

# OVERVIEW

Compaq Armada 1500

## BENEFITS AT A GLANCE

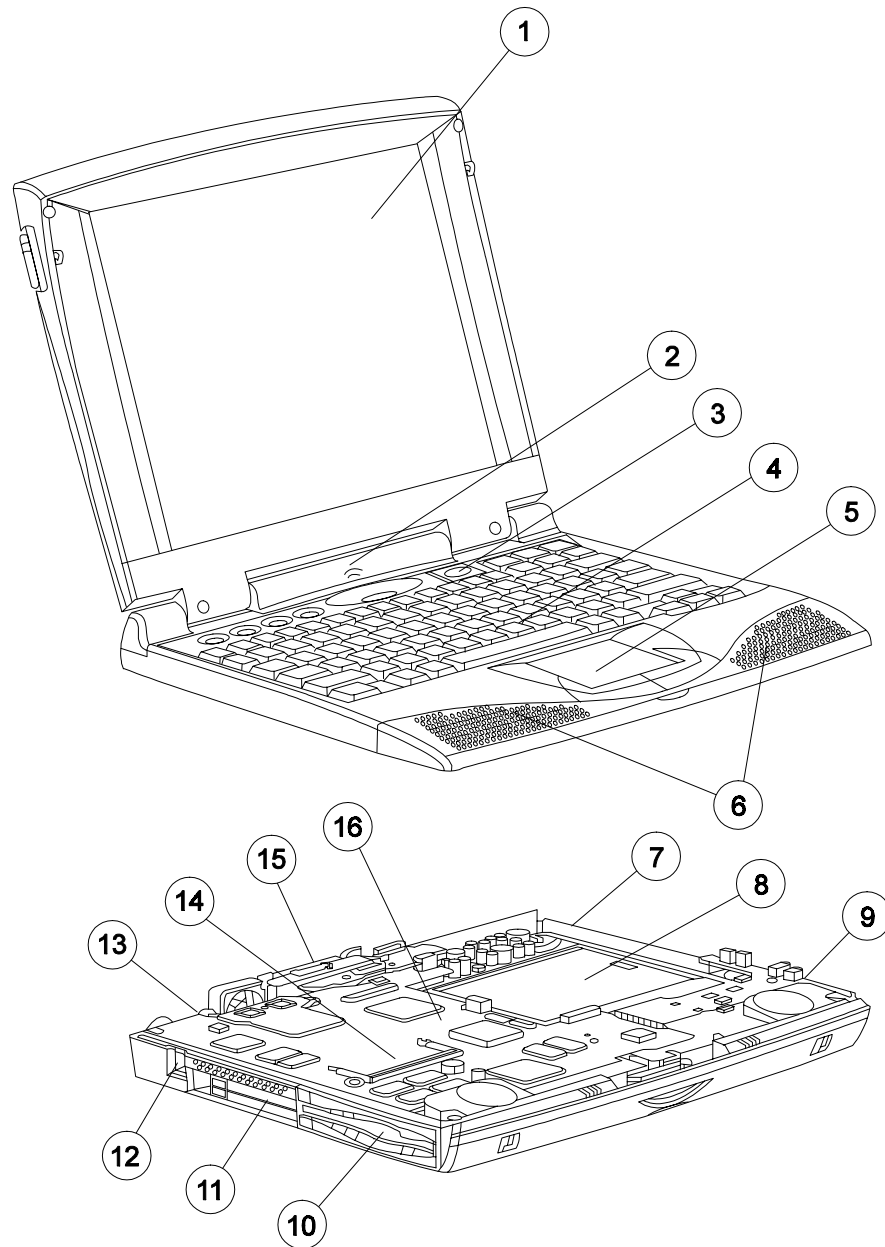
- All-in-one form factor with integrated modem, diskette drive, hard drive, CD-ROM Drive and AC Adapter
- Choice of 133-MHz Intel Pentium® or 133-, 150- or 166-MHz Pentium processor with MMX technology
- 256 KB level two cache
- Choice of 12.1-inch CSTN or CTFT displays supporting resolutions up to 800 x 600
- 32- or 64-bit video graphics with 1- or 2-MB EDO DRAM
- 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
- 1.4- or 2.1-GB SMART upgradable hard drives
- Internal 10X or 20X MAX<sup>1</sup> 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 a one-year, Worldwide Limited Warranty<sup>2</sup>

<sup>1</sup> Data transfer rates vary from 1276 KB/s to 3000 KB/s.

<sup>2</sup> Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.

<sup>3</sup> Full support in Windows 95.

<sup>4</sup> IrDA 4MB compliant. IR performance will vary depending on performance of IR peripherals and applications used.



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 or 20X MAX<sup>1</sup> CD-ROM Drive
8. Upgradable SMART 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-capable<sup>3</sup>
12. Integrated 33.6 Kb/s Data/ 14.4 Kb/s Fax Modem
13. 4 Mb/s Infrared Communication Port<sup>4</sup>
14. Memory Slot
15. Integrated AC Adapter
16. Processor Board

# QUICKSPECS

Compaq Armada 1500

## MODELS

**Armada 1530DM**  
304950-005

**Armada 1540DM**  
291350-007

**Armada 1550DMT**  
255150-005

**Armada 1580DMT**  
291550-005

**Armada 1590DMT**  
291450-007

## 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 1530DM: 133-MHz Intel Pentium® with MMX technology

Armada 1540DM and 1580DMT: 150-MHz Intel Pentium with MMX technology

Armada 1550DMT: 133-MHz Intel Pentium

Armada 1590DMT: 166-MHz Intel Pentium with MMX technology

All models include 256 KB level two write back cache

### Display/Graphics

Armada 1530DM: 12.1-inch high-contrast color STN with 800 x 600 resolution (up to 256 colors internal) and 32-bit video graphics with 1-MB EDO DRAM

Armada 1550DMT and 1580DMT: 12.1-inch color TFT with 800 x 600 resolution (up to 64K colors internal) and 32-bit video graphics with 1-MB EDO DRAM

Armada 1540DM: 12.1-inch high-contrast color STN with 800 x 600 resolution (up to 16.7M colors internal) and 64-bit video graphics with 2-MB EDO DRAM for increased color depth and graphics performance

Armada 1590DMT: 12.1-inch color TFT with 800 x 600 resolution (up to 16.7M colors internal) and 64-bit video graphics with 2-MB EDO DRAM for increased color depth and graphics performance

### Memory

16 MB of EDO RAM, expandable to 80 MB

### Hard Drives

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

Armada 1540DM, 1580DMT, and 1590DMT: 2.1-GB SMART 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 20X MAX CD-ROM Drive<sup>1</sup> (Armada 1540DM and 1590DMT) or internal 10X CD-ROM Drive (all other models)

### 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 CardBus<sup>2</sup> and 16-bit PC Cards; zoomed video support in bottom slot only

### Infrared Communication Port

4 Mb/s<sup>3</sup> infrared communication port for wireless communication with other infrared-equipped devices

### Power

Integrated AC Adapter for less bulky transportation

### Battery<sup>4</sup>

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

**STANDARD FEATURES** *(cont'd)*

**Weight**

Armada 1530DM: 7.48 lb/3.39 kg  
 Armada 1540DM: 7.44 lb/3.37 kg  
 Armada 1550DMT: 7.35 lb/3.33 kg  
 Armada 1580DMT: 7.52 lb/3.41 kg  
 Armada 1590DMT: 7.46 lb/3.38 kg

**Software**

Armada 1540DM and 1590DMT: Single install of Windows 95, Compaq Intelligent Manageability, Microsoft Internet Explorer, Netscape, Compuserve and AOL, JustConnect, Microsoft NetMeeting, Microsoft PC Card Manager and PointCast

All other models: 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 with 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**

Compaq Services includes a one-year, Worldwide Limited Warranty<sup>5</sup>, pick-up or carry-in; upgrade to on-site warranty or additional two year warranty available; 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**

2.1-GB SMART Hard Drive 255145-B21

**OPTIONS** *(cont'd)*

**PC Cards/Communications**

Netelligent 56K PC Card Modem<sup>6</sup> 295050-001  
 SpeedPaq Cellular PC Card + 221200-001  
     SpeedPaq 336 Telephony modem  
 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 292813-B21  
     Upgrade

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  
 V90 Color 305609-001  
 P50 Color 264200-001  
 P70 Color 255650-001  
 P110 Color 284956-001  
 TFT500 Flat Panel 285006-001

**PC companion**

C120 266500-001  
 C120+ 266502-001  
 C140 266550-001

**Other**

Compaq Armada Headset 220460-001  
 Compaq Multimedia Sound System<sup>7</sup> 294106-001

**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.

<sup>1</sup> Data transfer rates vary from 1276 KB/s to 3000 KB/s.

<sup>2</sup> Full support in Windows 95

<sup>3</sup> IrDA 4MB compliant. IR performance will vary depending on performance of IR peripherals and applications used.

<sup>4</sup> 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.

<sup>5</sup> Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.

<sup>6</sup> Actual transmission rates will vary with line conditions.

<sup>7</sup> For use with P50, V70, P70, V90, P110 and TFT500 Flat Panel monitors.

# FEATURES

Compaq Armada 1500

Compaq Armada 1530DM	Compaq Armada 1540DM	Compaq Armada 1550DMT	Compaq Armada 1580DMT	Compaq Armada 1590DMT
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## System Unit

Microprocessor	Intel Pentium® Processor 133-MHz with MMX technology	Intel Pentium Processor 150-MHz with MMX technology	Intel Pentium 133-MHz	Intel Pentium Processor 150-MHz with MMX technology	Intel Pentium Processor 166-MHz with MMX technology
Cache	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	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	12.1-inch color STN	12.1-inch color STN	12.1-inch color TFT	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 16 M colors	800 x 600 SVGA with up to 64 K colors	800 x 600 SVGA with up to 64 K colors	800 x 600 SVGA with up to 16 M colors
Extended Text	Yes	Yes	Yes	Yes	Yes

## Graphics

32-bit Video Graphics with 1-MB EDO DRAM	Yes	No	Yes	Yes	No
64-bit Video Graphics with 2-MB EDO DRAM	No	Yes	No	No	Yes
1024 x 768 External	Yes	Yes	Yes	Yes	Yes
1280 x 1024 External	No	Yes	No	No	Yes

## Storage

Removable 1.44-MB Diskette Drive	Standard	Standard	Standard	Standard	Standard
Hard Drive					
Standard	1.4-GB SMART	2.1-GB SMART	1.4-GB SMART	2.1-GB SMART	2.1-GB SMART
Optional	2.1-GB SMART	2.1-GB SMART	2.1-GB SMART	2.1-GB SMART	2.1-GB SMART
CD-ROM Drive	10X CD-ROM	20X MAX CD-ROM <sup>1</sup>	10X CD-ROM	10X CD-ROM	20X MAX CD-ROM <sup>1</sup>

## 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

Compaq Armada 1530DM	Compaq Armada 1540DM	Compaq Armada 1550DMT	Compaq Armada 1580DMT	Compaq Armada 1590DMT
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**Interfaces (cont'd)**

AC Power	1	1	1	1
RJ 11	1	1	1	1
Infrared	1	1	1	1

**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
V90 Color	Optional	Optional	Optional	Optional	Optional
P50 Color	Optional	Optional	Optional	Optional	Optional
P70 Color	Optional	Optional	Optional	Optional	Optional
P110 Color	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 programmable keys and inverted "T" cursor controls)	Standard	Standard	Standard	Standard	Standard
Enhanced III 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	Single install of Windows 95, Compaq Intelligent Manageability, Microsoft Internet Explorer, Netscape, CompuServe and AOL, JustConnect, Microsoft NetMeeting, Microsoft PC Card Manager and PointCast	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	Single install of Windows 95, Compaq Intelligent Manageability, Microsoft Internet Explorer, Netscape, CompuServe and AOL, JustConnect, Microsoft NetMeeting, Microsoft PC Card Manager and PointCast
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	7.48 lb/3.39 kg	7.44 lb/3.37 kg	7.35 lb/3.33 kg	7.52 lb/3.41 kg	7.46 lb/3.38 kg

<sup>1</sup>Data transfer rates vary from 1276 KB/s to 3000 KB/s.

# MEMORY

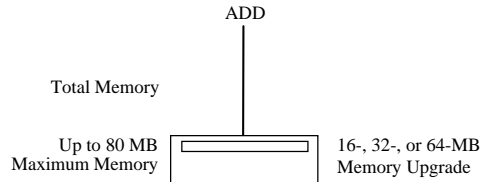
Compaq Armada 1500

## 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

<b>Dimensions (HxWxD)</b>	2.1 x 12.2 x 9.6 in/5.38 x 31.1 x 24.5 cm
<b>Weight</b>	
Armada 1530DM	7.48 lb/3.39 kg
Armada 1540DM	7.44 lb/3.37 kg
Armada 1550DMT	7.35 lb/3.33 kg
Armada 1580DMT	7.52 lb/3.41 kg
Armada 1590DMT	7.46 lb/3.38 kg
<b>Stand-Alone Power Requirements</b>	
Nominal Operating Voltage (Li-Ion)	14.2 VDC
Nominal Operating Voltage (NiMH)	9.6
Maximum Operating Power	35 W
Peak Operating Power	40 W
<b>Temperature</b>	
Operating	5 to 95° F/10 to 40° C
Nonoperating	-4 to 140° F/-30 to 60° C
<b>Relative Humidity (noncondensing)</b>	
Operating	10 to 90%
Nonoperating	5 to 95%
<b>Shock</b>	
Operating	10 G, 11 ms, half sine
Non operating	240 G, 2 ms, half sine
<b>Vibration</b>	
Operating	.55 G, .25 Oct/Min sweep rate
Nonoperating	1.5 G, .5 Oct/Min sweep rate
<b>Maximum Altitude (unpressurized)</b>	
Operating	10,000 ft/3.15 km
Nonoperating	30,000 ft/10.14 km

## 12.1-Inch Color TFT SVGA Display

<b>Dimensions (HxW)</b>	7.24 x 9.7 in/18.4 x 24.6 cm
<b>Diagonal Size</b>	12.1 in/30.7 cm
<b>Mounting</b>	Internal
<b>Number of Colors</b>	
1590DMT	16 M
All other models	64 K
<b>Contrast Ratio</b>	100:1
<b>Brightness</b>	over 70 cd/m <sup>2</sup>
<b>Pixel Resolution</b>	
Pitch	.30 x .30 mm
Format	800 x 600
Configuration	RGB Stripe
<b>Backlight</b>	Edge Lit
<b>Character Display</b>	80 x 25, 80 x 50
<b>Total Power Consumption (with backlight)</b>	6 W (max)

**12.1-Inch Color STN  
VGA Display**

<b>Dimensions (HxW)</b>	7.24 x 9.7 in/18.4 x 24.6 cm
<b>Diagonal Size</b>	12.1 in/30.7 cm
<b>Mounting</b>	Internal
<b>Number of Colors</b>	
1540	16 M
All other models	256
<b>Contrast Ratio</b>	30:1 (typical)
<b>Brightness</b>	over 70 cd/m <sup>2</sup>
<b>Pixel Resolution</b>	
Pitch	0.30 x 0.30 mm
Format	800 x 600
Configuration	RGB Stripe
<b>Backlight</b>	Edge Lit
<b>Character Display</b>	80 x 25, 80 x 50
<b>Total Power Consumption (with backlight)</b>	6 W (max)

**Hard Drives<sup>1</sup>**

	<b>1.0-GB</b>	<b>1.4-GB</b>	<b>2.1-GB</b>
<b>Capacity Per Drive</b>	1.0 GB	1.4 GB	2.1 GB
<b>Drive Type</b>	55	65	65
<b>Transfer Rate</b>			
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
<b>Sector Interleave</b>	1:1	1:1	1:1
<b>Seek Times (typical, including settling)</b>			
Track-to-track	3 ms	3 ms	4 ms
Average	13 ms	13 ms	13 ms
Maximum	24 ms	23 ms	23 ms
<b>Disk Rotational Speed</b>	4200 rpm	4635 rpm	4200 rpm
<b>Physical Configuration</b>			
Cylinders	3915	3915	4975
Heads	6	6	6
Sectors per track	90-180	90-180	110-180
Bytes per sector	512	512	512
<b>Logical Configuration</b>			
Cylinders	2100	2796	4200
Heads	16	16	16
Sectors per track	63	63	63
Bytes per sector	512	512	512
<b>Buffer Size</b>	128 K	128 K	96 KB

**Diskette Drive**

<b>Diskette Size</b>	3.5-inch
<b>Light</b>	None
<b>Height</b>	.82 in/2.08 cm
<b>Bytes per Sector</b>	512

**Diskette Drive** (cont'd)

<b>Sectors per track</b>	
High density	18 (1.44-MB)/15 (1.2-MB)
Low density	9
<b>Tracks per side</b>	
High density	80 (1.44-MB)/80 (1.2-MB)
Low density	80
<b>Read/Write heads</b>	2
<b>Access Times</b>	
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**

<b>Weight</b>	.66 lb/.3 kg
<b>Power Supply</b> (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**

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

**NiMH Battery Pack**

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

**Convenience Base**

<b>Dimensions</b> (HxWxD)	4.9 x 14.2 x 14.7 in/12.46 x 36.07 x 37.34 cm
<b>Weight</b>	4.25 lb/1.93 kg
<b>Power Supply</b> (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

**Convenience Base**  
(cont'd)

<b>Temperature</b>	
Operating	50 to 95°F/10 to 35°C
Nonoperating	-4 to 140°F/20 to 60°C
<b>Relative Humidity</b>	
Operating	10 to 90%
Nonoperating	5 to 95%
<b>Altitude</b>	
Operating	10,000 ft/3.15 km
Nonoperating	30,000 ft/10.14 km
<b>Shock</b>	
Operating	10 G, 11 ms, half sine
Nonoperating	140 G, 2 ms, half sine
<b>Vibration</b>	
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
<b>Monitor Support</b>	Up to 55 lb/24.95 kg

**10X CD-ROM Drive**

<b>Applicable Disc</b>	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)
<b>Center Hole Diameter</b>	15 mm
<b>Disc Diameter</b>	12 cm, 8 cm
<b>Disc Thickness</b>	1.2 mm
<b>Track Pitch</b>	1.6 µm
<b>Laser</b>	
Output power	0.24 +/- .1 mw
Type	Semiconductor Laser GaAs
Wave length	780 +/- 25 nm
<b>Access Times</b> (typical, including settling)	
One-third Stroke	190 ms
<b>Audio Output Level</b>	
Line out	0.8-1.2 Vrms
Headphone	none
<b>Cache Buffer</b>	128 KB
<b>Data Transfer Rate</b> (typical, including settling)	
Sustained (10X)	1550 KB/s 150 KB
Sustained (Single Burst)	8.3 MB/s
<b>Startup Time</b>	10 seconds

20X MAX CD-ROM Drive<sup>2</sup>

<b>Applicable Disc</b>	CD-DA, CD-ROM, CD-ROM XA (except ADPCM), CD-1, Photo CD (Multi Session), Video CD, CD-Extra (CD+), CD-G
<b>Center Hole Diameter</b>	15 mm
<b>Disc Diameter</b>	12 cm, 8 cm
<b>Disc Thickness</b>	1.2 mm
<b>Track Pitch</b>	1.6 $\mu$ m
<b>Laser</b>	
Output power	0.24 +/- 0.1 mW
Type	GaAiAS double hetero laser diode
Wave length	770-795 nm at Ph-2.7 mW
<b>Access Times</b> (typical, including settling)	150 ms
<b>Audio Output Level</b>	
Line out	0.8-1.2 Vrms
Headphone	none
<b>Cache Buffer</b>	128 KB
<b>Data Transfer Rate</b> (typical, including settling)	
Sustained (16X)	2400 KB/s 150 KB/s
Normal PIO Mode 4 (single burst)	16.66 MB/s
<b>Startup Time</b>	Less than 8 seconds

<sup>1</sup>Hard drive specifications may vary slightly depending on vendor.<sup>2</sup>Data transfer rates vary from 1276 KB/s to 3000 KB/s.