

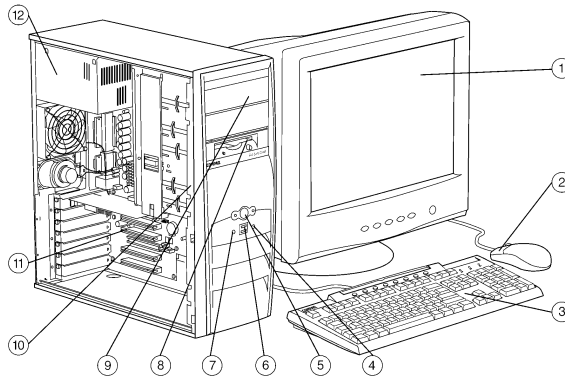
### Overview

#### What's New

- Intel® Pentium® 4 processors
- Intel® 845 chipset
- New *Evo* industrial design with carbon and silver color
- New Small Form Factor and Desktop chassis

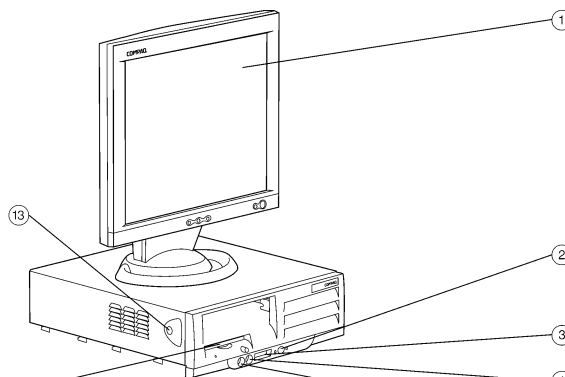
#### At A Glance

- Intel® Pentium® 4 processors with 400-MHz Front Side Bus
- Choice of three form factors
- Compaq Intelligent Manageability
- Energy Star compliant with energy-saving features
- Windows XP Ready
- Protected by Compaq Services, including a three-year, limited warranty – Terms and conditions vary by country. Certain restrictions and exclusions apply.



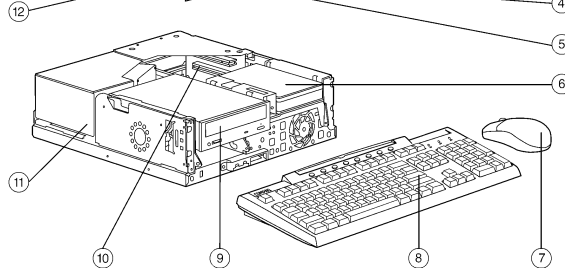
#### Convertible Minitower

1. CRT Monitor (sold separately)
2. 2-Button Scroll Mouse
3. Easy Access Keyboard
4. Microphone Connector (optional)
5. Dual-State Power Button
6. USB Connector (optional)
7. Headphone Connector (optional)
8. 1.44-MB Diskette Drive
9. 2 External Expansion Bays
10. SMART III Ultra ATA/100 Hard Drive
11. Expansion Slots
12. 250-Watt Power Supply



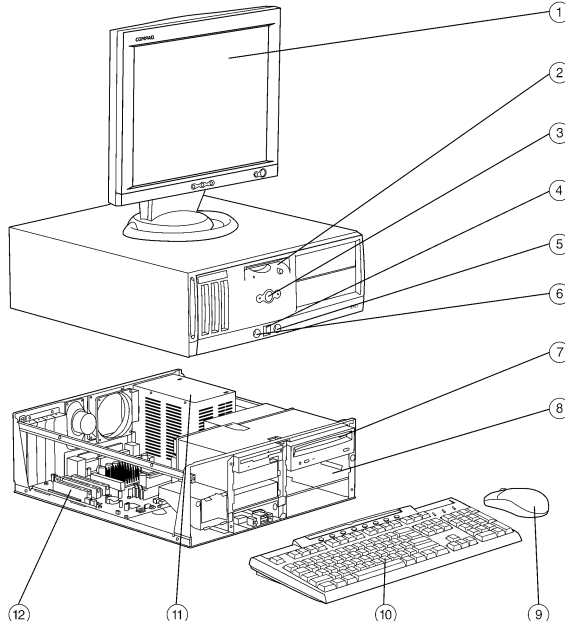
#### Small Form Factor

1. TFT Monitor (sold separately)
2. Dual-State Power Button
3. USB Connectors
4. Headphone Connector
5. Microphone Connector
6. SMART III Ultra ATA/100 Hard Drive
7. 2-Button Scroll Mouse
8. Easy Access Keyboard
9. CD-ROM Drive
10. Expansion Slots
11. 175-Watt Power Supply
12. 1.44-MB Diskette Drive
13. Quick Release Cover Latch



#### Desktop

1. TFT Monitor (sold separately)
2. 1.44-MB Diskette Drive
3. Dual-State Power Button
4. USB Connector (optional)
5. Microphone Connector (optional)
6. Headphone Connector (optional)
7. CD-ROM Drive
8. External Expansion Bay
9. 2-Button Scroll Mouse
10. Easy Access Keyboard
11. 235-Watt Power Supply
12. Expansion Slots



**COMPAQ**

## Standard Features – Select Models

### Compaq Evo Desktop D500 Series with 845 chipset

#### Pre-Configured Models

#### Model Key

#### Example:

**D5S/P1.5/20/2/128c**

D5S =	Evo D500 Small Form Factor
D5D =	Evo D500 Desktop
D5C =	Evo D500 Convertible Minitower
P1.5 =	Pentium 4 1.5-GHz processor
20 =	Hard Drive
2 =	Microsoft Windows 2000 SP2
6 =	Microsoft Windows 2000/NT dual install
8 =	Microsoft Windows 98 SE
P =	Microsoft Windows XP Pro/2000 Dual Install
128 =	Memory
c =	CD-ROM

#### All Evo D500 P4 SKUs contain:

- Intel Integrated Audio
- Integrated Intel Pro/100 VM Network Connection
- NVIDIA® Vanta 16-MB 4X AGP
- Intel 845 Chipset

#### Celeron models contain:

- Intel integrated graphics
- Intel 815E chipset
- Integrated Intel Pro/100 VM NIC

#### NA Evo D500 SKUs

#### Small Form Factor

D5S/C1.0/20/8/128c	470023-290*
D5S/C1.0/20/6/128c	470023-294*
D5S/P1.5/20/8/128c	470023-298*
D5S/P1.5/20/6/128c	470023-301*
D5S/P1.5/20/6/256c	470023-311*
D5S/P1.7/20/6/256c	470023-312*
D5S/P1.7/20/8/128c	470022-012*
D5S/P1.7/20/6/128c	470022-014*
D5S/P1.7/20/P/256c	470022-015*

#### Convertible Minitower

D5C/P1.5/20/8/128c	470023-190
D5C/P1.5/20/6/128c	470023-191
D5C/P1.5/20/6/256c	470023-192
D5C/P1.7/20/6/256c	470023-193
D5C/P1.7/20/8/128c	470022-068
D5C/P1.7/20/P/256c	470022-071

#### Desktop

D5D/P1.5/20/8/128c	470023-200*
D5D/P1.5/20/6/128c	470023-201*
D5D/P1.5/20/6/256c	470021-642*
D5D/1.7/20/8/128c	470021-666*
D5D/1.7/20/6/128c	470021-668*
D5D/1.7/20/6/256c	470021-670*

\* Denotes WW configuration/SKU

## Standard Features – Select Components

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### Compaq Evo Desktop D500 Series with 845 chipset

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<b>Processor and Speed</b> <i>One of the following</i>	<b>Intel Pentium 4 Processors</b> 1.5-GHz 1.7-GHz	<b>Standard L2 Cache</b> <b>Front Side Bus</b> <b>Maximum Memory</b>	256-KB Integrated ECC 400-MHz 3-GB
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<b>Hard Drives</b>	20-GB (7200RPM) QSI 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)
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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 AC97 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>	NVIDIA Vanta 16-MB 4X AGP
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<b>Operating System</b> <i>One of the following</i>	Windows 2000 SP2 Windows NT 4.0 SP6a 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 D500 Series with 845 chipset

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<b>Processor and Speed</b> <i>One of the following</i>	<b>Intel Pentium 4 Processors</b> 1.5-GHz 1.6-GHz 1.7-GHz 1.8-GHz 1.9-GHz 2.0GHz	<b>Standard L2 Cache</b> <b>Front Side Bus</b> <b>Maximum Memory</b>	256-KB Integrated ECC 400-MHz 3-GB
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<b>Hard Drives</b> <i>One of the following</i>	20-GB 7200 rpm QSI SMART III Ultra ATA/100 40-GB 7200 rpm QSI SMART III Ultra ATA/100 60-GB 7200 rpm QSI SMART III Ultra ATA/100 36-GB 10,000 rpm Wide Ultra3 SCSI Ultra 29160N Controller
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<b>Standard Memory</b> <i>One of the following</i>	512-MB SDRAM (PC133) 384-MB SDRAM (PC133) 256-MB SDRAM (PC133) 192-MB SDRAM (PC133) 128-MB SDRAM (PC133) 64-MB SDRAM (PC133)
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<b>Removable Storage</b>	1.44-MB Diskette Drive Zip 250 Drive
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<b>Optical Storage</b>	48X CD-ROM Drive 16X DVD-ROM with RAM Read 16X CD-RW Drive
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<b>Keyboard/Mouse</b>	Easy Access Keyboard Standard Keyboard 2-Button Scroll Mouse
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<b>Audio</b>	Integrated AC97 Audio with Internal Speaker
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<b>NIC</b>	Integrated Intel(R) PRO/100 VM Network Connection 3COM 3C920C-TX Network Connection
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<b>Modem</b>	Lucent V90 56K PCI Modem
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<b>Graphics</b>	NVIDIA Vanta 16-MB 4X AGP NVIDIA GeForce2 MX200 16-MB 4X AGP NVIDIA GeForce2 MX400 32-MB 4X AGP Matrox G450 Dual Head 32-MB AGP Matrox G200 MMS Quad Head 32-MB PCI
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<b>Operating System</b> <i>One of the following</i>	Windows 2000 SP2 Windows NT 4.0 SP6a Windows 98 SE
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<b>Intelligent Manageability</b>	Yes
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## Standard Features – Base Unit Details

### Compaq Evo Desktop D500 Series with 845 chipset

Expansion Capability	Desktop	Small Form Factor	Convertible Minitower
Memory Expansion Slots	3 DIMMs	3 DIMMs	3 DIMMs
<b>Slots</b>			
PCI	3	2 (on Riser)	5 (3 on PCA, 2 via PCI Extender Card)
AGP	1 (1.5V AGP 4X)	1 Low Profile AGP (1.5V AGP 4X)	1 (1.5V AGP 4X)
<b>Bays</b>			
Internal	(2) HDD	(1) HDD	(2) HDD
External	(2) 5.25" 1/2 ht (1) Floppy	(1) 5.25" 1/2 ht (1) Floppy	(2) 5.25" 1/2 ht (1) Floppy
<b>Dimensions (H x W x D)</b>	<b>Desktop</b>	<b>Small Form Factor</b>	<b>Convertible Minitower</b>
Inches	5.72 x 15.25 x 17.9 inches	3.9 x 13.1 x 14.4 inches	17.65 x 6.6 x 16.8 inches
Centimeters	14.5 x 38.7 x 45.5 centimeters	9.9 x 33.3 x 36.6 centimeters	44.8 x 16.8 x 42.7 centimeters
<b>System Weight</b>	25 lb / 11.34 kg	20 lb / 9.1 kg	26.0 lbs / 11.8 kg
Weight Supported	100 lb / 45.5 kg	100 lb / 45.5 kg	100 lb / 45.5 kg
<b>System Memory</b>	Type/Speed	SDRAM DIMM - PC133 Only	
	Maximum Memory	3-GB	
	Memory Parity	Not Supported	
	ECC Memory	Supported (Intel 845 chipset does not support mixing of Non-ECC and ECC PC133 memory)	
	Serial Presence Detect Support	Mandatory as part of PC133 Spec	
<b>Supported Features</b>	Processor	Intel Socket 478	
	CPU Bus Speed Supported	400-MHz	
	Memory Type Supported	SDRAM	
	Memory Speed Supported	PC133 Only	
	SPD Support	Yes	
	Hard Drive Interfaces Supported	SMART Ultra ATA/100/66/33	
	Hard Drive Controller (PCI) Interfaces Supported	SMART Ultra ATA/100/66/33	
<b>Intel® Pentium® 4</b>	Coprocessor	Yes	
	CPU Socket Type/Number	Surface Mount ZIF Socket - 478 Pins	
	CPU Package	mPGA478B, FC-PGA2	
	Front Side Bus Speed	400-MHz	
	Standard L2 Cache	256K	
	L2 Cache Architecture / Speed	Advanced Transfer Cache on Die with 8-way associativity and Error Correcting Code (ECC) / Full Speed of Processor	

## Standard Features – Base Unit Details

### Compaq Evo Desktop D500 Series with 845 chipset

System Board	Architecture	P4 / PCI / AGP 4X	
	Chipset	Intel 845 Chipset	
	I/O Controller	Super I/O 3	
	System Board Form Factor	Standard uATX on Desktop Custom on Small Form Factor Standard uATX + PCI Extender Board on Convertible Minitower	
	Processor Socket - 478 Pin ZIF	Yes	
	DIMM Connectors	Yes (3)	
	AGP Connector	Yes (1)	
	AGP Integrated	No	
	PCI Connectors	Desktop (3) Small Form Factor (2 on Riser) Convertible Minitower (5 standard)	
	Flash ROM	Yes	
	Audio (ADI 1885 - AC97)	Yes	
	CD ROM IN (Audio)	Yes	
	Clear CMOS Button	Yes	
	CPU Fan Header	Yes (not installed on D500 Small Form Factor)	
	Chassis Fan Header	Yes	
	Chassis Speaker Header	Yes	
	CMOS Battery Holder - Lithium	Yes	
	NIC	Yes	
	Wake-On-Lan®	Yes	
	Alert-On-LAN®	Yes	
	Power Supply Header	Yes	
	Power Switch, Power LED & HD LED Header	Yes (on systemboard on D500 Small Form Factor)	
	Password Clear Header	Yes	
	Reset Header (Not Installed)	Yes	
	Riser Connector	Yes on D500 Small Form Factor only	
	SCSI LED Header	Yes (on riser on D500 Small Form Factor)	
	Speaker Header	Yes	
	Boards that connect to System Board	Desktop Small Form Factor Convertible Minitower	Solenoid Lock PCB (Option), Front I/O Board (Option) Solenoid Lock PCB (Option), Riser board - 2 PCI Slots Solenoid Lock PCB (Option), PCI Extender Board - 2 additional PCI Slots, Front I/O Board (Option)

## Standard Features – Base Unit Details

### Compaq Evo Desktop D500 Series with 845 chipset

<b>Serviceability Features of System Board</b>	<ul style="list-style-type: none"> <li>Dual Color Power and HD LED - To Indicate Normal Operations and Fault Conditions</li> <li>Blinking Diagnostic Keyboard LED Codes</li> <li>Diagnostic LED Label under Hood Cover</li> <li>User Diagnostic Software Support</li> <li>Over-Temp Warning on Screen (Need Intelligent Manageability to work)</li> <li>Compaq Software Restore CD</li> <li>Flash ROM</li> <li>3.3V Aux Power LED on System PCA</li> <li>Dual Function 5V Aux Power LED (ON) /PS_ON LED (OFF) on System PCA</li> <li>Processor Hot LED on System PCA</li> <li>Diagnostic Power Switch LED (Not needed onD500 Small Form Factor because power switch is on system board)</li> <li>Clear Password Jumper</li> <li>Clear CMOS Button</li> </ul>
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<b>Desktop Chassis</b>	<ul style="list-style-type: none"> <li>Color</li> <li>System Board Form Factors Supported</li> <li>Cooling Solutions Supported (3 Fans)</li> <li>Slots Supported</li> <li>Front I/O</li> <li>Rear I/O</li> <li>Internal Speaker</li> <li>Custom Power Supply</li> <li>Security Locks Supported</li> <li>Power Switch / LED Cable</li> </ul>	<ul style="list-style-type: none"> <li>Silver/Carbon</li> <li>Standard uATX</li> <li>Variable Speed Power Supply Fan</li> <li>Variable Speed Processor Fan Heatsink</li> <li>Variable Speed Chassis Fan</li> <li>3 Full Length, Full Height PCI Slots</li> <li>1 Half Length, Full Height AGP</li> <li>Front Headphone, Mic, and 2 USB (Option)</li> <li>Standard ATX I/O Panel</li> <li>Yes</li> <li>235-Watt Enhanced ATX PS</li> <li>Kensington Cable Lock</li> <li>Security Module (Solenoid Hood Lock and Hood Sensor) – option</li> <li>Lock Tab built into back of Chassis</li> <li>Yes</li> </ul>
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<b>Small Form Factor Chassis</b>	<ul style="list-style-type: none"> <li>Color</li> <li>System Board Form Factors Supported</li> <li>Cooling Solutions Supported (2 Fans)</li> <li>Slots Supported</li> <li>Front I/O</li> <li>Rear I/O</li> <li>Internal Speaker</li> <li>Custom Power Supply</li> <li>Security Locks Supported</li> <li>Power Switch / LED Cable</li> </ul>	<ul style="list-style-type: none"> <li>Silver/Carbon</li> <li>Custom SFF</li> <li>Variable Speed Power Supply Fan</li> <li>Variable Speed Chassis Fan</li> <li>2 Half Length, Full Height PCI slots</li> <li>1 Low Profile AGP</li> <li>Front Headphone, Mic, and 2 USB Standard</li> <li>Standard ATX I/O Connectors (Some Single Stacked)</li> <li>Yes</li> <li>175-Watt Enhanced ATX Like PS</li> <li>Kensington Cable Lock</li> <li>Security Module (Solenoid Hood Lock and Hood Sensor) – option</li> <li>No (on system board)</li> </ul>
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## Standard Features – Base Unit Details

### Compaq Evo Desktop D500 Series with 845 chipset

<b>Convertible Minitower Chassis</b>	Color	Silver/Carbon
	System Board Form Factors Supported	Standard uATX & Standard ATX
	Cooling Solutions Supported (3 Fans)	Variable Speed Power Supply Fan Variable Speed Processor Fan Heatsink Variable Speed Chassis Fan
	Slots Supported	6 Full Length, Full Height Slots (1 AGP and 5 PCI)
	Front I/O	Front Headphone, Mic, and 2 USB (Option)
	Rear I/O	Standard ATX I/O Panel
	Internal Speaker	Yes
	Custom Power Supply	250-Watt Enhanced ATX PS
	Security Locks Supported	Kensington Cable Lock Security Module (Solenoid Hood Lock and Hood Sensor) – option Compaq Lock Bracket – 173234 (chassis securement only, hood lock required to secure hood)
	Power Switch / LED Cable	Yes

Serviceability Features of Chassis	Desktop	Small Form Factor	Convertible Minitower
Dual Color Power and HD LED to Indicate Normal Operations and Fault Conditions	Yes	Yes	Yes
Diagnostic LED Label under Hood Cover	Yes	Yes	Yes
Security Module (Smart Cover Lock and Hood Sensor)	Optional	Optional	Optional
Front power switch	Yes	Yes	Yes
Green Pull Tabs, and Quick Release Latches for easy Identification	Yes	Yes	Yes
System memory can be upgraded without removing the system board or any internal components	Yes	Yes	Yes
Tool-less Hood Removal	Yes (with captive thumbscrew)	Yes (with side push buttons)	Yes (with captive thumbscrew)
Tool-less Hard Drive, CD & Floppy Removal	Yes	Yes	Yes
Tool-less System Board Removal	No	Yes	No
Industry Standard CD Bay	Yes	Yes	Yes
Towerable	Yes	Yes	Yes (Can also Rotate Drives)
Universal Tower Stand	Yes (Option)	Yes (Option)	No (Not needed)
Green Color Coded Latches & Cable Pull Tabs for Easy Identification	Yes	Yes	Yes

## Standard Features – Base Unit Details

### Compaq Evo Desktop D500 Series with 845 chipset

Interfaces	Desktop	Small Form Factor	Convertible Minitower
I/O Chip	Super IO 3	Super IO 3	Super IO 3
Serial Port / UART Type	Yes (2) / SN75185	Yes (2) / SN75185	Yes (2) / SN75185
Parallel Port	Yes	Yes	Yes
USB	2 USB 1.1 (Optional 2 Front USB)	4 USB 1.1	2 USB 1.1 (Optional 2 Front USB)
Infrared Port	No	No	No
Network	RJ-45 (with integrated LEDs)	RJ-45 (with integrated LEDs)	RJ-45 (with integrated LEDs)
Keyboard	Yes (PS/2)	Yes (PS/2)	Yes (PS/2)
Mouse	Yes (PS/2)	Yes (PS/2)	Yes (PS/2)
Video	Yes (AGP 4X 1.5V Bus)	Yes (AGP 4X 1.5V Bus)	Yes (AGP 4X 1.5V Bus)
Audio	Yes	Yes (Mic-In, Hphone Out, Line-In, Line-Out)	Yes

Power Supply	Desktop	Small Form Factor	Convertible Minitower
Full Ranging Input (No Line Select Switch)	Yes	Yes	Yes
Active Power Factor Correction (APFC) (Input Current is nearly ½ a non-APFC PS)	Yes	Yes	Yes
Operating Voltage Range	90 to 264VAC	90 to 264VAC	90 to 264VAC
Rated Voltage Range	100 to 240VAC	100 to 240VAC	100 to 240VAC
Rated Line Frequency	50-60 Hz	50-60 Hz	50-60 Hz
Rated Input Current	3.6A @ 100VAC	2.7A @ 100VAC	3.6A @ 100VAC
Maximum Rated Power	235W	175W	250W
Heat Dissipation	Max: 1,234 BTU/hr Nominal: 617 BTU/hr Max: 311 kg-cal/hr Nominal: 155 kg-cal/hr	Max: 920 BTU/hr Nominal: 460 BTU/hr Max: 232 kg-cal/hr Nominal: 116 kg-cal/hr	Max: 1,313 BTU/hr Nominal: 656 BTU/hr Max: 331 kg-cal/hr Nominal: 165 kg-cal/hr

## Standard Features – Base Unit Details

### Compaq Evo Desktop D500 Series with 845 chipset

Power Conservation 'Energy Saver'	Desktop	Small Form Factor	Convertible Minitower
Energy Star Compliant	Yes	Yes	Yes
Blue Angel Compliant (<5w in S5-Power Off)	Yes	Yes	Yes
Power Consumption in ES Mode - Suspend to RAM (S3) (Instantly Available PC)	TBD	-2W	TBD
APM Support	Yes	Yes	Yes
Screen Blanking	Yes	Yes	Yes
Hard Disk 'Idle' Mode	Yes	Yes	Yes
System Idle Mode	Yes	Yes	Yes
Processor/Cache Memory Power- Down (S3)	Yes	Yes	Yes
CD-Rom Spins Down when not in use	Yes	Yes	Yes

ROM Features
Instantly Available PC (Suspend to RAM - S3)
ROM Based F10 Setup
Remote System Installation via F12 (PXE)
Failsafe Boot Block ROM
Emergency ROM Flash Recovery with Video
CMOS Archive and CMOS Restore
Save and Restore CMOS Setup via Diskette
Auto Setup when New Hardware Installed
Serial, Parallel, USB Enable/Disable Port Control
Removable Media Write / Boot Control
Remote Boot from Server
Network Server Mode
Power-On Password
Setup Password
Memory Change Alert (Need IM to work)
Thermal Alert (Need IM to work)
Cover Removal Alert (Need IM to work)
Master Boot Record Security
Remote ROM Flash
Remote Wakeup
Power Management
ACPI Ready
DMI BIOS (Desktop Management Interface)

## Standard Features – Base Unit Details

### Compaq Evo Desktop D500 Series with 845 chipset

System Environmental Specs	Operating Temperature	50° to 95°F/10° to 35° C (Derating of 1.0°C per 300m (1000ft) to 3000m (10,000ft), no direct sustained sunlight)
	Non-operating Temperature	-22° to 140° F-30° to 60° C (Maximum rate of change is 20°C/Hr.)
	Relative Humidity (non-condensing) Operating	10% to 90% (28°C maximum wet bulb temperature)
	Relative Humidity (non-condensing) Non-operating	5% to 95% (38.7°C maximum wet bulb temperature)
	Max Altitude (unpressurized) Operating	10,000 ft 3,048 m (Maximum allowable altitude change rate is 1500 ft/min)
	Max Altitude (unpressurized) Non-operating	30,000 ft 9,144 m (Maximum allowable altitude change rate is 1500 ft/min)
	Acoustics	ENERGY SAVE MODE: LWAd = TBD Bels, Desktop Average LpAm = TBD dBA FIXED DISK - SCSI (Random write): LWAd = TBD Bels, Desktop Average LpAm = TBD dBA
	Shock (Operating)	5 G
	Shock (Non-Operating)	20 G 10 G (positive and negative directions front to back on Small Form Factor)
	Vibration (Operating)	Operating: Random vibration at 0.000215 G <sup>2</sup> /Hz, 10Hz to 300Hz, (0.25G's nominal)
	Vibration (Non-Operating)	Random vibration at 0.0005 G <sup>2</sup> /Hz, 10Hz to 500Hz, (0.5G's nominal).

## Standard Features – Base Unit Details

### Compaq Evo Desktop D500 Series with 845 chipset

#### Software

Preinstalled Software	Desktop	Small Form Factor	Convertible Minitower
Microsoft Windows 98 SE	Yes	Yes	Yes
Microsoft Windows NT 4. SP6a	Yes	Yes	Yes
Microsoft Windows 2000 SP2	Yes	Yes	Yes
Microsoft Windows XP Pro	(when available from Microsoft)	(when available from Microsoft)	(when available from Microsoft)
Microsoft Windows XP Home	(when available from Microsoft)	(when available from Microsoft)	(when available from Microsoft)
Computer Setup Utility via F10 (ROM Based)	Yes	Yes	Yes
Diagnostics for Windows	Yes	Yes	Yes
Microsoft Internet Explorer	Yes	Yes	Yes
<b>Intelligent Manageability Agent</b>	Yes	Yes	Yes
<b>Plug and Play Ready</b>	Yes	Yes	Yes
Windows 98	Yes	Yes	Yes
Windows 2000	Yes	Yes	Yes
Windows XP Pro	Yes	Yes	Yes
Windows XP Home	Yes	Yes	Yes
Windows NT 4.0	Plug and Play not supported in Windows NT 4.0	Plug and Play not supported in Windows NT 4.0	Plug and Play not supported in Windows NT 4.0
<b>Boot Support</b>			
Local Diskette Boot	Yes	Yes	Yes
Local CD Boot	Yes	Yes	Yes
Remote Boot	Yes	Yes	Yes
Network Boot	Yes	Yes	Yes

**Intelligent Manageability** Information downloadable from: <http://www.compaq.com/im>

**Initial Configuration and Deployment** Intelligent Manageability Home Page  
Altiris eXpress  
PC Transplant / PC Transplant PRO  
System Software Management  
Novel ZenWorks 2.0  
Insight Manager  
Support Software CD  
Compaq Software Restore CD

**Asset Control** Asset Tag  
DIMM Serial Presence Detect  
Hard drive serial number, model, & manufacturer  
Monitor serial number, model & manufacturer  
System serial number, model, & manufacturer  
ROM revision levels  
System board revision level  
Compaq Fingerprint Identification Technology (Optional)  
DMI BIOS  
Memory Change Alert (Intelligent Manageability needed to work)  
Ownership Tag  
Smart Cover Lock (Optional)  
Kensington Lock Support  
Smart Cover Sensor (Optional)

## Standard Features – Base Unit Details

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### Compaq Evo Desktop D500 Series with 845 chipset

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#### Standard Security Features

Asset Tracking and Security Home Page <http://www.compaq.com/im/ats.html>

Optional Smart Cover Lock  
Mechanical Security Provision  
Cable Lock Provision  
Power-On Password  
Serial, Parallel, USB Enable/Disable  
Removable Media Write / Boot Control  
Power-On Password  
Setup Password

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#### Software Updating and Management

Software Updating and Management Home Page <http://www.compaq.com/im/sum.html>

Remote ROM Flash  
ROM Based Setup (F10) and Start-up Diagnostics  
Support Software CD & WWW Site

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#### Fault Notification and Recovery

Fault Management Home Page <http://www.compaq.com/im/fnr.html>

DMI BIOS  
SMART Hard Drives, Fault Notification, & Prefailure Warranty  
Proactive Backup  
ATA RAID Controller Option  
ECC Memory, Fault Notification, and Pre-failure Warning  
Processor Fault Notification and Prefailure Warranty (Not supported by P4 processor)  
Surge Tolerant Full Ranging Power Supply  
Thermal Sensor  
Ultra ATA Integrity Monitoring (CRC Checking)

#### Other Features

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

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#### 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

Graphics	NVIDIA GeForce2 MX200 16-MB AGP	251954-B21	
	NVIDIA GeForce2 MX400 32-MB AGP	227003-B21	
	Matrox G200 MMS PCI Quad with DVI Cables	179597-B21	
	Matrox G200 MMS PCI Quad Analog Cables	159513-B21	
	DVI Cables for the G200 MMS PCI Quad	170840-B21	
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	
	<b><i>SCSI Hard Drives</i></b>		
	72-GB 10K rpm 1.0" Ultra3 (Ultra 160) SCSI Hard Drive	250023-B21	
	36-GB 15K rpm Ultra3 (Ultra 160) SCSI Hard Drive	250022-B21	
	18.2-GB 10K rpm Ultra3 (Ultra 160) SCSI Hard Drive	159764-B21	
	18.2-GB 15K rpm Ultra3 (Ultra 160) SCSI Hard Drive	191188-B21	
	Adaptec 29160N Ultra160 (Ultra3) SCSI Controller	157810-B21	
	* SCSI harddrives are not compatible with Windows 98		
	Input/Output Devices	<b><i>Keyboards</i></b>	
		Compaq Easy Access Keyboard (carbon)	202109-008
<b><i>Mice</i></b>			
Compaq 2-Button Scroll Mouse (PS/2)		170299-B22	
Compaq 2 Button Scroll Mouse (USB)		195255-B25	
Memory (DIMMs)	<b><i>133-MHz SDRAM DIMMs</i></b>		
	512-MB Memory Kit (1 X 512-MB SDRAM DIMM, 133 Mhz)	259039-B21	
	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 TFT7020 Monitor (17-inch, Carbon/silver)	253217-001	
	Compaq TFT7020 Monitor (17-inch, Baseless)	253218-001	
	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	

## After-Market Options

### Monitors (continued)

#### *CRTs*

##### *Professional Series*

Compaq P1220 CRT Monitor (21-inch, Carbon/silver)	244374-001
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)	244375-001
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)	244373-001

##### *Value Series*

Compaq V720 CRT Monitor (17-inch, Opal)	232943-001
Compaq V720 CRT Monitor (17-inch, Carbon/silver)	232944-001
Compaq V710 CRT Monitor (17-inch, Opal)	187895-001
Compaq V570 CRT Monitor (15-inch, Opal)	228114-001
Compaq V570 CRT Monitor (15-inch, Carbon/silver)	228113-001

##### *Standard Series*

Compaq S910 CRT Monitor (19-inch, Opal)	138485-001
Compaq S920 CRT Monitor (19-inch, Opal)	240325-001
Compaq S920 CRT Monitor (19-inch, Carbon/silver)	240326-001
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)	239286-001
Compaq S720 CRT Monitor (17-inch, Carbon/silver)	239287-001
Compaq M720 CRT Monitor (17-inch, Carbon/silver)	238994-001
Compaq M720 CRT Monitor (17-inch, Opal)	240759-001
Compaq S510 CRT Monitor (15-inch, Carbon)	168636-002

### Multimedia

Labtec Spin-22 Speakers (carbon)	246637-001
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### Optical Drives

#### *DVD-ROM Drives*

16X/40X DVD-ROM Drive (carbon)	237495-B22
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#### *DVD-RAM Drives*

4.7-GB DVD-RAM Drive (carbon)	294415-B22
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#### *CD-ROM Drives*

48X Max CD-ROM Drive (carbon)	187217-B22
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#### *DVD-RW Drives*

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

#### *CD-RW Drives*

16X/10X/40X CD-RW Drive	240598-B22
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#### *Combo Drives*

8X Combo DVD-ROM and CD-RW Drive (carbon)	244885-B22
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## After-Market Options

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### Removable Storage

#### *Floppy Drives*

ZIP 100 High-Capacity Floppy Drive (carbon)	294402-B22
ZIP 100 Media 3-Pack	127591-B21
ZIP 250 High-Capacity Floppy Drive (carbon)	294416-B22
ZIP 250 Media 3-Pack	217896-B21

#### *Tape Drives*

TR5 10/20-GB Tape Drive (carbon)	294243-B22
TR5 10/20-GB Media 3-Pack	125782-B21

### Security

USB Biometric Identification Device	240238-B21
Basic Smartcard Keyboard	115506-008

### Communications

#### **NICs**

Intel 10/100S Management Adapter	212953-B21
Intel 10/100S Management Adapter (20-pack)	212954-B21

### Chassis Enhancements

Tower Stand (Desktop & Small Form Factor only)	234489-B22
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## Memory

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845 chipset (128-MB)

### 133-MHz SDRAM DIMM MEMORY

#### STANDARD MEMORY

128-MB DIMM Standard

#### MAXIMUM MEMORY

Intel 845 Chipset supports up to 3-GB of PC133 SDRAM. Platform can utilize 3-GB of memory when 1-GB DIMMs are available with the installation of optional SDRAM Memory Kits.

Memory		Slot		
		1	2	3
Standard	128-MB	128-MB	Empty	Empty
Current Maximum Memory	1.5-GB	512-MB	512-MB	512-MB
Maximum Memory when 1-GB available	3-GB	1-GB	1-GB	1-GB

Note: All Compaq Evo Desktop D500 contain three DIMM slots, but can be upgraded to a maximum of 3-GB when 1-GB DIMMS are available.

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.

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845 chipset (256-MB)

### 133-MHz SDRAM DIMM MEMORY

#### STANDARD MEMORY

256-MB DIMM Standard

#### MAXIMUM MEMORY

Intel 845 Chipset supports up to 3-GB of PC133 SDRAM. Platform can utilize 3-GB of memory when 1-GB DIMMs are available with the installation of optional SDRAM Memory Kits.

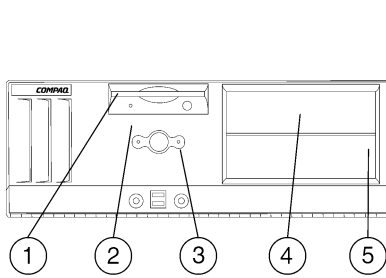
Memory		Slot		
		1	2	3
Standard	256 MB	256 MB	Empty	Empty
Current Maximum Memory	1.5-GB	512-MB	512-MB	512-MB
Maximum Memory when 1-GB available	3-GB	1-GB	1-GB	1-GB

Note: All Compaq Evo Desktop D500 contain three DIMM slots, but can be upgraded to a maximum of 3-GB when 1-GB DIMMS are available.

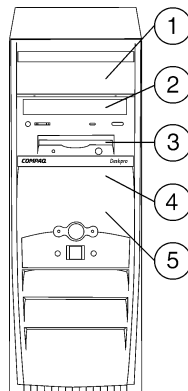
Note: It is not necessary to add memory in pairs or kits. Memory upgrades are accomplished by adding single or multiple DIMMs of the same or varied sizes. This chart does not represent all possible memory configurations.

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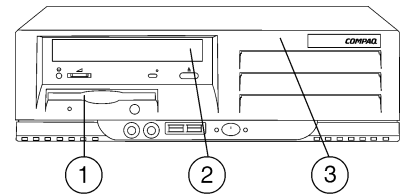
## Storage



Desktop Configuration



Convertible Minitower Configuration



Small Form Factor Configuration

## EVO DESKTOP D500 DRIVE SUPPORT

	Quantity Supported	Position Supported	Controller
<b>DESKTOP</b>			
Diskette Drives	1	1	Floppy
Tape Drives	2	4,5	IDE
CD-ROM Drives	2	4,5	IDE
DVD-ROM Drives	2	4,5	IDE
CD-RW Drives	2	4,5	IDE
SMART III Ultra ATA Hard Drives	Up to 2	2,3	Ultra ATA
SCSI Hard Drives	Up to 2	2,3	SCSI

## CONVERTIBLE MINITOWER

Diskette Drives	1	3	Floppy
Tape Drives	2	1,2	IDE
CD-ROM Drives	2	1,2	IDE
DVD-ROM Drives	2	1,2	IDE
CD-RW Drives	2	1,2	IDE
SMART III Ultra ATA Hard Drives	Up to 2	4,5	Ultra ATA
SCSI Hard Drives	Up to 2	4,5	SCSI

## 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 AC97 Audio with internal speaker	<b>Card Type</b>	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	<b>Connectors</b>	RJ-45	
	<b>Expansion Bus Architecture</b>	PCI 2.2	
	<b>Network Transfer Rate</b>	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	
	<b>Standards Compliance</b>	IEEE 802.3 (10 Mb/s Ethernet) IEEE 802.3u (100 Mb/s Ethernet)	
	<b>OS Driver Support</b>	Windows 98 S.E. Windows 2000 SP1	
	<b>Remote Wakeup</b>	Yes (WAKE signal)	
	<b>Proactive Alert Technology</b>	No	
	<b>Environmental Requirements</b>		
	<b>Temperature</b>	Operating Non-operating	50° to 95°F/10° to 35°C –4° to 140°F/–20° to 60°C
	<b>Humidity</b>	Operating Non-operating	20% to 80% 10% to 90%

## Technical Specifications – Communications

<b>3COM 3C920C-TX Network Connection</b>	<b>Manufacturer</b>	3ComOL	
	<b>Connector</b>	RJ-45	
	<b>Expansion bus architecture</b>	PCI 2.2	
	<b>Configuration</b>	Network transfer rate	10BaseT (half-duplex) 10 Mbps 10BaseT (full-duplex) 20 Mbps 100BaseTX (half-duplex) 100 Mbps 100BaseTX (full-duplex) 200 Mbps
		Data interface	PCI, 32-bit bus mastering
		I/O address	Automatic I/O address
		Interrupt level	Automatic IRQ setup
	<b>Standards compliance</b>	IEEE 802.3 (10-Mbps Ethernet), IEEE 802.3u (100-Mbps Ethernet)	
	<b>OS driver support</b>	Microsoft Windows 95, Microsoft Windows 98, Microsoft Windows 2000, Microsoft Windows NT 3.5/x and 4.0,	
	<b>Remote wakeup</b>	Yes, WAKE signal	
	<b>Proactive alert technology</b>	No	
	<b>Environmental operating requirements</b>	Temperature	32° to 131° F (0° to 55° C)
		Humidity (non-condensing)	10% to 90%
	<b>Power management</b>	ACPI	
	<b>Network management</b>	DMI 2.0, WfM 2.x, PCI 2.2	
<b>Power</b>	+3.3 V, 340 mA		
<b>LED indicators</b>	100-Mbps link, 10-Mbps link, activity		
<b>Dimensions</b>	4.7 x 2.2 inches (12.0 x 5.6 cm)		
<b>Certifications</b>	CE Mark, FCC Class B, VCCI Class B, CISPR 22 Class B		

## Technical Specifications – Communications

Lucent V.90 56K PCI Win Modem	<b>Data Transmission</b>	V.90/K56flex technology speeds: 56,000 Kb/s maximum downstream data; controllerless
	<b>Data Speeds</b>	(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
	<b>Data Standards</b>	ITU V.90, ITU-T, V.34, V.32 (bis), V.22bis, V.22, V.21, V.23, and Bell 212A, and Bell 103.
	<b>Fax speeds</b>	14400; 12000; 9600; 7200; 4800; 2400; 1200; 300 b/s
	<b>Fax mode capabilities</b>	Group 3 FAX: V.17, V.29, V.27ter, and V21 Channel 2., Class 1 interface, TIA/EIA-578
	<b>Error Correction and Data Compression</b>	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
	<b>Power Management</b>	APM and ACPI states D0, D1, D2, and D3, Meets PCI 2.2 requirements and PC 99 requirements
	<b>Upgradability</b>	Software driver upgradable for future enhancements
	<b>Video</b>	ITU-T V.80 video ready interface
	<b>Other</b>	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
	<b>Operating temperature</b>	32° to 104° F/0° to 40° C
	<b>Operating humidity</b>	20% to 80%, non-condensing
	<b>Operating System Driver Support</b>	Microsoft Windows 98, 98SE, NT4.0, Windows 2000
	<b>Warranty</b>	Product takes on the warranty of the Desktop in which they are installed.

## Technical Specifications – Graphics

NVIDIA Vanta16-MB AGP Graphics Controller	<b>Form factor</b>	Half-size ATX		
	<b>Bus type</b>	AGP 4X		
	<b>Memory support</b>	16-MB SDRAM (64-bit frame buffer interface)		
	<b>Memory clock</b>	125 MHz		
	<b>RAMDAC</b>	250 MHz		
	<b>Internal clock</b>	100 MHz		
	<b>Data path</b>	64-bit		
	<b>Process</b>	0.22 $\mu$		
	<b>Pipelines</b>	2 (bilinear)		
	<b>Fill rate</b>	200 M pixels per second		
	<b>Triangle rate</b>	8 M triangles per second		
	<b>Video overlay filter</b>	2 x 2		
	<b>MPEG support (software)</b>	CSC IDCT		
	<b>Color space conversion</b>	Yes		
	<b>Scaling</b>	Yes		
	<b>Quick draw support</b>	Yes		
	<b>DCI and Microsoft DirectX video playback</b>	Yes		
	<b>Microsoft DirectX support</b>	Yes		
	<b>3-D support</b>	Yes		
	<b>Engine acceleration</b>	Basic video color conversion and scaling 100% hardware triangle setup engine		
	<b>Dual monitor support</b>	With additional PCI controller only		
	<b>OS support</b>	Microsoft Windows 98, Microsoft Windows 2000, Microsoft Windows NT 4.0, Microsoft Windows Me		
	<b>Other</b>	Optimized for Direct3D acceleration with support for Microsoft DirectX 5.0 and 6.0 128-bit TwiN-Textel (TNT) architecture Two texture-mapped, lit pixels per clock Single pass multi-texture rendering 32-bit rendering with destination alpha 24-bit Z-buffer, 8-bit stencil buffer Anisotropic filtering (superior to trilinear MIP-mapping) High-performance, 128-bit 2-D/GUI/DirectDraw acceleration Transparent BLT, stretch BLT, points, lines, polylines, polygons, fills, patterns, arbitrary clipping and fast text rendering; pipeline optimized for multiple color depths including 8, 16, and 24 bits per pixel Video acceleration for DirectShow, MPEG-1, MPEG-2 and Intel Indeo® Fast 32-bit VGA/SVGA Triple 8-bit, 250-MHz palette DAC		
	<b>Resolutions Supported</b>	<b>Colors</b>	<b>Real-Time 3-D Gouraud Shading</b>	<b>Refresh Rates</b>
	1920 x 1200	256, 65K, 16.7M	256, 65K	60 to 75 Hz depending on color depth
	1920 x 1080	256, 65K, 16.7M	256	60 to 85 Hz depending on color depth
	1600 x 1200	256, 65K, 16.7M	256	60 to 85 Hz depending on OS and color depth
1280 x 1024	256, 65K, 16.7M	256, 65K	60 to 100 Hz	
1152 x 864	256, 65K, 16.7M	256, 65K	60 to 85 Hz depending on color depth	
1024 x 768	256, 65K, 16.7M	256, 65K, 16.7M	60 to 85 Hz	
800 x 600	256, 65K, 16.7M	256, 65K, 16.7M	60 to 85 Hz	
640 x 480	256, 65K, 16.7M	256, 65K, 16.7M	60 to 85 Hz	

## Technical Specifications – Graphics

NVIDIA GeForce2 MX 16- and 32-MB Graphics Controllers	<b>Vertical frequency</b>	60-85 Hz
	<b>Graphics controller</b>	NVIDIA GeForce2 MX 200 and 400
	<b>Bus type</b>	AGP 4X
	<b>RAMDAC</b>	Integrated 350 MHz RAMDAC
	<b>Memory type</b>	SDRAM
	<b>Memory amount</b>	16, 32 (64-MB unified frame buffer and texture memory, 16-MB on GeForce2 MX 200)
	<b>Memory speed</b>	166 MHz
	<b>Data path</b>	256-bit
	<b>Controller clock speed</b>	GeForce2 MX 200—175 MHz GeForce2 MX 400—200 MHz
	<b>Maximum vertical refresh rate</b>	85-Hz
	<b>Maximum pixel clock</b>	350-MHz
	<b>Graphics API support</b>	DirectX 7, DirectX 8
	<b>Operating systems support</b>	Microsoft® Windows® 2000, Microsoft Windows NT 4.0, and Microsoft Windows 98
	<b>Buffer</b>	96-bit (per pixel)
	<b>Image planes</b>	24-bit double-buffered
	<b>Z-buffer</b>	32-bit (24-bit with stencil planes)
	<b>Overlay</b>	Supported
	<b>Stencil planes</b>	8-bit (maximum)
	<b>Alpha planes</b>	8-bit
	<b>External interface</b>	Analog video output port; the video port (female, 15-pin, D-SUB connector) provides connection to an analog display

### Resolutions Supported

Resolution	Refresh Rate (Hz)		
	8-bit Color	16-bit Color	32-bit Color
1920 x 1440	85, 75	85, 75	85, 75
1920 x 1200	85	85	85
1920 x 1080	85	85	85
1600 x 1200	85	85	85
1280 x 1024	85	85	85
1152 x 864	85	85	85
1024 x 768	85	85	85
800 x 600	85	85	85
640 x 480	85	85	85

## Technical Specifications – Graphics

<b>Matrox Millennium G450 Dual Head AGP and PCI 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>Other</b>	PCI bus mastering, texture mapping support, flat and Gouraud shading, direct 3-D 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 Microsoft Windows, Color Space Conversion, Quick Draw support, DCI and DirectX video playback, MS DirectDraw support		
	<b>3D Features</b>	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			
<b>DualHead Display Features</b>	Multi-Display Mode, DVD Max Mode, DualHead Zoom Mode, DualHead Clone Mode, Single Chip Multi-Monitor support			
<b>Supported Modes</b>	This list assumes setup to be DualHead multi-display running Microsoft Windows 98. If using Microsoft Windows NT 4.0 or Microsoft Windows 2000 while in multi-display, primary CRT is limited to modes supported by 2nd CRT.			
<b>Primary CRT Color Depths</b>	<b>Color Depths (bpp)</b>	<b>Refresh Rates</b>		
640 x 480	8, 16, 24, 32	60 Hz, 72 Hz, 75 Hz, 85 Hz		
800 x 600	8, 16, 24, 32	60 Hz, 72 Hz, 75 Hz, 85 Hz		
1024 x 768	8, 16, 24, 32	60 Hz, 70 Hz, 75 Hz, 85 Hz		
1152 x 864	8, 16, 24, 32	75 Hz		
1280 x 960	8, 16, 24, 32	60 Hz, 75 Hz, 85 Hz		
1280 x 1024	8, 16, 24, 32	60 Hz, 75 Hz, 85 Hz		
1600 x 1200	8, 16, 24, 32	60 Hz, 65 Hz, 70 Hz, 75 Hz (85 Hz available in single monitor configuration only)		
1800 x 1440	8, 16, 24	60 Hz, 72 Hz, 75 Hz, 85 Hz		
1856 x 1392	8, 16, 24	60 Hz, 75 Hz, 85 Hz		
1920 x 1440	8, 16, 24	60 Hz, 75 Hz, 85 Hz		
2048 x 768	8, 16	60 Hz, 75 Hz		
<b>Secondary CRT Color Depths</b>	<b>Color Depths (bpp)</b>	<b>Refresh Rates</b>		
640 x 480	16, 32	60 Hz, 72 Hz, 75 Hz, 85 Hz		
800 x 600	16, 32	60 Hz, 72 Hz, 75 Hz, 85 Hz		
1024 x 768	16, 32	60 Hz, 70 Hz, 75 Hz, 85 Hz		
1152 x 864	16, 32	75 Hz		
1280 x 960	16, 32	60 Hz, 75 Hz, 85 Hz		
1280 x 1024	16, 32	60 Hz, 75 Hz, 85 Hz		
1600 x 1200	16, 32	60 Hz, 65 Hz, 70 Hz, 75 Hz, 85 Hz		

## Technical Specifications – Graphics

Matrox G200 MMS Quad Head 32-MB PCI Graphics Controller	<b>Interface</b>	PCI		
	<b>Standard Memory</b>	32MB SGRAM (8MB per port)		
	<b>DAC Speed</b>	250MHz		
	<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>	The Matrox G200 Quad MMS controller features 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)	DVI cable option kit provides two DVI cables for connecting two DVI compliant displays per cable	
	Display Support	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>OS Support</b>	Windows NT 4.0			
<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>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	60-200Hz	31-102KHz
		800 x 600	60-200Hz	38-114KHz
		1024 x 768	60-140Hz	48-113KHz
		1152 x 864	60-120Hz	54-110KHz
		1280 x 1024	60-100Hz	64-107KHz
		1600 x 1200	60-90Hz	75-113KHz
		1800 x 1440	60-70Hz	89-104KHz
	16:9/16:10	856 x 480	60-200Hz	30-108KHz
		1280 x 720	60-100Hz	44-76KHz
		1600 x 1024	60-100Hz	64-108KHz
		1920 x 1080	60-80Hz	70-94KHz
		1920 x 1200	60-76Hz	75-95KHz

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

## 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

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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			

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## Technical Specifications – Input/Output Devices

Compaq Easy Access Keyboard	<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
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
	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 Standard Keyboard	<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, 15kV 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 gram 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 in/1.8 m	
PC98-99		Mechanically compliant	
<b>Environmental</b>	Acoustics	50 dBA maximum sound pressure level	
	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	<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	+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
		<b>Mechanical</b>	Resolution
	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 $\mu$ m		
	<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		
	<b>Kit contents</b>	CD-ROM drive, driver diskette, IDE cable, installation guide, warranty card		

## Technical Specifications – Optical Storage

16X/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			
<b>Kit contents</b>	16X CD-R media, CD-RW high-speed media, Roxio™ EasyCD Creator Version 4.05, Dantz Retrospect Express Version 5.5 for CD-RW, IDE cable, audio cable			

## 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 Capacity</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 $\mu$ m (CD-ROM) 0.74 $\mu$ m (DVD)
<b>Audio output level</b>	Line out	0.7 $\pm$ 0.1 Vrms
	Headphones	0.45 $\pm$ 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	
<b>Kit contents</b>	DVD-ROM drive, MPEG playback software, ReadDVD™ software, IDE cable, audio cable, installation instructions, and warranty card	

## 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			
<b>Kit contents</b>	Zip 100 or Zip 250 drive, IDE cable, installation guide, RTF card if needed			
	<b>Note:</b> Enhanced driver support for the operating systems listed above, as well as drivers that support other operating systems can be downloaded at the Iomega website: <a href="http://www.iomega.com/www.iomega.com">http://www.iomega.com/www.iomega.com</a>			

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