

### Overview

#### What's New

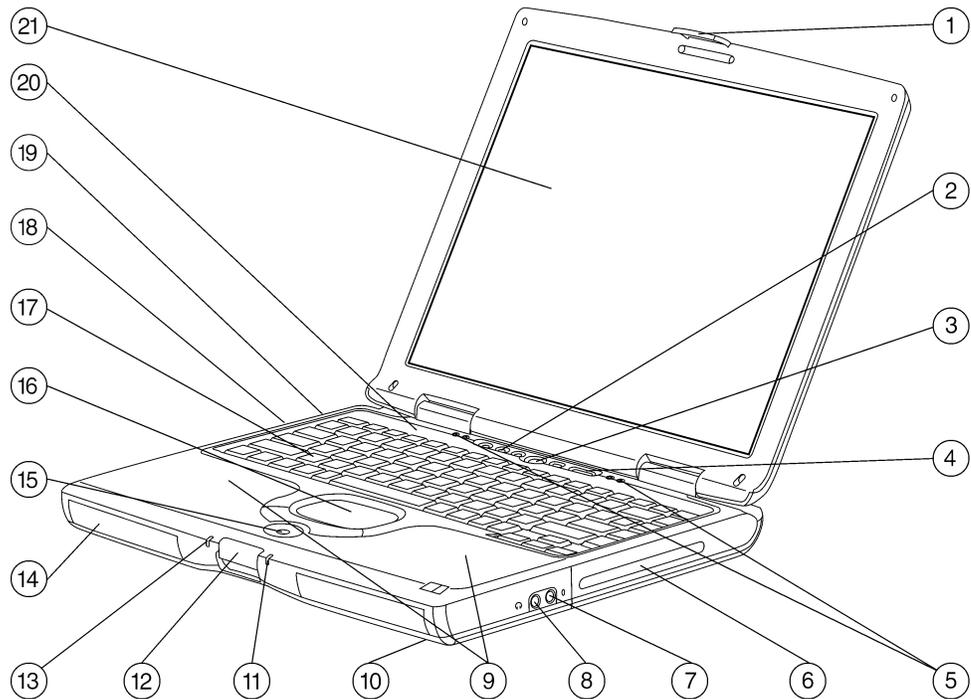
- Dual optical drive support with one fixed drive and one modular bay drive
- Mobile Intel® Pentium® III 1.2 GHz-M, 1.13 GHz-M, or 1.06 GHz-M processor with enhanced SpeedStep™ technology
- Digital Video Editing Port 1394
- Easy Access Internet Buttons

#### At A Glance

- Weighs only 7.6 lb/3.4 kg
- 1.6 in/4.1 cm thin
- 15-inch XGA TFT display
- 128 or 256-MB SDRAM (133 MHz) standard, upgradeable to 1024 MB
- Integrated mini PCI 56K V.92 modem plus 10/100 NIC
- Complete set of system ports including two USB port expansion options, 1394 Digital Video Input
- Full-size keyboard
- Microsoft® Windows® XP Pro or Windows 2000 Professional preinstalled
- Protected by a One-Year, Worldwide Limited Warranty — certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.

#### What's Special

- Modular Bay which enables simultaneous use of up to two optical drives, supports a second battery, or floppy drive
- Magnesium display enclosure



- |   |                                  |
|---|----------------------------------|
| 1. Display Release Tab                            | 11. Battery Light                |
| 2. Easy Access Buttons                            | 12. Display Release Latch        |
| 3. Power Switch                                   | 13. AC Power Light / Standby     |
| 4. Volume Control                                 | 14. Stereo Speakers              |
| 5. Status LEDs (AC, Caps-, Num-, Scroll- Lock)    | 15. 4-Way Internet Scroll Button |
| 6. Modular Bay Floppy Diskette Drive              | 16. Touch Pad                    |
| 7. Microphone Jack                                | 17. Keyboard                     |
| 8. Headphone Jack                                 | 18. Fixed Optical Drive          |
| 9. Soft Touch Palm Rests                          | 19. Security Lock Slot           |
| 10. Primary Hard Drive and Battery under the unit | 20. Lid Switch                   |
|   | 21. TFT Color Display            |

### Standard Features

<b>Panel and Processor</b>	15-inch TFT XGA display with 1024 x 768 resolution up to 16M colors 1.2 GHz-M on Mobile Intel Pentium III processor with 512-KB L2 cache, or 1.13 GHz-M on Mobile Intel Pentium III processor with 512-KB L2 cache, or 1.06 GHz-M on Mobile Intel Pentium III processor with 512-KB L2 cache <b>NOTE:</b> Mobile Intel Pentium III-M processors support enhanced Intel SpeedStep technology.	
<b>Memory</b>	Standard	256-MB (133 MHz) SDRAM
	Maximum	1024-MB (133 MHz) SDRAM
	<b>NOTE:</b> 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.	
<b>Communications</b>	Type III Mini PCI 56K (V.92) modem plus integrated 10/100 NIC <b>NOTE:</b> 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. <b>NOTE:</b> Communication availability is subject to country regulatory approval.	
<b>Keyboard</b>	Full-size desktop-compatible keyboard; special feature hotkeys for instant access to toggling between internal and external displays, or simultaneous displays and brightness Oversized keys and separate cursor control keys (88 keys) – 101-key compatible Windows Key SoftTouch Palm Rest provides a more comfortable feel.	
<b>Easy Access Internet Buttons</b>	The <i>Evo</i> <sup>TM</sup> Notebook N180 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.	
<b>Pointing Device</b>	TouchPad	
<b>PC Card Slots</b>	One (1) Type I/II PC Card Slot that supports both 32-bit CardBus (Full support in Microsoft Windows 9.x and Windows 2000) and 16-bit PCMCIA Cards	
<b>Storage</b>	Diskette Drives	1.44-MB diskette drive (model dependant)
	Fixed Optical Drives	DVD-ROM drive
	Modular Bay Drive	1.44-MB Floppy drive or CD-RW drive (model dependant)
	Hard Drive	30 GB or 20 GB (model dependant)
<b>Multimedia</b>	JBL Pro speakers for enhanced stereo audio Integrated 16-bit Sound Blaster Pro-compatible stereo audio Integrated speaker External volume controls Headphone-out Microphone in Software MPEG1 support DVD movie playback software DVD-ROM drive with DVD movie playback 4X AGP graphics 16 or 32-MB SDRAM (model dependant)	

## Standard Features

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<b>Interfaces</b>	PC Card Slot	1 Type I, II
	USB 1.1 Connectors	2
	Digital Video Port 1394	1
	Parallel SPP/ECP standard interface: (DB25 connector)	1
	PS/2 Style Mouse or Keyboard port	1
	RJ-45 Ethernet jack	1
	RJ-11 modem jack	1
	Audio ports (headphone/speaker out, microphone-in)	2
	S-Video TV-Out	1
	External VGA monitor port	1
	QuikDock connector	1
<b>Graphics</b>	ATI Mobility Radeon M6 with 16 or 32-MB SDRAM (model dependant) ATI Mobility Radeon M6 graphics processor includes hardware accelerated 3D graphics for enhanced DVD playback and 3D performance	
<b>Display (External)</b>	Up to 32-bit per pixel color depth Supports 1024 x 768 resolutions up to 100-Hz refresh rate, depending on monitor capability, resolution and color depth settings	
<b>Display (Internal)</b>	15-inch TFT XGA display with 1024 x 768 resolution up to 16.7M colors	
<b>Operating System</b>	Microsoft Windows XP Professional preinstalled, or Microsoft Windows 2000 Professional preinstalled	
<b>Software</b>	Online Safety and Comfort Guide Online User's Guide Norton Anti Virus 2001 Pinnacle Studio SW DVD Playback SW	
<b>System Recovery</b>	Each unit is shipped with a CD kit for quick recovery (erases hard disk and restores manufacturer-installed image) and software recovery (installs only selected standard software)	

### Standard Features

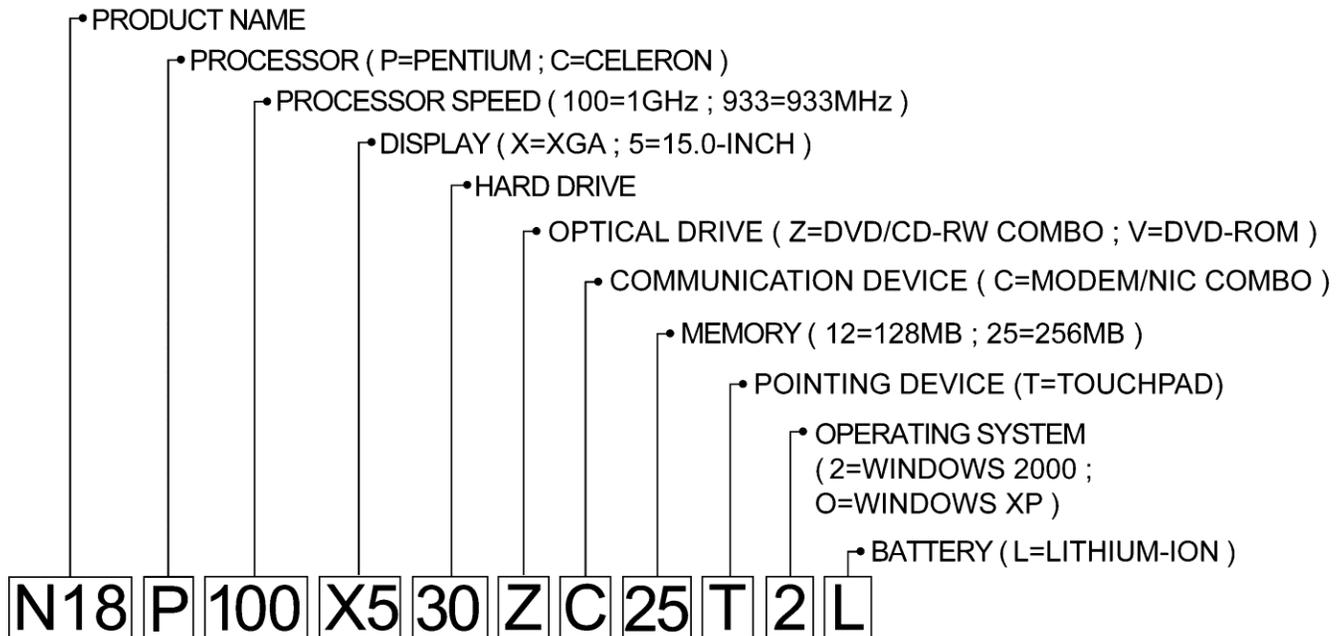
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<b>Security</b>	Cable lock support Power-On Password Supervisor Password
<b>Power Supply</b>	External AC Adapter; 6-foot/18.2-meter power cord included
<b>Battery</b>	<p>The <i>Evo</i> Notebook N180 8-cell Lithium-Ion battery provides up to four hours of battery life; up to six hours achieved using optional additional Modular Bay battery.</p> <p><b>NOTE:</b> Actual results may vary with product model, configuration, and individual usage. Compaq results of 4:05 (hr:min) were achieved running the eTesting Labs Inc.'s BatteryMark™ Test version 4.0.1 on an N180 with an Intel Pentium III-M 1 GHz CPU, 15-inch XGA panel, 128-MB RAM, 20-GB HDD, CD, 8-cell Lithium-Ion battery, and NIC/modem. System parameters were set according to eTesting Labs' recommendations: panel brightness 50%, hard drive standby and video idle time three minutes, Intel SpeedStep battery optimized mode.</p> <p><b>NOTE:</b> This test was performed without independent verification by eTesting Labs Inc. eTesting Labs Inc. makes no representations or warranties as to the result of the test. BatteryMark is a trademark of Ziff Davis Publishing Holdings Inc., and affiliate of eTesting Labs Inc., in the U.S. and other countries. Battery charge time about two hours when unit turned off.</p>
<b>Power Conservation</b>	Intel SpeedStep technology (allows a Battery Optimized Mode where CPU draws 50% of normal power yet affords 70 to 80% of maximum PIII processing speed) Hibernation Instant-on through Standby Pop-ups with three presets One custom level of power conservation ACPI compliant
<b>Modular Bay</b>	Modular Bay devices may be swapped with the system powered on (hot) or in suspend mode (warm) under any supported operating system.
<b>Service and Support</b>	Compaq Services includes a One-Year Limited Warranty, whole-unit replacement through second business day, pickup and delivery. (Eligibility depends on geographic location.) Optional services include a One-Year Warranty Extension. Certain restrictions and exclusions apply. See the Limited Warranty Statement for details.

## Standard Features

### Naming Convention

The Etymology of a Model name:



### Standard Features

#### MODELS

**NOTE:** These models are available in North America only.

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N18P113X520VC25TOL	<b>Display</b>	15-inch color TFT XGA	
	<b>Processor</b>	Mobile Intel Pentium III 1.13 GHz-M	
	<b>Cache Memory</b>	512-KB, L2 Cache	
	<b>Memory</b>	Standard 256-MB SDRAM Maximum 1024-MB SDRAM	
	<b>Fixed Optical Drive</b>	DVD-ROM drive	
	<b>Modular Bay</b>	Floppy drive	
	<b>Hard Drive</b>	20-GB	
	<b>Modem</b>	Type III Mini PCI 56K (V.92) modem plus integrated 10/100 NIC	
	<b>Graphics</b>	ATI Mobility Radeon M6-P graphics controller 4x AGP and 16-MB DDR SDRAM	
	<b>Audio</b>	JBL Pro speakers	
	<b>Operating System</b>	Microsoft Windows XP Professional	
	<hr/>		
	N18P120X530ZC25TOL	<b>Display</b>	15-inch color TFT XGA
<b>Processor</b>		Mobile Intel Pentium III 1.2 GHz-M	
<b>Cache Memory</b>		512-KB, L2 Cache	
<b>Memory</b>		Standard 256-MB SDRAM Maximum 1024-MB SDRAM	
<b>Fixed Optical Drive</b>		DVD-ROM drive	
<b>Modular Bay</b>		CD-RW drive	
<b>Hard Drive</b>		30-GB	
<b>Modem</b>		Type III Mini PCI 56K (V.92) modem plus integrated 10/100 NIC	
<b>Graphics</b>		ATI Mobility Radeon M6-P graphics controller 4x AGP and 32-MB DDR SDRAM	
<b>Audio</b>		JBL Pro speakers	
<b>Operating System</b>		Microsoft Windows XP Professional	

## Standard Features

**MODELS NOTE:** These models are available in North America only.

		Pentium III 1.13 GHz-M 15-inch XGA 256 MB 20-GB Fixed DVD-ROM drive Modular Bay Floppy Drive Integrated NIC Touchpad	Pentium III 1.2 GHz-M 15-inch XGA 256 MB 30-GB Fixed DVD-ROM Drive Modular Bay CD-RW drive Integrated NIC Touchpad	
<b>NORTH AMERICA</b>				
US				
	N180P113X520C25TOL	Windows XP Professional	470030-249	
	N180P120X530C25TOL	Windows XP Professional		470030-255

Additional Evo N180 models are available with the modules listed below through the "Built For Your Business", custom-configuration models at [www.directplus.compaq.com](http://www.directplus.compaq.com).

- Intel Pentium III-M 1.06 GHz
- Microsoft Windows 2000 Professional

## Options

<b>Memory</b>	512-MB SDRAM (133 MHz) Memory Module	238830-B25
	256-MB SDRAM (133 MHz) Memory Module	197898-B25
	128-MB SDRAM (133 MHz) Memory Module	197897-B25
	64-MB SDRAM (133 MHz) Memory Module	197896-B25
(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.)		
<b>Power</b>	Lithium-Ion (4.0AH) – Primary Battery	235883-B21
	High Capacity Lithium-Ion 2 <sup>nd</sup> Battery (Modular Bay option)	235882-B21
	AC Adapter	177624-001
	Auto Adapter	167895-001
<b>Modular Bay Optical Drives</b>	8X CD-RW	235880-B21
	8X DVD-ROM	235879-B21
	DVD/CD-RW combo drive	235881-B21
	1.44MB Floppy Drive	274040-B21
<b>Useful Accessories</b>	DEFCON Security Lock	201708-001
	DEFCON Security System	158638-001
<b>Carrying Cases</b>	Compaq Plus (Nylon)	242360-B25
	Compaq Ultralite (Nylon)	167336-B21
	Compaq Ultralite (Leather)	242359-B25
	Compaq Professional (Nylon)	242361-B25
	Compaq Professional (Leather)	242362-B25
<b>NOTE:</b> For additional Compaq Brand cases, visit <a href="http://www.compaq.com/products/notebooks/">http://www.compaq.com/products/notebooks/</a>		
<b>Port Expansion Solutions</b>	QuikDock Port Replicator	235884-B21

## Memory

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### STANDARD MEMORY

2 slots available

Slot 1 contains 1 256MB SODIMM

Standard	Slot 1	Slot 2
256 MB	256 MB	Empty
320 MB	256 MB	64 MB
384 MB	256 MB	128 MB
512 MB	256 MB	256 MB
768 MB	256 MB	512 MB
1 GB	512 MB	512 MB

Following are memory options available from Compaq:

- 64-MB Memory Upgrade            197896-B25
- 128-MB Memory Upgrade        197897-B25
- 256-MB Memory Upgrade        197898-B25
- 512-MB Memory Upgrade        238830-B25

## Storage

### DRIVE SUPPORT

System Drive Support	Quantity Supported	Drive Bay Supported
<b>Media</b>		
8x DVD-ROM	1	Modular Bay; Removable
CD-RW Drive	1	Modular Bay; Removable
DVD/CD-RW combo drive	1	Modular Bay; Removable
Secondary Battery	1	Modular Bay; Removable
1.44MB Floppy Drive	1	Modular Bay; Removable
<b>Hard Drives</b>		
20-GB Hard Drive	1	
30-GB Hard Drive	1	

## Technical Specifications

<b>System Unit</b>	<b>Dimensions (H x W x D)</b>	1.63 x 12.91 x 10.99 in/4.14 x 32.79 x 27.91 cm	
	<b>Weight</b>	15-inch TFT with Li-Ion Battery and weight saver 7.65 lb/3.47 kg	
	<b>Stand-Alone Power Requirements</b>	Nominal Operating Voltage (8-cell Lithium-Ion)	14.8 VDC
		Nominal Operating Voltage (6-cell Lithium-Ion in Modular Bay)	11.1 VDC
	<b>Temperature</b>	Operating	50° to 95°F/10° to 35°C
		Non-operating	-4° to 140°F/-20° to 60°C
	<b>Relative Humidity (non-condensing)</b>	Operating	10% to 90% relative humidity, non-condensing
		Non-operating	5% to 95% relative humidity, 101.6°F/38.7°C Maximum wet bulb temperature
	<b>Shock</b>	Operating	10 G, 11 ms, half-sine
		Non-operating	60 G, 11 ms, half-sine
	<b>Vibration</b>	Operating	0.5 G zero-to-peak, 10 to 500 Hz, at 0.5 oct/min sweep rate
		Non-operating	1.0 G, zero-to-peak, 10 to 500 Hz, at 0.5 oct/min sweep rate
	<b>Maximum Altitude (unpressurized)</b>	Operating	0 to 10,000 ft/0 to 3,048 m
		Non-operating	0 to 30,000 ft/0 to 9,144 m
	<b>15-inch Color TFT XGA Display</b>	<b>Dimensions (H x W)</b>	9.52 x 12.47 in/24.2 x 31.7 cm
<b>Diagonal Size</b>		15 in/38 cm	
<b>Mounting</b>		Internal (Side Mount)	
<b>Number of Colors</b>		256K	
<b>Contrast Ratio</b>		150:1	
<b>Brightness</b>		120+ nit	
<b>Pixel Resolution</b>		Pitch	0.297 x 0.297 mm
		Format	1024 x 768
		Configuration	RGB Vertical Stripe
<b>Backlight</b>		Cold cathode fluorescent, 1 tube	
<b>Character Display</b>	80 x 25		
<b>Total Power Consumption</b>	5.5W		
<b>Refresh</b>	60 Hz		

## Technical Specifications

### Hard Drives

#### 20-GB

<b>Capacity</b>	20 GB
<b>Height</b>	0.374 in/9.5 mm
<b>Width</b>	2.75 in/70 mm
<b>Interface</b>	ATA-5
<b>Transfer Rate</b>	Synchronous (maximum burst) 100 MB/s (Drive Capability)
	Security ATA Security
<b>Seek Time</b> (typical reads, including settling)	Single Track 2.5 ms
	Average 12 ms
	Maximum 23 ms
<b>Rotational Speed</b>	4200 rpm
<b>Logical Blocks</b>	~ 39,070,080
<b>Operating Temperature</b>	41° to 131°F/5° to 55°C

#### 30-GB

<b>Capacity</b>	30 GB
<b>Height</b>	0.374 in/9.5 mm
<b>Width</b>	2.75 in/70 mm
<b>Interface</b>	ATA-5
<b>Transfer Rate</b>	Synchronous (maximum burst) 100 MB/s (Drive Capability)
	Security ATA Security
<b>Seek Time</b> (typical reads, including settling)	Single Track 2.5 ms
	Average 12 ms
	Maximum 23 ms
<b>Rotational Speed</b>	4200 rpm
<b>Logical Blocks</b>	~ 58,605,120
<b>Operating Temperature</b>	41° to 131°F/5° to 55°C

## Technical Specifications

DVD/CD-RW Drive	Modular Bay Drive	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in/1.27 x 13.25 x 12.61 cm
		Weight	0.74 lb/0.33 kg
	Center Hole Diameter	1.5 cm	
	Disk Diameter	12 cm/8 cm	
	Disk Thickness	1.2 mm	
	Track Pitch	0.74 $\mu$ m	
	Access Times (typical reads, including settling)	Random CD-ROM	< 120 ms
		Full-Stroke CD-ROM	< 175 ms
	Audio Output Level	Line-out	0.7 Vrms
	Cache Buffer	128 KB/s (minimum)	
	Maximum transfer rate	Read (CD-ROM):	Up to 24X (3,600 KB/sec)
		Read (DVD):	Up to 6X (8,100 KB/sec)
		Write:	Up to 4X (600 KB/sec)
		Re-write:	Up to 4X (600 KB/sec)
	Start-up Time	< 7 seconds	Single Session Disk
Stop Time	< 4 seconds		

CD-RW Drive (Modular Bay)	Modular Bay Drive	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in/1.27 x 13.25 x 12.61 cm
		Weight	0.74 lb/0.33 kg
	Center Hole Diameter	1.5 cm	
	Disk Diameter	12 cm/8 cm	
	Disk Thickness	1.2 mm	
	Track Pitch	0.74 $\mu$ m	
	Access Times (typical reads, including settling)	Random	< 100 ms
		Full-Stroke	< 200 ms
	Audio Output Level	Line-out	0.7 Vrms
	Cache Buffer	128 KB/s (minimum)	
	Maximum transfer rate	Read (CD-ROM):	Up to 24X (3,600 KB/sec)
		Write:	Up to 8X (1,200 KB/sec)
		Re-write:	Up to 4X (600 KB/sec)
	Start-up Time	< 7 seconds	
	Stop Time	< 4 seconds	

## Technical Specifications

DVD-ROM Drive (Fixed)	Center Hole Diameter	1.5 cm		
	Disc Diameter	12 cm/8 cm		
	Disc Thickness	1.2 mm		
	Track Pitch	0.74 $\mu$ m		
	Access Times (typical reads, including settling)	Random	< 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	512 KB/s (minimum)		
	Maximum transfer rate	Read (CD-ROM):	Up to 24X (3,600 KB/sec)	
		Read (DVD):	Up to 8X (10,800 KB/sec)	
Start-up Time	< 12 seconds			
Stop Time	< 3 seconds			
External AC Adapter	Weight	0.45 lb/0.21 kg		
	Power Supply (Input)	Operating Voltage	100 to 240 VAC RMS Nominal	
		Operating Current	1.5 A RMS	
		Operating Frequency Range	50 to 60 Hz AC Nominal	
		Maximum Transient	4/50 kV	
Lithium-Ion Battery Pack	Dimensions (H x W x D)	0.86 x 5.63 x 3.34 in/2.2 x 14.3 x 8.5 cm		
	Weight	0.96 lb/0.44 kg		
	Cells	8-cell Lithium-Ion		
	Energy	Voltage	14.4 V	
		Amp-hour capacity	4.0 Ah	
		Watt-hour capacity	57.6Wh	
	Temperature	Operating	50° to 104°F/10° to 40°C	
		Non-operating	-4° to 140°F/-20° to 60°C	

### Technical Specifications

<b>Modular Bay Lithium-Ion Battery Pack</b>	<b>Dimensions (H x W x D)</b>	0.55 x 5.19 x 5.31 in/1.4 x 13.2 x 13.5 cm		
	<b>Weight</b>	0.77 lb/0.35 kg		
	<b>Cells</b>	6-cell Lithium-Ion		
	<b>Energy</b>	<b>Voltage</b>	10.8 V	
		<b>Amp-hour capacity</b>	3.6 Ah	
		<b>Watt-hour capacity</b>	38.9 Wh	
	<b>Temperature</b>	<b>Operating</b>	50° to 104°F/10° to 40°C	
		<b>Non-operating</b>	-4° to 140°F/-20° to 60°C	

Compaq PCs use genuine Microsoft® Windows®

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