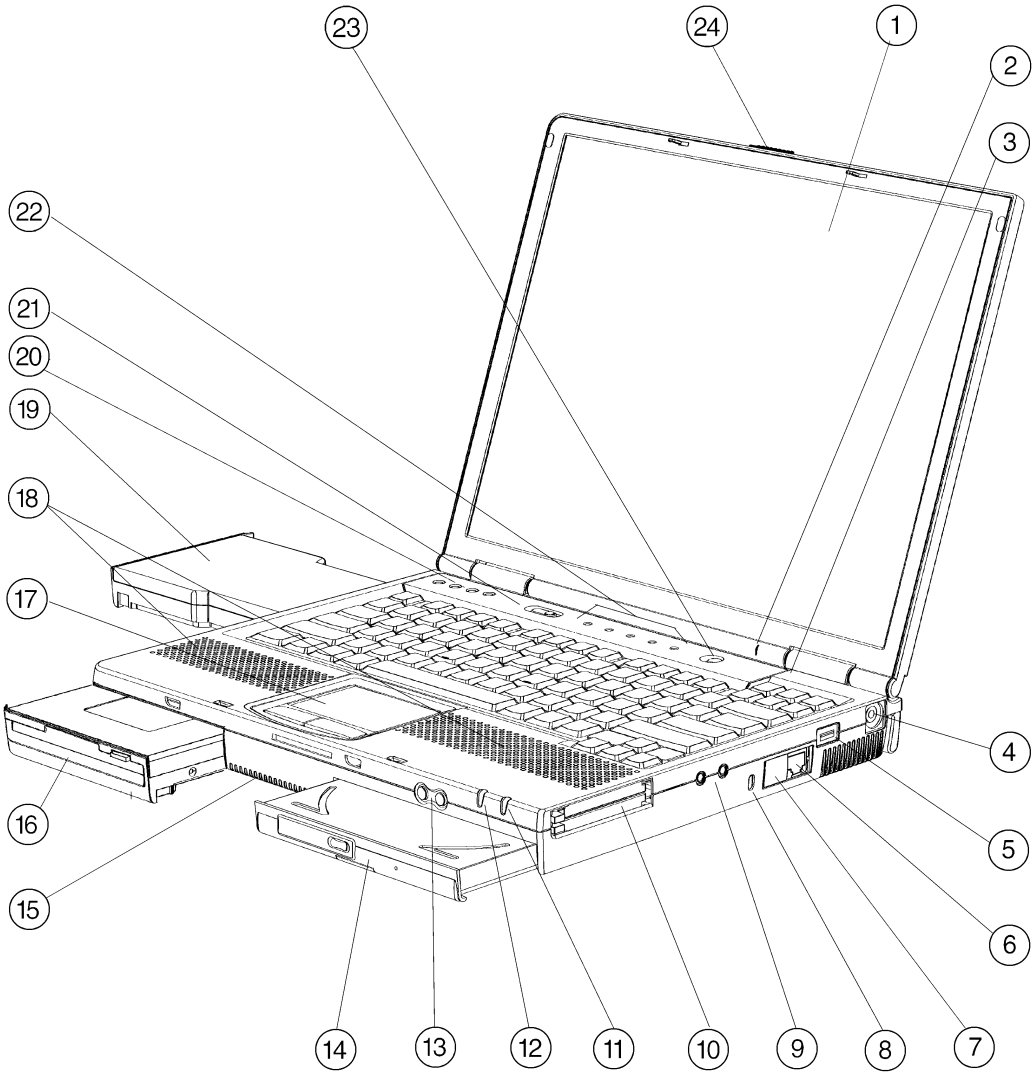
Overview

WHAT'S NEW

- Intel Mobile Pentium® III processors up to 800 MHz with Intel SpeedStep technology
- Four Easy Access Internet Buttons
- Windows® 98 or Windows 2000 pre-installed and ready-to-run
- Protected by a three-year, worldwide limited warranty — Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.

AT A GLANCE

- Intel Mobile Pentium® III processor up to 800 MHz in standard configurations
- Windows 98SE or Windows 2000 pre-installed and ready-to-run
- Up to 14.1" TFT 1024 x 768 display
- All-in-one 3-spindle design
- User removable hard drives
- As little as 5.9 lbs and 1.6 in
- Integrated Mini PCI Modem
- Full-size keyboard
- Up to Three batteries internal
- Enterprise docking solutions
- 8-MB Video SDRAM
- Protected by a three-year, worldwide limited warranty — Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.



1. Color display
2. Microphone
3. Lid Switch
4. TV/Video out (NTSC/PAL)
5. Infrared Transceiver
6. Integrated RJ-11, 56K v.90 mini PCI modem
7. RJ-45 Ethernet Port on select models
8. Cable Lock Connector
9. Microphone-in/Headphone
10. PC Card Slots (2)
11. Battery Power Light
12. AC Power Light/Standby
13. Volume control/mute
14. MultiBay (CD-ROM Drive/DVD-ROM Drive/ CD-RW Drive/2X LS-120 secondary hard drive/ MultiBay Battery)
15. Primary Hard Drive (under the Unit)
16. Dual Bay (floppy or second Primary Battery)
17. Touch Pad
18. Stereo Speakers
19. Primary Battery
20. Easy Access Internet Buttons
21. Power Switch
22. Status LEDs
23. Suspend Button
24. Display Latch

Standard Features

MODELS

Select the following to configure Armada E500S:
Processor and Panel
Hard Drive
Memory
Removable Storage
Optical Storage
Integrated Communication
Operating System
Software

Processor and Panels – choose from the following:

14.1-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal)
800 MHz/256-KB Integrated cache on Intel Mobile Pentium III processor
650 MHz/256-KB Integrated cache on Intel Mobile Pentium III processor
13.3-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal)
650 MHz/256-KB Integrated cache on Intel Mobile Pentium III processor

Note: Mobile Pentium III processors with Intel SpeedStep™ technology.

Memory

Choose a maximum of 512MB of 100MHz SDRAM
Available modules:
256-MB 100-MHz SDRAM (utilizes one DIMM slot)
128-MB 100-MHz SDRAM (utilizes one DIMM slot)
64-MB 100-MHz SDRAM (utilizes one DIMM slot)

Integrated Communications:

Compaq Global Mini PCI 56K (V.90) Modem Type II Mini PCI

Note: Select models of the Armada E500 ship standard with a Compaq Global Mini PCI 56K (V.90) Modem Type II Mini PCI.

Note: Designed only to allow faster downloads from v.90 compliant sources. Maximum achievable download transmission rates currently do not reach 56 KB/s, and will vary with line conditions. Modem only supports Windows 9.x and Windows 2000/NT 4.0.

Note: Modem availability is subject to country regulatory approval

Keyboard

102-key compatible keyboard with isolated, inverted-T cursor control keys, and right-control key, special feature hotkeys for instant access to power conservation, QuickLock/QuickBlank (ex: FN+F6), toggle between internal and external, or simultaneous displays, battery gauge, speaker volume control, brightness and contrast. Integrated Euro symbol key on select models.

Easy Access Internet Buttons

The Armada E500S comes with four Easy Access Buttons designed to increase customer productivity by providing one-touch access to helpful Compaq information, favorite Internet destinations, files, or applications.

Pointing Device

Touchpad with integrated pick buttons / “Double Tap” mouse-like buttons

PC Card Slots

Two Type II/One Type III PC Card Slot(s) which support both 32-bit Card Bus (Full support in Windows 9.x.) and 16-bit PC Cards; zoomed video support in bottom slot

Removable Storage

1.44 MB Diskette Drive
24X Max CD-ROM Drive
8X Max DVD-ROM Drive

Standard Features

MultiBay Drives – Chose one of the following:

20-GB SMART
18-GB SMART
12-GB SMART
10-GB SMART
5-GB SMART
Configurable Optical drives
24X CD ROM Drive
8X DVD ROM Drive

Multimedia

Compaq *Premier•Sound*™ for enhanced stereo audio
Integrated 16-bit Sound Blaster Pro-compatible stereo audio
Integrated stereo speakers and microphone
Software/hardware volume control
Headphone-out
Microphone-in
Software MPEG1 support
8X DVD-ROM with DVD movie playback software, *on select models*
24X Max CD-ROM Drive *on select models*
RCA Composite TV-out port
2X AGP graphics
8-MB SDRAM

Interfaces

PC Card	Two Type II/One Type III
Enhanced Parallel EPP/ECP	1
Serial Port	1
TV out connector NTSC/PAL	1
External Monitor	1
PS/2 External Keyboard/ Pointing Device	1 Supports Y-cable in order to attach both Keyboard and Mouse simultaneously
Expansion Base	1
Headphone/Line-out	1
Microphone-in	1
DC Power	1
RJ-11 (modem)	1 (Model dependent)
RJ-45 (NIC)	1 (Model dependent)
Infrared Port	1 (4 Mb/s support) (IrDA 4 MB compliant. IR performance will vary depending on performance of IR peripherals and application used.)
USB Port	1
LED status indicators	7

Graphics

64-bit video graphics with 8-MB SDRAM for increased color depth and graphics performance
External refresh up to 100 Hz @ 1280x1024 with up to 4.3B colors
External refresh up to 85 Hz @ 1600x1200 with up to 16.7M colors

Operating System – choose from the following:

Windows 2000 - Operating system and additional software are pre-installed and ready-to-run.

Windows 98SE - Operating system and additional software are pre-installed and ready-to-run.

Windows Millennium Edition – Operating system and additional software is pre-installed and ready-to-run, available on select Armada E500S models, please contact your Compaq Sales Representative, Authorized Reseller or visit www.Compaq.com

Standard Features

Standard Software

Insight Management Agents
Security 32
Compaq Power Management
Online Safety and Comfort Guide
Reference Guide
Acrobat Reader

Additionally, Choose from the following Productivity Software:

Norton AntiVirus
Microsoft® Office 2000 Professional
Microsoft Office 2000 SB

System Recovery

Each unit is shipped with a CD kit for quick recovery (erases everything and installs the OS) and software recovery (installs only selected standard software).

Security

Configuration Control Hardware
Memory Change Alert
Ownership Tag
Setup Password
Power-On Password
DriveLock
QuickLock
QuickBlank
Enabled for PC SmartCard options

Power Supply

External AC adapter; 6-foot power cord included. Total length including External AC adapter is 12 feet (3.66 Meters)

Battery

9-cell Li-Ion battery is provided, depending on model. Battery life of the Pentium III 650-MHz model using the 9-cell battery is over 3.5 hours, based on standard configuration used. Battery life using an additional 9-cell battery in Dualbay is up to 8 hours. Maximum battery life over nine and a half hours using a 9-cell battery in the Primary Battery Bay and DualBay along with a 6-Cell battery in the MultiBay.

Note: Actual results may vary with individual usage. When tested in standard configuration, using Ziff-Davis BatteryMark Test version 3.0, the battery life of the Armada E500S will range up to 4.03 hours. Standard configuration is considered to be one battery, a 14" 1024 x 768 x 16 bit color panel set at 50 percent brightness, Win98, 64-MB RAM, 6-GB HDD, and no other drives other than the hard drive active.

Power Conservation

Hibernation
Instant-On via Standby
Pop-ups with three presets
One custom level of power conservation
ACPI compliant

MultiBay Devices

Under Windows 98 or Windows 2000
Supports Hot Swapping: CD-ROM Drive, DVD-ROM Drive, CD-RW Drive, MultiBay Battery
Need to Reboot: Secondary Hard Drive, 2X LS-120 Drive, CD-RW Drive

DualBay Devices

Under Windows 98 or Windows 2000
Supports Hot Swapping: Floppy, Primary battery

Service and Support

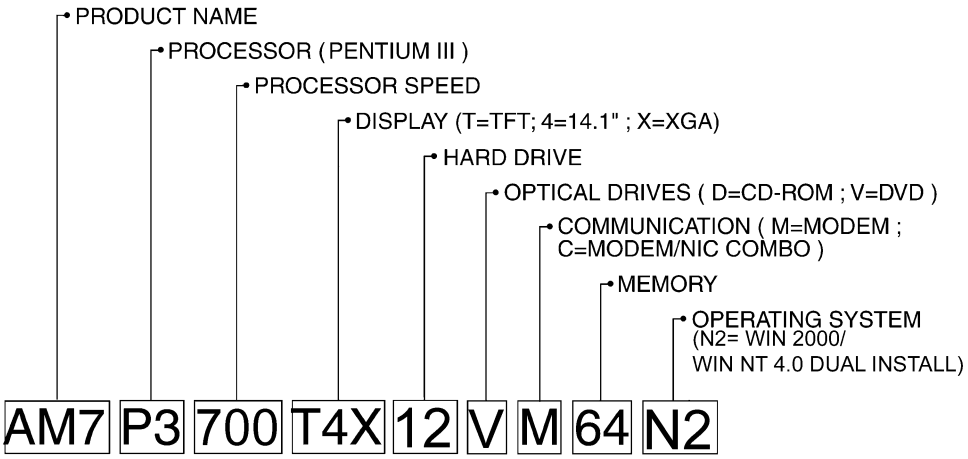
Compaq Services includes a three-year, worldwide limited warranty, pick-up or carry-in, upgrade to on-site warranty or additional two-year warranty available and toll-free 7 x 24 hardware technical phone support.

Note: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.

Standard Features

Model Naming Convention

Etymology of a Model Name:



Standard Features

Models

Pre-Configured SKUs

AE5S P3800T4X10VC6498

470007-123

Display	14.1-inch color TFT XGA	**Optical Drive**	8X DVD ROM Drive
Processor	Intel Pentium III 800 MHz	**Hard Drive**	10-GB SMART
Cache Memory	256-KB integrated	**Modem**	Mini-PCI v.90 modem/Combo Ethernet
Memory		**Graphics**	64-bit video graphics with 8-MB SDRAM
Standard	64 MB	**Audio**	Compaq *Premier•Sound*
Maximum	512 MB	**Software**	Windows 98SE/Office SBE
		Battery	9-cell Li-Ion

AE5S P3650T4X12DM6498

470006-915

Display	14.1-inch color TFT XGA	**Optical Drive**	24X Max CD-ROM Drive IDE
Processor	Intel Pentium III 650 MHz	**Hard Drive**	12-GB SMART
Cache Memory	256-KB integrated	**Modem**	Mini-PCI v.90 modem
Memory		**Graphics**	64-bit video graphics with 8-MB SDRAM
Standard	64 MB	**Audio**	Compaq *Premier•Sound*
Maximum	512 MB	**Software**	Windows 98SE/Office SBE
		Battery	9-cell Li-Ion

Please note the customers can configure as per their own requirements by going to the Web at: http://www.directplus.compaq.com/.

Options

Memory

64-MB Memory Upgrade	400312-B21
128-MB Memory Upgrade	400313-B21
256-MB Memory Upgrade	161554-B21

(Due to the non-industry standard nature of some third-party memory modules, we strongly recommend using only Compaq branded memory modules to ensure compatibility.)

Monitors

TFT8020 Flat Panel Color 18-inch (carbon)	159244-001
TFT5010 Flat Panel Color 15-inch (carbon)	154486-001
TFT5005 Flat Panel Color 15-inch (carbon)	201430-001
V710 Color 17-inch	187895-001
P1100 Color 21-inch	325606-001
S910 Color 19-inch	138485-001

See all Compaq monitors: http://www.compaq.com/products/monitors

MultiBay Hard Drives

10-GB SMART II Hard Drive	212790-B25
12-GB SMART II Hard Drive	163531-B25
18-GB SMART II Hard Drive	
20-GB SMART II Hard Drive	

Note: For Armada E500S as primary drive the Hard drive is shipped with a MultiBay adapter and can be used as secondary drive for transfer or back-up.

MultiBay Storage Devices

SuperDisk 2X LS-120 Drive	197895-B25
24X CD-ROM Drive	298452-B25
8X DVD-ROM Drive	138230-B25
CD-RW Drive	136186-B25

Connectivity

1394 PC Card	177593-B25
Compaq 56K (V.90) Modem plus Intel PRO/100+ Type II Mini PCI Card (NA)	149373-001

For additional compatible PC Cards, view the Compaq PC Card Solutions List on the Compaq Web site at: http://www.compaq.com/support/techpubs/pcmcia/.

Note: Designed only to allow faster downloads from v.90 compliant sources. Maximum achievable download transmission rates currently do not reach 56 KB/s, and will vary with line conditions.

Note: Modem availability is subject to country regulatory approval.

Wireless Connectivity

Compaq WL100 11 Mb/s Wireless LAN PC Card	146927-001
Compaq WL400 11 Mb/s Wireless LAN Hardware Access Point	158603-001
Compaq WL300 Software Access Point 11Mb/s	157209-B21

For more information on Compaq WLAN Wireless LAN solutions visit: http://www.compaq.com/products/wlan/wl100-specifications.html.

Options

Expansion Bases	
ArmadaStation EM	383500-001
ArmadaStation EM With Intel NIC	120266-001
ArmadaStation Tower Stand	123129-B25
Convenience Base EM	382500-001
Convenience Base EM With Intel NIC	120971-001
Convenience Base Monitor Cover	122931-001
Port Replicator EM	382300-001
PCI Cardbus Reader	127397-B25

Power	
Primary Battery (9-cell)	146252-B25
Common Armada Power Solutions – Armada M300 and Armada M700	
MultiBay Battery (6-cell)	387937-B25
External Battery Charger	135555-001
AC Adapter 50W	120765-001
Auto Power Adapter/Charger	401043-B25
Aircraft Power Adapter	386504-B21
AC Line Cord (10-ft)	217932-002

Note: For Armada E500, can also use a second battery in the E500 DualBay.

Input Devices	
External Enhanced III Keyboard (Carbon)	118003-008
Compaq 2 Button Mouse (Carbon)	103180-B21
Compaq Scroll Mouse	170299-B21
External 10-Key Numeric Keypad (Carbon)	294317-B21

Security & Useful Accessories	
Biometric PC Card	146805-B25
Security Cable Lock	294316-B21
Compaq Smart Card PC Card Reader	135646-B25
MP 1400 Microportable Projector	174626-004
MP 1800 Microportable Projector	180226-001
Multimedia Adapter and remote kit for the MP1400(Comes with 1800 as standard)	174963-001
MP1800/Mp 1400 lamp replacement	189789-001

Compaq Armada E500S

MEMORY

SUPPORT FOR UP TO 512 MB OF SDRAM MEMORY IS AVAILABLE WITH THE REMOVAL OF THE STANDARD 64-MB SDRAM MEMORY UPGRADE AND THE INSTALLATION OF OPTIONAL SDRAM MEMORY KITS.

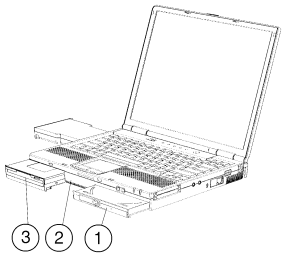
Up To	Slot 1	Slot 2
64 MB	64 MB	Empty
96 MB	64 MB	32 MB
128 MB	64 MB	64 MB
160 MB	128 MB	32 MB
192 MB	64 MB	128 MB
256 MB	128 MB	128 MB
320 MB	64 MB	256 MB
512 MB	256 MB	256 MB

Following are memory options available from Compaq:

- 256-MB 100-MHz Memory Upgrade 161554-B21
- 128-MB 100-MHz Memory Upgrade 400313-B21
- 64-MB 100-MHz Memory Upgrade 400312-B21

(Due to the non-industry standard nature of some third-party 256-MB memory modules, we strongly recommend using only Compaq branded 256-MB memory modules to ensure compatibility.)

Storage



1 MultiBay
2 Primary Hard Drive
3 Dual Bay

DRIVE SUPPORT

	Quantity Supported	Drive Bay Supported
Removable Media		
1.44-MB Diskette Drive	1	Dualbay
24X Max CD-ROM Drive	1	MultiBay
CD-RW Drive	1	MultiBay
DVD-ROM	1	MultiBay
SuperDisk 2X LS-120	1	MultiBay
Hard Drives		
18-GB SMART Hard Drive	2	Dedicated hard drive bay and MultiBay
12-GB SMART Hard Drive	2	Dedicated hard drive bay and MultiBay
5-GB SMART Hard Drive	2	Dedicated hard drive bay and MultiBay
10-GB SMART Hard Drive	2	Dedicated hard drive bay and MultiBay
20-GB SMART Hard Drive	2	Dedicated hard drive bay and MultiBay

Technical Specifications

System Unit

Dimensions (HxWxD)	
14.1" TFT and lower panel models	12.4 x 9.99 x 1.6 in/31.5 x 25.3 x 4.1 cm
Weight	
14.1" TFT panel and modem models	5.9 to 7 lbs/2.68 to 3.18 kg
13.3" TFT panel and modem models	5.7 to 6.8 lbs/2.59 to 3.08 kg
Stand-Alone Power Requirements	
Nominal Operating Voltage (Li-Ion)	10.8V
Average Operating Power	15W average
Peak Operating Power	30W peak
Power Supply	
Rated Input Voltage	90 to 264 VAC (auto-switching)
Rated Input Current	< 60W
Rated Frequency	47 to 63 Hz
Temperature	
Operating	50° to 95°F/10° to 35°C
Non-operating	–4° to 140°F /–20° to 60°C
Relative Humidity (non-condensing)	
Operating	10% to 90% relative humidity, non-condensing
Non-operating	5% to 95% relative humidity, 101.6°F/38.7°C Maximum wetbulb temperature
Shock	
Operating	10 G, 11 ms, half-sine
Non-operating	60 G, 11 ms, half-sine
Vibration	
Operating	0.5 G zero-to-peak, 10 to 500 Hz, 0.25 oct/min sweep rate
Non-operating	1 G, zero-to-peak, 10 to 500 Hz, 0.5 oct/min sweep rate
Maximum Altitude (unpressurized)	
Operating	0 to 10,000 ft(0 to 3,048 m
Non-operating	0 to 30,000 ft/0 to 9,144 m

Technical Specification

14.1-Inch Color TFT XGA Display

Viewable Dimensions (HxW)	11.22 x 8.46 in/28.5 x 21.5 cm
Diagonal Size	14.1 in/35.81 cm
Number of Colors	Up to 16.8M
Contrast Ratio	150:1
Brightness	120nt min, 150nt typ
Pixel Resolution	
Pitch	0.264 x 0.264 mm
Format	1024 x 768
Configuration	RGB stripe
Backlight	Edge Lit
Total Power Consumption	4.2W

13.3-Inch Color TFT XGA Display

Viewable Dimensions (HxW)	7.9 x 10.6 in 20.1 x 26.9 cm
Diagonal Size	13.3 in/33.8 cm
Number of Colors	Up to 16.8M
Contrast Ratio	Minimum 100:1
Brightness	120nt min, 150nt typ
Pixel Resolution	
Pitch	0.264 x 0.264 mm
Format	1024 x 768
Configuration	RGB stripe
Backlight	Edge Lit
Total Power Consumption	4.1W

Technical Specifications

Hard Drives

20 GB	**Capacity**	20 GB	**Seek Time** (typical reads, including settling)	
	Height	0.374 in/9.5 mm	Single Track	3 ms
	Width	2.75 in/70 mm	Average	12 ms
	Interface	ATA	Maximum	23 ms
	Transfer Rate		Rotational Speed	4,200 rpm
	Synchronous (Maximum)	66.6 MB/s (Drive Capability)	**Logical Blocks**	~ 39,070,080
			Operating Temperature	41° to 131°/5° to 55°C
	Security	ATA Security		
12 GB	**Capacity**	12 GB	**Seek Time** (typical reads, including settling)	
	Height	0.374 in/9.5 mm	Single Track	3 ms
	Width	2.75 in/70 mm	Average	12 ms
	Interface	ATA	Maximum	24 ms
	Transfer Rate		Rotational Speed	4,200 rpm
	Synchronous (Maximum)	66.6 MB/s (Drive Capability)	**Logical Blocks**	~ 23,579,136
			Operating Temperature	41° to 131°/5° to 55°C
	Security	ATA Security		
10 GB	**Capacity**	10 GB	**Seek Time** (typical reads, including settling)	
	Height	0.5 in/9.5 mm	Single Track	3 ms
	Width	2.75 in/70 mm	Average	12 ms
	Interface	ATA-4	Maximum	23 ms
	Transfer Rate		Rotational Speed	4,200 rpm
	Synchronous (Maximum)	66.6 MB/s	**Logical Blocks**	~ 19,792,896
			Operating Temperature	41° to 131°/5° to 55°C
	Security	SMART& DriveLock		
5 GB	**Capacity**	5 GB	**Seek Time** (typical reads, including settling)	
	Height	0.374 in/9.5 mm	Single Track	4 ms
	Width	2.75 in/70 mm	Average	12 ms
	Interface	ATA	Maximum	23 ms
	Transfer Rate		Rotational Speed	4,200 rpm
	Synchronous (Maximum)	66.6 MB/s (Drive Capability)	**Logical Blocks**	~ 9,767,520
	Security	ATA Security		

Technical Specification

Diskette Drive	**Diskette Size**	3.5 in
	Light	On system
	Height	0.5 in/12.7 mm
	Bytes per Sector	512
	Sectors per track	
	High density	18 (1.44 MB)/15 (1.2 MB)
	Low density	9
	Tracks per side	
	High density	80 (1.44 MB)/80 (1.2 MB)
	Low density	80
	Read/Write heads	2
	Access Times	
	Track-to track (high/low)	3 ms/6 ms
	Average (high/low)	94 ms/174 ms
	Settling time	15 ms
	Latency average	100 ms
External AC Adapter	**Dimensions** (HxWxL)	1.15 x 2.375 x 1.4in/2.92 x 6.03 x 3.6 cm
	Weight	0.66 lb/0.3 kg
	Power Supply (Input)	
	Operating Voltage	90 to 260 VAC RMS
	Operating Current	1.1 A RMS
	Operating Frequency Range	47 to 63 Hz AC
	Maximum Transient	4/50 kV
Li-Ion Battery Pack (9-cell)	**Dimensions** (HxWxL)	0.84 x 3.8 x 5.6 in/2.1 x 9.5 x 14.2 cm
	Weight	1 lb/0.455 kg
	Energy	
	Voltage	10.8 V
	Amp-hour capacity	4.8 Ah
	Watt-hour capacity	52 Wh
	Temperature	
	Operating	50° to95°F/10° to 35°C
	Non-operating	–12° to 140°F/–25° to 60°C

Technical Specifications

Compaq 56K (V.90) plus Intel PRO/100+ Mini PCI

Form Factor	Mini-PCI Type 1B and 2B per Specification
OS Support	Windows 98 (Gold, SE) Windows 2000, NT4.0, DOS Application Support under Windows
Power Management Support	APM Revision 1.2, ACPI, Compaq Power Management Extensions for Windows NT
Approvals/Certifications	UL, CSA, NEMKO, CCIB, Industry Canada, FCC Part 68, CTR21, FCC Part 15 Class B, Canadian ICES-003 Class B, C.I.S.P.R.22, Australian ACA, CE Mark, Other Countries
Modem Device Driver Name	Compaq 56K (V.90) Mini PCI
Data Mode Capabilities	V.90 (a-law, mu-law) K56flex (a-law, mu-law) V.8bis V.80 V42.bis, MNP5 (Compression) V.42 (LAPM, MNP2-4) (Error Correction) V.34 (file date: 10/96) Optional symbol rates: 2800, 3,429 Asymmetric Symbol rates Synchronous primary channel data signaling rates: 3600, 31,200 Automatic rate re-negotiation V.32bis V.32 V.23 V.22bis V.22 V.21 Bell 212A Bell 103J
Fax Mode Capabilities	TIA-578-S (Class 1) T.30, T.4 (Group 3) V.17 V.29 V.27ter V.21 Channel 2
Command Set	V.250 (Partial) TIA-602 Identification: +GMI, +GMM, +GMR Port control :+IPR, +ICF, +IFC, + Iirr Modulation: +MS, +MR, +MA Error control: +ES, +ER, +EB, +ESR, +ETBM Data compression: +DS, +DR V.251

Compaq 56K (V.90) plus Intel PRO/100+ Mini PCI (*continued*)

Ethernet Features	10 Mb/s Ethernet: IEEE 802.3 standard 10Base T 100 Mb/s Ethernet: IEEE 802.3u standard 100Base TX Full-Duplex at 10 and 100 Mb/s Auto-Negotiation Wake on LAN from all power managed states, including soft off (S5) Boot on LAN from OFF Lower Power State on Link Loss
Data Link Layers	IEEE 802.2 LLC SNAP
Software support	Artisoft Lantastic 7.0, 8.0, Dedicated Server 1.1 Banyan 7.x, 8.5x IBM LAN Server Version 1.2, 1.3, 2.0, 4.0 Microsoft NT 3.51, Windows 2000, NT 4.0 Novell Netware 3.1x, 4.x, 5.x
Protocol support	TCP/IP Novell IPX/SPX and Microsoft compatible Novel IPX ODI Microsoft NetBEUI Sun Microsystems PC-NFS Banyan Vines Ethernet IBM DLC

24X Max CD-ROM Drive

Applicable Disk	CD-ROM (Mode 1, 2 and 3), CD-XA ready (Mode 2, Form 1 and 2), CD-I ready (Mode 2, Form 1 and 2), CD-R (read only), CD Plus, Photo CD (Single and Multi-session), CD-Extra, Video CD, CD-WO (fixed packets only), CD-Bridge
Center Hole Diameter	0.59 in/15 mm
Disk Diameter	12 cm, 8 cm
Disk Thickness	1.2 mm
Track Pitch	1.6 µm
Access Times (typical reads, including settling)	
Random	< 150 ms
Full-Stroke	< 300 ms
Cache Buffer	128 KB
Data Transfer Rate (typical, including settling)	
Sustained (16X)	2400 KB/s (150 KB/s at 1X)
Variable	1500 to 3600 KB/s (10X to 24X)
Normal PIO Mode 4 (single burst)	16.66 MB/s
Start-up Time	< 8 seconds
Stop Time	< 4 seconds

Technical Specifications

8X Max DVD-ROM Drive

Center Hole Diameter	0.59 in/0.39 cm
Disk Diameter	12 cm/8 cm
Disk Thickness	1.2 mm
Track Pitch	0.74 µm
Access Times (typical reads, including settling)	
Random (typical)	< 180 ms DVD Media
Full-Stroke (typical)	< 300 ms DVD Media
Random (typical)	< 120 ms CD Media
Full-Stroke (typical)	< 200 ms CD Media
Cache Buffer	128 KB/s (minimum)
Data Transfer Rate (typical, including settling)	
Max 24X CD	3600 KB/s (150 KB/s at 1X CD rate)
Max 8X DVD	10,800 KB/s (1352 KB/s at 1X DVD rate)
Normal PIO Mode 4 (single burst)	16.6 MB/s
Start-up Time	<15 seconds
Stop Time	< 6 seconds

Compaq PCs use genuine Microsoft® Windows®
www.Microsoft.com\piracy\howtotell
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