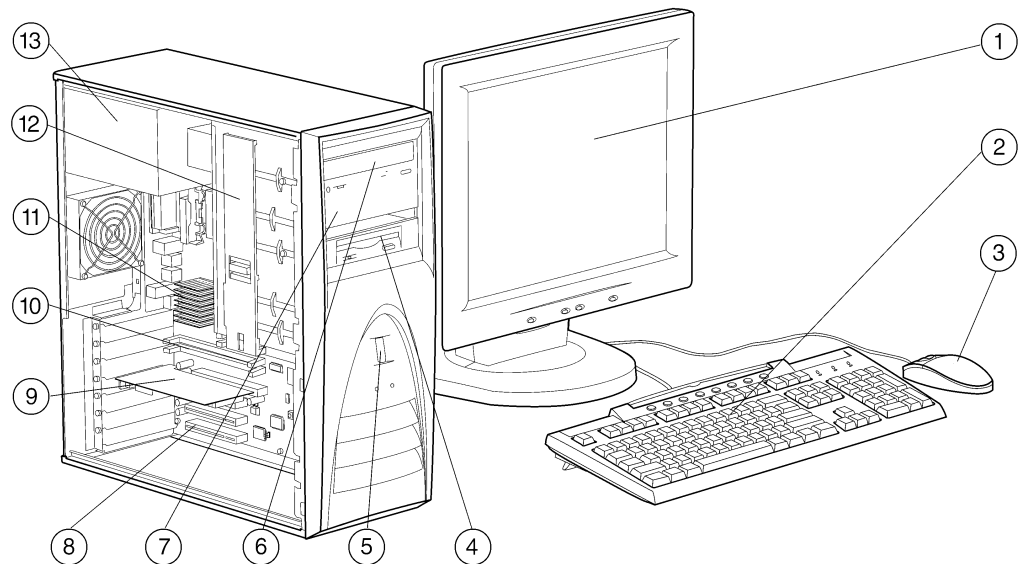


### Overview

#### At A Glance

- Memory-less/Graphics-less configurations via Indirect channels for maximum flexibility
- Convertible minitower form factor
- Supports up to two Intel Xeon processors, 1.4-GHz and 1.7-GHz (400 MHz Front Side Bus)
- Intel 860 chipset with 400-MHz front side bus and dual memory channels
- 256-KB L2 cache integrated on processor
- ECC RDRAM expandable to 2 GB
- High-performance Ultra160 SCSI 10,000 rpm or optional 15,000 rpm hard drives
- Integrated Ultra160 SCSI and Ultra ATA/100 controllers
- Up to 144 GB of high-performance internal storage
- Choice of NVIDIA Quadro2 EX, NVIDIA Quadro2 MXR, NVIDIA Quadro2 Pro, Matrox Millennium G450, Matrox G200 Quad Multi-monitor Series, ATI Fire GL2, or 3Dlabs Wildcat II 5110 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)
- 48X Max CD-ROM Drive or 16X DVD-ROM (depending on model)
- Soundblaster 128 audio
- Windows 2000 Professional or Windows NT Workstation 4.0 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. 425-Watt Power Supply

### Standard Features - Pre-configured Models

<b>Models</b>	<b>Compaq Evo™ Workstation W6000</b> In an effort to better meet our customers' memory and graphics requirements all BTO (Favorable Configurations) are memory-less and graphics-less via the Indirect channels. Please add Compaq after-market graphics and memory options.	
<b>Processor</b> <i>One of the following:</i>	Intel Xeon processor 1.4 GHz Intel Xeon processor 1.7 GHz	
<b>Cache Memory</b>	256-KB Level 2 cache per processor standard	
<b>Upgradability</b>	Upgradable to dual processor	
<b>Memory</b>	Maximum	2 GB
<b>Network Controller</b>	Integrated Intel PRO/100+ Management Adapter	
<b>Expansion Slots</b>	I/O (Total/Available)	4
	PCI	2 or 3, depending on model
	AGP Pro 4X	0 or 1, depending on model
<b>Storage Controller</b>	Integrated Ultra160 SCSI and Ultra ATA/100 on all models	
<b>Storage</b>	Diskette Drives	1.44 MB
	ROM	48X Max CD-ROM Drive or 16X/40X DVD-ROM Drive
	Hard Drives	18.2-GB Ultra160 SCSI (15,000 rpm)
	<i>One of the following:</i>	18.2-GB Ultra160 SCSI (10,000 rpm) 40-GB Ultra ATA/100 (7200 rpm)
<b>Interfaces</b>	Parallel	1
	USB	4
	Serial	2
	Ultra 160 SCSI	2 (1 68-pin internal)
	Ultra ATA/100	2 (1 primary, 1 secondary)
	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

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<b>Graphics</b>	Matrox Millennium G450 (AGP) (32 MB) Matrox G200 Quad Multi-monitor Series (PCI) (32 MB) NVIDIA Quadro2 EX (AGP) (32 MB) NVIDIA Quadro2 MXR (AGP) (32 MB) NVIDIA Quadro2 Pro (AGP) (64 MB) ATI Fire GL2 (AGP) (64 MB) 3D labs Wildcat 5110 (AGP) (64 MB)
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*Choose one of the following Compaq after-market options:*

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<b>Audio</b>	Integrated Soundblaster 128 Audio
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<b>Software</b>	Microsoft Windows NT Workstation 4.0 or Windows 2000 Professional Compaq Restore CD Compaq Management Agents Compaq PC Diagnostics via the Web ROM-based Setup Diagnostics for Windows 2000 and Windows NT Microsoft Internet Explorer System Software Manager via the Web Altiris eXpress
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<b>Intelligent Manageability</b>	Asset Control Alert on LAN (AoL) hardware ready Wake on LAN (WoL) Fault Management Lite Console Security Management <ul style="list-style-type: none"><li>Remote Management</li><li>Remote Wakeup via Magic Packet Support</li><li>Remote ROM Flash</li><li>Remote Security</li><li>Remote Shut Down</li></ul> Pre-Failure Warranty (processors, hard drives and memory) Bios Features <ul style="list-style-type: none"><li>Advanced Configuration and Power Interface (ACPI) 1.0b</li><li>Advanced Power Management (APM) 1.2</li><li>Desktop Management Interface (DMI) 2.1</li><li>System Management (SM) Bios 2.3</li></ul>
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<b>Security</b>	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
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<b>Power Supply</b>	425-Watt Power Supply
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<b>Service and Support</b>	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. <b>Note:</b> Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details. Three-year, onsite and labor not available in all countries.
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### Standard Features - Pre-configured Models

#### Models

<b>W60/1.7/18K/0/Xd</b>	<b>Processor</b>	Intel Xeon 1.7-GHz
<i>470013-336 and Compaq after-market graphics option and memory option</i>	<b>Cache Memory</b>	256-KB integrated L2
	<b>Memory</b>	<b>Choice of after-market Compaq memory options (must be added in pairs assembly instructions are provided on the last page of this document):</b> 512-MB Memory Module (800-MHz ECC) (103996-B21) 256-MB Memory Module (800-MHz ECC) (157341-B21) 128-MB Memory Module (800-MHz ECC) (157338-B21) <b>Note: This configuration is memory-less. Memory must be installed in like pairs. Option kits contain one memory module.</b>
	<b>Optical Drive</b>	16X/40X DVD-ROM Drive
	<b>Hard Drive</b>	18.2-GB Ultra 160 SCSI 15,000 rpm
	<b>Graphics</b>	<b>Choice of Compaq after-market graphics options:</b> Matrox G200 Quad MMS with analog cables (PCI) (32 MB) (159513-B21) Matrox G200 Quad MMS with DVI cables (PCI) (32 MB) (179597-B21) NVIDIA Quadro2 EX (APG) (32 MB) (232090-B21) NVIDIA Quadro2 MXR (AGP) (32 MB) (221412-B21) NVIDIA Quadro2 Pro (AGP) (64 MB) (225339-B21) Matrox Millennium G450 (AGP) (32 MB) (202389-B21) Matrox Millennium G450 (PCI) (32 MB) (202390-B21) ATI Fire GL (AGP) (32 MB) (224087-B21) Intense3D Wildcat II 5110 (AGP) (64 MB) (224085-B21)
	<b>Audio</b>	Integrated Soundblaster 128 Audio
	<b>OS</b>	Windows 2000 Professional/Windows NT Workstation 4.0 (dual install)

### Standard Features - Pre-configured Models

#### Models (continued)

<b>W60/1.7/40A/0/Xc</b> <i>470013-338 and Compaq after-market graphics option and memory option</i>	<b>Processor</b> <b>Cache Memory</b> <b>Memory</b>	Intel Xeon 1.7-GHz 256-KB integrated L2 <b>Choice of after-market Compaq memory options (must be added in pairs assembly instructions are provided on the last page of this document):</b> 512-MB Memory Module (800-MHz ECC) (103996-B21) 256-MB Memory Module (800-MHz ECC) (157341-B21) 128-MB Memory Module (800-MHz ECC) (157338-B21) <i>Note: This configuration is memory-less. Memory must be installed in like pairs. Option kits contain one memory module.</i>
	<b>Optical Drive</b> <b>Hard Drive</b> <b>Graphics</b>	48X Max CD-ROM Drive 40-GB Ultra ATA/100 (7200 rpm) <b>Choice of Compaq after-market graphics options:</b> Matrox G200 Quad MMS with analog cables (PCI) (32 MB) (159513-B21) Matrox G200 Quad MMS with DVI cables (PCI) (32 MB) (179597-B21) NVIDIA Quadro2 EX (APG) (32 MB) (232090-B21) NVIDIA Quadro2 MXR (AGP) (32 MB) (221412-B21) NVIDIA Quadro2 Pro (AGP) (64 MB) (225339-B21) Matrox Millennium G450 (AGP) (32 MB) (202389-B21) Matrox Millennium G450 (PCI) (32 MB) (202390-B21) ATI Fire GL (AGP) (32 MB) (224087-B21) Intense3D Wildcat II 5110 (AGP) (64 MB) (224085-B21)
	<b>Audio</b> <b>OS</b>	Integrated Soundblaster 128 Audio Windows 2000 Professional/Windows NT Workstation 4.0 (dual install)
<b>W60/1.4/18S/0/Xc</b> <i>470015-270 and Compaq after-market graphics option and memory option</i>	<b>Processor</b> <b>Cache Memory</b> <b>Memory</b>	Intel Xeon 1.4-GHz 256-KB integrated L2 <b>Choice of after-market Compaq memory options (must be added in pairs assembly instructions are provided on the last page of this document):</b> 512-MB Memory Module (800-MHz ECC) (103996-B21) 256-MB Memory Module (800-MHz ECC) (157341-B21) 128-MB Memory Module (800-MHz ECC) (157338-B21) <i>Note: This configuration is memory-less. Memory must be installed in like pairs. Option kits contain one memory module.</i>
	<b>Optical Drive</b> <b>Hard Drive</b> <b>Graphics</b>	48X Max CD-ROM Drive 18.2-GB Ultra 160 SCSI 10,000 rpm <b>Choice of Compaq after-market graphics options:</b> Matrox G200 Quad MMS with analog cables (PCI) (32 MB) (159513-B21) Matrox G200 Quad MMS with DVI cables (PCI) (32 MB) (179597-B21) (see note) NVIDIA Quadro2 EX (APG) (32 MB) (232090-B21) NVIDIA Quadro2 MXR (AGP) (32 MB) (221412-B21) NVIDIA Quadro2 Pro (AGP) (64 MB) (225339-B21) Matrox Millennium G450 (AGP) (32 MB) (202389-B21) Matrox Millennium G450 (PCI) (32 MB) (202390-B21) ATI Fire GL (AGP) (32 MB) (224087-B21) Intense3D Wildcat II 5110 (AGP) (64 MB) (224085-B21)
	<b>Audio</b> <b>OS</b>	Integrated Soundblaster 128 Audio Windows 2000 Professional/Windows NT Workstation 4.0 (dual install)

### Standard Features – Custom Configuration Models (CTO)

<b>Processor</b>	Intel Xeon processor 1.4 GHz Intel Xeon processor 1.7 GHz
<b>Cache Memory</b>	256-KB Level 2 cache standard
<b>Upgradability</b>	Upgradable to dual processor
<b>Memory</b>	Maximum 2 GB of 800-MHz ECC RDRAM
<b>Network Controller</b>	Integrated Intel PRO/100+ Management Adapter
<b>Expansion Slots</b>	I/O 4 PCI 3 AGP Pro 4X 1
<b>Storage Controller</b>	Integrated Ultra160 SCSI and Ultra ATA/100 on all models
<b>Storage</b>	Diskette Drives 1.44 MB ROM Drives 48X Max CD-ROM Drive 16X/40X DVD-ROM Drive Hard Drives 72-GB, 36.4-GB, 18.2-GB Ultra160 SCSI (10,000 rpm) 18.2-GB Ultra160 SCSI (15,000 rpm) 40-GB or 20-GB Ultra ATA/100 (7200 rpm) Removable Storage 12X/4X/32X CD-RW Drive
<b>Interfaces</b>	Parallel 1 USB 4 Serial 2 Ultra 160 SCSI 2 (1 68-pin internal) Ultra ATA/100 2 (1 primary, 1 secondary) Keyboard (PS/2) 1 Pointing Device (PS/2 mouse) 1 Video 1 Microphone Jack 1 Headphone Jack 1 Line-In 1 Line-Out 1
<b>Graphics</b>	NVIDIA Quadro2 MXR (AGP) NVIDIA Quadro2 Pro (AGP) NVIDIA Quadro2 EX (AGP) Matrox Millennium G450 (AGP or PCI) Matrox G200 Quad Multi-monitor Series (PCI) Matrox G200 Quad Multi-monitor Series (DVI)

*One of the following:*

### Standard Features – Custom Configuration Models (CTO)

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<b>Audio</b>	Integrated Soundblaster 128 Audio
<b>Software</b>	Microsoft Windows NT Workstation 4.0 or Windows 2000 Microsoft Service Pack 6a for Windows NT 4.0 Microsoft Service Pack 1 for Windows 2000 Professional Compaq Restore CD Compaq Management Agents Compaq PC Diagnostics via the Web ROM-based Setup Diagnostics for Windows 2000 and Windows NT Microsoft Internet Explorer System Software Manager via the Web Altiris eXpress
<b>Intelligent Manageability</b>	Asset Control Alert on LAN (AoL) hardware ready Wake on LAN (WoL) Fault Management Lite Console Security Management Remote Management Remote Wakeup via Magic Packet Support Remote ROM Flash Remote Security Remote Shut Down Pre-Failure Warranty (processors, hard drives and memory) 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
<b>Security</b>	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
<b>Power Supply</b>	425-Watt Power Supply
<b>Service and Support</b>	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. <i>Note: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details. Three-year, onsite and labor not available in all countries.</i>

### Options

<b>Processor</b>	Intel Xeon processor 1.4 GHz	238843-B21
	Intel Xeon processor 1.7 GHz	238845-B21
	<i>Note: When adding an additional processor, both processors must have the same speed.</i>	
<b>Memory (RDRAM)</b>	512-MB Memory Module (800-MHz ECC)	103996-B21
	256-MB Memory Module (800-MHz ECC)	157341-B21
	128-MB Memory Module (800-MHz ECC)	157338-B21
	<i>Note: Memory must be installed in like pairs. Option kits contain one memory module. For increased performance, only 800-MHz speed is qualified, Intel chipset does not support different memory speeds.</i>	
<b>Monitors</b>	TFT8020 Flat Panel Color (18-inch, Carbon)	159244-001
	TFT5010 Flat Panel Color (15-inch, Carbon)	154486-001
	P1100 CRT (21-inch)	325606-001
	P1210 CRT (21-inch)	210290-001
	P910 CRT (19-inch)	210254-001
	P710 CRT (17-inch)	210189-001
	V710 CRT (17-inch)	187895-001
	<i>Note: AssetControl monitor. AssetControl features are accessible with Compaq Workstations featuring Intelligent Manageability.</i>	
<b>Graphics</b>	Matrox G200 Quad Multi-monitor Series with cables for analog output (PCI) (32 MB)	159513-B21
	Matrox G200 Quad Multi-monitor Series with cables for DVI output (PCI) (32 MB)	179597-B21
	Matrox G200 Quad MMS DVI Upgrade Cable Kit (for option kit 159513-B21)	170840-B21
	Matrox Millennium G450 (PCI) (32 MB)	202390-B21
	Matrox Millennium G450 (AGP) (32 MB)	202389-B21
	NVIDIA Quadro2 EX (AGP) (32 MB)	232090-B21
	NVIDIA Quadro2 MXR (AGP) (32 MB)	221412-B21
	NVIDIA Quadro2 Pro (AGP) (64 MB)	225339-B21
	ATI FireGL2 (AGP) (64 MB)	224087-B21
	3DLabs Wildcat II 5110 (AGP Pro 4X) (64 MB)	224085-B21
<b>Diskette Drives</b>	250-MB ATAPI ZIP (opal)	294416-B22
	250-MB ATAPI ZIP Media 3-Pack	217896-B21

### Options

<b>Hard Drives</b>	<i>Ultra3 (Ultra160) SCSI Drives</i>		
	72-GB Ultra160 SCSI 10,000 rpm (1.6")	201735-B21	
	36.4-GB Ultra160 SCSI 10,000 rpm	191189-B21	
	18.2-GB Ultra160 SCSI 15,000 rpm	191188-B21	
	18.2-GB Ultra160 SCSI 10,000 rpm	159764-B21	
	<i>Ultra ATA Drives</i>		
	40-GB Ultra ATA 7200 rpm Quiet Seek and Quiet Idle	201066-B21	
	20-GB Ultra ATA 7200 rpm Quiet Seek	176272-B21	
	<b>Storage Controllers</b>	Adaptec 29160N Ultra160 Single Channel SCSI Controller	157810-B21
		Adaptec 2100S Ultra 160 (U3) Single Channel RAID Controller	192842-B21
5 Device SCSI Cable		230777-B21	
<b>Biometrics</b>	Compaq Fingerprint Identification Technology (opal)	294307-001	
<b>Multimedia</b>	Premier•Sound PS330 Speakers (opal, high-end system with subwoofer)	160992-001	
	ACS21 External Speakers (opal, enhanced system with subwoofer)	194839-001	
	48X CD-ROM (carbon)	187217-B22	
	16X/40X DVD-ROM (carbon, without MPEG2 decoder)	237495-B22	
	12X/4X/32X CD-RW Drive (carbon)	217638-B22	
	4.7-GB DVD-RAM Drive (carbon)	294415-B22	
	4.7-GB DVD RAM (Single Sided) Media Kit	211082-B21	
	1394 DVE Adobe kit	229966-B21	
<b>Communications</b>	Intel PRO/100+ Management Adapter	127453-B21	
	Compaq NC3123 Fast Ethernet NIC PCI 10/100 WoL	174830-B21	
	Compaq NC3122 Fast Ethernet NIC PCI Dual 10/100	317450-B21	
	Compaq NC3134: 64 PCI, Dual Base 10/100 WoL	138603-B21	
	Compaq NC3135: 10/100 Dual Upgrade Module (for NC3134)	138604-B21	
	Compaq NC6134 Gbit NIC 64 PCI 1000SX	174818-B21	
	V.90 PCI Modem (available in North America)	174537-B21	
	<b>Uninterruptible Power Systems</b>	Compaq Tower UPS Model T1500 (low voltage)	242688-003
Compaq Tower UPS Model T1000 (low voltage)		242688-001	
Compaq Tower UPS Model T700 (low voltage)		295372-B21	

### Options

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Other	Compaq Scroll Mouse (opal)	170299-B21
	External SCSI Adapter 68-/50-Pin (opal)	270187-B21
	Sliding Shelf Kit for Rack	332564-B21
	Spaceball 4000 3D Motion Controller (opal)	112138-B21
	Fingerprint Identification Technology (FIT) (opal)	294307-B21
	Compaq Basic Smart Card Keyboard (L2 Security) (opal)	115506-006

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Support Software CD	Annual Subscription	183426-xxx
	Single CD-ROM (current month)	272505-001

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### Memory

#### Compaq *Evo* Workstation W6000

##### STANDARD MEMORY

The Compaq *Evo* Workstation W6000 standard configurations do not include memory. Compaq after-market memory options are Dual-In-Line Memory Modules (RIMMs). The order of assembly should be in RIMM slot XMM1 (first), RIMM slot XMM2 (next), etc. A RIMM must be paired with another RIMM or a CRIMM (terminator board) in the adjacent slot. When paired with a CRIMM, always locate the RIMM in the slot closest to the processor (please see the last page of this document for detailed assembly instructions). CRIMMs will be preinstalled in the system in slots XMM2 and XMM4. Compaq *Evo* Workstation W6000 standard features must be configured with Compaq after-market memory options.

##### OPTIONAL MEMORY

Support for up to 2048 GB of 800-MHz ECC RDRAM is available via the installation of Compaq 800-MHz ECC RDRAM after-market kits. Memory must be installed in like pairs.

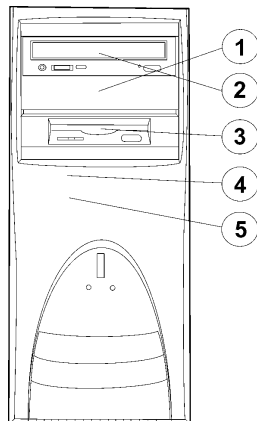
Note: This chart does not represent all possible memory configurations. Memory must be installed in like pairs. Option kits contain one memory module.

Memory		Memory Channel A		Memory Channel B	
		XMM1	XMM2	XMM3	XMM4
Optional	256 MB	128 MB	CRIMM	128 MB	CRIMM
Optional	512 MB	128 MB	128 MB	128 MB	128 MB
Optional	512 MB	256 MB	CRIMM	256 MB	CRIMM
Optional	768 MB	128 MB	256 MB	128 MB	256 MB
Optional	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 (RDRAM RIMM, 800MHz) 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
<b>Removable Media</b>			
1.44-MB Diskette Drive	Up to 1	1, 2, 3	Integrated
CD-ROM Drive	Up to 1	1, 2	Integrated EIDE
250-MB ATAPI ZIP Drive	Up to 1	1, 2	Integrated EIDEz
16X/40X DVD-ROM Drive	Up to 1	1, 2	Integrated EIDE
12X/4X/32X CD-RW Drive	Up to 1	1, 2	Integrated EIDE
4.7-GB DVD-RAM Drive	Up to 1	1, 2	Integrated EIDE
<b>Hard Drives</b>			
<i>Ultra3 (Ultra 160) SCSI Drives</i>			
<b>1.6-inch</b> 72-GB 10,000 rpm	Up to 2	1, 2	Ultra160 SCSI Controller, Adaptec 2100S
<b>1-inch</b> 36.4-GB 10,000 rpm 18.2-GB 15,000 rpm 18.2-GB 10,000 rpm	Up to 3	1, 2, 3, 4, 5	
<i>Ultra ATA Drives</i>			
<b>1-inch</b> 20-GB 7200 rpm 40-GB 7200 rpm	Up to 3	1, 2, 3, 4, 5	Integrated EIDE
<b>Maximum Storage Capacity</b>			
Internal	144 GB (assumes two removable media drives installed)		

### Technical Specifications

<b>System Unit</b>	<b>Tower Dimensions (HxWxD)</b>	17.65 x 6.6 x 17.61 in/44.83 x 16.76 x 44.73 cm		
	<b>Weight (standard configuration)</b>	26 lbs/12 kg		
	<b>Power Supply</b>	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	425-Watt output;	
		Physical Dimensions	5.9 x 3.85 x 6.3 in/15 x 9.8 x 16 cm	
		Weight	4.5 lbs/2.05 kg	
	<b>Temperature (Values are subject to change)</b>	Operating	50° to 95°F/10° to 35°C	
		Non-operating	4° to 140°F/-15° to 60°C	
<b>Humidity (non-condensing) (Values are subject to change)</b>	Operating	20% to 80%		
	Non-operating	10% to 90%		
<b>Maximum Altitude (unpressurized)</b>	Operating	10,000 ft/3,048 m		
	Non-operating	30,000 ft/9,144 m		
<b>Enhanced Keyboard</b>	<b>Dimensions (HxWxD)</b>	1.3 x 6.4 x 18.3 in/3.3 x 16.26 x 46.48 cm		
	<b>Weight</b>	3 lbs/1.4 kg		
	<b>Cable Length</b>	8 ft/2.4 m		
<b>1.44-MB Diskette Drive</b>	<b>Diskette Size</b>	3.5 in		
	<b>LED Indicators (front panel)</b>	Green		
	<b>Read/Write Capacity per Diskette (high/low)</b>	1.44 MB/720 KB		
	<b>Drive Height</b>	One-third		
	<b>Drive Rotation</b>	300 rpm		
	<b>Transfer Rate (high/low)</b>	500/250 Kb/s		
	<b>Bytes/Sector</b>	512		
	<b>Sectors/Track (high/low)</b>	18/9		
	<b>Tracks/Side (high/low)</b>	80/80		
	<b>Access Times</b>	Track-to-Track (high/low)	3/6 ms	
		Average (high/low)	94/173 ms	
		Settling Time	15 ms	
		Latency Average	100 ms	
<b>Cylinders (high/low)</b>	80/80			
<b>Read/Write Heads</b>	Two			

## Technical Specifications

Ultra160 SCSI Hard Drives	<b>72 GB</b>	<b>Capacity</b>	72,000 MB	
	<i>201735-B21</i>	<b>Height</b>	1.6 in/40.64 mm	
		<b>Width</b>	3.5 in/88.9 mm	
		<b>Interface</b>	Ultra160 SCSI	
		<b>Synchronous Transfer Rate (Maximum)</b>	160 MB/s	
		<b>Seek Time</b> (typical reads, including settling)	Single Track	0.6 ms
			Average	5.2 ms
			Full-Stroke	12 ms
			<b>Rotational Speed</b>	10,000 rpm
		<b>Logical Blocks</b>	142,264,000	
	<b>Operating Temperature</b>	50° to 95°F/10° to 35°C		
	<b>36.4 GB</b>	<b>Capacity</b>	36,400 MB	
	<i>191189-B21</i>	<b>Height</b>	1.0 in/25.4 mm	
		<b>Width</b>	3.5 in/88.9 mm	
		<b>Interface</b>	Ultra160 SCSI	
		<b>Synchronous Transfer Rate (Maximum)</b>	160 MB/s	
	<b>Seek Time</b> (typical reads, including settling)	Single Track	0.6 ms	
		Average	4.7 ms	
		Full-Stroke	12 ms	
		<b>Rotational Speed</b>	10,000 rpm	
	<b>Logical Blocks</b>	71,132,000		
	<b>Operating Temperature</b>	50° to 95°F/10° to 35°C		
	<b>18.2 GB</b>	<b>Capacity</b>	18,209 MB	
	<i>191188-B21</i>	<b>Height</b>	1 in/25.4 mm	
		<b>Width</b>	3.5 in/88.9 mm	
		<b>Interface</b>	Ultra160 SCSI	
		<b>Synchronous Transfer Rate (Maximum)</b>	160 MB/s	
	<b>Seek Time</b> (typical reads, including settling)	Single Track	0.8 ms	
		Average	4.1 ms	
		Full-Stroke	7.7 ms	
		<b>Rotational Speed</b>	15,000 rpm	
	<b>Logical Blocks</b>	35,566,000		
	<b>Operating Temperature</b>	50° to 95°F/10° to 35°C		

## Technical Specifications

Ultra160 SCSI Hard Drives <i>(continued)</i>	18.2 GB	Capacity	18,209 MB	
	159764-B21	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	40 GB	Capacity	40,000 MB	
	201066-B21	Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Interface	Ultra ATA	
		Synchronous Transfer Rate (Maximum)	66.6 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	
	176272-B21	Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Interface	Ultra ATA	
		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

<b>48X CD-ROM Drive</b>	<b>Disk</b>	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/15 mm diameter
		Thickness	0.05 in/1.2 mm
		Track Pitch	1.6 $\mu$ m
		<b>Block Size</b>	Mode 1 Mode 2 CD-DA CD-XA
	<b>Interface</b>	IDE	
	<b>Access Times (typical)</b>	Random Full-Stroke	< 100 ms < 150 ms
	<b>Audio Output Level</b>	Line-Out	0.7 VRMS
	<b>Data Transfer Rate</b>	Sustained Variable	150 KB/s (1X, using audio disc) 3,000 to 7,200 KB/s
	<b>Cache Buffer</b>	128 KB minimum	
	<b>Start-up Time (typical)</b>	< 7 s	
	<b>Stop Time</b>	< 4 s	
	<b>Operating Conditions</b>	Temperature Humidity	41° to 113°F/5° to 45°C 10% to 80%
	<b>Dimensions</b>	(HxWxD, maximum) Weight	1.7 x 5.9 x 8.19 in/4.29 x 15 x 20.8 cm 2.65 lbs/1.2 kg

### Technical Specifications

<b>16X DVD</b>	<b>Bus</b>	Ultra DMA 33
	<b>Data Transfer Rate</b> (1 KB = 1024 bytes)	Sustained DVD = 8.1 MB/s to 21.6 MB/s CD-ROM = 2.55 KB/s to 6.00 KB/s
	<b>Disk Rotation Technology</b>	DVD: CAV - Constant Angular Velocity CD: CAV - Constant Angular Velocity
	<b>Access Time (ms)</b>	Random Full Stroke Seek DVD = <100 ms; CDROM = < 80 ms DVD = <240 ms; CDROM = <160 ms
	<b>Cache Buffer Standard / Max</b>	512 KB
	<b>ATAPI Interface</b>	ATAPI
	<b>Disk Formats Read</b>	DVD-ROM Yes DVD-Video Yes DVD-R Yes DVD-RW Yes DVD-RAM No Photo-CD/Multi-session Yes CD-ROM Yes CD TEXT Yes Audio CD Yes CD-I Yes CD-RW Yes CD-R Yes CD-DA Yes Video CD Yes CD EXTRA Yes CD-ROM XA Yes MPEG Yes MPC Level 2 Yes
	<b>Disk Formats Written</b>	None
	<b>Disk</b>	Capacity Block Size Diameter Thickness Track Pitch CD = 650 MB DVD: 4.7 GB, 8.5 GB, 9.4 GB Mode 0 2352 (bytes) Mode 1 2352, 2340, 2336, 2048 (bytes) Mode 2 2352, 2340, 2336, 2048 (bytes) DVD – 2048 (bytes) 12 cm, 8 cm 1.2 mm (CD-ROM) 1.2 mm (DVD) 1.6 µm (CD-ROM) 0.74 µm (DVD)

### Technical Specifications

<b>16X DVD</b> <i>(continued)</i>	<b>Audio Output Level</b>	Line Out	0.7± 0.1 Vrms
		Headphones	0.45 ± 0.2 Vrms
	<b>Operating Conditions</b>	Temperature	41° to 113°F/5° to 45°C
		Humidity	5% to 85% relative humidity
	<b>Dimensions (HxWxD)</b>	Inches	1.67 x 5.83 x 8.18
		Centimeters	4.23 x 14.8 x 20.75
	<b>Weight</b>	Pounds	2.22
		Kilograms	1
	<b>Agency Approvals / Environmentals</b>	UL, CSA, TUV, FDA, FCC, CE, EMI	
	<b>OS Support</b>	Windows 98/98SE, Windows ME, Windows 2000, and Windows NT 4.0 (for data applications only)	
	<b>MPEG Video playback compatibility</b>	Please refer to the platform for support	
	<b>RPC2 (Regional Protection Control)</b>	Yes	
	<b>Minimum CPU Supported</b>	Pentium II 400 MHz or Celeron 466 MHz	
	<b>Mounting Orientation</b>	Operates in horizontal or vertical position.	
	<b>Kit Contents</b>	DVD-ROM Drive, MPEG playback software, IDE Cable, audio cable, installation instructions, and warranty card.	

### 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	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

NVIDIA Quadro2 Pro Graphics Controller	<b>3D/2D Controller</b>	Integrated Quadero2 Pro 2D/3D 128-bit graphics processor unit (GPU)		
	<b>VGA Controller</b>	Integrated into the Quadro2 Pro GPU		
	<b>Bus type</b>	AGP 4X		
	<b>RAMDAC</b>	350 MHz		
	<b>Memory type</b>	400 MHz 4Mx16DDR-5ns		
	<b>Memory amount</b>	64 MB		
	<b>Memory Speed</b>	400 MHz (DDR)		
	<b>Controller clock speed</b>	250 MHz		
	<b>Color planes</b>	32-bit color buffer		
	<b>Overlay planes</b>	1 16-bit Video overlay plane, software emulation for OpenGL overlay planes		
	<b>Stencil planes</b>	8-bit stencil buffer		
	<b>Alpha planes</b>	8-bit alpha buffer		
	<b>Z-buffer</b>	24-bit		
	<b>Total bits/pixel</b>	64		
	<b>Maximum vertical refresh rate</b>	240 Hz		
	<b>Maximum pixel clock</b>	350 MHz		
	<b>Multi-display support</b>	No		
	<b>Operating systems</b>	Microsoft Windows 2000, Windows NT 4.0 available from Compaq		
	<b>Resolution</b>	<b>Maximum Colors Supported</b>	<b>Maximum Refresh Rate</b>	<b>Memory Dedicated to Texture Support</b>
	640 x 480	16.7 M	240 Hz	60.4 MB
	800 x 600	16.7 M	240 Hz	58.4 MB
1024 x 768	16.7 M	240 Hz	54.8 MB	
1152 x 864	16.7 M	200 Hz	52.3 MB	
1280 x 1024	16.7 M	150 Hz	48.6 MB	
1600 x 1000	64 K	120 Hz	54.6 MB	
1600 x 1000	16.7 M	120 Hz	45.3 MB	
1600 x 1200	64 K	100 Hz	52.8 MB	
1600 x 1200	16.7 M	100 Hz	41.5 MB	
1600 x 1280	64 K	100 Hz	52 MB	
1600 x 1280	16.7 M	100 Hz	40 MB	
1920 x 1080	64 K	85 Hz	51.9 MB	
1920 x 1080	16.7 M	85 Hz	39.7 MB	
1920 x 1200	64 K	85 Hz	50.5 MB	
1920 x 1200	16.7 M	85 Hz	37 MB	

### Technical Specifications

<b>Matrox Millennium G450 Graphics Controllers</b>	<b>Form Factor</b>	ATX																										
	<b>Bus Type</b>	AGP 1X, 2X, 4X: PCI rev 2.2 bus specification																										
	<b>Standard Memory</b>	AGP: 32 MB / PCI: 16 MB																										
	<b>DAC Speed</b>	360 MHz (secondary DAC: 200 MHz)																										
	<b>Data Path</b>	64-bit DDR External/256-bit Internal																										
	<b>Internal Bus Width</b>	256-bit DualBus																										
	<b>Memory Interface</b>	64-bit DDR Memory																										
	<b>Frame Buffer</b>	AGP: 32 MB / PCI: 16 MB																										
	<b>Two Integrated RAMDACs</b>	Yes																										
	<b>Engine Acceleration</b>	3 ROP bitBLT, line draw, text, color expansion, basic video color conversion and scaling, triangle setup engine																										
	<b>Output</b>	Analog, 2 ports																										
	<b>OS Support</b>	Microsoft Windows 2000, Windows 98 and Windows NT 4.0 available from Compaq.																										
	<b>Other</b>	PCI bus mastering, 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																										
	<b>3D Features</b>	<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																											
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32-bit Independent Z-buffer	Yes																											
Stencil Buffering	Yes																											
AGP Texturing	Yes																											
Trilinear Filtering	Yes																											
DirectX Support	Yes																											
OpenGL Support	Yes																											
<b>DualHead Display Features</b>	Multi-Display Mode, DVD Max Mode, DualHead Zoom Mode, DualHead Clone Mode, DualHead TV Output Mode, Single Chip Multi-Monitor Support																											

### Technical Specifications

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#### 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 2<sup>nd</sup> CRT.

#### Primary CRT Color Depths

640 x 480  
800 x 600  
1024 x 768  
1152 x 864  
1280 x 960  
1280 x 1024  
1600 x 1200

#### Color Depths (bpp)

8, 16, 24, 32  
8, 16, 24, 32  
8, 16, 24, 32  
8, 16, 24, 32  
8, 16, 24, 32  
8, 16, 24, 32  
8, 16, 24, 32

#### Refresh Rates

60 Hz, 72 Hz, 75 Hz, 85 Hz  
60 Hz, 72 Hz, 75 Hz, 85 Hz  
60 Hz, 70 Hz, 75 Hz, 85 Hz  
75 Hz  
60 Hz, 75 Hz, 85 Hz  
60 Hz, 75 Hz, 85 Hz  
60 Hz, 65 Hz, 70 Hz, 75 Hz,  
85 Hz

1800 x 1440  
1856 x 1392  
1920 x 1440  
2048 X 768

8, 16, 24  
8, 16, 24  
8, 16, 24  
8, 16

60 Hz, 72 Hz, 75 Hz, 85 Hz  
60 Hz, 75 Hz, 85 Hz  
60 Hz, 75 Hz, 85 Hz  
60 Hz, 75 Hz

#### Secondary CRT Color Depths

640 x 480  
800 x 600  
1024 x 768  
1152 x 864  
1280 x 960  
1280 x 1024  
1600 x 1200

#### Color Depths (bpp)

16, 32  
16, 32  
16, 32  
16, 32  
16, 32  
16, 32  
16, 32

#### Refresh Rates

60 Hz, 72 Hz, 75 Hz, 85 Hz  
60 Hz, 72 Hz, 75 Hz, 85 Hz  
60 Hz, 70 Hz, 75 Hz, 85 Hz  
75 Hz  
60 Hz, 75 Hz, 85 Hz  
60 Hz, 75 Hz, 85 Hz  
60 Hz, 65 Hz, 70 Hz, 75 Hz,  
85 Hz

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### Technical Specifications

<b>Matrox G200 Quad Multi-Monitor Series (MMS) Graphics Controller</b>	<b>Dimensions (HxW)</b>	4.5x8 in/11.43x20.32 cm		
	<b>Refresh Rate (per display)</b>			
	<b>Aspect Ratio</b>	<b>Resolution</b>	<b>Vertical</b>	<b>Horizontal</b>
	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
		1600 x 1200	60 to 90 Hz	75 to 113 kHz
	16:9/16:10	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.				
<b>Interface</b>	PCI			
<b>Standard Memory</b>	32-MB SGRAM (8 MB per port)			
<b>DAC Speed</b>	250 MHz			
<b>Data Path</b>	128-bit Internal/64-bit External			
<b>Color Space Conversion</b>	Yes			
<b>Scaling</b>	Yes			
<b>Quick Draw Support</b>	Yes			
<b>DCI &amp; DirectX Video Playback</b>	Yes			
<b>Direct3D Support</b>	Yes			
<b>Engine Acceleration</b>	3 ROP bitBLT, Line Draw, Text, Color Expansion, Basic Video Color Conversion and Scaling, Triangle Setup Engine			
<b>Output</b>	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		
<b>Other</b>	PCI bus-mastering, texture mapping support, flat and Gouraud shading, Anisotropic Filter, perspective texture, specular highlighting, dithering, full scene anti-aliasing, Vertex fog			
<b>OS Support</b>	Windows 2000 (not available for Chinese, Taiwanese, or Korean languages) and Windows NT 4.0			

### Technical Specifications

<b>NVIDIA Quadro2 MXR Graphics Controller</b>	<b>Dimensions (LxHxW)</b>	Approximately 6.5 x 3.8 x 0.6 in/16.51 x 9.65 x 1.52 cm		
	<b>Resolution</b>	<b>Maximum Colors Supported</b>	<b>Maximum Refresh Rate</b>	<b>Memory Dedicated to Texture Support</b>
	640 x 480	16.7 M	240 Hz	28.4 MB
	800 x 600	16.7 M	240 Hz	26.4 MB
	1024 x 768	16.7 M	200 Hz	22.8 MB
	1152 x 864	16.7 M	170 Hz	20.3 MB
	1280 x 1024	16.7 M	150 Hz	16.6 MB
	1600 x 1000	64 K	120 Hz	22.6 MB
	1600 x 1000	16.7 M	120 Hz	13.3 MB
	1600 x 1200	64 K	100 Hz	20.8 MB
	1600 x 1200	16.7 M	100 Hz	9.5 MB
	1600 x 1280	64 K	100 Hz	20 MB
	1600 x 1280	16.7 M	100 Hz	8 MB
	1920 x 1080	64 K	85 Hz	19.9 MB
	1920 x 1080	16.7 M	85 Hz	7.7 MB
	1920 x 1200	64 K	85 Hz	18.5 MB
	1920 x 1200	16.7 M	85 Hz	5 MB
<b>3D/2D Controller</b>	Integrated Quadro2 MXR 2D/3D 128-bit graphics processor unit (GPU)			
<b>VGA Controller</b>	Integrated into the Quadro2 MXR GPU			
<b>Bus Type</b>	AGP 2X, 4X Graphics Bus			
<b>RAMDAC</b>	350 MHz			
<b>Memory Type</b>	183 MHz SDR 2Mx32			
<b>Memory Amount</b>	32 MB			
<b>Memory Speed</b>	183 MHz			
<b>Controller Clock Speed</b>	200 MHz			
<b>Color Planes</b>	32-bit color buffer			
<b>Overlay Planes</b>	1 16-bit Video overlay plane, software emulation for OpenGL overlay planes			
<b>Stencil Planes</b>	8-bit stencil buffer			
<b>Alpha Planes</b>	8-bit alpha buffer			
<b>Z-buffer</b>	24-bit Z buffer			
<b>Total bits/pixel</b>	64-bits			
<b>Maximum Vertical Refresh Rate</b>	240 Hz			
<b>Maximum Pixel Clock</b>	350 MHz			
<b>Multi-display support</b>	Yes			
<b>Operating Systems</b>	Microsoft® Windows® 2000, Windows NT 4.0 available from Compaq			

### 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	240 Hz	28.4 MB
	800 x 600	16.7 M	240 Hz	26.4 MB
	1024 x 768	16.7 M	200 Hz	22.8 MB
	1152 x 864	16.7 M	170 Hz	20.3 MB
	1280 x 1024	16.7 M	150 Hz	16.6 MB
	1600 x 1000	64 K	120 Hz	22.6 MB
	1600 x 1000	16.7 M	120 Hz	13.3 MB
	1600 x 1200	64 K	100 Hz	20.8 MB
	1600 x 1200	16.7 M	100 Hz	9.5 MB
	1600 x 1280	64 K	100 Hz	20 MB
	1600 x 1280	16.7 M	100 Hz	8 MB
	1920 x 1080	64 K	85 Hz	19.9 MB
	1920 x 1080	16.7 M	85 Hz	7.7 MB
	1920 x 1200	64 K	85 Hz	18.5 MB
	1920 x 1200	16.7 M	85 Hz	5 MB
<b>Dimensions (LxHxW)</b>	Approximately 6.5 x 3.8 x 0.6 in/16.51 x 9.65 x 1.52 cm			
<b>3D/2D Controller</b>	Integrated Quadro2 EX 2D/3D 128-bit graphics processor unit (GPU)			
<b>VGA Controller</b>	Integrated into the Quadro2 EX GPU			
<b>Bus Type</b>	AGP 2X, 4X			
<b>RAMDAC</b>	350 MHz			
<b>Memory Type</b>	183 MHz SDR 2Mx32			
<b>Memory Amount</b>	32 MB			
<b>Memory Speed</b>	183 MHz			
<b>Controller Clock Speed</b>	200 MHz			
<b>Color Planes</b>	32-bit color buffer			
<b>Overlay Planes</b>	1 16-bit Video overlay plane, software emulation for OpenGL overlay planes			
<b>Stencil Planes</b>	8-bit stencil buffer			
<b>Alpha Planes</b>	8-bit alpha buffer			
<b>Z-buffer</b>	24-bit Z buffer			
<b>Total bits/pixel</b>	64-bits			
<b>Maximum Vertical Refresh Rate</b>	240 Hz			
<b>Maximum Pixel Clock</b>	350 MHz			
<b>Multi-display support</b>	No			
<b>Operating Systems</b>	Microsoft® Windows® 2000, Windows NT 4.0 available from Compaq			
Note: All drivers and enhanced software, including ELSA POWERdraft, , can be found on the Compaq web site at: <a href="http://www.compaq.com/support/files/workstations/us/index.html">www.compaq.com/support/files/workstations/us/index.html</a> .				

### Technical Specifications

<b>3Dlabs Wildcat II 5110</b>	<b>Dimensions (LxHxW)</b>	Approximately 13.5 x 3.8 x 1.5 in/ 34.29 x 9.65 x 3.81 cm			
<b>Aspect Ratio</b>	<b>96 bits per pixel</b>	<b>128 bits per pixel</b>	<b>160 bits per pixel</b>	<b>192 bits per pixel</b>	
4 x 3	1920 x 1440 @75 Hz	1920 x 1440 @75 Hz	1920 x 1440 @75 Hz	1920 x 1440 @75 Hz	
5 x 4	1600 x 1280 @76 Hz	1600 x 1280 @76 Hz	1600 x 1280 @76 Hz	1600 x 1280 @76 Hz	
16 x 9	2048 x 1152 @75 Hz	2048 x 1152 @75 Hz	2048 x 1152 @75 Hz	2048 x 1152 @75 Hz	
16 x 10	1920 x 1200 @75 Hz	1920 x 1200 @75 Hz	1920 x 1200 @75 Hz	1920 x 1200 @75 Hz	
5 x 4 Frame Sequential Stereo	1280 x 1024 @60 Hz	1280 x 1024 @60 Hz	1280 x 1024 @60 Hz	1280 x 1024 @60 Hz	
4 x 3 Frame Sequential Stereo	1280 x 960 @60Hz	1280 x 960 @60Hz	1280 x 960 @60Hz	1280 x 960 @60Hz	
<b>3D/2D Controller</b>	3Dlabs Wildcat II 2D/3D graphics controller technology				
<b>VGA Controller</b>	Standard VGA onboard				
<b>Bus Type</b>	AGP 4X / AGP Pro Graphics Bus				
<b>RAMDAC</b>	300 MHz				
<b>Memory Type</b>	SDRAM				
<b>Memory Amount</b>	64 MB				
<b>Memory Speed</b>	166 MHz				
<b>Controller Clock Speed</b>	204 MHz				
<b>Color Planes</b>	32-bit color buffer				
<b>Overlay Planes</b>	8-bit double buffer				
<b>Stencil Planes</b>	8-bit stencil buffer				
<b>Alpha Planes</b>	8-bit alpha double buffer				
<b>Z-buffer</b>	24, 32-bit Z buffer				
<b>Total bits/pixel</b>	96, 128, 160, 192				
<b>Maximum Vertical Refresh Rate</b>	90 Hz				
<b>Maximum Pixel Clock</b>	300MHz (analog); 162 Mhz (digital)				
<b>Multi-display support</b>	Yes				
<b>Operating Systems</b>	Microsoft® Windows® 2000, Windows NT 4.0 available from Compaq				

### Technical Specifications

ATI Fire GL2 Graphics Controller	<b>Dimensions (HxW)</b>	Approximately 6.5 x 3.8 x 0.6 in/16.51 x 9.65 x 1.52 cm		
		<b>Maximum Colors Supported</b>	<b>Maximum Refresh Rate</b>	<b>Memory Dedicated to Texture Support</b>
	<b>Resolution</b>			
	640 x 480	16.7 M	240 Hz	28.4 MB
	800 x 600	16.7 M	240 Hz	26.4 MB
	1024 x 768	16.7 M	200 Hz	22.8 MB
	1152 x 864	16.7 M	170 Hz	20.3 MB
	1280 x 1024	16.7 M	150 Hz	16.6 MB
	1600 x 1000	64 K	120 Hz	22.6 MB
	1600 x 1000	16.7 M	120 Hz	13.3 MB
	1600 x 1200	64 K	100 Hz	20.8 MB
	1600 x 1200	16.7 M	100 Hz	9.5 MB
	1600 x 1280	64 K	100 Hz	20 MB
	1600 x 1280	16.7 M	100 Hz	8 MB
	1920 x 1080	64 K	85 Hz	19.9 MB
	1920 x 1080	16.7 M	85 Hz	7.7 MB
1920 x 1200	64 K	85 Hz	18.5 MB	
1920 x 1200	16.7 M	85 Hz	5 MB	
<b>Form Factor</b>	ATX			
<b>3D/2D Controller</b>	IBM <i>RC1000</i> Rasterizer Chip			
<b>VGA Controller</b>	IBM <i>RC1000</i> Rasterizer Chip			
<b>Bus Type</b>	AGP 2X/4X Version 2 compliant including side band signaling support			
<b>RAMDAC</b>	300 MHz IBM <i>RC1000</i>			
<b>Memory Type</b>	DDR SGRAM			
<b>Memory Amount</b>	64 MB DDR SGRAM unified frame buffer, Z-buffer and Texture storage			
<b>Memory Speed</b>	120 MHz			
<b>Controller Clock Speed</b>	120 MHz			
<b>Color Planes</b>	32 bit, True Color			
<b>Overlay Planes</b>	8-bit			
<b>Stencil Planes</b>	8-bit			
<b>Alpha Planes</b>	8-bit			
<b>Z-buffer</b>	24-bit			
<b>Video Engine support</b>	YUV (4:2:2, 4:2:0) conversion, point and bilinear scaling			
<b>Mini-Din Stereo Interface support</b>	StereoGraphics CrystalEyes shutter glasses			
<b>Monitor</b>	15-pin D-type analog			
<b>Flat Panel Interface</b>	DVI-D digital (supported resolutions up to 1280x1024)			
<b>Video Timings compliance</b>	VESA DMT 1.0 and VESA GTF 1.0 specifications			
<b>Total bits/pixel</b>	117			
<b>Maximum Vertical Refresh Rate</b>	100 Hz / 120 Hz when Quad Buffer Stereo is enabled			
<b>Maximum Pixel Clock</b>	300 MHz			
<b>Operating Systems</b>	Microsoft® Windows® 2000 and Windows NT 4.0			
Note: All drivers can be found on the Compaq web site at: <a href="http://www.compaq.com/support/files/workstations/us/index.html">www.compaq.com/support/files/workstations/us/index.html</a> .				

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