

OVERVIEW

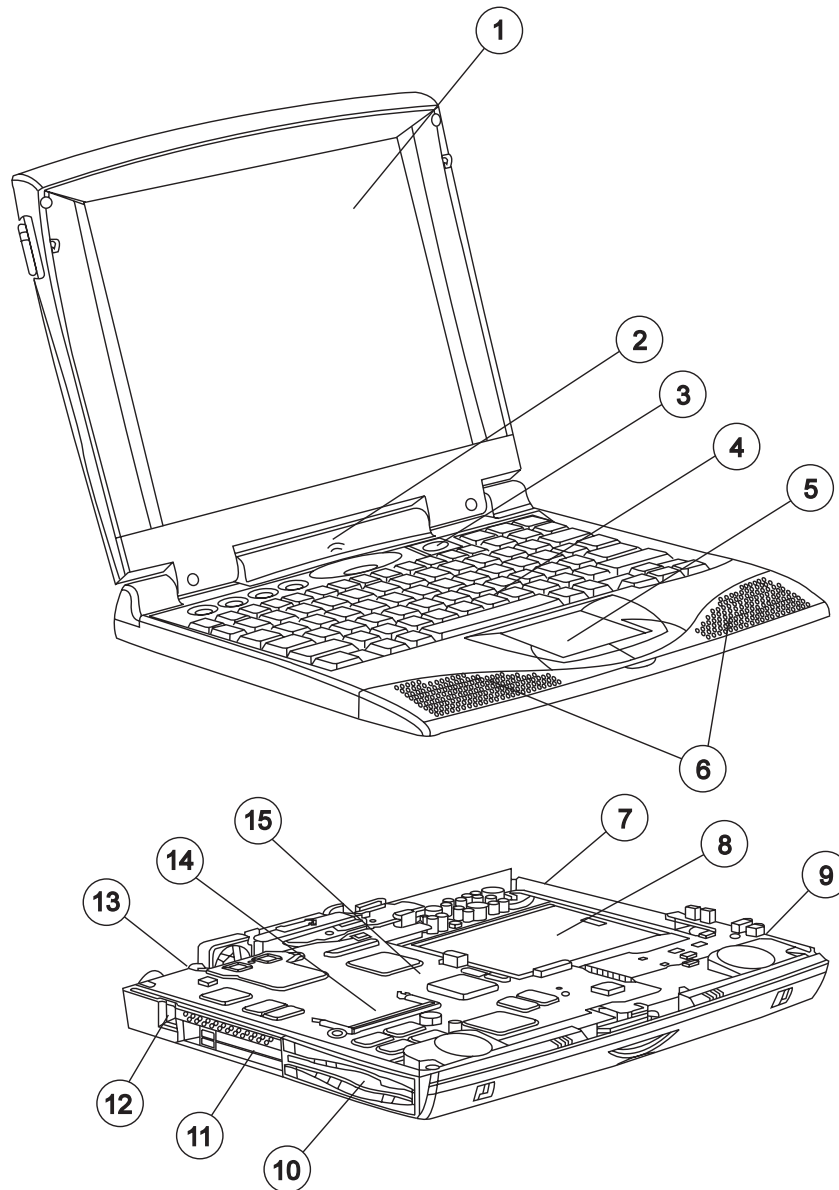
Compaq Armada 1500

BENEFITS AT A GLANCE

- All-in-one form factor with integrated modem, diskette drive, hard drive, CD-ROM Drive and AC Adapter
- Powerful 120- or 133-MHz Intel Pentium® or 133- or 150-MHz Pentium MMX processors
- 256 KB level two cache (133- and 150-MHz models)
- Choice of 11.3- or 12.1- inch CSTN or 12.1-inch TFT displays supporting resolutions up to 800 x 600
- 32-bit PCI local bus graphics
- 16 MB standard EDO RAM, expandable up to 80 MB
- Dual-function bay supports either additional battery or diskette drive
- Support for both Li-Ion and NiMH batteries
- 1.0-, 1.4- or 2.1-GB upgradable hard drives
- Internal 10X CD-ROM Drive
- Integrated 33.6 Kb/s data/14.4 Kb/s fax modem with full-duplex speakerphone
- Two Type II/One Type III 32-bit PC Card slots
- Full-sized keyboard with four user-programmable keys
- Touchpad pointing device
- Sound Blaster Pro-compatible with 16-bit stereo Compaq PremierSound, integrated speakers and microphone
- Software MPEG-1
- Intelligent Manageability for lower total cost of ownership
- Optional Pass-Through or Ethernet Convenience Bases
- Compaq power conservation features including Suspend
- Protected by CompaqCare including a one-year, Worldwide Limited Warranty¹

¹ Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.

² Full support in Windows 95.



1. Display
2. Microphone
3. Power Switch
4. Full-size Keyboard with Four User-programmable Keys
5. Touchpad Pointing Device
6. Stereo Speakers
7. 10X CD-ROM Drive
8. Upgradable Hard Drive
9. Li-Ion or NiMH Battery Pack
10. Dual Bay (supports additional battery or diskette drive)
11. Two Type II/One Type III PC Card Slots; Card Bus-capable²
12. Integrated 33.6 Kb/s Data/14.4 Kb/s Fax Modem
13. Integrated AC Adapter
14. Memory Slot
15. Processor Board

QUICKSPECS

Compaq Armada 1500

MODELS

Armada 1510DM
255250-003

Armada 1520DM
255050-003

Armada 1530DM
304950-005

Armada 1550DMT
255150-005

Armada 1580DMT
291550-005

STANDARD FEATURES

All-in-one Design

All-in-one design includes integrated Diskette Drive, Hard Drive, CD-ROM Drive, modem and AC Adapter providing full functionality in the office or on the road; dual-function bay supports either diskette drive or second battery for additional flexibility

Processor

Armada 1510DM: 120-MHz Intel Pentium® with integrated 16 KB cache

Armada 1520DM and 1550DMT: 133-MHz Intel Pentium with 256 KB level two write-back cache

Armada 1530DM: 133-MHz Intel Pentium with MMX technology and 256 KB level two write back cache

Armada 1580DMT: 150-MHz Intel Pentium with MMX technology and 256 KB level two write back cache

Display/Graphics

Armada 1510DM and 1520DM: 11.3-inch color STN with 800 x 600 resolution (up to 256 colors internal)

Armada 1530DM: 12.1-inch color STN with 800 x 600 resolution (up to 256 colors internal)

Armada 1550DMT and 1580DMT: 12.1-inch color TFT with 800 x 600 resolution and (up to 64K colors internal)

All models use 32-bit PCI local bus graphics with 1-MB EDO DRAM for video memory

Memory

16 MB of EDO RAM, expandable to 80 MB

Hard Drives

Armada 1510DM and 1520DM: 1.0-GB Hard Drive

Armada 1550DMT and 1530DM: 1.4-GB Hard Drive

Armada 1580DMT: 2.1-GB Hard Drive

Storage

Up to 2.1 GB

Multimedia

Compaq PremierSound for enhanced stereo audio including integrated 16-bit Sound Blaster Pro-compatible stereo audio, integrated stereo speakers and microphone, software/hardware volume control, headphone out, microphone in jacks, software MPEG-1 support; internal 10X CD-ROM Drive

Communications

Integrated 33.6 Kb/s data/14.4 Kb/s fax modem with full duplex speakerphone, Just Connect Software (Windows 95) or TRIO Communications Software (Windows NT) included for increased ease of use in modem communications

PC Card Slots

Two Type II/One Type III PC Card Slot(s) which support both 32-bit CardBus¹ and 16-bit PC Cards

Infrared Communication Port

4 Mb/s² infrared communication port for wireless communication with other infrared-equipped devices

Power

Integrated AC Adapter for less bulky transportation

Battery³

Both Li-Ion and NiMH batteries are supported; two to three hours of battery life supported with one battery; four to six hours when using two batteries

Integrated Pointing Device

Touchpad pointing device for intuitive use

Keyboard

101/102-key compatible keyboard with isolated, inverted-T cursor control keys, and right control key, four user-programmable keys; special feature hot keys for instant access to power conservation, QuickLock/QuickBlank, toggle between internal external, or simultaneous displays, battery gauge, speaker volume control, brightness and contrast

Power Conservation

Hibernation, Instant-On via Standby; pop-ups with three presets and one custom level of power conservation

Dimensions (HxWxD)

2.1 x 12.2 x 9.6 in/5.38 x 31.1 x 24.5 cm

Weight

Armada 1510DM: 7.9 lb/3.58 kg

All other models: 7.7 lb/3.49 kg

STANDARD FEATURES *(cont'd)*

Software

Dual install with choice of Microsoft Windows 95 or Microsoft Windows NT Workstation 4.0:

Windows 95 package includes: Compaq Intelligent Manageability, Microsoft Internet Explorer, Netscape, CompuServe and AOL, JustConnect, Microsoft NetMeeting, Microsoft PC Card Manager and PointCast

Windows NT Workstation 4.0 package includes: Compaq Intelligent Manageability, Microsoft Internet Explorer and TRIO Communications

Interfaces

Infrared, enhanced parallel, serial, external monitor, keyboard/pointing device, PC Card, microphone in, headphone out

Compaq Intelligent Manageability Software

Lowers total cost of ownership by providing enhanced security, asset management, fault prediction and SMART drives

Security

Cable lock support; power-on and set-up passwords; ability to disable serial port, parallel port, diskette drive, diskette drive boot sequence

Service and Support

CompaqCare provides a range of services, including a one-year, Worldwide Limited Warranty⁴, pick-up or carry-in; upgrade to on-site warranty or additional two year warranty available; lifetime toll-free 7x24 hardware technical phone support

OPTIONS

Memory

16-MB Memory Upgrade	272109-001
32-MB Memory Upgrade	220580-001
64-MB Memory Upgrade	220685-001

Diskette Drives/Hard Drives

1.4-GB Hard Drive	254940-B21
2.1-GB Hard Drive	255145-B21

OPTIONS *(cont'd)*

PC Cards/Communications

Netelligent 56K PC Card Modem	295050-001
Compaq Ethernet LAN Card	224750-001
10/100 TX PC Card UTP Controller	292812-B21
10 T PC Card UTP Controller	292806-B21
10 2 PC Card Coax Controller	292807-B21
10/100 TX PC Card UTP Controller Upgrade	292813-B21
100BaseTX Ethernet Upgrade	225435-001

For additional compatible PC Cards, view the Compaq PC Card Solutions List on the Compaq Web Site at <http://www.compaq.com/productinfo/notebooks>

Convenience Bases

Convenience Base (Ethernet)	254931-001
Convenience Base (Pass-Through)	254930-001

Power

Li-Ion Battery	254936-B21
NiMH Battery	254935-B21
External Battery Charger	254938-B21
Automobile Adapter	217934-002
AC Line Cord (10 ft)	217932-002

Monitors

V50 Color	264150-001
V70 Color	255606-001
P50 Color	264200-001
P70 Color	255650-001
QVision 210 Color ⁵	210406-601
TFT500 Flat Panel	285006-001

Other

Compaq Armada Headset	220460-001
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Carrying Cases

A full line of Compaq brand carrying cases are available through Targus/Fabrique. For information please contact Targus/Fabrique at 801-572-8908 or 714-523-5429.

¹ Full support in Windows 95
² IrDA 4MB compliant. IR performance will vary depending on performance of IR peripherals and applications used.
³ When tested in the standard configuration using the Ziff-Davis BatteryMark test version 1.0, the battery life of the Armada 1500 family will range from 2 hours and 0 minutes to 3 hours and 0 minutes depending on individual usage.
⁴ Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center at 1-800-OK-COMPAQ for details.
⁵ The Armada 1500 series supports up to 1024 x 768 with 256 colors.

FEATURES

Compaq Armada 1500

Compaq Armada 1510DM	Compaq Armada 1520DM	Compaq Armada 1530DM	Compaq Armada 1550DMT	Compaq Armada 1580DMT
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System Unit

Microprocessor	Intel Pentium® 120-MHz	Intel Pentium 133-MHz	Intel Pentium 133-MHz with MMX technology	Intel Pentium 133MHz	Intel Pentium 150 MHz with MMX technology
Cache	Integrated 16 KB	Integrated 16 KB; 256 KB level 2	Integrated 16 KB; 256 KB level 2	Integrated 16 KB; 256 KB level 2	Integrated 16 KB; 256 KB level 2
EDO DRAM					
Standard	16 MB	16 MB	16 MB	16 MB	16 MB
Maximum	80 MB	80 MB	80 MB	80 MB	80 MB
Advanced Power Management	Yes	Yes	Yes	Yes	Yes
Coprocessor	Yes	Yes	Yes	Yes	Yes
AC Adapter	Integrated	Integrated	Integrated	Integrated	Integrated

Display

Type	11.3-inch color STN	11.3-inch color STN	12.1-inch color STN	12.1-inch color TFT	12.1-inch color TFT
Resolution	800 x 600 SVGA with up to 256 colors	800 x 600 SVGA with up to 256 colors	800 x 600 SVGA with up to 256 colors	800 x 600 SVGA with up to 64 K colors	800 x 600 SVGA with up to 64 K colors
Extended Text	Yes	Yes	Yes	Yes	Yes

Graphics

32-bit PCI Local Bus Video	Yes	Yes	Yes	Yes	Yes
1024 x 768 External	Yes	Yes	Yes	Yes	Yes

Storage

Removable 1.44-MB Diskette Drive	Standard	Standard	Standard	Standard	Standard
Hard Drive					
Standard	1.0-GB	1.0-GB	1.4-GB	1.4-GB	2.1-GB
Optional	1.4-GB, 2.1-GB	1.4-GB, 2.1-GB	1.4-GB, 2.1-GB	1.4-GB, 2.1-GB	1.4-GB, 2.1-GB
CD-ROM Drive	10X CD-ROM	10X CD-ROM	10X CD-ROM	10X CD-ROM	10X CD-ROM

Communications

Integrated 33.6 Kb/s Data/14.4 Kb/s Fax Modem	Standard	Standard	Standard	Standard	Standard
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Interfaces

PC Card	Two Type II or One Type III slot(s)	Two Type II or One Type III slot(s)	Two Type II or One Type III slot(s)	Two Type II or One Type III slot(s)	Two Type II or One Type III slot(s)
Enhanced Parallel	1	1	1	1	1
Serial	1	1	1	1	1
External Monitor	1	1	1	1	1
External Keyboard/Pointing Device	1	1	1	1	1
Convenience Base	1	1	1	1	1
Headphone/Line out	1	1	1	1	1
Microphone	1	1	1	1	1
AC Power	1	1	1	1	1
RJ 11	1	1	1	1	1
Infrared	1	1	1	1	1

Compaq Armada 1510DM	Compaq Armada 1520DM	Compaq Armada 1530DM	Compaq Armada 1550DMT	Compaq Armada 1580DMT
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Pointing Device

Touchpad	Standard	Standard	Standard	Standard	Standard
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Monitors

V50 Color	Optional	Optional	Optional	Optional	Optional
V70 Color	Optional	Optional	Optional	Optional	Optional
P50 Color	Optional	Optional	Optional	Optional	Optional
P70 Color	Optional	Optional	Optional	Optional	Optional
QVision 210 Color ¹	Optional	Optional	Optional	Optional	Optional
TFT500 Flat Panel	Optional	Optional	Optional	Optional	Optional

Keyboard

Full-sized 101/102-key compatible Keyboard (with dedicated F11 and F12 Keys, four user programable keys and inverted "T" cursor controls)	Standard	Standard	Standard	Standard	Standard
Enhanced III Keyboard	Optional	Optional	Optional	Optional	Optional
Space Saver Keyboard	Optional	Optional	Optional	Optional	Optional

Supported System Software

Preinstalled Software	Dual install with choice of Microsoft Windows 95 or Microsoft Windows NT Workstation 4.0: Windows 95 package includes: Compaq Intelligent Manageability, Microsoft Internet Explorer, Netscape, Compuserve and AOL, JustConnect, Microsoft NetMeeting, Microsoft PC Card Manager and PointCast Windows NT Workstation 4.0 package includes: Compaq Intelligent Manageability, Microsoft Internet Explorer and TRIO Communications	Dual install with choice of Microsoft Windows 95 or Microsoft Windows NT Workstation 4.0: Windows 95 package includes: Compaq Intelligent Manageability, Microsoft Internet Explorer, Netscape, Compuserve and AOL, JustConnect, Microsoft NetMeeting, Microsoft PC Card Manager and PointCast Windows NT Workstation 4.0 package includes: Compaq Intelligent Manageability, Microsoft Internet Explorer and TRIO Communications	Dual install with choice of Microsoft Windows 95 or Microsoft Windows NT Workstation 4.0: Windows 95 package includes: Compaq Intelligent Manageability, Microsoft Internet Explorer, Netscape, Compuserve and AOL, JustConnect, Microsoft NetMeeting, Microsoft PC Card Manager and PointCast Windows NT Workstation 4.0 package includes: Compaq Intelligent Manageability, Microsoft Internet Explorer and TRIO Communications	Dual install with choice of Microsoft Windows 95 or Microsoft Windows NT Workstation 4.0: Windows 95 package includes: Compaq Intelligent Manageability, Microsoft Internet Explorer, Netscape, Compuserve and AOL, JustConnect, Microsoft NetMeeting, Microsoft PC Card Manager and PointCast Windows NT Workstation 4.0 package includes: Compaq Intelligent Manageability, Microsoft Internet Explorer and TRIO Communications	Dual install with choice of Microsoft Windows 95 or Microsoft Windows NT Workstation 4.0: Windows 95 package includes: Compaq Intelligent Manageability, Microsoft Internet Explorer, Netscape, Compuserve and AOL, JustConnect, Microsoft NetMeeting, Microsoft PC Card Manager and PointCast Windows NT Workstation 4.0 package includes: Compaq Intelligent Manageability, Microsoft Internet Explorer and TRIO Communications
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Physical Specifications

Dimensions (HxWxD)	2.1 x 12.2 x 9.6 in/ 5.38 x 31.1 x 24.5 cm	2.1 x 12.2 x 9.6 in/ 5.38 x 31.1 x 24.5 cm	2.1 x 12.2 x 9.6 in/ 5.38 x 31.1 x 24.5 cm	2.1 x 12.2 x 9.6 in/ 5.38 x 31.1 x 24.5 cm	2.1 x 12.2 x 9.6 in/ 5.38 x 31.1 x 24.5 cm
Weight	7.9 lb/3.58 kg	7.7 lb/3.49 kg	7.7 lb/3.49 kg	7.7 lb/3.49 kg	7.7 lb/3.49 kg

¹Supports up to 1024 x 768 with 256 colors on the Armada 1500.

MEMORY

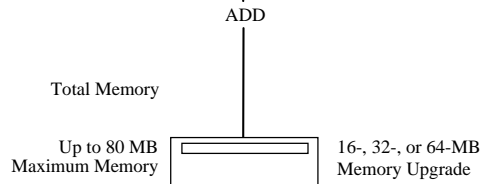
Compaq Armada 1500

Compaq Armada 1500

STANDARD
MEMORY

16 MB  System Board

OPTIONAL
MEMORY



The Armada 1500 family supports 60 ns EDO RAM.
Following are the memory options available from Compaq:

- 16-MB Memory Upgrade 272109-001
- 32-MB Memory Upgrade 220580-001
- 64-MB Memory Upgrade 220685-001

TECHSPECS

Compaq Armada 1500

System Unit

Dimensions (HxWxD)	2.1 x 12.2 x 9.6 in/5.38 x 31.1 x 24.5 cm
Weight	
Armada 1510DM	7.9 lb/3.58 kg
All other models	7.7 lb/3.49 kg
Stand-Alone Power Requirements	
Nominal Operating Voltage (Li-Ion)	14.2 VDC
Nominal Operating Voltage (NiMH)	9.6
Maximum Operating Power	35 W
Peak Operating Power	40 W
Temperature	
Operating	5 to 95° F/10 to 40° C
Nonoperating	-4 to 140° F/-30 to 60° C
Relative Humidity (noncondensing)	
Operating	10 to 90%
Nonoperating	5 to 95%
Shock	
Operating	10 G, 11 ms, half sine
Non operating	240 G, 2 ms, half sine
Vibration	
Operating	.55 G, .25 Oct/Min sweep rate
Nonoperating	1.5 G, .5 Oct/Min sweep rate
Maximum Altitude (unpressurized)	
Operating	10,000 ft/3.15 km
Nonoperating	30,000 ft/10.14 km

11.3-Inch Color STN SVGA Display

Dimensions (HxW)	6.77 x 10.02 in/17.88 x 22.1 cm
Diagonal Size	11.3 in/28.7 cm
Mounting	Internal
Number of Colors	256
Contrast Ratio	30:1 typical
Brightness	over 70 cd/m ²
Pixel Resolution	
Pitch	0.29 x .29 mm
Format	800 x 600
Configuration	RGB Stripe
Backlight	Edge Lit
Character Display	80 x 25
Total Power Consumption (with backlight)	6 W (max)

**12.1-Inch Color TFT
SVGA Display**

Dimensions (HxW)	10.05 x 10.4 in/17.1 x 23.9 cm
Diagonal Size	12.1 in/30.7 cm
Mounting	Internal
Number of Colors	64 K
Contrast Ratio	100:1
Brightness	over 70 cd/m ²
Pixel Resolution	
Pitch	.29 x .29 mm
Format	800 x 600
Configuration	RGB Stripe
Backlight	Edge Lit
Character Display	80 x 25
Total Power Consumption (with backlight)	6 W (max)

**12.1-Inch Color STN
VGA Display**

Dimensions (HxW)	10.05 x 10.4 in/17.1 x 23.9 cm
Diagonal Size	12.1 in/30.7 cm
Mounting	Internal
Number of Colors	256
Contrast Ratio	30:1 (typical)
Brightness	over 70 cd/m ²
Pixel Resolution	
Pitch	0.30 x 0.30 mm
Format	800 x 600
Configuration	RGB Stripe
Backlight	Edge Lit
Character Display	80 x 25
Total Power Consumption (with backlight)	6 W (max)

Hard Drives¹

	1.0-GB	1.4-GB	2.1-GB
Capacity Per Drive	1.0 GB	1.4 GB	2.1 GB
Drive Type	55	65	65
Transfer Rate			
Media	29-54 Mb/s	38-54 Mb/s	39.1-61.8 Mb/s
Interface	16.6 Mb/s	16.6 Mb/s	16.6 Mb/s
Sector Interleave	1:1	1:1	1:1
Seek Times (typical, including settling)			
Track-to-track	3 ms	3 ms	4 ms
Average	13 ms	13 ms	13 ms
Maximum	24 ms	23 ms	23 ms
Disk Rotational Speed	4200 rpm	4635 rpm	4200 rpm

Hard Drives (cont'd)

Physical Configuration	1.0-GB	1.4-GB	2.1-GB
Cylinders	3915	3915	4975
Heads	6	6	6
Sectors per track	90-180	90-180	110-180
Bytes per sector	512	512	512
Logical Configuration			
Cylinders	2100	2796	4200
Heads	16	16	16
Sectors per track	63	63	63
Bytes per sector	512	512	512
Buffer Size	128 K	128 K	96 KB

Diskette Drive

Diskette Size	3.5-inch
Light	None
Height	.82 in/2.08 cm
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

Integrated AC Adapter

Weight	.66 lb/.3 kg
Power Supply (Input)	
Operating Voltage	90 to 260 VAC RMS
Operating Current	1.10 A RMS
Operating Frequency Range	47 to 63 Hz AC
Maximum Transient	4/50 kV

Li-Ion Battery Pack

Dimensions (HxWxL)	.82 x 3.2 x 5.8 in/2.08 x 8.13 x 14.73 cm
Weight	.85 lb/.39 kg
Energy	
Voltage	14.4V
Amp-hour capacity	2.8 Ah
Watt-hour capacity	40 Wh
Temperature	
Operating	50° to 104° F/10° to 40° C
Nonoperating	-12° to 140°F/-30° to 60°C

NiMH Battery Pack

Dimensions (HxWxL)	.82 x 3.2 x 5.8 in/2.08 x 8.13 x 14.73 cm
Weight	1.2 lb/.54 kg
Energy	
Voltage	9.6 V
Amp-hour capacity	4.0 Ah
Watt-hour capacity	36 Wh
Temperature	
Operating	50° to 104° F/10° to 40° C
Nonoperating	-12° to 140°F/-30° to 60°C

Convenience Base

Dimensions (HxWxD)	4.9 x 14.2 x 14.7 in/12.46 x 36.07 x 37.34 cm
Weight	4.25 lb/1.93 kg
Power Supply (Input)	
Operating Voltage	100 to 240 VAC
Operating Current	1.10 Amp Maximum
Rated Voltage	100 to 240 VAC
Rated Current	1.0 Amp Maximum
Line Frequency	47 to 63 Hz
Temperature	
Operating	50 to 95°F/10 to 35°C
Nonoperating	-4 to 140°F/20 to 60°C
Relative Humidity	
Operating	10 to 90%
Nonoperating	5 to 95%
Altitude	
Operating	10,000 ft/3.15 km
Nonoperating	30,000 ft/10.14 km
Shock	
Operating	10 G, 11 ms, half sine
Nonoperating	140 G, 2 ms, half sine
Vibration	
Operating	0.25 G, 5 to 500 Hz, 0.5 octave/min sweep rate
Nonoperating	1.0 G, 5 to 500 Hz, 0.5 octave/min sweep rate

10X CD-ROM Drive

Applicable Disc	CD-ROM (Mode 1 and 2) CD-DA CD-XA (Mode 2 Form 1, Form 2) CD-I (Mode 2, Form 1 and 2) CD-I Ready CD-Bridge CD-WO (fixed and variable packets) Photo CD (single and multi-session)
Center Hole Diameter	15 mm
Disc Diameter	12 cm, 8 cm
Disc Thickness	1.2 mm
Track Pitch	1.6 µm

10X CD-ROM Drive *(cont'd)*

Laser	
Output power	0.24 +/- .1 mw
Type	Semiconductor Laser GaAs
Wave length	780 +/- 25 nm
Access Times (typical, including settling)	
One-third Stroke	190 ms
Audio Output Level	
Line out	0.8-1.2 Vrms
Headphone	none
Cache Buffer	128 KB
Data Transfer Rate (typical, including settling)	
Sustained (10X)	1550 KB/s
	150 KB
Sustained (Single Burst)	8.3 MB/s
Startup Time	10 seconds

¹Hard drive specifications may vary slightly depending on vendor.