

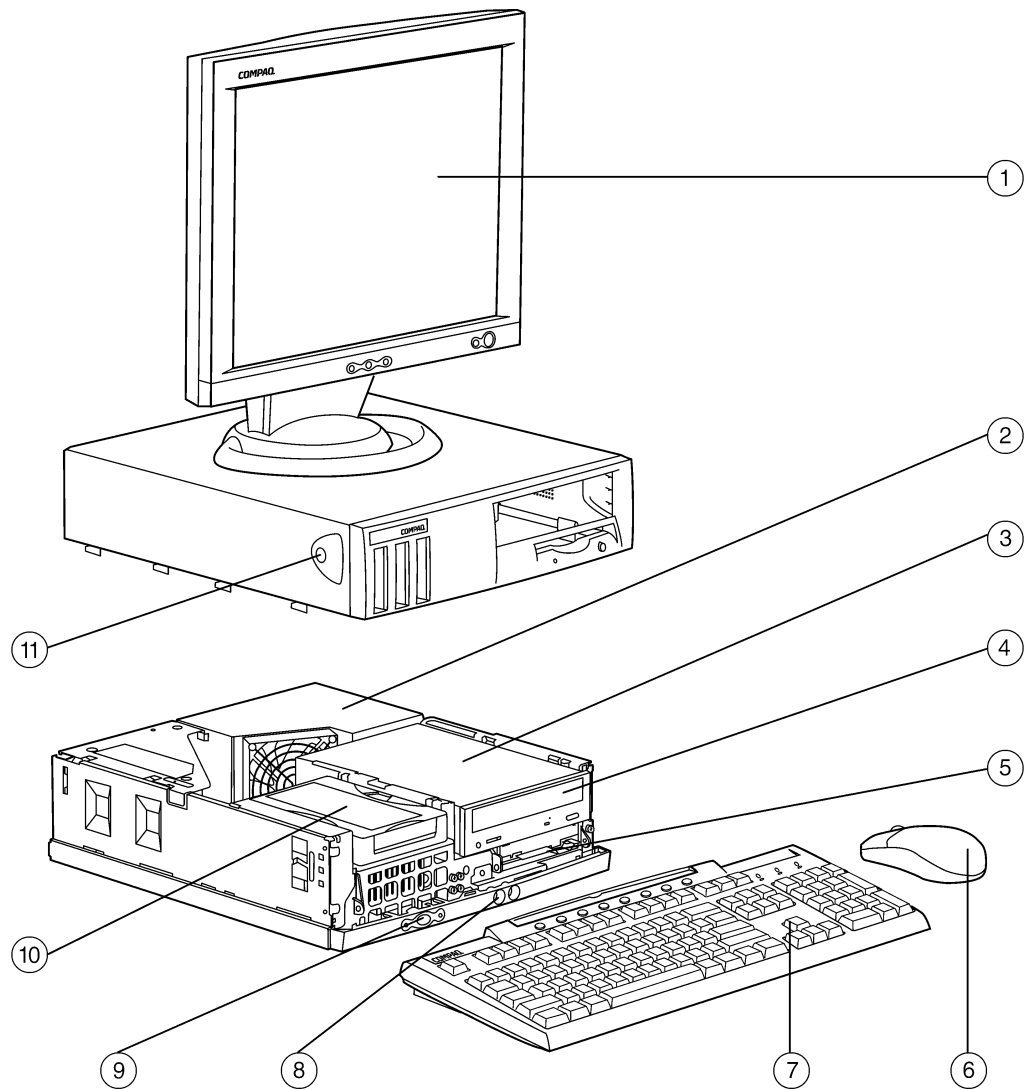
### Overview

#### 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 3-1-1 limited warranty. Terms and conditions vary by country. Certain restrictions and exclusions apply. Three-year onsite and labor not available in all countries.



1. TFT Monitor (sold separately)
2. 120-Watt Power Supply
3. Tilt Drive Cage
4. CD-ROM Drive
5. 1.44-MB Diskette Drive
6. 2-Button Scroll Mouse

7. Easy Access Keyboard
8. Headphone and Microphone Connectors
9. Dual-State Power Button
10. SMART III Ultra ATA/100 Hard Drive
11. Quick Release Cover Latch

## Standard Features – Select Models

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### Compaq Evo Desktop D300 Series with 815E chipset

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#### Pre-Configured Models

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

#### Model Key

Example:

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

D3S =	Evo D300 Small Form Factor
C1.0 =	Celeron 1.0-GHz processor
20 =	Hard Drive
815E =	Chipset designation
2 =	Microsoft Windows 2000 SP2
128 =	Memory
c =	CD-ROM
l =	Integrated Intel 3D Direct AGP
n =	Integrated Intel PRO/100 VM

## Standard Features – Select Components

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### Compaq Evo Desktop D300 Series with 815E chipset

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

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

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<b>Hard Drives</b>	20-GB 5400 rpm Quiet Seek and Idle SMART III Ultra ATA/100
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<b>Standard Memory</b>	128-MB SDRAM (PC133)
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<b>Removable Storage</b>	1.44-MB Diskette Drive
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<b>Optical Storage</b>	48X CD-ROM Drive
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<b>Keyboard/Mouse</b>	Easy Access Keyboard 2-Button Scroll Mouse
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<b>Audio</b>	Integrated AC'97 Audio with Internal Speaker
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<b>NIC</b>	Integrated Intel PRO/100 VM Network Connection
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<b>Graphics</b>	Integrated Intel 3D Direct AGP Graphics with 4-MB Display Cache
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<b>Operating System</b> <i>One of the following</i>	Microsoft Windows 2000 SP2/Windows XP Professional Microsoft Windows 98 SE
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<b>Intelligent Manageability</b>	Yes
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## Standard Features – Custom Components

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### Compaq Evo Desktop D300 Series with 815E chipset

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

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

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<b>Hard Drives</b> <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

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

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<b>Removable Storage</b>	1.44-MB Diskette Drive
	Imega Zip 250 Drive

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<b>Optical Storage</b>	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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<b>Keyboard/Mouse</b>	Easy Access Keyboard
	2-Button Scroll Mouse

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<b>Audio</b>	Integrated AC'97 Audio with Internal Speaker
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<b>NIC</b>	Integrated Intel PRO/100 VM Network Connection
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<b>Modem</b>	Lucent V.90 56K PCI Modem
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<b>Graphics</b>	Integrated Intel 3D Direct AGP Graphics with 4-MB Video Cache
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<b>Operating System</b> <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

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<b>Software</b>	Microsoft Windows Office XP Professional
	Microsoft Windows Office XP Small Business
	Microsoft Windows Office XP Personal
	Norton AntiVirus 2002

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<b>Intelligent Manageability</b>	Yes
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## Standard Features – Base Unit Details

### Compaq Evo Desktop D300 Series with 815E chipset

<b>Expansion Capability</b>	Memory Expansion Slots	3 DIMMs
	Memory Type	SDRAM
	Maximum Memory	512-MB
<b>Slots</b>	AGP	0
	PCI	3
<b>Bays</b>	Internal	1
	External	2
<b>Chassis</b>	Color	Carbon/Silver
	Architecture	PCI
	System Board Form Factor	Compaq Small Form Factor with riser
	Flash ROM	Yes
<b>Dimensions (HxWxD)</b>	Inches	3.8 x 12.5 x 14.6 inches
	Centimeters	9.7 x 31.8 x 37.1 centimeters
<b>Weight (approximate)</b>	20 lbs/9.1 kg	
	Weight Supported	100 lbs/45.5 kg
<b>Power Supply</b>	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
<b>Acoustics</b>	Idle (HDD spinning but not seeking)	31 DB
<b>Temperature</b>	Operating	50° to 95°F/10° to 35°C
	Non-operating	-4° to 140°F/-20° to 60°C
<b>Humidity</b>	Operating	8% to 90%
	Non-operating	5% to 95%
<b>Maximum Altitude</b>	Operating	10,000 ft/ 3,048 m
	Non-operating	30,000 ft/ 9,144 m

## Standard Features – Base Unit Details

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### Compaq Evo Desktop D300 Series with 815E chipset

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<b>Interfaces</b>	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

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<b>Power Conservation 'Energy Saver'</b>	Energy Star Compliant	Yes
	Power Consumption in ES Mode	<a href="http://www.eng.hou.compaq.com/-agency/e-star.htm">http://www.eng.hou.compaq.com/-agency/e-star.htm</a> 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	<a href="http://envwebserver.eng.hou.compaq.com/envtestlab/prod02.htm">http://envwebserver.eng.hou.compaq.com/envtestlab/prod02.htm</a> Note: This Web site is available in English only.

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<b>Boot Support</b>	Local Diskette Boot	Yes (Windows 95, Windows 98.DOS)
	Remote Diskette Boot	No
	Network Boot	Yes

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<b>Initial Configuration and Deployment</b>	Altiris eXpress	<a href="http://www.compaq.com/im">http://www.compaq.com/im</a>
	PC Transplant/PC Transplant PRO	<a href="http://www.compaq.com/im">http://www.compaq.com/im</a>
	System Software Management ver 1.4	<a href="http://www.compaq.com/im">http://www.compaq.com/im</a>
	Novel ZenWorks 2.0	<a href="http://www.compaq.com/im">http://www.compaq.com/im</a>
	IM LC ver 1.6	<a href="http://www.compaq.com/im">http://www.compaq.com/im</a>
	Support Software CD	<a href="http://www.compaq.com/im">http://www.compaq.com/im</a>
	Compaq OS Restore CD	Yes Note: These Web sites are available in English only.

## Standard Features – Base Unit Details

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### Compaq Evo Desktop D300 Series with 815E chipset

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<b>Asset Control</b>	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	
<b>Standard Security Features</b>	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
<b>Software Updating and Management</b>	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
<b>Fault Notification and Recovery</b>	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

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### Compaq Evo Desktop D300 Series with 815E chipset

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<b>Other Features</b>	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

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**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](http://www.compaq.com/im). Note: This Web site is available in English only.

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<b>Software</b>	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: if not already embedded in the OS	Yes
	Windows Diagnostics	Yes
	Applicable Microsoft fixes	Yes
	Internet Favorites	Yes

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## Standard Features – Base Unit Details

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### Compaq Evo Desktop D300 Series with 815E chipset

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#### Service and Support

On-site Warranty [Note 1](#): This three-year, limited warranty covers all parts for three years and provides free, next-business-day [Note 2](#) service (parts and labor) for the first year and includes free telephone support [Note 3](#) 24 hours a day, 7 days a week. The customer may extend or upgrade the warranty to provide labor and/or on-site service for the second and third years. 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.

[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 third-party Compaq-qualified hardware and software. Toll-free calling and 24 x 7 support may not be available in some countries.

## After-Market Options

Hard Drives	<b><i>SMART III Ultra ATA/100 Hard Drives with Drive Protection System (DPS)</i></b>	
	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
	Ultra ATA RAID Card	238051-B21
Input/Output Devices	<b><i>Keyboards</i></b>	
	Compaq Easy Access Keyboard (carbon)	202109-xx8
	<b><i>Mice</i></b>	
	Compaq 2-Button Scroll Mouse	170299-B22
Memory (DIMMs)	<b><i>133-MHz SDRAM DIMMs</i></b>	
	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	<b><i>TFTs</i></b>	
	Compaq TFT8030 Monitor (18-inch, Carbon/Silver)	234362-001
	Compaq TFT8030 Monitor (18-inch, Baseless)	250199-001
	Compaq TFT5030 Monitor (15-inch, Carbon/Silver)	228134-001
	Compaq TFT5030 Monitor (15-inch, Baseless)	250198-001
	Compaq TFT5015 Monitor (15-inch, Opal)	234043-001
	Compaq TFT5015 Monitor (15-inch, Carbon/Silver)	234044-001
	<b><i>CRTs</i></b>	
	<b><i>Professional Series</i></b>	
	Compaq P1220 CRT Monitor (21-inch, Carbon/Silver)	244374-xxx
	Compaq P1210 CRT Monitor (21-inch, Opal)	210290-001
	Compaq P1210 CRT Monitor (21-inch, Carbon/Silver)	230538-001
	Compaq P920 CRT Monitor (19-inch, Carbon/Silver)	244375-xxx
	Compaq P910 CRT Monitor (19-inch, Opal)	210254-001
	Compaq P910 CRT Monitor (19-inch, Carbon/Silver)	230535-001
	Compaq P710 CRT Monitor (17-inch, Opal)	210189-001
	Compaq P720 CRT Monitor (17-inch, Carbon/Silver)	244373-xxx
	<b><i>Value Series</i></b>	
	Compaq V720 CRT Monitor (17-inch, Opal)	232943-xxx
	Compaq V720 CRT Monitor (17-inch, Carbon/Silver)	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, Carbon/Silver)	228113-xxx

## After-Market Options

<b>Monitors</b> <i>(continued)</i>	<b><i>Standard Series</i></b>		
	Compaq S910 CRT Monitor (19-inch, Opal)	138485-001	
	Compaq S920 CRT Monitor (19-inch, Opal)	240325-xxx	
	Compaq S920 CRT Monitor (19-inch, Carbon/Silver)	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, Carbon/Silver)	239287-xxx	
	Compaq M720 CRT Monitor (17-inch, Carbon/Silver)	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	
<b>Multimedia</b>	Labtec Spin-22 Speakers (carbon)	246637-001	
<b>Optical Drives</b>	<b><i>DVD-ROM Drives</i></b>		
	16X/40X DVD-ROM Drive (carbon)	237495-B22	
	<b><i>DVD-RAM Drives</i></b>		
	4.7-GB DVD-RAM Drive (carbon)	294415-B22	
	<b><i>CD-ROM Drives</i></b>		
	48X Max CD-ROM Drive (carbon)	187217-B21	
	<b><i>DVD-RW Drives</i></b>		
	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	
	<b><i>CD-RW Drives</i></b>		
	16X/10X/40X CD-RW Drive	240598-B22	
	<b><i>Combo Drives</i></b>		
	8X Combo DVD-ROM and CD-RW Drive (carbon)	244885-B22	
	<b>Removable Storage</b>	<b><i>Floppy Drives</i></b>	
		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	
<b><i>Tape Drives</i></b>			
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	
<b>Security</b>	USB Biometric Identification Device	240238-B21	

## Memory

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815E chipset (128 MB)

### 133-MHz SDRAM DIMM MEMORY

#### STANDARD MEMORY

128-MB DIMM Standard

#### MAXIMUM MEMORY

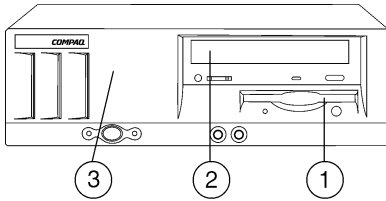
Support for up to 512-MB of DIMM memory is available with the installation of optional SDRAM Memory Kits.

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

Note: All Compaq Evo D300 Series contain three DIMM slots, but the D300 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 D300 SMALL FORM FACTOR DRIVE SUPPORT

	Quantity Supported	Position Supported	Controller
<b>SMALL FORM FACTOR</b>			
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
	<b>Plug and Play</b>	Yes
	<b>Stereo Codec</b>	Yes
	<b>OPL3 FM Synthesis</b>	Yes
	<b>Sound Blaster Compatibility</b>	Yes
	<b>Ports</b>	Microphone-in (10-Kohm Minimum) Line-in (10-Kohm Minimum) Headphone/Line-out (16-ohm Minimum)
	<b>Sampling</b>	7 kHz to 48 kHz
	<b>Compression</b>	ADPCM, ESPCM
	<b>OS support</b>	Windows 98 S.E. Windows 2000
	<b>Wavetable Syntheses (software)</b>	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; controller less		
		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 upgradable 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				

## Technical Specifications – Graphics

Intel 3D Direct AGP with Graphics Performance Accelerator	<b>Bus Type</b>	Integrated		
	<b>Standard Memory</b>	Utilizes dynamic DVMT shared memory allocation		
	<b>Upgradable To</b>	not upgradeable		
	<b>DAC Speed</b>	230 MHz		
	<b>MPEG Support (Software)</b>	N/A		
	<b>Engine Acceleration</b>	3 ROP bitBLT Line Draw Text Color Expansion Basic Video Color Conversion and Scaling Triangle Setup Engine		
	<b>OS Support</b>	Windows 98, Windows 2000		
	<b>Refresh Rate with Memory Indicated</b>			
	<b>Application</b>	<b>Resolution (Horizontal x Vertical)</b>	<b>Color Depth (Bits per Pixel)</b>	<b>Refresh Rate (Hz)</b>
	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

<b>60-GB</b>	<b>Capacity</b>	60,000 MB
	<b>Rotational Speed</b>	7200 rpm
	<b>Interface</b>	Ultra ATA/100
	<b>Height</b>	1 in/25.4 mm
	<b>Width</b>	3.5 in/88.9 mm
	<b>Transfer Rate Synchronous (Maximum)</b>	100 MB/s
	<b>Seek Time (typical reads, including settling)</b>	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)
	<b>Physical Configuration</b>	Logical Blocks 78,165,360
	<b>Operating Temperature</b>	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.

<b>40-GB</b>	<b>Capacity</b>	40,000 MB
	<b>Rotational Speed</b>	7200 rpm
	<b>Interface</b>	Ultra ATA/100
	<b>Height</b>	1 in/25.4 mm
	<b>Width</b>	3.5 in/88.9 mm
	<b>Transfer Rate Synchronous (Maximum)</b>	100 MB/s
	<b>Seek Time (typical reads, including settling)</b>	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)
	<b>Physical Configuration</b>	Logical Blocks 78,165,360
	<b>Operating Temperature</b>	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.

<b>20-GB</b>	<b>Capacity</b>	20,000 MB
	<b>Rotational Speed</b>	7200 rpm
	<b>Interface</b>	Ultra ATA/100
	<b>Height</b>	1 in/25.4 mm
	<b>Width</b>	3.5 in/88.9 mm
	<b>Transfer Rate Synchronous (Maximum)</b>	100 MB/s
	<b>Seek Time (typical reads, including settling)</b>	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)
	<b>Physical Configuration</b>	Logical Blocks 39,102,336
	<b>Operating Temperature</b>	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

<b>Compaq Easy Access Keyboard</b>	<b>Dimensions (HxWxD)</b>	18.3 x 6.3 x 1.4 in/465 x 160 x 36 mm	
	<b>Weight</b>	Approximately 2 lbs/0.9 kg	
<b>Electrical</b>	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	
	<b>Mechanical</b>	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	
<b>Environmental</b>	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 Device

Compaq 2-Button Scroll Mouse	<b>Scroll Wheel</b>	8 mm	
	<b>Maximum Rotation Speed</b>	30 mm/s	
	<b>Switch Type</b>	Light force micro-switch	
	<b>Switch Life</b>	1 million operations	
	<b>Mechanical Life</b>	Minimum 200,000 revolutions	
	<b>Environmental</b>	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
		<b>Electrical</b>	Operating Voltage
	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
	<b>Mechanical</b>	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	
<b>Regulatory Approvals</b>	UL, CSA, FCC, CE Mark, TUV, TUV GS, VCCI, BCIQ, C-Tick		

## Technical Specifications – Optical Storage

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

## Technical Specifications – Optical Storage

24X/10X/40X CD-RW Drive	<b>Interface</b>	ATAPI IDE		
	<b>Media formats written</b>	CD-R and CD-RW		
	<b>Media capacity</b>	650 MB		
	<b>Write methods</b>	Disc-at-once, track-at-once, session-at-once, fixed packet, and variable packet		
	<b>Recording/playing time</b>	74 minutes		
	<b>Data transfer rates</b>	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)	
	<b>Data transfer modes</b>	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)		
	<b>Media formats read</b>	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		
	<b>Access times</b>	Random	<120 ms typical	
		Full stroke	<200 ms typical	
	<b>Rotational speed</b>	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	
	<b>Start-up time</b>	Single	<7 seconds typical	
		Multi-session	<30 seconds typical	
	<b>Stop time</b>	<4 seconds		
	<b>Block size</b>	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				
<b>Disc diameter</b>	120 mm or 80 mm			
<b>Track pitch</b>	1.6 $\mu$ m			
<b>Disc loading mechanism</b>	Half-height, tray load			
<b>Operating conditions</b>	Temperature	41° to 113° F (5° to 45° C) operating; -4° to 140° F		
	Humidity	10% to 80%		
<b>Mounting orientation</b>	Horizontal or vertical			
<b>Dimensions</b>	Fits in a standard 5.25-inch drive bay			
<b>Weight</b>	2.6 pounds (1.2 kg)			
<b>Approvals/environmental</b>	UL 94 and 1950, CSA, CE, FDA, FCC			
<b>Operating systems supported</b>	Microsoft Windows 98, Microsoft Windows NT 4.0, Microsoft Windows 2000			

## Technical Specifications – Optical Storage

<b>16X/40X DVD-ROM Drive with RAM Read</b>	<b>Bus</b>	Ultra DMA 33
	<b>Data transfer rate (1 KB = 1024 bytes)</b>	Sustained DVD = 8.1 Mbps to 21.6 Mbps CD-ROM = 2.55 Kbps to 6.00 Kbps
	<b>Disc rotation technology</b>	DVD—CAV (Constant Angular Velocity) CD—CAV
	<b>Access time (ms)</b>	Random DVD = <100 ms; CD-ROM = < 80 ms Full stroke seek DVD = <240 ms; CD-ROM = <160 ms
	<b>Cache buffer standard / max</b>	512 KB
	<b>ATAPI interface</b>	ATAPI
	<b>Disc formats read</b>	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
	<b>Disc formats written</b>	None
	<b>Disc</b>	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)
	<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>	1.67 x 5.83 x 8.18 inches (4.23 x 14.81 x 20.75 cm)
	<b>Weight</b>	2.22 pounds (1 kg)
	<b>Agency approvals / environmental</b>	UL, CSA, TUV, FDA, FCC, CE, EMI
	<b>OS support</b>	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>
	<b>MPEG video playback compatibility</b>	Refer to the platform for support
	<b>RPC2 (Regional Protection Control)</b>	Yes
	<b>Minimum CPU supported</b>	Intel® Pentium® II 400 MHz or Intel Celeron™ 466 MHz
	<b>Mounting orientation</b>	Operates in horizontal or vertical position

## Technical Specifications – Optical Storage

8X/4X/32X DVD/CD-RW Combo Drive	<b>Orientation</b>	Either horizontal or vertical
	<b>Tray load</b>	5.25 inch half-height
	<b>Interface type</b>	ATAPI
	<b>Dimensions—external, excluding bezel (W x H x D)</b>	5.8 x 1.7 x 7.7 inches (146.5 x 42.1 x 196 mm)
	<b>Disc diameter</b>	5 inches, 3 inches (12 cm, 8 cm)
	<b>Disc thickness</b>	0.05 inch (1.2 mm)
	<b>Track pitch</b>	1.6 $\mu$ m (CD), 0.74 $\mu$ m (DVD)
	<b>Disc center hole diameter</b>	0.6 inch (15 mm)
	<b>Reference scanning velocity</b>	1.2 m/s (CD); 3.5 m/s (DVD SL); 3.8 m/s (DVD DL)
	<b>Read only disc parameters</b>	Formats and modes supported
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
<b>Writeable disc parameters</b>	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
<b>Access times (typical reads, including settling)</b>	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 CAV) Digital audio extraction (minimum)
		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	<b>Diskette Size</b>	3.5 in.	
	<b>LED Indicators</b> (front panel)	Green	
	<b>Read/Write Capacity per diskette</b> (high/low density)	1.44 MB/720 KB	
	<b>Drive Supported</b>	One	
	<b>Drive Height</b>	One-third	
	<b>Drive Rotation</b>	300 rpm	
	<b>Transfer Rate</b> (high/low)	500/250 Kb/s	
	<b>Bytes/Sector</b>	512	
	<b>Sectors/Track</b> (high/low)	18/9	
	<b>Tracks/Side</b> (high/low)	80/80	
	<b>Access Times</b>	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	<b>Interface</b>	ATAPI IDE	
	<b>Media format supported</b>	Zip disk	
	<b>Media capacity</b>	250 MB	
	<b>Access time</b>	29 ms (average)	
	<b>Drive rotational speed</b>	2,941 rpm	
	<b>Size</b>	Fits into a 5.25-inch bay (with bracket)	
	<b>Data transfer rate</b>	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	
<b>Operating conditions</b>	Temperature	50° to 125° F (10° to 51.5° C)	
	Humidity	20% to 80%	
<b>Compatible operating system</b>	Microsoft Windows 98/98SE, Microsoft Windows 2000, and Microsoft Windows NT 4.0 SP4 or later		

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