinear Filtering</td> <td>Yes</td> </tr> <tr> <td>DirectX Support</td> <td>Yes</td> </tr> <tr> <td>OpenGL Support</td> <td>Yes</td> </tr> </table>	Single-cycle multi-texturing	Yes	Environment-Mapped Bump Mapping	Yes	Internal Rendering	32-bit	Source Textures	Up to 32-bit	Maximum Texture Size	2048 x 2048	Hardware non-power-of-2 textures	Yes	32-bit Color Output	Yes	32-bit Independent Z-buffer	Yes	Stencil Buffering	Yes	AGP Texturing	Yes	Trilinear Filtering	Yes	DirectX Support	Yes	OpenGL Support	Yes
	Single-cycle multi-texturing	Yes																										
Environment-Mapped Bump Mapping	Yes																											
Internal Rendering	32-bit																											
Source Textures	Up to 32-bit																											
Maximum Texture Size	2048 x 2048																											
Hardware non-power-of-2 textures	Yes																											
32-bit Color Output	Yes																											
32-bit Independent Z-buffer	Yes																											
Stencil Buffering	Yes																											
AGP Texturing	Yes																											
Trilinear Filtering	Yes																											
DirectX Support	Yes																											
OpenGL Support	Yes																											
DualHead Display Features	Multi-Display Mode, DVD Max Mode, DualHead Zoom Mode, DualHead Clone Mode, DualHead TV Output Mode, Single Chip Multi-Monitor Support																											

Technical Specifications

Matrox Millennium G450 Graphics Controllers *(continued)*

Supported Modes

This list assumes setup to be DualHead multi-display running Microsoft Windows 98. If using Windows NT 4.0 or Windows 2000 while in multi-display, primary CRT is limited to modes supported by 2nd CRT.

<i>Primary CRT Color Depths</i>	<i>Color Depths (bpp)</i>	<i>Refresh Rates</i>
640 x 480	8, 16, 24, 32	60 Hz, 72 Hz, 75 Hz, 85 Hz
800 x 600	8, 16, 24, 32	60 Hz, 72 Hz, 75 Hz, 85 Hz
1024 x 768	8, 16, 24, 32	60 Hz, 70 Hz, 75 Hz, 85 Hz
1152 x 864	8, 16, 24, 32	75 Hz
1280 x 960	8, 16, 24, 32	60 Hz, 75 Hz, 85 Hz
1280 x 1024	8, 16, 24, 32	60 Hz, 75 Hz, 85 Hz
1600 x 1200	8, 16, 24, 32	60 Hz, 65 Hz, 70 Hz, 75 Hz, 85 Hz <i>(available in single monitor configuration only)</i>
1800 x 1440	8, 16, 24	60 Hz, 72 Hz, 75 Hz, 85 Hz
1856 x 1392	8, 16, 24	60 Hz, 75 Hz, 85 Hz
1920 x 1440	8, 16, 24	60 Hz, 75 Hz, 85 Hz
2048 X 768	8, 16	60 Hz, 75 Hz
<i>Secondary CRT Color Depths</i>	<i>Color Depths (bpp)</i>	<i>Refresh Rates</i>
640 x 480	16, 32	60 Hz, 72 Hz, 75 Hz, 85 Hz
800 x 600	16, 32	60 Hz, 72 Hz, 75 Hz, 85 Hz
1024 x 768	16, 32	60 Hz, 70 Hz, 75 Hz, 85 Hz
1152 x 864	16, 32	75 Hz
1280 x 960	16, 32	60 Hz, 75 Hz, 85 Hz
1280 x 1024	16, 32	60 Hz, 75 Hz, 85 Hz
1600 x 1200	16, 32	60 Hz, 65 Hz, 70 Hz, 75 Hz, 85 Hz

Technical Specifications

Matrox G200 Quad Multi-Monitor Series (MMS) Graphics Controller	Dimensions (HxW)	4.5x8 in/11.43x20.32 cm		
	Refresh Rate (per display)			
	Aspect Ratio	Resolution	Vertical	Horizontal
	4:3/5:4	640 x 480	60 to 200 Hz	31 to 102 kHz
		800 x 600	60 to 200 Hz	38 to 114 kHz
		1024 x 768	60 to 140 Hz	48 to 113 kHz
		1152 x 864	60 to 120 Hz	54 to 110 kHz
		1280 x 1024	60 to 100 Hz	64 to 107 kHz
	16:9/16:10	1600 x 1200	60 to 90 Hz	75 to 113 kHz
		1800 x 1440	60 to 70 Hz	89 to 104 kHz
856 x 480		60 to 200 Hz	30 to 108 kHz	
1280 x 720		60 to 100 Hz	44 to 76 kHz	
1600 x 1024		60 to 100 Hz	64 to 108 kHz	
	1920 x 1080	60 to 80 Hz	70 to 94 kHz	
	1920 x 1200	60 to 76 Hz	75 to 95 kHz	
With DVI digital flat panel displays, the maximum display resolution is 1280 x 1024.				
Maximum refresh rates may not be attainable at the highest display resolutions with 24 or 32-bit color palettes.				
Interface	PCI			
Standard Memory	32-MB SGRAM (8 MB per port)			
DAC Speed	250 MHz			
Data Path	128-bit Internal/64-bit External			
Color Space Conversion	Yes			
Scaling	Yes			
Quick Draw Support	Yes			
DCI & DirectX Video Playback	Yes			
Direct3D Support	Yes			
Engine Acceleration	3 ROP bitBLT, Line Draw, Text, Color Expansion, Basic Video Color Conversion and Scaling, Triangle Setup Engine			
Output	Two output ports, which require 2 adapter cables to connect analog or digital output displays			
	Analog Display Support	2 RGB cables support two DB-15 analog displays per cable		
	DVI (Digital Visual Interface) Display Support	DVI cable option kit provides two DVI cables for connecting two DVI compliant displays per cable		
	Display options supported	Four analog displays via two RGB cables Four DVI displays via two DVI cables Two analog displays via one RGB cable and two DVI displays via one DVI cable		
Other	PCI bus-mastering, texture mapping support, flat and Gouraud shading, Anisotropic Filter, perspective texture, specular highlighting, dithering, full scene anti-aliasing, Vertex fog			
OS Support	Windows 2000 (not available for Chinese, Taiwanese, or Korean languages), Microsoft Windows XP Professional, and Windows NT 4.0			

Technical Specifications

NVIDIA Quadro4 900 XGL Graphics Controller	3D/2D Controller	Integrated Quadro4 2D/3D 128-bit graphics processor unit (GPU)	
	VGA Controller	Integrated into the Quadro4 GPU	
	Bus Type	AGP4x	
	RAMDAC	350 MHz	
	Speed & Type	325MHz 4Mx32DDR 5ns	
	Memory Amount	128 MB	
	Controller Clock Speed	300 MHz	
	Color Planes	32-bit color buffer	
	Overlay Planes	1 16-bit Video overlay plane, software emulation for OpenGL overlay planes	
	Stencil Planes	8-bit stencil buffer	
	Alpha Planes	8-bit alpha buffer	
	Z-Buffer	24-bit	
	Total Bits/Pixel	64	
	Maximum Vertical Refresh Rate	120 Hz	
	Multi-Display Support	Yes	
	Operating Systems	Microsoft Windows 2000, and Microsoft Windows XP	
		Resolution	Maximum Colors Supported
	640 x 480	16.7 M	120 Hz
	800 x 600	16.7 M	120 Hz
	1024 x 768	16.7 M	120 Hz
	1152 x 864	16.7 M	120 Hz
	1280 x 1024	16.7 M	120 Hz
	1600 x 1200	64 K	100 Hz
	1600 x 1200	16.7 M	85 Hz
	1920 x 1080	64 K	100 Hz
	1920 x 1080	16.7 M	75 Hz
	1920 x 1200	64 K	85 Hz
	1920 x 1200	16.7 M	70 Hz
	1920 x 1440	64 K	75 Hz
	1920 x 1440	16.7 M	60 Hz
	2048 x 1536	64 K	60 Hz

Technical Specifications

NVIDIA Quadro4 750 XGL Graphics Controller	3D/2D Controller	Integrated Quadro4 Pro 2D/3D 128-bit graphics processor unit (GPU)	
	VGA Controller	Integrated into the Quadro4 Pro GPU	
	Bus Type	AGP4x	
	RAMDAC	350 MHz	
	Speed & Type	275 MHz 4Mx32DDR 5ns	
	Memory Amount	64 to 128 MB	
	Controller Clock Speed	275 MHz	
	Color Planes	32-bit color buffer	
	Overlay Planes	1 16-bit Video overlay plane, software emulation for OpenGL overlay planes	
	Stencil Planes	8-bit stencil buffer	
	Alpha Planes	8-bit alpha buffer	
	Z-Buffer	24-bit	
	Total Bits/Pixel	64	
	Maximum Vertical Refresh Rate	120 Hz	
	Multi-Display Support	Yes	
	Operating Systems	Microsoft Windows 2000 and Microsoft Windows XP	
		Resolution	Maximum Colors Supported
	640 x 480	16.7 M	120 Hz
	800 x 600	16.7 M	120 Hz
	1024 x 768	16.7 M	120 Hz
	1152 x 864	16.7 M	120 Hz
	1280 x 1024	16.7 M	120 Hz
	1600 x 1200	64 K	100 Hz
	1600 x 1200	16.7 M	85 Hz
	1920 x 1080	64 K	100 Hz
	1920 x 1080	16.7 M	75 Hz
	1920 x 1200	64 K	85 Hz
	1920 x 1200	16.7 M	70 Hz
	1920 x 1440	64 K	75 Hz
	1920 x 1440	16.7 M	60 Hz
	2048 x 1536	64 K	60 Hz

Technical Specifications

NVIDIA Quadro4 550 XGL Graphics Controller	3D/2D Controller	Integrated Quadro4 Pro 2D/3D 128-bit graphics processor unit (GPU)		
	VGA Controller	Integrated into the Quadro4 GPU		
	Bus Type	AGP4x		
	RAMDAC	350 MHz		
	Speed & Type	200 MHz 4Mx 32 DDR SDRAM		
	Memory Amount	64 MB		
	Controller Clock Speed	270 MHz		
	Color Planes	32-bit color buffer		
	Overlay Planes	1 16-bit Video overlay plane, software emulation for OpenGL overlay planes		
	Stencil Planes	8-bit stencil buffer		
	Alpha Planes	8-bit alpha buffer		
	Z-Buffer	24-bit		
	Total Bits/Pixel	64		
	Maximum Vertical Refresh Rate	120 Hz		
	Multi-Display Support	Yes		
	Operating Systems	Microsoft Windows 2000, and Microsoft Windows XP		
		Resolution	Maximum Colors Supported	Maximum Refresh Rate
		640 x 480	16.7 M	120 Hz
		800 x 600	16.7 M	120 Hz
		1024 x 768	16.7 M	120 Hz
	1152 x 864	16.7 M	120 Hz	
	1280 x 1024	16.7 M	120 Hz	
	1600 x 1200	64 K	100 Hz	
	1600 x 1200	16.7 M	85 Hz	
	1920 x 1080	64 K	100 Hz	
	1920 x 1080	16.7 M	75 Hz	
	1920 x 1200	64 K	85 Hz	
	1920 x 1200	16.7 M	70 Hz	
	1920 x 1440	64 K	75 Hz	
	1920 x 1440	16.7 M	60 Hz	
	2048 x 1536	64 K	60 Hz	

Technical Specifications

NVIDIA Quadro4 400 NVS Graphics Controller	3D/2D Controller	Integrated Quadro4 2D/3D 128-bit graphics processor unit (GPU)
	VGA Controller	Integrated into the Quadro4 GPU
	Bus Type	PCI
	RAMDAC	Dual 350 MHz
	Memory Speed, Type, Capacity	220 MHz, 4mx 32 DDR per GPU, 32 MB per GPU, 64 MB total
	Texture Memory	Unified with frame buffer
	Form Factor	ATX
	Controller Clock Speed	220 MHz
	Color Planes	32-bit color buffer
	Overlay Planes	1 16-bit Video overlay plane, software emulation for OpenGL overlay planes
	Stencil Planes	8-bit stencil buffer
	Alpha Planes	8-bit alpha buffer
	Z-buffer	24-bit
	Total bits/pixel	64
	Maximum Vertical Refresh Rate	120 MHz
	Maximum Pixel Clock	343 MHz based on resolutions shown below
	Multi Screen VGA Support	Yes, 1 to 4 displays with nView
	Single DVI Support	Yes
	Multi screen DVI Support	Yes, 1 to 4 displays
	Operating Systems	Microsoft Windows XP, Microsoft Windows 2000
	nView Hardware Architecture	32-bit color 2048 x 1536 @ 60 Hz maximum resolution 2D rendering engine optimized for 32-, 24-, 16-, 15-, and 8-bpp modes

Technical Specifications

**NVIDIA Quadro4 400 NVS
Graphics Controller** *(continued)*

**High-definition Video
Processor (HDVP)**

Full-screen, full-frame video playback of HDTV and DVD content
 DVD-ready motion compensation for MPEG-2
 Independent hardware color controls for video overlay
 Hardware color-space conversion (YUV 4:2:2 and 4:2:0)
 IDCT motion compensation
 5-tap horizontal by 3-tap vertical filtering
 8:1 up/down scaling

Resolution	Maximum Colors Supported	Maximum Refresh Rate
640 x 480	16.7 M	120 Hz
800 x 600	16.7 M	120 Hz
1024 x 768	16.7 M	120 Hz
1152 x 864	16.7 M	120 Hz
1280 x 1024	16.7 M	120 Hz
1600 x 1200	64 K	100 Hz
1600 x 1200	16.7 M	85 Hz
1920 x 1080	64 K	100 Hz
1920 x 1080	16.7 M	75 Hz
1920 x 1200	64 K	85 Hz
1920 x 1200	16.7 M	70 Hz
1920 x 1440	64 K	75 Hz
1920 x 1440	16.7 M	60 Hz
2048 x 1536	64 K	60 Hz

Technical Specifications

NVIDIA Quadro4 200 NVS Graphics Controller	3D/2D Controller	Integrated Quadro4 2D/3D 128-bit graphics processor unit (GPU)	
	VGA Controller	Integrated into the Quadro4 GPU	
	Bus type	AGP4x	
	RAMDAC	Dual 350 MHz	
	Memory speed and type	166MHz 4Mx16 SDR 6ns	
	Memory amount	64 MB	
	Texture memory	Unified with frame buffer	
	Form factor	ATX and SFF	
	Controller clock speed	250 MHz	
	Color planes	32-bit color buffer	
	Overlay planes	1 16-bit Video overlay plane, software emulation for OpenGL overlay planes	
	Stencil planes	8-bit stencil buffer	
	Alpha planes	8-bit alpha buffer	
	Z-buffer	24-bit	
	Total bits/pixel	64	
	Maximum vertical refresh rate	120 MHz	
	Maximum pixel clock	350 MHz	
	Dual screen support	Yes, with nView	
	Single DVI support	Yes	
	Dual DVI support	Yes	
	Operating systems	Microsoft Windows XP, Windows 2000,	
	nView hardware architecture	32-bit color 2048 x 1536 @ 60 Hz maximum resolution 2D rendering engine optimized for 32-, 24-, 16-, 15-, and 8-bpp modes	
	High-definition video processor (HDVP)	Full-screen, full-frame video playback of HDTV and DVD content DVD-ready motion compensation for MPEG-2 Independent hardware color controls for video overlay Hardware color-space conversion (YUV 4:2:2 and 4:2:0) IDCT motion compensation 5-tap horizontal by 3-tap vertical filtering 8:1 up/down scaling	
	Resolution	Maximum Colors Supported	Maximum Refresh Rate
	640 x 480	16.7 M	120 Hz
	800 x 600	16.7 M	120 Hz
	1024 x 768	16.7 M	120 Hz
	1152 x 864	16.7 M	120 Hz
	1280 x 1024	16.7 M	120 Hz
	1600 x 1200	64 K	100 Hz
	1600 x 1200	16.7 M	85 Hz
	1920 x 1080	64 K	100 Hz
	1920 x 1080	16.7 M	75 Hz
	1920 x 1200	64 K	85 Hz
	1920 x 1200	16.7 M	70 Hz
	1920 x 1440	64 K	75 Hz
	1920 x 1440	16.7 M	60 Hz
	2048 x 1536	64 K	60 Hz

Technical Specifications

NVIDIA Quadro2 EX Graphics Controller	Resolution	Maximum Colors Supported	Maximum Refresh Rate	Memory Dedicated to Texture Support
	640 x 480	16.7 M	120 Hz	28.4 MB
	800 x 600	16.7 M	120 Hz	26.4 MB
	1024 x 768	16.7 M	120 Hz	22.8 MB
	1152 x 864	16.7 M	120 Hz	20.3 MB
	1280 x 1024	16.7 M	100 Hz	16.6 MB
	1600 x 1000	16.7 M	85 Hz	13.3 MB
	1600 x 1200	64 K	100 Hz	20.8 MB
	1600 x 1200	16.7 M	85 Hz	9.5 MB
	1920 x 1080	64 K	85 Hz	19.9 MB
	1920 x 1080	16.7 M	75 Hz	7.7 MB
	1920 x 1200	64 K	85 Hz	18.5 MB
	1920 x 1200	16.7 M	70 Hz	5 MB
Dimensions (LxHxW)	Approximately 6.5 x 2.5 x 0.6 in/16.5 x 6.4 x 1.5 cm			
3D/2D Controller	Integrated Quadro2 EX 2D/3D 128-bit graphics processor unit (GPU)			
VGA Controller	Integrated into the Quadro2 EX GPU			
Bus Type	AGP 2X, 4X			
RAMDAC	350 MHz			
Memory Type	183 MHz SDR 2Mx32			
Memory Amount	32 MB			
Memory Speed	183 MHz			
Controller Clock Speed	175 MHz			
Color Planes	32-bit color buffer			
Overlay Planes	One 16-bit Video overlay plane, software emulation for OpenGL overlay planes			
Stencil Planes	8-bit stencil buffer			
Alpha Planes	8-bit alpha buffer			
Z-buffer	24-bit Z buffer			
Total bits/pixel	64-bits			
Maximum Vertical Refresh Rate	240 Hz			
Maximum Pixel Clock	350 MHz			
Multi-display support	No			
Operating Systems	Microsoft Windows 2000, Microsoft Windows XP Professional, Windows NT 4.0 available from Compaq			

Note: All drivers and enhanced software can be found on the Compaq web site at:
<http://www.compaq.com/support/files/workstations/us/index.html>.

Technical Specifications

3DLabs Wildcat III 6110 Graphics Controller	Dimensions (L x H x W)	Approximately 13.5 x 4.25 x 1.5 in/34.29 x 10.8 x 3.81 cm			
	3D/2D controller	3DLabs Wildcat III 2D/3D graphics controller technology			
	VGA controller	Standard VGA on board			
	Bus type	AGP Pro-50			
	RAMDAC	320 MHz			
	Memory type	DDR SDRAM			
	Memory amount	Frame buffer: 64 MB DDR Texture: 128 MB DDR DirectBurst: 16 MB			
	Memory speed	Frame buffer: 182 MHz Texture: 166 MHz Direct Burst: 133 MHz			
	Controller clock speed	Geometry Engine: 222 MHz Rasterization Engine: 213 MHz			
	Color planes	32-bit color buffer			
	Overlay planes	8-bit double buffer			
	Stencil planes	8-bit stencil buffer			
	Alpha planes	8-bit alpha double buffer			
	Z-buffer	32-bit Z buffer			
	Total bits per pixel	96, 128, 160, 192			
	Maximum vertical refresh rate	90 Hz			
	Maximum pixel clock	320 MHz (single head analog); 162 MHz (single head digital)			
	Multi-display support	Yes – (dual VGA or Dual DVI-I)			
	Operating systems	Microsoft Windows 2000, Windows XP			
	Resolutions Supported	Maximum Refresh Rate (Hz)	SuperScene Antialiasing Supported	Stereo Available at (Hz)	
	2048 x 1152	75	-	-	
1920 x 1440	75	-	-		
1920 x 1200	76	-	-		
1920 x 1080	85	-	-		
1856 x 1392	80	-	-		
1824 x 1368	75	-	-		
1824 x 1128	75	-	-		
1792 x 1344	75	-	-		
1792 x 1120	75	-	-		
1600 x 1200	90	-	-		
1600 x 1024	76	-	-		
1600 x 900	85	-	106		
1520 x 856	90	-	100		
1440 x 900	90	yes	118		
1360 x 766	90	-	120		
1280 x 1024	85	-	120		
1280 x 960	85	yes	112		
1280 x 800	90	yes	120		
1280 x 720	75	yes	120		
1152 x 864	85	yes	120		
1024 x 768	85	yes	120		
856 x 480	75	yes	120		
800 x 600	85	yes	120		
640 x 480	85	yes	120		

Technical Specifications

ATI Fire GL 8800 Graphics Accelerator	Form Factor	ATX
	Graphics Controller	RADEON™ 8800
	Bus Type	AGP 4x
	RAMDAC	400 MHz/30-bit
	Memory Speed & Type	300MHz 4Mx32 DDR SGRAM 3.3ns
	Memory Amount	128 MB
	Controller Clock Speed	275 MHz
	Color Planes	32 bit, True Color
	Overlay Planes	8-bit
	Stencil Planes	8-bit
	Alpha Planes	8-bit
	Z-Buffer	24-bit
	Video Engine Support	YUV (4:2:2, 4:2:0) conversion, point and bilinear scaling
	Monitor	15-pin D-type analog
	Flat Panel Interface	DVI-I digital (supported resolutions up to 1600 x 1200)
	Video Timings Compliance	VESA DMT 1.0 and VESA GTF 1.0 specifications
	Maximum Vertical Refresh Rate	100 Hz/120 Hz when quad buffer stereo is enabled
	Operating Systems	Microsoft Windows XP and Microsoft Windows 2000

Analog or digital monitor with 15-pin VGA connector - single monitor

Resolution	Line Frequency (kHz)	Refresh Rate (Hz)	Color Depth (bits)
640 x 480	31.5, 37.5, 43.3, 50.9	60, 75, 85, 100	16/32
800 x 600	37.7, 46.9, 54.1, 63.9	60, 75, 85, 100	16/32
1024 x 768	48.4, 60.0, 68.7, 80.8	60, 75, 85, 100	16/32
1152 x 864	53.7, 67.5, 77.1, 91.5	60, 75, 85, 100	16/32
1280 x 960	60.0, 75.1, 85.7, 101.7	60, 75, 85, 100	16/32
1280 x 1024	64.0, 80.0, 91.1, 107.0	60, 75, 85, 100	16/32
1600 x 1000	62.1, 78.3, 89.2, 105.9	60, 75, 85, 100	16/32
1600 x 1024*	63.6, 80.2, 81.3, 91.4, 107.5	60, 75, 76, 85, 100	16/32
1600 x 1200	75.0, 93.8, 106.3	60, 75, 85, 100	16/32
1792 x 1344	83.6, 106.3, 119.9	60, 75, 85	16/32
1920x1080**	67.1, 84.6, 96.4, 114.4	60, 75, 85, 100	16/32
1920 x 1200*	74.5, 94.0, 95.0, 107.1, 127.1	60, 75, 76, 85, 100	16/32
2048 x 1536	95.3, 120.2	60, 75	16/32

* = Wide Screen Aspect Ratio Mode (16:10).

** = Wide Screen Aspect Ratio Mode (16:9).

Note: All drivers can be found on the Compaq Web site at:

<http://www.compaq.com/support/files/workstations/us/index.html>

Note: This web site is available in English only.

HP recommends Microsoft® Windows® XP Professional for Business.

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