

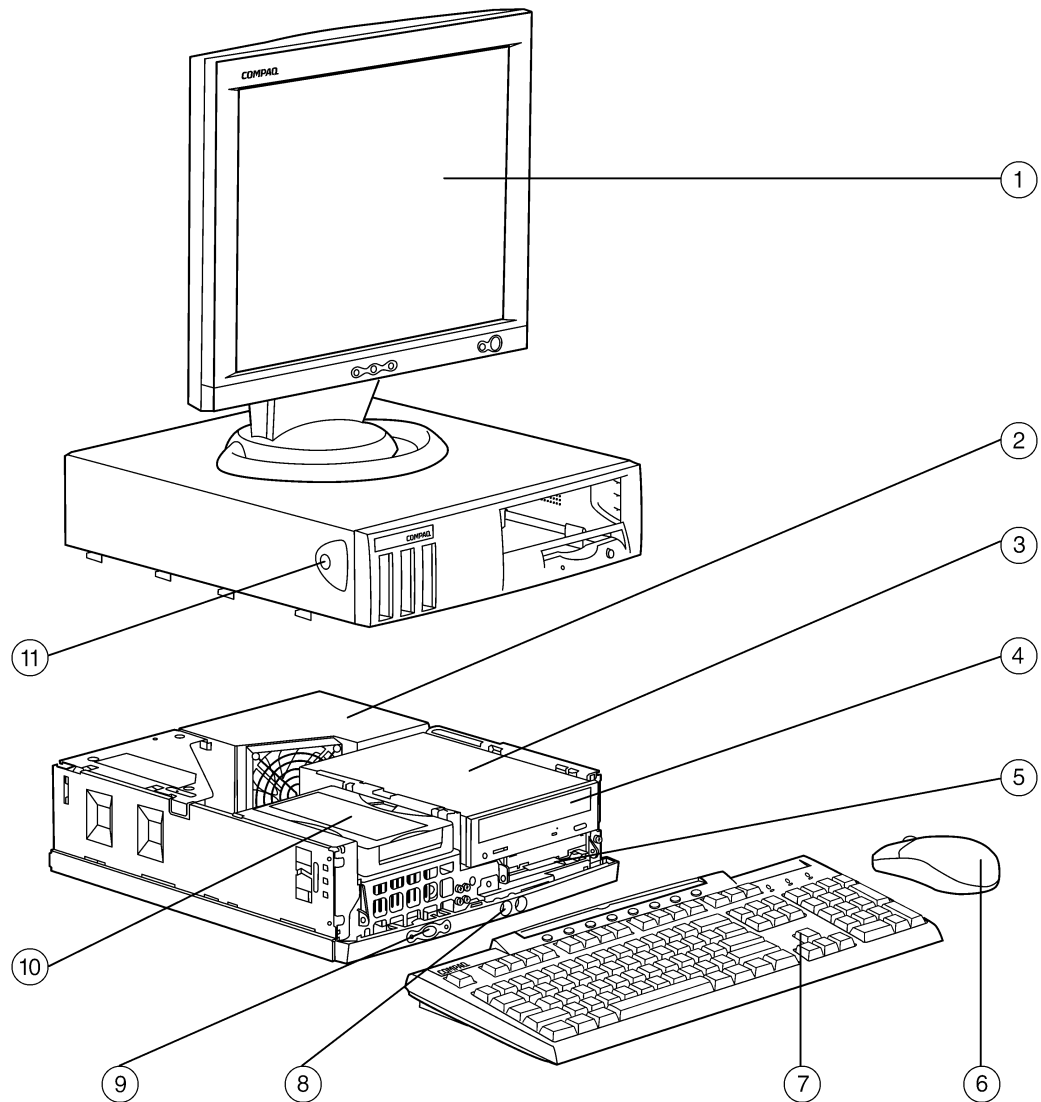
Overview

What's New

- New Evo industrial design with carbon and silver color
- New Celeron processors

At A Glance

- Intel® 815E chipset
- Intel® Celeron™ processors
- 100-MHz Front Side Bus
- Windows XP Ready
- Compaq Intelligent Manageability
- Service-friendly design, including Quick Release Cover Latches, Expansion Card Cage with Lift Levers, Tilt Drive Cage and Slide Out System Board
- Energy Star compliant with energy-saving features
- Protected by Compaq Services, including a three-year, limited warranty – Terms and conditions vary by country. Certain restrictions and exclusions apply.



- | | |
|----------------------------------|--|
| 1. TFT Monitor (sold separately) | 7. Easy Access Keyboard |
| 2. 120-Watt Power Supply | 8. Headphone and Microphone Connectors |
| 3. Tilt Drive Cage | 9. Dual-State Power Button |
| 4. CD-ROM Drive | 10. SMART III Ultra ATA/100 Hard Drive |
| 5. 1.44-MB Diskette Drive | 11. Quick Release Cover Latch |
| 6. 2-Button Scroll Mouse | |

Standard Features – Select Models

Compaq Evo Desktop D500 Series with 815E chipset

Pre-Configured Models

*(Geos to localize with favorable
configuration models and part numbers)*

Model Key

Example:

D3S/C1.0/20e/2/128c/n

D3S =

C1.0 =

20 =

815E =

2 =

128 =

c =

l =

n =

Evo D500 Small Form Factor

Celeron 1.0-GHz processor

Hard Drive

Chipset designation

Microsoft Windows 2000 SP2

Memory

CD-ROM

Integrated Intel 3D Direct AGP

Integrated Intel PRO/100 VM

Standard Features – Select Components

Compaq Evo Desktop D500 Series with 815E chipset

Processor and Speed	Intel Celeron Processors	Standard L2 Cache	256-KB Integrated ECC
	1-GHz (<i>see note below</i>)	Front Side Bus	100-MHz
	1.1-GHz (<i>see note below</i>)	Maximum Memory	512-MB
	1.2-GHz		
	1.3-GHz		

Note: Intel Celeron processors with speeds below 1.2-GHz have 128-KB L2 cache

Hard Drives	20-GB 7200 rpm Quiet Seek and Idle SMART III Ultra ATA/100
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Standard Memory	128-MB SDRAM (PC133)
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Removable Storage	1.44-MB Diskette Drive
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Optical Storage	48X CD-ROM Drive
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Keyboard/Mouse	Easy Access Keyboard 2-Button Scroll Mouse
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Audio	Integrated AC'97 Audio with Internal Speaker
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NIC	Integrated Intel PRO/100 VM Network Connection
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Graphics	Integrated Intel 3D Direct AGP Graphics with 4-MB Display Cache
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Operating System <i>One of the following</i>	Microsoft Windows 2000 SP2/Windows XP Professional Microsoft Windows 98 SE
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Intelligent Manageability	Yes
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Standard Features – Custom Components

Compaq Evo Desktop D500 Series with 815E chipset

Processor and Speed	Intel Celeron Processors	Standard L2 Cache	256-KB Integrated ECC
	1-GHz (<i>see note below</i>)	Front Side Bus	100-MHz
	1.1-GHz (<i>see note below</i>)	Maximum Memory	512-MB
	1.2-GHz		
	1.3-GHz		

Note: Intel Celeron processors with speeds below 1.2-GHz have 128-KB L2 cache

Hard Drives <i>One of the following</i>	20-GB 7200 rpm Quiet Seek and Idle SMART III Ultra ATA/100
	20-GB 5400 rpm Quiet Seek and Idle SMART III Ultra ATA/100
	40-GB 7200 rpm Quiet Seek and Idle SMART III Ultra ATA/100
	40-GB 5400 rpm Quiet Seek and Idle SMART III Ultra ATA/100
	60-GB 7200 rpm Quiet Seek and Idle SMART III Ultra ATA/100

Standard Memory <i>One of the following</i>	256-MB SDRAM (PC133)
	128-MB SDRAM (PC133)
	64-MB SDRAM (PC133)

Removable Storage	1.44-MB Diskette Drive Iomega Zip 250 Drive
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Optical Storage	48X CD-ROM Drive 16X DVD-ROM with RAM Read 24X/10X/40X CD-RW Drive 8X/4X/32X DVD/CD-RW Combo Drive
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Keyboard/Mouse	Easy Access Keyboard 2-Button Scroll Mouse
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Audio	Integrated AC'97 Audio with Internal Speaker
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NIC	Integrated Intel PRO/100 VM Network Connection
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Modem	Lucent V.90 56K PCI Modem
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Graphics	Integrated Intel 3D Direct AGP Graphics with 4-MB Video Cache
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Operating System <i>One of the following</i>	Microsoft Windows 2000 SP2/Windows XP Professional
	Microsoft Windows NT 4.0 SP6a
	Microsoft Windows 98 SE
	Microsoft Windows 2000 SP2/ Windows NT 4.0 SP6a
	Microsoft Windows 2000 SP2
	Microsoft Windows XP Professional
	Microsoft Windows XP Home

Software	Microsoft Windows Office XP Professional
	Microsoft Windows Office XP Small Business
	Microsoft Windows Office XP Personal
	Norton AntiVirus 2002

Intelligent Manageability	Yes
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Standard Features – Base Unit Details

Compaq Evo Desktop D500 Series with 815E chipset

Expansion Capability	Memory Expansion Slots	3 DIMMs
	Memory Type	SDRAM
	Maximum Memory	512-MB
Slots	AGP	0
	PCI	3
Bays	Internal	1
	External	2
Chassis	Color	Carbon/Silver
	Architecture	PCI
	System Board Form Factor	Compaq Small Form Factor with riser
	Flash ROM	Yes
Dimensions (H x W x D)	Inches	3.8 x 12.5 x 14.6 inches
	Centimeters	9.7 x 31.8 x 37.1 centimeters
Weight (approximate)	20 lbs/9.1 kg	
	Weight Supported	100 lbs/45.5 kg
Power Supply	Operating Voltage Range	90 to 132 VAC/180 to 264 VAC
	Rated Voltage Range	100 to 127 VAC/200 to 240 VAC
	Rated Line Frequency	50 to 60 Hz
	Rated Input Current	4A/2A
	Maximum Rated Power	120-Watt
	Power Supply Fan	Variable speed fan integrated into power supply
	Processor Fan	Fixed Speed
Acoustics	Idle (HDD spinning but not seeking)	31 DB
Temperature	Operating	50° to 95°F/10° to 35°C
	Non-operating	-4° to 140°F/-20° to 60°C
Humidity	Operating	8% to 90%
	Non-operating	5% to 95%
Maximum Altitude	Operating	10,000 ft/ 3,048 m
	Non-operating	30,000 ft/ 9,144 m

Standard Features – Base Unit Details

Compaq Evo Desktop D500 Series with 815E chipset

Interfaces	I/O Chip	Socket 370, Coppermine 128K FC-PGA
	Serial Port / UART Type	Yes
	Parallel Port	Yes
	USB	2 ports
	Infrared Port	No
	Network	RJ-45 (with integrated LEDs)
	Keyboard	Yes
	Mouse	Yes; PS/2
	Video	Yes
	Audio	Yes
Power Conservation 'Energy Saver'	Energy Star Compliant	Yes
	Power Consumption in ES Mode	http://www.eng.hou.compaq.com/-agency/e-star.htm Note: This Web site is available in English only.
	APM Support	Version 1.2
	Screen Blanking	Yes
	Hard Disk "Idle" Mode	Yes
	System Idle Mode	Yes
	Cache Memory Power-Down	No
	CD-Rom Down	Yes
	System Environmental Specifications Temperature, Acoustics, Shock, Vibration, and Altitude	http://envwebserver.eng.hou.compaq.com/envtestlab/prod02.htm Note: This Web site is available in English only.
Boot Support	Local Diskette Boot	Yes (Windows 95, Windows 98.DOS)
	Remote Diskette Boot	No
	Network Boot	Yes
Initial Configuration and Deployment	Altiris eXpress	http://www.compaq.com/im
	PC Transplant/PC Transplant PRO	http://www.compaq.com/im
	System Software Management ver 1.4	http://www.compaq.com/im
	Novel ZenWorks 2.0	http://www.compaq.com/im
	IM LC ver 1.6	http://www.compaq.com/im
	Support Software CD	http://www.compaq.com/im
	Compaq OS Restore CD	Note: These Web sites are available in English only. Yes

Standard Features – Base Unit Details

Compaq Evo Desktop D500 Series with 815E chipset

Asset Control	Asset Tag	Yes
	DIMM Serial Presence Detect	Yes
	Hard drive serial number, model, and manufacturer	Yes
	Monitor serial number, model and manufacturer	Yes
	System serial number, model, and manufacturer	Yes
	ROM revision levels	Yes
	Systemboard revision level	Yes
	Compaq Fingerprint Identification Technology	Yes/Optional
	Configuration Control Hardware	No
	DMI BIOS	Yes
	Memory Change Alert	Yes
	Ownership Tag	Yes
	Kensington Lock Support	Yes
Security Module	Optional	
Standard Security Features	Cable Lock Provision	Yes
	Power-On Password	Yes
	QuickBlank/QuickLock	No
	Serial, Parallel, USB Port Control	Yes
	Removable Media Write/Boot Control	Yes
	Setup Password	Yes
	Kensington Lock Support	Yes
Software Updating and Management	Compaq Info Messenger	Yes
	Remote Security Management	Yes
	Remote ROM Flash	Yes, requires CPQRS driver
	Remote Wakeup/Remote Shutdown	Yes
	ROM-Based Setup and Diagnostics	Yes
	Support Software CD and WWW site	Yes
Fault Notification and Recovery	DMI BIOS	Yes
	SMART Hard Drives, Fault Notification, & Prefailure Warranty	Yes
	Proactive Backup	Yes
	ECC Memory, Fault Notification, and Pre-failure Warning	Not Supported; 815E does not support ECC memory
	Processor Fault Notification and Prefailure Warranty	Yes
	Surge Tolerant Power Supply	Yes
	Thermal Sensor	Yes
	Ultra ATA Integrity Monitoring	Yes

Standard Features – Base Unit Details

Compaq Evo Desktop D500 Series with 815E chipset

Other Features	ACPI-Ready Hardware	Yes
	Compaq Insight Manager LC and XE Agents	Yes
	Altiris Agent	Yes
	Compaq Management Solutions Partners Program	Yes
	Dual-State Power Button	Yes
	Compaq Management Solutions Partners Program	Yes
	Wired for Management Support	Yes

Intelligent Manageability Compaq Intelligent Manageability, a key component of PC Lifecycle Solutions, is the broad set of manageability features found on all Compaq desktops, portables, workstations, and server products. These best-in-class features on PC clients comply with industry standards, such as DMI and Wired for Management, while pioneering new ground in client manageability. Compaq introduced the industry's first line of manageable clients in 1995 and has been driving the industry ever since. With Compaq's lifecycle management philosophy, enterprises have all of the pieces for end-to-end management and proven tools for hassle-free management of PCs and significantly lower total cost of ownership.

Intelligent Manageability offers solutions in the areas of Initial Configuration and Deployment, Asset Tracking and Security, Software Updating and Management, and Fault Notification and Recovery. For more information, visit our Web site: www.compaq.com/im. Note: This Web site is available in English only.

Software	Windows 98 SE	Yes
	Windows NT 4.0 SP6a	Yes
	Windows 2000 SP2	Yes
	Computer Setup Utility	Yes
	Insight Personal Edition	Yes
	Diagnostics for Windows	Yes
	Diagnostics for DOS	No
	Microsoft Internet Explorer	Yes
	Compaq Information Center	No
	Intelligent Manageability Agent	Yes
	Base OS (W2k SP2, NT4 SP6, or Win98 SE)	Yes
	Intelligent Manageability Agents	Yes
	Remote Manageability	Yes
	Altiris Express	Yes
	Internet Explorer 5.01	Yes
	Device drivers for basic HW components: if not already embedded in the base OS (Graphics, SCSI, Audio, NIC, Modem, SCSI, etc.)	Yes
	Device drivers for any options/modules ordered through CTO: Yes if not already embedded in the OS	Yes
	Windows Diagnostics	Yes
	Applicable Microsoft fixes	Yes
	Internet Favorites	Yes

Standard Features – Base Unit Details

Compaq Evo Desktop D500 Series with 815E chipset

Service and Support

On-site Warranty and Service ^{Note 1}: This three-year, limited warranty and service offering delivers three years of on-site, next business-day ^{Note 2} service for parts and labor and includes free telephone support ^{Note 3} 24 x 7. Global coverage ^{Note 2} ensures that any product purchased in one country and transferred to another, non-restricted country will remain fully covered under the original warranty and service offering.

Note 1: Terms and conditions may vary by country. Certain restrictions and exclusions apply.

Note 2: On-site service may be provided pursuant to a service contract between Compaq and an authorized Compaq third-party provider, and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country.

Note 3: Technical telephone support applies only to Compaq-configured, Compaq and Compaq-qualified, third-party hardware and software. Toll-free calling and 24 x 7 support may not be available in some countries.

After-Market Options

Hard Drives

SMART III Ultra ATA/100 Hard Drives with Drive Protection System (DPS)

120-GB 7200 rpm SMART III Ultra ATA Quiet Seek and Idle Hard Drive with DPS (worldwide)	250021-B21
80-GB 7200 rpm SMART III Ultra ATA Quiet Seek and Idle Hard Drive with DPS (worldwide)	250020-B21
40-GB 7200 rpm SMART III Ultra ATA Quiet Seek and Idle Hard Drive with DPS (worldwide)	201066-B21
20-GB 7200 rpm SMART III Ultra ATA Quiet Seek and Idle Hard Drive with DPS (worldwide)	251974-B21

Input/Output Devices

Keyboards

Compaq Easy Access Keyboard (carbon)	202109-xx8
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Mice

Compaq 2-Button Scroll Mouse	170299-B22
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Memory (DIMMs)

133-MHz SDRAM DIMMs

256-MB Memory Kit (1 x 256-MB SDRAM DIMM, 133 MHz)	174225-B21
128-MB Memory Kit (1 x 128-MB SDRAM DIMM, 133 MHz)	174224-B21
64-MB Memory Kit (1 x 64-MB SDRAM DIMM, 133 MHz)	174223-B21

Monitors

TFTs

Compaq TFT8030 Monitor (18-inch, Two-tone)	234362-001
Compaq TFT8030 Monitor (18-inch, Baseless)	250199-001
Compaq TFT5030 Monitor (15-inch, Two-tone)	228134-001
Compaq TFT5030 Monitor (15-inch, Baseless)	250198-001
Compaq TFT5015 Monitor (15-inch, Opal)	234043-001
Compaq TFT5015 Monitor (15-inch, Two-tone)	234044-001

CRTs

Professional Series

Compaq P1220 CRT Monitor (21-inch, Two-tone)	244374-xxx
Compaq P1210 CRT Monitor (21-inch, Opal)	210290-001
Compaq P1210 CRT Monitor (21-inch, Two-tone)	230538-001
Compaq P920 CRT Monitor (19-inch, Two-tone)	244375-xxx
Compaq P910 CRT Monitor (19-inch, Opal)	210254-001
Compaq P910 CRT Monitor (19-inch, Two-tone)	230535-001
Compaq P710 CRT Monitor (17-inch, Opal)	210189-001
Compaq P720 CRT Monitor (17-inch, Two-tone)	244373-xxx

Value Series

Compaq V720 CRT Monitor (17-inch, Opal)	232943-xxx
Compaq V720 CRT Monitor (17-inch, Two-tone)	232944-xxx
Compaq V710 CRT Monitor (17-inch, Opal)	187895-001
Compaq V510 CRT Monitor (15-inch, Opal)	228114-xxx
Compaq V510 CRT Monitor (15-inch, Two-tone)	228113-xxx

After-Market Options

Monitors <i>(continued)</i>	<i>Standard Series</i>	
	Compaq S910 CRT Monitor (19-inch, Opal)	138485-001
	Compaq S920 CRT Monitor (19-inch, Opal)	240325-xxx
	Compaq S920 CRT Monitor (19-inch, Two-tone)	240326-xxx
	Compaq S710 CRT Monitor (17-inch, Opal)	152991-001
	Compaq S710 CRT Monitor (19-inch, Carbon)	154499-002
	Compaq M710 CRT Monitor (19-inch, Opal)	154499-005
	Compaq S720 CRT Monitor (17-inch, Opal)	239286-xxx
	Compaq S720 CRT Monitor (17-inch, Two-tone)	239287-xxx
	Compaq M720 CRT Monitor (17-inch, Two-tone)	238994-xxx
	Compaq M720 CRT Monitor (17-inch, Opal)	240759-xxx
	Compaq S510 CRT Monitor (15-inch, Carbon)	168636-002
	Compaq M510 CRT Monitor (15-inch, Opal)	168636-005
Multimedia	Labtec Spin-22 Speakers (carbon)	246637-001
Optical Drives	<i>DVD-ROM Drives</i>	
	16X/40X DVD-ROM Drive (carbon)	237495-B22
	<i>DVD-RAM Drives</i>	
	4.7-GB DVD-RAM Drive (carbon)	294415-B22
	<i>CD-ROM Drives</i>	
	48X Max CD-ROM Drive (carbon)	187217-B21
	<i>DVD-RW Drives</i>	
	4.7-GB DVD-RW Drive (carbon)	246625-B22
	4.7-GB DVD-R Media (5-pack)	239405-001
	4.7-GB DVD-RW Media	249142-001
	<i>CD-RW Drives</i>	
	16X/10X/40X CD-RW Drive	240598-B22
	<i>Combo Drives</i>	
8X Combo DVD-ROM and CD-RW Drive (carbon)	244885-B22	
Removable Storage	<i>Floppy Drives</i>	
	ZIP 100 High-Capacity Floppy Drive (carbon)	294402-B22
	ZIP 100 Media 3-Pack	127591-001
	ZIP 250 High-Capacity Floppy Drive (carbon)	294416-B22
	ZIP 250 Media 3-Pack	217896-B21
	<i>Tape Drives</i>	
	TR5 10/20-GB Tape Drive (carbon)	294243-B21
	TR5 10/20-GB Media 3-Pack	125782-B21
35/70-GB AIT SCSI Tape Drive (carbon)	246626-B22	
Security	USB Biometric Identification Device	240238-B21
Chassis Enhancements	Tower Stand	234489-B22

Memory

815E chipset (128 MB)

133-MHz SDRAM DIMM MEMORY

STANDARD MEMORY

128-MB DIMM Standard

MAXIMUM MEMORY

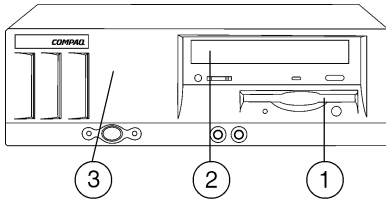
Support for up to 512-MB of DIMM memory is available with the installation of optional SDRAM Memory Kits.

Memory		Slot		
		1	2	3
Standard	128 MB	128 MB	Empty	Empty
Maximum	512 MB	256 MB	256 MB	Empty

Note: All Compaq Evo D500 Series contain three DIMM slots, but the D500 Small Form Factor with the 815E chipset and Celeron processor can only be upgraded to a maximum of 512-MB. The limitation of 512-MB maximum is a limitation of the memory controller in the 815E chipset.

Note: It is not necessary to add memory in pairs or kits. Memory upgrades are accomplished by adding single or multiple DIMMs of the same or varied sizes. This chart does not represent all possible memory configurations.

Storage



Small Form Factor Configuration

EVO D500 SMALL FORM FACTOR DRIVE SUPPORT

	Quantity Supported	Position Supported	Controller
SMALL FORM FACTOR			
Diskette Drives	1	1	Floppy
Tape Drive	1	2	IDE
CD-ROM Drives	1	2	IDE
DVD-ROM Drives	1	2	IDE
SMART III Ultra ATA Hard Drives	1	3	IDE

Technical Specifications – Audio

Integrated AC '97 Audio with internal speaker	Card Type	Integrated
	Plug and Play	Yes
	Stereo Codec	Yes
	OPL3 FM Synthesis	Yes
	Sound Blaster Compatibility	Yes
	Ports	Microphone-in (10-Kohm Minimum) Line-in (10-Kohm Minimum) Headphone/Line-out (16-ohm Minimum)
	Sampling	7 kHz to 48 kHz
	Compression	ADPCM, ESPCM
	OS support	Windows 98 S.E. Windows 2000
	Wavetable Syntheses (software)	Yes

Technical Specifications – Communications

Integrated Intel PRO/100 VM Network Connection with WOL	Connectors	RJ-45		
	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		
	Standards Compliance	IEEE 802.3 (10 Mb/s Ethernet)		
		IEEE 802.3u (100 Mb/s Ethernet)		
	OS Driver Support	Windows 98 S.E.		
		Windows 2000 SP1		
	Remote Wakeup	Yes (WAKE signal)		
	Proactive Alert Technology	No		
	Environmental Requirements	Temperature	Operating	50° to 95° F/10° to 35° C
Non-operating			-4° to 140° F/-20° to 60° C	
Humidity		Operating	20% to 80%	
		Non-operating	10% to 90%	

Lucent V.90 56K PCI Win Modem	Data Transmission	V.90/K56flex technology speeds: 56,000 Kb/s maximum downstream data; controllerless		
	Data Speeds	(Upload only): 33,600; 31,200; 28,800; 26,400; 21,600; 19,200; 16,800; 14,400; 12,000; 9600; 7200; 4800; 2400; 1200; and 300 b/s		
	Data Standards	ITU V.90, ITU-T, V.34, V.32 (bis), V.22bis, V.22, V.21, V.23, and Bell 212A, and Bell 103.		
	Fax speeds	14400; 12000; 9600; 7200; 4800; 2400; 1200; 300 b/s		
	Fax mode Capabilities	Group 3 FAX: V.17, V.29, V.27ter, and V21 Channel 2., Class 1 interface, TIA/EIA-578		
	Error Correction and Data Compression	ITU-T recommended V.42 error correction, V.42 error correction (LAPM and MNP), V.42bis and MNP Class 5 data compression, ITU-T V.42bis data compression		
	Power Management	APM and ACPI states D0, D1, D2, and D3, Meets PCI 2.2 requirements and PC 99 requirements		
	Upgradability	Software driver upgradeable for future enhancements		
	Video	ITU-T V.80 video ready interface		
	Other	TIA/EIA 602 standard AT command set		
		Built-in DTE interface with speeds up to 115.2 Kb/s, parallel 16550a UART-compatible interface		
		Optional Ring wake signal		
	Operating temperature	32° to 104° F/0° to 40° C		
	Operating humidity	20% to 80%, non-condensing		
Operating System Driver Support	Microsoft Windows 98, 98SE, NT4.0, Windows 2000, Windows Millennium Edition			
Warranty	Product takes on the warranty of the Desktop in which they are installed.			

Technical Specifications – Graphics

Intel 3D Direct AGP with Graphics Performance Accelerator	Bus Type	Integrated		
	Standard Memory	Utilizes dynamic DVMT shared memory allocation		
	Upgradable To	not upgradeable		
	DAC Speed	230 MHz		
	MPEG Support (Software)	N/A		
	Engine Acceleration	3 ROP bitBLT Line Draw Text Color Expansion Basic Video Color Conversion and Scaling Triangle Setup Engine		
	OS Support	Windows 98, Windows 2000		
	Refresh Rate with Memory Indicated			
	Application	Resolution (Horizontal x Vertical)	Color Depth (Bits per Pixel)	Refresh Rate (Hz)
	2-D	640 x 480	4, 8, 16, and 24	60, 70, 72, 75, and 85
2-D	800 x 600	8, 16, and 24	60, 70, 72, 75, and 85	
2-D	1,024 x 768	8, 16, and 24	60, 70, 72, 75, and 85	
2-D	1,152 x 864	8, 16, and 24	60, 70, 72, 85, and 85	
2-D	1,280 x 1,024	8, 16, and 24*	60, 70, 72, 85, and 85	
2-D	1,600 x 1200	8	60, 70, 72, and 75	
3-D	640 x 480	16	60, 70, 72, 75, and 85	
3-D	800 x 600	16	60, 70, 72, 75, and 85	
3-D	1,024 x 768	16	60, 70, 75, and 85	
4bpp (bits per pixel) = 16 colors				
8 bpp = 256 colors				
16bpp = 65, 536 colors				
24bpp = 16 million colors				
*24 at 60, 70, 75, and 85 only				

Technical Specifications – Hard Drives

7200 rpm SMART III Ultra ATA/100 Hard Drives	60-GB	Capacity	60,000 MB	
		Rotational Speed	7200 rpm	
		Interface	Ultra ATA/100	
		Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Transfer Rate Synchronous (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 ms (21.1 ms quiet seek)
		Physical Configuration	Logical Blocks	78,165,360
	Operating Temperature	41° to 131°F/5° to 55°C		

Note: 60-GB capacity points include Quiet Idle technology, which reduces acoustic levels approximately 5 decibels, and ship worldwide.

	40-GB	Capacity	40,000 MB	
		Rotational Speed	7200 rpm	
		Interface	Ultra ATA/100	
		Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Transfer Rate Synchronous (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 ms (21.1 ms quiet seek)
		Physical Configuration	Logical Blocks	78,165,360
	Operating Temperature	41° to 131°F/5° to 55°C		

Note: 40-GB capacity points include Quiet Idle technology, which reduces acoustic levels approximately 5 decibels, and ship worldwide.

	20-GB	Capacity	20,000 MB	
		Rotational Speed	7200 rpm	
		Interface	Ultra ATA/100	
		Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Transfer Rate Synchronous (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 ms (21.1 ms quiet seek)
		Physical Configuration	Logical Blocks	39,102,336
	Operating Temperature	41° to 131°F/5° to 55°C		

Note: 20-GB 7200rpm drives shipping in EMEA with Quiet Seek also have Quiet Idle technology, which reduces acoustic levels by approximately 5 decibels

Technical Specifications – Hard Drives

5400 rpm SMART III Ultra ATA/100 Hard Drives	40-GB	Capacity	40,000 MB		
		Rotational Speed	5400 rpm		
		Interface	Ultra ATA/100		
		Transfer Rate Synchronous (Maximum)	66 MB/s		
		Height	1 in/25.4 mm		
		Width	3.5 in/88.9 mm		
		Seek Time (typical reads, including settling)	Single Track	1.5 ms (2.9 ms quiet seek)	
			Average	10.5 ms (12.4 ms quiet seek)	
			Full-Stroke	23 ms (23 ms quiet seek)	
		Physical Configuration	Logical Blocks	39,102,336	
Operating Temperature	41° to 131°F/5° to 55°C				
	20-GB	Capacity	20,000 MB		
		Rotational Speed	5400 rpm		
		Interface	Ultra ATA/100		
		Transfer Rate Synchronous (Maximum)	66 MB/s		
		Height	1 in/25.4 mm		
		Width	3.5 in/88.9 mm		
		Seek Time (typical reads, including settling)	Single Track	1.5 ms (2.9 ms quiet seek)	
			Average	10.5 ms (12.4 ms quiet seek)	
			Full-Stroke	23 ms (23 ms quiet seek)	
		Physical Configuration	Logical Blocks	39,102,336	
Operating Temperature	41° to 131°F/5° to 55°C				
10,000 rpm Wide Ultra3 SCSI Hard Drives	36.4-GB	Capacity	36,400 MB		
		Rotational Speed	10,000 rpm		
		Height	1 in/25.4 mm		
		Width	3.5 in/88.9 mm		
		Interface	Ultra3 (Ultra160) SCSI		
		Transfer Rate Synchronous (Maximum)	160 MB/s		
		Seek Time (typical reads, including settling)	Single Track	0.6 ms	
			Average	4.7 ms	
			Full-Stroke	12 ms	
		Logical Blocks	71,132,000		
Operating Temperature	50° to 95°F/10° to 35°C				

Technical Specifications – Input/Output Devices

Compaq Easy Access Keyboard	Dimensions (HxWxD)	18.3 x 6.3 x 1.4 in/465 x 160 x 36 mm		
	Weight	Approximately 2 lbs/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 – Input/Output Devices

Compaq 2-Button Scroll Mouse	Scroll Wheel	8 mm		
	Maximum Rotation Speed	30 mm/s		
	Switch Type	Light force micro-switch		
	Switch Life	1 million operations		
	Mechanical Life	Minimum 200,000 revolutions		
	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	
		Electrical	Operating Voltage	+5VDC ± 10%
			Power Consumption	15mA
	System Consumption		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	Resolution	400 ± 20% DPI	
		Tracking Speed	10 in/s maximum	
		Acceleration	100 in/s	
		Switch Actuation	85 g nominal peak force	
Switch Life		1,000,000 operations (using Hasco modified tester)		
Cable Length		2 m		
PC98-99		Mechanically compliant		
Regulatory Approvals	UL, CSA, FCC, CE Mark, TUV, TUV GS, VCCI, BCIQ, C-Tick			

Technical Specifications – Optical Storage

48X CD-ROM Drive	Interface	ATAPI IDE		
	Data buffer	16.6 Mbps		
	Data transfer rate	Sustained	150 Kbps minimum (audio)	
		Variable (CD)	3,000 to 7,200 Kbps	
	Disk rotation technology	CAV (Constant Angular Velocity)		
	Access time (ms)	Random: <100 ms	Full-stroke seek: <150 ms	
	Average access time	< 80 ms		
	Cache buffer (standard/maximum)	128 KB		
	Disk formats read	Multi-session Photo CD, multi-read CD-ROM, CD text, audio CD, CD-I, CD-RW, CD-R, CD-Extra, CD-ROM XA		
	Disk formats written	None		
	Disk capacity (CD)	650 MB		
	Block size	Mode 1—2,048 bytes Mode 2—2,340 / 2,336 bytes CD-DA—2,352 bytes CD-XA—2,328 bytes		
	Diameter	12 cm; 8 cm		
	Thickness	1.2 mm		
	Track pitch	1.6 μ m		
	Audio output level	Line-out	0.7 V @ 47 Kohm	
		Headphone	0.6 V @ 32 ohm	
	Startup time	<7 seconds (typical); < 30 seconds with multi-session		
	Operating conditions	Temperature	41° to 113° F (5° to 45° C)	
		Relative humidity	10% to 80%	
	Dimensions (HxWxD, maximum)	1.7 x 5.9 x 8.2 inches (4.3 x 15.0 x 20.8 cm)		
	Weight	2.6 pounds (1200 g)		
	Operating systems supported	Microsoft Windows 98/98SE, Microsoft Windows 2000, and Microsoft Windows NT 4.0 SP4 or later		
	MPEG playback graphics solution support	None		

Technical Specifications – Optical Storage

24X/10X/40X CD-RW Drive	Interface	ATAPI IDE		
	Media formats written	CD-R and CD-RW		
	Media capacity	650 MB		
	Write methods	Disc-at-once, track-at-once, session-at-once, fixed packet, and variable packet		
	Recording/playing time	74 minutes		
	Data transfer rates	Sustained	CD-R write—2,400 Kbps (16X) CD-RW write (1-4X media) —1,500 Kbps (4X) CD-RW write (4-10X media) —1,500 Kbps (10X) CD-RW read—1,500 Kbps (10X) Digital audio extraction (minimum) —1,500 Kbps (10X)	
		Variable	CD-ROM, CD-R read—1,500 to 6,000 Kbps (10X to 40X)	
	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 (mandatory and default setting) ATA UltraDMA mode 1—24 Mbps (optional); mode 2—33 Mbps (optional)		
	Media formats read	CD-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	
	Rotational speed	17X—40X CAV	8,350 RPM, constant	
		16X CLV	3,424—7,952 RPM	
		10X CLV	2,140—4,970 RPM	
		8X CLV	1,712—3,976 RPM	
		4X CLV	856—1,988 RPM	
	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	120 mm or 80 mm		
	Track pitch	1.6 μ m		
	Disc loading mechanism	Half-height, tray load		
Operating conditions	Temperature	41° to 113° F (5° to 45° C) operating; -4° to 140° F		
	Humidity	10% to 80%		
Mounting orientation	Horizontal or vertical			
Dimensions	Fits in a standard 5.25-inch drive bay			
Weight	2.6 pounds (1.2 kg)			
Approvals/environmental	UL 94 and 1950, CSA, CE, FDA, FCC			
Operating systems supported	Microsoft Windows 98, Microsoft Windows NT 4.0, Microsoft Windows 2000			

Technical Specifications – Optical Storage

16X/40X DVD-ROM Drive with RAM Read	Bus	Ultra DMA 33
	Data transfer rate (1 KB = 1024 bytes)	Sustained DVD = 8.1 Mbps to 21.6 Mbps CD-ROM = 2.55 Kbps to 6.00 Kbps
	Disc rotation technology	DVD—CAV (Constant Angular Velocity) CD—CAV
	Access time (ms)	Random DVD = <100 ms; CD-ROM = < 80 ms Full stroke seek DVD = <240 ms; CD-ROM = <160 ms
	Cache buffer standard / max	512 KB
	ATAPI interface	ATAPI
	Disc formats read	DVD-RAM, DVD-ROM, DVD-video, DVD-R, DVD-RW, DVD-RAM, Photo CD/multi-session, CD-ROM, CD text, audio CD, CD-I, CD-RW, CD-R, CD-DA, video CD, CD Extra, CD-ROM XA, MPEG, MPC level
	Disc formats written	None
	Disc	Capacity CD—650 MB DVD—4.7 GB Block size Mode 0—2,352 (bytes) Mode 1—2,352 / 2,340 / 2,336 / 2,048 (bytes) Mode 2—2,352 / 2,340 / 2,336 / 2,048 (bytes) DVD—2,048 (bytes) Diameter 12 cm, 8 cm Thickness 1.2 mm (CD-ROM) 1.2 mm (DVD) Track pitch 1.6 µm (CD-ROM) 0.74 µm (DVD)
	Audio output level	Line out 0.7± 0.1 Vrms Headphones 0.45 ± 0.2 Vrms
	Operating conditions	Temperature 41° to 113° F (5° to 45° C) Humidity 5% to 85% relative humidity
	Dimensions (HxWxD)	1.67 x 5.83 x 8.18 inches (4.23 x 14.81 x 20.75 cm)
	Weight	2.22 pounds (1 kg)
	Agency approvals / environmental	UL, CSA, TUV, FDA, FCC, CE, EMI
	OS support	Microsoft Windows 98/98SE, Microsoft Windows Me, Microsoft Windows 2000, and Microsoft Windows NT 4.0 <i>Note: MPEG video playback is not supported on Microsoft Windows NT.</i>
	MPEG video playback compatibility	Refer to the platform for support
	RPC2 (Regional Protection Control)	Yes
	Minimum CPU supported	Intel® Pentium® II 400 MHz or Intel Celeron™ 466 MHz
	Mounting orientation	Operates in horizontal or vertical position

Technical Specifications – Optical Storage

8X/4X/32X DVD/CD-RW Combo Drive	Orientation	Either horizontal or vertical	
	Tray load	5.25 inch half-height	
	Interface type	ATAPI	
	Dimensions—external, excluding bezel (W x H x D)	5.8 x 1.7 x 7.7 inches (146.5 x 42.1 x 196 mm)	
	Disc diameter	5 inches, 3 inches (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)	
	Reference scanning velocity	1.2 m/s (CD); 3.5 m/s (DVD SL); 3.8 m/s (DVD DL)	
	Read only disc parameters	Formats and modes supported	CD-ROM—Mode 1; CD-ROM XA—Mode 2 (forms 1 and 2); CD digital audio; CD Extra; CD-I—Mode 2 (forms 1 and 2) and CD-I-Ready; Photo CD (single and multi-session); video CD; DVD (single- and double-layer); DVD-R (3.95-GB); DVD-R (4.7-GB)
		Capacity	540 MB (CD— mode 1, 12 cm); 650 MB (CD— mode 2, 12 cm); 700MB (CD-ROM—80 minutes); 180 MB (CD-ROM—8 cm); 4.7 GB (DVD-5); 8.5 GB (DVD-9); 9.4 GB (DVD-10)
		Block size	Mode 1—2,048 and 2,352 bytes; mode 2, form 1—2,048, 2,328, 2,336, 2,340 and 2,352 bytes; mode 2, form 2—2,328, 2,336, 2,340 and 2,352 bytes; CD-DA—2,352 and 2,368 bytes; DVD—2,048 bytes
	Writeable disc parameters	Disc type	CD-R and CD-RW
		Write methods	Disc at Once, Track at Once, Session at Once, Variable Packet, Fixed Packet
Format and modes supported		CD-ROM (mode 1); CD-ROM XA (mode 2, forms 1 and 2); CD digital audio, CD-I (mode 2, forms 1 and 2); video CD	
Capacity		540 MB (mode 1, 12 cm); 650 MB (mode 2, 12 cm); 700 MB (CD-ROM, 80 minutes); 180 MB (CD-ROM, 8 cm)	
Block size		Mode 1 Disc type—2,048 bytes; mode 2, form 1—2,048 and 2,352 bytes; mode 2, form 2—2,352 bytes; CD-DA—2,352 bytes	
Access times (typical reads, including settling)	Random	< 130 ms (typical)	
	Full stroke	< 240 ms (typical)	

Technical Specifications – Optical Storage

8X/4X/32X DVD/CD-RW Combo Drive (continued)	Data transfer rates	Sustained—1,200 KB/s (8X) CD-R write
		Sustained—600 KB/s (4X) CD-RW
		Sustained—1,200 KB/s (8X) Digital audio extraction (minimum CAV)
		Variable—1,500 to 4,800 KB/s (10X to 32X) CD-ROM, CD-R read, CD-RW read
		Variable—2,705 to 10,820 KB/s (2X to 8X) DVD read
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—default setting if UDMA supported); ATA UltraDMA mode 1 (24 Mbps, optional), mode 2 (33 Mbps, optional)
	Cache buffer	2 MB (minimum)
	Startup time (single)	< 7 seconds (typical)
	Startup time (multi-session)	< 30 seconds (typical)
	Stop time	< 4 seconds
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 (< 1 A typical, < 1.5 A maximum) 12 VDC (< 1 A typical, < 1.5 A maximum)
	Total drive power (standby mode)	< 2.5 watt
	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 113°F (5° to 45°C)
	Relative humidity (operating)	10% to 85%
	Maximum wet bulb temperature (operating)	86°F (30°C)
Certifications, requirements	MPC-3 compliant, multi-read requirements, PC'99 certified, ACA AS/NZS 3548, ANSI C63.4-1992, ATAPI Spec SFF-8020, ATA Spec X3T9.2791D, Australian Communications Authority, CB Bulletin No. 92A1, CFR 21, Part 1040, CSA C22.2 No. 950, C.I.S.P.R. Pub 22, ECMA 74, EEC/93/68, EEC/73/23, EEC/99/5, EMKO-TSE (74SEC) 207/94	
Operating systems supported	Microsoft Windows 98, Microsoft Windows NT 4.0, Microsoft Windows 2000 Note: MPEG video playback is not supported on Microsoft Windows NT.	
Option kit contents	8X Combo CD-RW/DVD-ROM Drive, Roxio™ EasyCD Creator, InterVideo™ WinDvd™ 2000, Dantz Retrospect Express for RW, CDR media, CD-RW media, audio cable, and installation guide	

Technical Specifications – Removable Storage

1.44-MB Diskette Drive	Diskette Size	3.5 in.		
	LED Indicators (front panel)	Green		
	Read/Write Capacity per diskette (high/low density)	1.44 MB/720 KB		
	Drive Supported	One		
	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)	169/94 ms	
		Settling Time	15 ms	
Latency Average		100 ms		

Zip 250 Drive	Interface	ATAPI IDE		
	Media format supported	Zip disk		
	Media capacity	250 MB		
	Access time	29 ms (average)		
	Drive rotational speed	2,941 rpm		
	Size	Fits into a 5.25-inch bay (with bracket)		
	Data transfer rate	Maximum sustained	2.4 Mbps	
			1.4 Mbps	
			1.4 Mbps (100 MB), 2.4 MB/s (250 MB)	
			0.3 Mbps (100 MB), 2.4 MB/s (250 MB)	
		11.1 Mbps		
Operating conditions	Temperature	50° to 125° F (10° to 51.5° C)		
	Humidity	20% to 80%		
Compatible operating system	Microsoft Windows 98/98SE, Microsoft Windows 2000, and Microsoft Windows NT 4.0 SP4 or later			

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