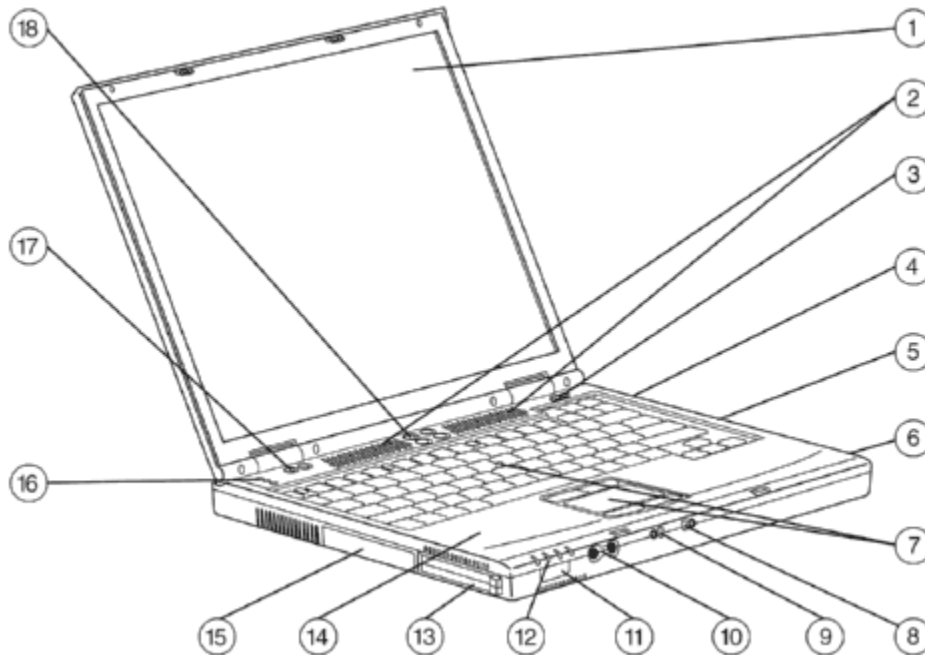


### Overview

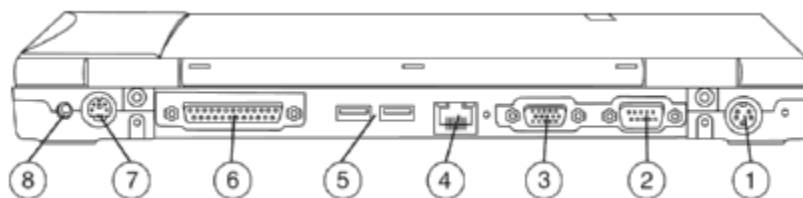
### Compaq Evo Notebook N620c

HP recommends Microsoft®  
Windows® XP Professional



1. Color Display
2. Stereo Speakers
3. Power Switch
4. RJ-11 (Modem)
5. MultiBay
6. Kensington Lock
7. Dual Pointing Devices
8. Audio-In
9. Headphone-Out

10. Volume Controls
11. Infrared Port
12. System LEDs
13. PC Card Slots (2)
14. Memory Access Door
15. Hard Drive
16. Keyboard LEDs
17. Suspend Button
18. Easy Access Internet Buttons



1. S-Video (TV Out)
2. VGA
3. Serial
4. RJ-45 (NIC)

5. USB (2)
6. Parallel
7. PS/2
8. DC In

## Overview

### At A Glance

- Intel® Pentium® M Processors at 1.3, 1.4, 1.5, or 1.6. GHz
- Microsoft® Windows® XP Professional or Microsoft Windows 2000
- ATI Mobility Radeon 7500 Graphics Controller with 32 MB of DDR video RAM.
- 14.1-inch SXGA+ or 14.1-inch XGA display
- Configurations as light as 4.8 lb/2.2 kg weight
- 1.2 in/3.048 cm thin
- 256 MB DDR RAM (266 MHz), upgradeable to 2048 MB
- Up to 60-GB 5400rpm, user-removable hard drives
- Full-size keyboard
- Includes three-year, Worldwide Limited Warranty. Next-day onsite service or one-year warranty is also available.

### What's New

- Intel Pentium M Processors
- Up to 6 hours of battery life
- Gigabit Ethernet NIC
- Common Port Replicator and Advanced Port Replicator with Gigabit NIC pass-through
- 802.11b Wireless LAN MultiPort now with Cisco LEAP support
- New Security features: Pre-boot BIOS Smart Card authentication and HP's ProtectTools Smart Card Security Manager Software
- USB port can power External MultiBay option
- HP's Mobile Printing driver makes on-the-go printing quick and easy

### Standard Features

<b>Processors</b>	<p>1.6-GHz Intel Pentium-M Processor with 400-MHz Front Side Bus and 1024-KB L2 cache</p> <p>1.5-GHz Intel Pentium-M Processor with 400-MHz Front Side Bus and 1024-KB L2 cache</p> <p>1.4-GHz Intel Pentium-M Processor with 400-MHz Front Side Bus and 1024-KB L2 cache</p> <p>1.3-GHz Intel Pentium-M Processor with 400-MHz Front Side Bus and 1024-KB L2 cache</p> <p><b>NOTE:</b> Intel Pentium-M Processors support enhanced Intel SpeedStep technology.</p>				
<b>Operating System</b> One of the following	<p>Microsoft Windows XP Professional or Microsoft Windows 2000.</p> <p>Microsoft Windows XP Home (English only).</p> <p><b>NOTE:</b> Driver support available for Microsoft Windows 98 SE and Microsoft Windows NT 4.0 in June 2003</p>				
<b>Display</b>	<table border="0"> <tr> <td data-bbox="357 683 446 716">Internal</td> <td data-bbox="655 683 1486 817"> <p>14.1-inch color TFT SXGA+ with 1400 x 1050 resolution (up to 16.7M colors internal)</p> <p>14.1-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal)</p> </td> </tr> <tr> <td data-bbox="357 828 454 862">External</td> <td data-bbox="655 828 1486 974"> <p>Up to 32-bit per pixel color depth</p> <p>Supports 640 x 480, 800 x 600, 1024 x 768, 1280 x 1024, 1400 x 1050, 1600 x 1200, or 2048 x 1536 resolutions up to 160-Hz refresh rate, dependent upon monitor capability, resolution and color depth settings</p> </td> </tr> </table>	Internal	<p>14.1-inch color TFT SXGA+ with 1400 x 1050 resolution (up to 16.7M colors internal)</p> <p>14.1-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal)</p>	External	<p>Up to 32-bit per pixel color depth</p> <p>Supports 640 x 480, 800 x 600, 1024 x 768, 1280 x 1024, 1400 x 1050, 1600 x 1200, or 2048 x 1536 resolutions up to 160-Hz refresh rate, dependent upon monitor capability, resolution and color depth settings</p>
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<b>Memory</b>	<table border="0"> <tr> <td data-bbox="357 1030 462 1064">Standard</td> <td data-bbox="655 1030 1458 1064">256-MB 266-MHz SDRAM DDR SDRAM (256-MB SODIMM in slot 1)</td> </tr> <tr> <td data-bbox="357 1070 478 1104">Maximum</td> <td data-bbox="655 1070 1458 1137">2-GB 266-MHz SDRAM DDR SDRAM (1024-MB SODIMMs in slots 1 and 2)</td> </tr> </table> <p><b>NOTE:</b> Due to the non-industry standard nature of some third-party memory modules, we recommend Compaq branded memory to ensure compatibility.</p>	Standard	256-MB 266-MHz SDRAM DDR SDRAM (256-MB SODIMM in slot 1)	Maximum	2-GB 266-MHz SDRAM DDR SDRAM (1024-MB SODIMMs in slots 1 and 2)
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Maximum	2-GB 266-MHz SDRAM DDR SDRAM (1024-MB SODIMMs in slots 1 and 2)				
<b>Communications</b>	<p>10/100/1000 NIC is integrated on the system board</p> <p>56K (V.92) modem with digital line guard</p> <p><b>NOTE:</b> Designed only to allow faster downloads from V.90/V.92 compliant sources. Maximum achievable download transmission rates currently do not reach 56 KB/s, and will vary with line conditions.</p> <p><b>NOTE:</b> Modem availability is subject to country regulatory approval.</p>				
<b>Keyboard</b>	<p>The 101/102-key compatible keyboard features an industry standard, full-width layout with desktop keyboard features, such as the isolated inverted-T cursor control keys, 3x2 editing keys, both left and right control and alt keys, and 12 function keys. The US layout has 84 keys and the International layout 85 keys. Other features include an integrated numeric keypad, hotkeys for instant access to power conservation, volume, brightness, and other features, 19.05 mm x 19.05 mm key pitch (center-to-center spacing), 2.5 mm stroke, comfort-dished keycaps, and bright key legends for improved visibility in low light conditions.</p>				
<b>Easy Access Internet Buttons</b>	<p>The Evo Notebook N620c comes with four programmable Easy Access Buttons to provide one-touch access to helpful Compaq information, favorite Internet destinations, files, or applications.</p>				

### Standard Features

**Pointing Device** Dual pointing devices (both Pointstick and Touchpad). Also available with Pointstick only or touchpad only.

**PC Card Slots** Two Type II/One Type III PC Card Slots which support both 32-bit CardBus and 16-bit PC Cards

**Storage**

Diskette Drives	Optional 1.44 MB Diskette Drive
Hard Drives	60-GB 5400 rpm SMART Hard Drive
	40-GB 5400 rpm SMART Hard Drive
	30-GB 4200 rpm SMART Hard Drive
Optical Drives	24X/10X/24X/8X DVD/CD-RW Combo Drive (CD-R/CD-RW/CD-ROM/DVD-ROM)
	24X/8X/24X CD-RW Drive (CD-R/CD-RW/CD-ROM)
	8X DVD-ROM Drive
	24X CD-ROM Drive

**NOTE:** Evo Notebook N620c hard drives are customer removable and will withstand multiple insertion/removal cycles.

**Multimedia**

- Compaq Premier-Sound enhanced stereo audio system
- Integrated 16-bit stereo audio
- Integrated stereo speakers and microphone
- External Hardware volume controls
- Headphone-out
- Microphone in
- CD, DVD, CDRW, or DVD/CDRW drive
- Software MPEG1, MPEG2 and DVD support
- DVD Movie Playback Software (on DVD and DVD/CD-RW models)
- S-video TV-out port
- 4X AGP graphics
- 32 MB of DDR VRAM

**Interfaces**

MultiPort	1
PC Card	2 Type II/1 Type III
Enhanced Parallel EPP/ECP	1 (can be used to connect external diskette drive)
Serial Port	1
S-video TV-out connector	1 (NTSC/PAL)
External Monitor	1
PS/2 External Keyboard/Pointing Device	1 Supports Y-cable to attach both Keyboard and Mouse simultaneously
Docking Connector	1
Headphone/Line-out	1
Microphone/Line- in	1
DC Power	1
RJ-11 (modem)	1
RJ-45 (NIC)	1
Infrared Port	1 (4 Mb/s support) (IrDA 4 MB compliant. IR performance will vary depending on performance of IR peripherals and application used.)

### Standard Features

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USB Port (USB 2.0) 2 (one port can power the External MultiBay option)  
LED status indicators 7

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### Graphics

ATI Mobility Radeon 7500 4X AGP graphics controller with 32-MB DDR VRAM  
Hardware support for DirectX 7.0  
ATI Powerplay Technology

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### Software

#### **Installed Software**

Intervideo WinDVD Player\*

Adobe Acrobat Reader

HP Mobile Printing for Notebooks

**NOTE:** The HP mobile printing driver allows you to print quickly and easily to almost any network postscript printer. Print your document to the Mobile Printer Driver and enter the IP address of a nearby network printer when prompted, and your document prints to it. No driver installation or setup is required.

Compaq Wireless LAN MultiPort W200 Software

Compaq Bluetooth Software\*

Broadcom Netxtreme Gigabit Ethernet Drivers

Synaptics Touchpad Driver

Intel SpeedStep Technology Applet (Windows 2000 only)\*

Altiris eXpress Client Win32\*

Insight Management Agents\*

Diagnostics for Windows\*

Remote Diagnostics Enabling Agents\*

Compaq Easy Access Button Software

Compaq Help and Support (XP Only)

Compaq Info Center (XP Only)

#### **Software on CD**

Compaq Quick Restore System Recovery

Roxio Easy CD Creator 5 (on CDRW and DVD/CDRW models)

Compaq Evo N620c Documentation Library

#### **Software on [www.hp.com](http://www.hp.com)**

ProtectTools Smart Card Security Manager ([www.hp.com/security](http://www.hp.com/security))

Supporting software and drivers for Windows 98 SE and Windows NT 4.0.\*\*

Comprehensive driver, BIOS, and software downloads

Compaq Evo N620c Models with Microsoft Office XP Professional or Office XP Small Business Edition are available in North America at [www.hp.com](http://www.hp.com) for customers with less than 500 employees.

\* Software is loaded on the HDD and must be installed by running the Setup Compaq Software utility.

\*\* Available 2Q03.

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### System Recovery

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)

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### Standard Features

#### Intelligent Manageability

Intelligent Manageability, a key component of HP PC Lifecycle Solutions, is the broad set of manageability features found on Evo Client and ProLiant server products. These manageability features on PC clients comply with industry standards, such as DMI, SMBIOS, PXE, and WBEM and Wired for Management, while pioneering new ground in client manageability. HP introduced the industry's first line of manageable clients in 1995 and has been driving the industry ever since. With HP's lifecycle management philosophy, enterprises have all of the pieces for end-to-end management and proven tools for hassle-free management of PCs. The combination of these tools significantly lowers the Total Cost of Ownership of managing the computing environment. Intelligent Manageability offers solutions in the areas of Initial Configuration and Deployment, Asset Tracking and Security, Software Updating and Management, and Fault Notification and Recovery. More information is available at the following web sites: <http://www.compaq.com/im>; <http://www.compaq.com/easydeploy>; <http://www.compaq.com/solutions/pcsolutions>.

**NOTE:** These Web sites are available in English only.

#### Security

Configuration Control Hardware  
Memory Change Alert  
Ownership Tag  
Set-up Password  
Power-On Password  
DriveLock  
Enabled for PC Smart Card options  
Kensington Lock  
Pre-boot BIOS authentication of smart card capability

#### Power Supply

External 65 W AC adapter, 6-foot/1.8-meter power cord included.  
Total length including External AC adapter is 12 feet/3.66 meter.

#### Battery

The Evo Notebook N620c provides up to 6 hours of battery life using the standard 8-cell Lithium-Ion battery and up to 10 hours with the optional MultiBay battery.

**NOTE:** Actual results may vary with product model, configuration, and individual usage. Hewlett-Packard testing of an N620c with an Intel Pentium-M 1.4 GHz CPU, Windows XP Pro, 14.1" XGA LCD, 256-MB RAM, 40-GB HDD, DVD, Lithium-Ion primary battery, and NIC/modem, achieved an overall Business Winstone 2002 BatteryMark score of 6h 8m Business Winstone 2002 BatteryMark Version 1.0 units. Winstone® is a registered trademark and BatteryMark™ is a trademark of Ziff Davis Publishing Holdings Inc. in the U.S. and other countries. Copyright 2002 Ziff Davis Media Inc. All Rights Reserved. System parameters followed test recommendations: panel brightness 50%, power management scheme - Laptop/Portable, hard drive, standby and video timers set to never. This N620c configuration with an optional Lilon MultiBay battery substituted for the DVD device achieved an overall Business Winstone 2002 BatteryMark score of 10h 45m Business Winstone 2002 BatteryMark Version 1.0 units.

<b>Battery Re-Charge Time</b>	System in OFF mode or Standby	2 hours
	System ON (depending on system power consumption)	2-5 hours

#### Power Conservation

Supports enhanced Intel SpeedStep Technology (allows a Battery Optimized Mode, Maximum Performance Mode, or Automatic mode)  
Hibernation  
Instant-on via Standby  
Pop-ups with three presets  
One custom level of power conservation  
ACPI compliant

### Standard Features

#### MultiBay Devices

MultiBay devices may be swapped with the system powered (hot) under Windows 2000, or Windows XP Professional (except secondary hard drive). MultiBay devices can be swapped with system power off under any supported operating system.

#### MultiPort

MultiPort is a flexible, innovative solution providing customers the ability to connect to their choice of wireless standards such as 802.11b or Bluetooth. This can be achieved by simply changing out the high-performance wireless module, which is integrated into the top of the notebook. The award-winning MultiPort offers a cost effective means to migrate to future wireless standards as they become available.

#### Docking

**NEW! Port Replicator and Advanced Port Replicator with Gigabit NIC pass-through.** The new models of the port replicator and advanced port replicator provide simple and convenient port management and pass-through of Fast Ethernet or Gigabit NIC. Compatible across multiple products.

#### Service and Support

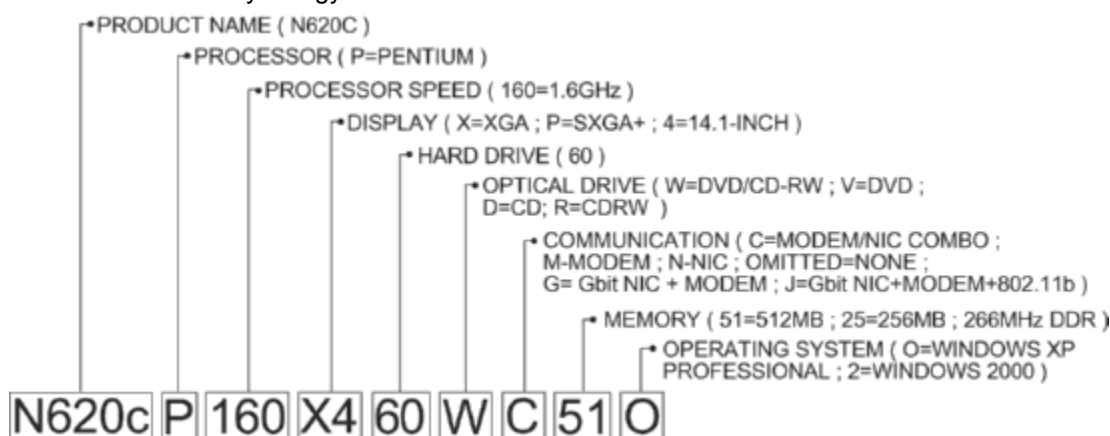
HP Services includes a Three-year, Worldwide Limited Warranty, pick-up or carry-in and toll-free 7 x 24 hardware technical phone support. On-site service or a one-year warranty are also available.

**NOTE:** Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.

[http://wwss1pro.compaq.com/support/warranty\\_upgrades/product\\_specific\\_warranty.asp](http://wwss1pro.compaq.com/support/warranty_upgrades/product_specific_warranty.asp)

#### Naming Convention

The Etymology of a Model name:



### Standard Features

#### Models

<b>N620cP160P460WG512</b> DE273A#xxx	<b>Processor</b>	1.6-GHz Intel Pentium-M processor with 400-MHz Front Side Bus
	<b>Operating System</b>	Microsoft Windows 2000
	<b>Display</b>	14.1-inch color TFT SXGA+ with 1400 x 1050 resolution (up to 16.7M colors internal)
	<b>Cache Memory</b>	1024 KB L2 cache
	<b>Memory</b>	Standard 512-MB 266-MHz SDRAM DDR SDRAM (256-MB SODIMM in slot 1)
		Maximum 2-GB 266-MHz SDRAM DDR SDRAM (512-MB SODIMM in slots 1 and 2)
	<b>Hard Drive</b>	60-GB 5400 rpm SMART Hard Drive
	<b>Video Memory</b>	32 MB
	<b>Optical Drive</b>	24X DVD/CDRW
	<b>Graphics</b>	ATI Mobility Radeon 7500 4X AGP graphics controller with 32 MB DDR VRAM
	<b>Audio</b>	Compaq Premier- Sound enhanced stereo audio system
	<b>Communications</b>	56K (V.92) modem, integrated 10/100/1000 NIC
	<b>Pointing Device</b>	Dual pointing devices (both Pointstick and Touchpad)
<b>Battery</b>	8-cell 4.4 Ah	
<b>Warranty</b>	3/3/0	

<b>N620cP160P460WG510</b> DE272A#xxx	<b>Processor</b>	1.6-GHz Intel Pentium-M processor with 400-MHz Front Side Bus
	<b>Operating System</b>	Microsoft Windows XP Professional
	<b>Display</b>	14.1-inch color TFT SXGA+ with 1400 x 1050 resolution (up to 16.7M colors internal)
	<b>Cache Memory</b>	1024 KB L2 cache
	<b>Memory</b>	Standard 512-MB 266-MHz SDRAM DDR SDRAM (256-MB SODIMM in slot 1)
		Maximum 2-GB 266-MHz SDRAM DDR SDRAM (512-MB SODIMM in slots 1 and 2)
	<b>Hard Drive</b>	60-GB 5400 rpm SMART Hard Drive
	<b>Video Memory</b>	32 MB
	<b>Optical Drive</b>	24X DVD/CDRW
	<b>Graphics</b>	ATI Mobility Radeon 7500 4X AGP graphics controller with 32 MB DDR VRAM
	<b>Audio</b>	Compaq Premier-Sound enhanced stereo audio system
	<b>Communications</b>	56K (V.92) modem, integrated 10/100/1000 NIC
	<b>Pointing Device</b>	Dual pointing devices (both Pointstick and Touchpad)
<b>Battery</b>	8-cell 4.4 Ah	
<b>Warranty</b>	3/3/0	



### Standard Features

<b>N620cP150P460WG512</b> DE271A#xxx	<b>Processor</b>	1.5-GHz Intel Pentium-M processor with 400-MHz Front Side Bus
	<b>Operating System</b>	Microsoft Windows 2000
	<b>Display</b>	14.1-inch color TFT SXGA+ with 1400 x 1050 resolution (up to 16.7M colors internal)
	<b>Cache Memory</b>	1024 KB L2 cache
	<b>Memory</b>	Standard 512-MB 266-MHz SDRAM DDR SDRAM (256-MB SODIMM in slot 1) Maximum 2-GB 266-MHz SDRAM DDR SDRAM (512-MB SODIMM in slots 1 and 2)
	<b>Hard Drive</b>	60-GB 5400 rpm SMART Hard Drive
	<b>Video Memory</b>	32 MB
	<b>Optical Drive</b>	24X DVD/CDRW
	<b>Graphics</b>	ATI Mobility Radeon 7500 4X AGP graphics controller with 32 MB DDR VRAM
	<b>Audio</b>	Compaq Premier-Sound enhanced stereo audio system
	<b>Communications</b>	56K (V.92) modem, integrated 10/100/1000 NIC
	<b>Pointing Device</b>	Dual pointing devices (both Pointstick and Touchpad)
	<b>Battery</b>	8-cell 4.4 Ah
	<b>Warranty</b>	3/3/0

<b>N620cP150P460WG510</b> DE270A#xxx	<b>Processor</b>	1.5-GHz Intel Pentium-M processor with 400-MHz Front Side Bus
	<b>Operating System</b>	Microsoft Windows XP Professional
	<b>Display</b>	14.1-inch color TFT SXGA+ with 1400 x 1050 resolution (up to 16.7M colors internal)
	<b>Cache Memory</b>	1024 KB L2 cache
	<b>Memory</b>	Standard 512-MB 266-MHz SDRAM DDR SDRAM (256-MB SODIMM in slot 1) Maximum 2-GB 266-MHz SDRAM DDR SDRAM (512-MB SODIMM in slots 1 and 2)
	<b>Hard Drive</b>	60-GB 5400 rpm SMART Hard Drive
	<b>Video Memory</b>	32 MB
	<b>Optical Drive</b>	24X DVD/CDRW
	<b>Graphics</b>	ATI Mobility Radeon 7500 4X AGP graphics controller with 32 MB DDR VRAM
	<b>Audio</b>	Compaq Premier-Sound enhanced stereo audio system
	<b>Communications</b>	56K (V.92) modem, integrated 10/100/1000 NIC
	<b>Pointing Device</b>	Dual pointing devices (both Pointstick and Touchpad)
	<b>Battery</b>	8-cell 4.4 Ah
	<b>Warranty</b>	3/3/0

### Standard Features

<b>N620cP140X440VJ252</b> DE269A#xxx	<b>Processor</b>	1.4-GHz Intel Pentium-M processor with 400-MHz Front Side Bus
	<b>Operating System</b>	Microsoft Windows 2000
	<b>Display</b>	14.1-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal)
	<b>Cache Memory</b>	1024 KB L2 cache
	<b>Memory</b>	Standard 256-MB 266 MHz SDRAM DDR SDRAM (256-MB SODIMM in slot 1) Maximum 2-GB 266-MHz SDRAM DDR SDRAM (512-MB SODIMM in slots 1 and 2)
	<b>Hard Drive</b>	40-GB 5400 rpm SMART Hard Drive
	<b>Video Memory</b>	32 MB
	<b>Optical Drive</b>	8X DVD
	<b>Graphics</b>	ATI Mobility Radeon 7500 4X AGP graphics controller with 32 MB DDR VRAM
	<b>Audio</b>	Compaq Premier-Sound enhanced stereo audio system
	<b>Communications</b>	56K (V.92) modem, integrated 10/100/1000 NIC
	<b>Pointing Device</b>	Dual pointing devices (both Pointstick and Touchpad)
	<b>Battery</b>	8-cell 4.4 Ah
<b>Warranty</b>	3/3/0	

<b>N620cP140X440VJ250</b> DE268A#xxx	<b>Processor</b>	1.4-GHz Intel Pentium-M processor with 400-MHz Front Side Bus
	<b>Operating System</b>	Microsoft Windows XP Professional
	<b>Display</b>	14.1-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal)
	<b>Cache Memory</b>	1024 KB L2 cache
	<b>Memory</b>	Standard 256-MB 266 MHz SDRAM DDR SDRAM (256-MB SODIMM in slot 1) Maximum 2-GB 266-MHz SDRAM DDR SDRAM (512-MB SODIMM in slots 1 and 2)
	<b>Hard Drive</b>	40-GB 5400 rpm SMART Hard Drive
	<b>Video Memory</b>	32 MB
	<b>Optical Drive</b>	8X DVD
	<b>Graphics</b>	ATI Mobility Radeon 7500 4X AGP graphics controller with 32 MB DDR VRAM
	<b>Audio</b>	Compaq Premier-Sound enhanced stereo audio system
	<b>Communications</b>	56K (V.92) modem, integrated 10/100/1000 NIC
	<b>Pointing Device</b>	Dual pointing devices (both Pointstick and Touchpad)
	<b>Battery</b>	8-cell 4.4 Ah
<b>Warranty</b>	3/3/0	

### Standard Features

**N620cP140X440VG252**  
DE267A#xxx

<b>Processor</b>	1.4-GHz Intel Pentium-M processor with 400-MHz Front Side Bus
<b>Operating System</b>	Microsoft Windows 2000
<b>Display</b>	14.1-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal)
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<b>Battery</b>	8-cell 4.4 Ah
<b>Warranty</b>	3/3/0

**N620cP140X440VG250**  
DE266A#xxx

<b>Processor</b>	1.4-GHz Intel Pentium-M processor with 400-MHz Front Side Bus
<b>Operating System</b>	Microsoft Windows XP Professional
<b>Display</b>	14.1-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal)
<b>Cache Memory</b>	1024 KB L2 cache
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### Standard Features

<b>N620cP140X440VG252</b> DE265A#xxx	<b>Processor</b>	1.4-GHz Intel Pentium-M processor with 400-MHz Front Side Bus
	<b>Operating System</b>	Microsoft Windows 2000
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	<b>Video Memory</b>	32 MB
	<b>Optical Drive</b>	8X DVD
	<b>Graphics</b>	ATI Mobility Radeon 7500 4X AGP graphics controller with 32 MB DDR VRAM
	<b>Audio</b>	Compaq Premier-Sound enhanced stereo audio system
	<b>Communications</b>	56K (V.92) modem, integrated 10/100/1000 NIC
	<b>Pointing Device</b>	Dual pointing devices (both Pointstick and Touchpad)
	<b>Battery</b>	8-cell 4.4 Ah
<b>Warranty</b>	3/3/0	

### Standard Features

<b>N620cP130X430VG252</b> DE263A#xxx	<b>Processor</b>	1.3-GHz Intel Pentium-M processor with 400-MHz Front Side Bus
	<b>Operating System</b>	Microsoft Windows 2000
	<b>Display</b>	14.1-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal)
	<b>Cache Memory</b>	1024 KB L2 cache
	<b>Memory</b>	Standard 256-MB 266 MHz SDRAM DDR SDRAM (256-MB SODIMM in slot 1) Maximum 2-GB 266-MHz SDRAM DDR SDRAM (512-MB SODIMM in slots 1 and 2)
	<b>Hard Drive</b>	30-GB 4200 rpm SMART Hard Drive
	<b>Video Memory</b>	32 MB
	<b>Optical Drive</b>	8X DVD
	<b>Graphics</b>	ATI Mobility Radeon 7500 4X AGP graphics controller with 32 MB DDR VRAM
	<b>Audio</b>	Compaq Premier-Sound enhanced stereo audio system
	<b>Communications</b>	56K (V.92) modem, integrated 10/100/1000 NIC
	<b>Pointing Device</b>	Dual pointing devices (both Pointstick and Touchpad)
	<b>Battery</b>	8-cell 4.4 Ah
<b>Warranty</b>	3/3/0	

<b>N620cP130X430VG250</b> DE262A#xxx	<b>Processor</b>	1.3-GHz Intel Pentium-M processor with 400-MHz Front Side Bus
	<b>Operating System</b>	Microsoft Windows XP Professional
	<b>Display</b>	14.1-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal)
	<b>Cache Memory</b>	1024 KB L2 cache
	<b>Memory</b>	Standard 256-MB 266 MHz SDRAM DDR SDRAM (256-MB SODIMM in slot 1) Maximum 2-GB 266-MHz SDRAM DDR SDRAM (512-MB SODIMM in slots 1 and 2)
	<b>Hard Drive</b>	30-GB 4200 rpm SMART Hard Drive
	<b>Video Memory</b>	32 MB
	<b>Optical Drive</b>	8X DVD
	<b>Graphics</b>	ATI Mobility Radeon 7500 4X AGP graphics controller with 32 MB DDR VRAM
	<b>Audio</b>	Compaq Premier-Sound enhanced stereo audio system
	<b>Communications</b>	56K (V.92) modem, integrated 10/100/1000 NIC
	<b>Pointing Device</b>	Dual pointing devices (both Pointstick and Touchpad)
	<b>Battery</b>	8-cell 4.4 Ah
<b>Warranty</b>	3/3/0	

### Options

		Compaq PN	HP PN
<b>Memory</b>	512-MB (266 MHz) Memory Upgrade	314114-B25	DC890A
	256-MB (266 MHz) Memory Upgrade	269087-B25	DC390A
	128-MB (266 MHz) Memory Upgrade	269086-B25	DC389A
<b>MultiBay Hard Drives</b>	60-GB 5400 rpm SMART Hard Drive	278420-B25	DC894A
	40-GB 5400 rpm SMART Hard Drive	263472-B25	DC365A
	30-GB 4200 rpm SMART Hard Drive	212791-B25	DE882A
<b>MultiBay Storage Devices</b>	24X Combo DVD/CD-RW	269089-B25	DC364A
	24X CD-RW		DC921A
	8X DVD Drive	138230-B25	DC352A
	24X Max CD-ROM	298452-B25	DC351A
	Diskette Drive	226935-B25	DC362A
<b>Other Storage Devices</b>	IBM 1-GB Microdrive (PC card Device)	217390-B25	DC379A
	USB Diskette Drive	230330-B25	DC361A
<b>Wireless Connectivity</b>	802.11b MultiPort Wireless LAN module	283836-001	DC353A
	Bluetooth MultiPort module	228057-B21	DC375A
<b>Expansion Bases</b>	Port Replicator	307648-xx2	DC367A
	Advanced Port Replicator	307651-xx2	DC366A
	External MultiBay	217388-001/B31	DC373A
	Advanced Port Replicator Monitor Stand	274407-B25	DC377A
<b>Power</b>	8-cell primary battery (4.4Ah)	301857-B25	DD487A
<b>Common Power Solutions</b>	MultiBay Battery (8-cell 3.2Ah)	265650-B25	DC358A
	External Battery Charger	135555-xxx	DC357A
	AC Adapter 65W	265602-xxx	DC359A
	Auto Power Adapter/Charger	265649-B25	DC360A
	Aircraft Power Adapter	291370-B25	DC899A
	AC Line Cord (10 ft/3.1 m)	217932-xx2	DC851A
<b>Input Devices</b>	External Enhanced III Keyboard (carbon) USB/PS2 Keyboard	118003-009	DC852A
	Compaq 2 Button Mouse (carbon) USB/PS2 Keyboard 2-button scroll	103180-B23	DC369A
	External 10-Key Numeric Keypad (carbon)	294317-B21	DC854A

### Options

<b>Security</b>	Biometric PC Card	146805-B25	DC859A
	Security Cable Lock	294316-B21	DC368A
	Compaq Smart Card PC Card Reader	135646-B25	DC350A

<b>Carrying Cases</b>	Compaq Ultralight Case (nylon)	167336-B21	DC853A
	Compaq Ultralight Case (leather)	242359-B25	DC873A
	Compaq Plus Case	242360-B25	DC345A
	Compaq Professional Case (nylon)	242361-B25	DC874A
	Compaq Professional Case (leather)	242362-B25	DC875A

<b>Monitors</b>	Compaq S9500 CRT Monitor (19-inch, Carbon/Silver)	261615-XXX
	Compaq S7500 CRT Monitor (17-inch, Carbon/Silver)	261606-XXX
	Compaq S5500 CRT Monitor (15-inch Carbon/Silver)	261602-XXX
	Compaq TFT1501 Flat Panel Monitor (15-inch, Carbon/Silver, North America)	301042-003
	Compaq TFT1501 Flat Panel Monitor (15-inch, Carbon/Silver, Outside North America)	P4825D-XXX
	Compaq TFT1701 Flat Panel Monitor (17-inch, Carbon/Silver, North America)	292847-003
	Compaq TFT1701 Flat Panel Monitor (17-inch, Carbon/Silver, Outside North America)	P9019A-XXX
	Compaq V7550 CRT Color Monitor (17-inch, Carbon/Silver)	261611-XXX
	Compaq TFT1720 Flat Panel Monitor (17-inch, Carbon/Silver, North America)	295926-003
	Compaq TFT1720 Flat Panel Monitor (17-inch, Carbon/Silver, outside North America)	D5064D-XXX
	Compaq FT1720M Flat Panel Monitor (17-inch, (Carbon/Silver, includes speaker, USB port, headphone, North America)	301958-003
	Compaq TFT1720M Flat Panel Monitor (17-inch, Carbon/Silver, includes speaker, USB port, headphone, outside North America)	D5064P-XXX
	Compaq TFT1520 Flat Panel Monitor (15-inch, Carbon/Silver, North America)	295925-003
	Compaq TFT1520 Flat Panel Monitor (15-inch, Carbon/Silver, outside North America)	D5063D-XXX
	Compaq TFT1520M Flat Panel Monitor (15-inch, Carbon/Silver includes speaker, USB port, headphone, North America)	301957-003
	Compaq TFT1520M Flat Panel Monitor (15-inch, Carbon/Silver includes speaker, USB port, headphone, outside North America)	D5063P-XXX
	HP P930 CRT Monitor (19-inch, Flat-screen, Carbon/Silver, North America)	302268-003
	HP P930 CRT Monitor (19-inch, Flat-screen, Carbon/Silver, Outside North America)	P909W-XXX
	HP P1130 CRT Monitor (21-inch, Flat-screen, Carbon/Silver, North America)	302270-003
	HP P1130 CRT Monitor (21-inch, Flat-screen, Carbon/Silver, Outside North America)	P4819-XXX

### Options

HP L1825 Flat Panel Monitor (18-inch, Carbon/Silver, North America)	303486-003
HP L1825 Flat Panel Monitor (18-inch, Carbon/Silver, Outside North America)	P9021W-XXX
HP L2025 Flat Panel Monitor (20-inch, Carbon/Silver, North America)	303102-003
HP L2025 Flat Panel Monitor (20-inch, Carbon/Silver, Outside North America)	P4831W-XXX
Compaq TFT1825 Flat Panel Monitor (18-inch, Carbon/Silver, North America)	296751-003
Compaq TFT1825 Flat Panel Monitor (18-inch, Carbon/Silver, Outside North America)	P9021A-XXX
Compaq TFT2025 Flat Panel Monitor (20-inch, Carbon/Silver, North America)	285550-003
Compaq TFT2025 Flat Panel Monitor (20-inch, Carbon/Silver, Outside North America)	P4831D-XXX



### Memory

#### Compaq Evo N620C

#### Standard Memory Plus Optional Memory

Support for up to 2048 MB of DDR SDRAM memory is available with the installation of optional DDR SDRAM Memory Kits.

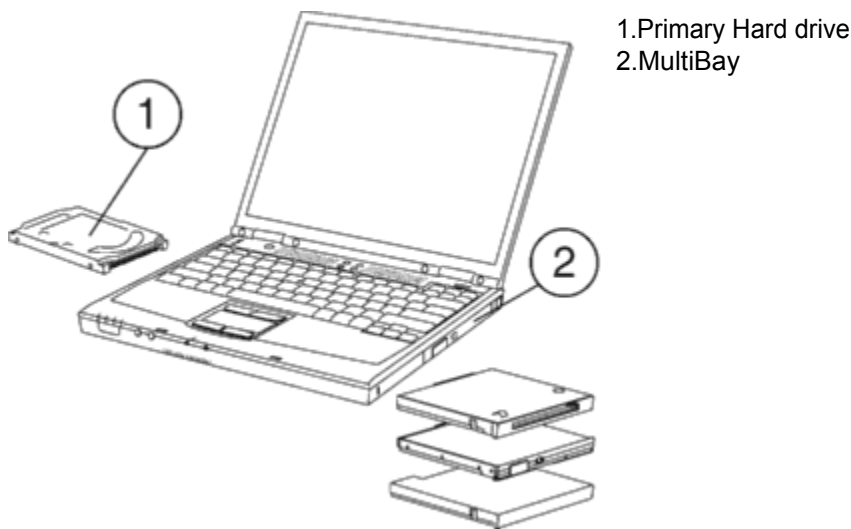
Memory	Slot 1	Slot 2
256 MB	256 MB	-
512 MB	256 MB	256 MB
512 MB	512 MB	-
768 MB	512 MB	256 MB
1024 MB	512 MB	512 MB
1024 MB	1024 MB	-
1536 MB	1024 MB	512 MB
2048 MB	1024 MB	1024 MB

**NOTE:** This chart does not represent all possible memory configurations. 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.

Following are memory options available from Compaq:

- 1024-MB 266 MHz Memory Upgrade 314114-B25
- 512-MB 266 MHz Memory Upgrade 269087-B25
- 256-MB 266 MHz Memory Upgrade 269086-B25

## Storage



## Drive Support

System Drive Support	Quantity Supported	Drive Supported
1.44-MB Diskette Drive	1	MultiBay or parallel port cable
DVD/CD-RW Combo Drive	1	MultiBay
CD-RW Drive	1	MultiBay
DVD-ROM Drive	1	MultiBay
Max CD-ROM Drive	1	MultiBay

**NOTE:** MultiBay support includes the integrated MultiBay, the External MultiBay, and the Advanced Port Replicator MultiBay unless otherwise noted.

### Hard Drives

60-GB SMART Hard Drive	2	Dedicated hard drive bay and/or MultiBay
40-GB SMART Hard Drive	2	Dedicated hard drive bay and/or MultiBay
30-GB SMART Hard Drive	2	Dedicated hard drive bay and/or MultiBay

### TechSpecs

<b>System Unit</b>	<b>Dimensions (HxWxD)</b>	14.1-inch TFT panel display	1.2 x 12.1 x 9.8 in (3.1 x 30.7 x 25.0 cm)
	<b>Weight</b>	14.1-inch LCD, 1 SODIMM	4.8 lb (2.1 kg) minimum (with weight saver) 5.5 lb (2.45 kg) typical (with MultiBay drive)
		14.1-inch LCD, CD-RW, DVD or CD-ROM, 1 SODIMM	5.5 lb (2.5 kg) *
<b>NOTE:</b> * Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components.			
<b>Stand-Alone Power Requirements</b>	Nominal Operating Voltage (Li-Ion)		14.4 V (8-cell)
	Average Operating Power		10.5W
	Peak Operating Power		50W
	Power in suspend mode		< 400 mW
	Power in hibernation mode		< 50 mW
	<b>Power Supply</b>	Rated Input Voltage	
	Rated Input Current		1.6 A
	Rated Frequency		47 to 63 Hz
<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</b>	Operating		10% to 90% relative humidity, non-condensing
	Non-operating		5% to 95% relative humidity, 101.6° F (38.7° C) Maximum wetbulb 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, 0.25 oct/min sweep rate
	Non-operating		1.0 G, zero-to-peak, 10 to 500 Hz, 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>Heat output</b>	Operating (max)		65 W
<b>Industry Standards &amp; Certifications</b>	Blue Angel		No
	UL		Yes
	CSA		Yes
	VDE/TUV		Yes
	Nordic Safety		Yes
	Mexican Safety		Yes
	Poland Compliance		Yes

### TechSpecs

<b>14.1-inch Color TFT SXGA+ Display</b>	<b>Dimensions (H x W)</b>	11.22 x 8.46 in (28.5 x 21.5 cm)	
	<b>Diagonal Size</b>	14.1 in (35.7 cm)	
	<b>Mounting</b>	Internal Panel Supports, Side Mounted	
	<b>Number of Colors</b>	Up to 16.8 M	
	<b>Contrast Ratio</b>	150:1	
	<b>Brightness</b>	150 nits typical	
	<b>Pixel Resolution</b>	Pitch	0.204 x 0.204 mm
		Format	1400 x 1050
		Configuration	RGB stripe
	<b>Backlight</b>	Edge Lit	
	<b>Character Display</b>	80 x 25	
	<b>Total Power Consumption</b>	5.1 W	
	<b>Viewing Angle</b>	+15° /-30° Vertical, ± 40° Horizontal	

<b>14.1-inch Color TFT XGA Display</b>	<b>Dimensions (H x W)</b>	11.22 x 8.46 in (28.5 x 21.5 cm)	
	<b>Diagonal Size</b>	14.1 in (35.81 cm)	
	<b>Mounting</b>	Internal Panel Supports, Side Mounted	
	<b>Number of Colors</b>	Up to 16.8 M	
	<b>Contrast Ratio</b>	150:1	
	<b>Brightness</b>	150 nits typical	
	<b>Pixel Resolution</b>	Pitch	0.264 x 0.264 mm
		Format	1024 x 768
		Configuration	RGB stripe
	<b>Backlight</b>	Edge Lit	
	<b>Character Display</b>	80 x 25	
	<b>Total Power Consumption</b>	4.2 W	
	<b>Viewing Angle</b>	+/-35° degrees Horizontal, +15° /-35° Vertical (typical)	

### Hard Drives

### TechSpecs

<b>60-GB 5400 rpm</b>	<b>MultiBay Drive Adapter</b>	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	0.15 lb (70 g)
	<b>Drive Weight</b>		0.21 lb (95 g)
	<b>Capacity</b>		60 GB
	<b>Height</b>		0.74 in (9.5 mm)
	<b>Width</b>		2.75 in (70 mm)
	<b>Interface</b>		ATA-5
	<b>Transfer Rate</b>	Synchronous (maximum)	100 MB/s (Drive Capability)
		Security	ATA Security
	<b>Seek Time</b>	Single Track	3.0 ms
	(typical reads, including settling)	Average	13 ms
		Maximum	25 ms
	<b>Rotational Speed</b>		5400 rpm
	<b>Logical Blocks</b>		78,140,160
	<b>Operating Temperature</b>	41° to 131° F (5° to 55° C)	
<b>Features</b>	Security	ATA Security	

<b>40-GB 5400 rpm</b>	<b>MultiBay Drive Adapter</b>	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	0.15 lb (70 g)
	<b>Drive Weight</b>		0.21 lb (95 g)
	<b>Capacity</b>		40 GB
	<b>Height</b>		0.74 in (9.5 mm)
	<b>Width</b>		2.75 in (70 mm)
	<b>Interface</b>		ATA-5
	<b>Transfer Rate</b>	Synchronous (maximum)	100 MB/s (Drive Capability)
		Security	ATA Security
	<b>Seek Time</b>	Single Track	3.0 ms
	(typical reads, including settling)	Average	13 ms
		Maximum	25 ms
	<b>Rotational Speed</b>		5400 rpm
	<b>Logical Blocks</b>		78,140,160
	<b>Operating Temperature</b>	41° to 131° F (5° to 55° C)	
<b>Features</b>	Security	ATA Security	

### TechSpecs

<b>30-GB 4200 rpm</b>	<b>MultiBay Drive Adapter</b>	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	0.15 lb (70 g)
	<b>Drive Weight</b>		0.22 lb (99 g)
	<b>Capacity</b>		30 GB
	<b>Height</b>		0.74 in (9.5 mm)
	<b>Width</b>		2.75 in (70 mm)
	<b>Interface</b>		ATA-5
	<b>Transfer Rate</b>	Synchronous (maximum)	100 MB/s (Drive Capability)
		Security	ATA Security
	<b>Seek Time</b>	Single Track	2.5 ms
	(typical reads, including settling)	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)	
<b>Features</b>	Security	ATA Security	

<b>Diskette Drive</b>	<b>MultiBay Drive</b>	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	0.51 lb (230 g)
	<b>Diskette Size</b>		3.5 in
	<b>Activity Indicator</b>		On system
	<b>Height</b>		12.7 mm
	<b>Bytes per Sector</b>		512
	<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

<b>External AC Adapter</b>	<b>Weight</b>	0.65 lb (0.29 kg) (adapter) 0.29 lb (0.13 kg) (power cord)	
	<b>Power Supply (Input)</b>	Operating Voltage	90 to 264 VAC RMS
		Operating Current	1.6 A RMS
		Operating Frequency Range	47 to 63 Hz AC
		Maximum Transient	4/50 kV

### TechSpecs

<b>Primary Lithium-Ion Battery Pack (8-cell)</b> Internal	<b>Dimensions (L x W x D)</b>	4.95 x 3.46 x 0.80 in (12.58 x 8.8 x 2 cm)		
	<b>Weight</b>	0.88 lb (0.40 kg)		
	<b>Energy</b>	Voltage	14.4 V	
		Amp-hour capacity	4.6 Ah	
		Watt-hour capacity	63.36 Ah	
	<b>Temperature</b>	Operating	32° to 108° F (0° to 42° C)	
		Non-operating	32° to 140° F (0° to 60° C)	
	<b>Battery Re-Charge Time</b>	System in OFF mode or Standby	2 hours	
		System ON (typical, depending of system power consumption)	2 to 5 hours	
	<b>Lifecycle</b>	80% capacity after 300 full charge/discharge cycles, or 600 half discharge followed by a full charge cycles.		

<b>MultiBay Lithium-Ion Battery Pack (8-cell)</b>	<b>Dimensions (L x W x D)</b>	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)		
	<b>Weight</b>	1.03 lb (0.47 kg)		
	<b>Energy</b>	Voltage	14.4 V	
		Amp-hour capacity	3.2 Ah	
		Watt-hour capacity	47.4 Ah	
	<b>Temperature</b>	Operating	32° to 122° F (0° to 50° C)	
		Non-operating	32° to 140° F (0° to 60° C)	
	<b>Battery Re-Charge Time</b>	System in OFF mode or Standby	2 hours	
		System ON (typical, depending of system power consumption)	2 to 5 hours	
	<b>Lifecycle</b>	80% capacity after 300 full charge/discharge cycles, or 600 half discharge followed by a full charge cycles.		

<b>24X DVD/CD-RW Combo Drive</b>	<b>MultiBay Drive</b>	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)	
	<b>Center Hole Diameter</b>	39 cm		
	<b>Disk Diameter</b>	12 cm/8 cm		
	<b>Disk Thickness</b>	1.2 mm		
	<b>Track Pitch</b>	0.74 µm		
	<b>Access Times</b> (typical reads, including settling)	Random	< 150 ms	
		Full-Stroke	< 225 ms	
	<b>Audio Output Level</b>	Line-out	0.7 Vrms	
	<b>Cache Buffer</b>	128 KB/s (minimum)		
	<b>Data Transfer Rate</b> (typical, including settling)	CD-R (24X)	3600 KB/s (150 KB/s at 1X CD rate)	
		CD-RW (10X)	1500 KB/s (150 KB/s at 1X CD rate)	
		CD-ROM (24X)	3600 KB/s (150 KB/s at 1X CD rate)	
		DVD (8X)	10,800 KB/s (1352 KB/s at 1X DVD rate)	
Normal PIO Mode 4 (single burst)		16.6 MB/s		
<b>Start-up Time</b>	< 15 seconds			



### TechSpecs

**Stop Time** < 6 seconds

<b>24X CD-RW Drive</b>	<b>MultiBay Drive</b>	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)
	<b>Center Hole Diameter</b>	1.5 cm	
	<b>Disk Diameter</b>	12 cm/8 cm	
	<b>Disk Thickness</b>	1.2 mm	
	<b>Track Pitch</b>	0.74 µm	
	<b>Access Times</b> (typical reads, including settling)	Random	< 150 ms
		Full-Stroke	< 225 ms
	<b>Audio Output Level</b>	Line-out	0.7 Vrms
	<b>Cache Buffer</b>	128 KB	
	<b>Data Transfer Rate</b> (typical, including settling)	CD-R (24X)	3600 KB/s
		CD-RW (8X)	1200 KB/s
		CD-ROM (24X)	3600 KB/s
		Normal PIO Mode 4 (single burst)	16.6 MB/s
<b>Start-up Time</b>	< 15 seconds		
<b>Stop Time</b>	< 6 seconds		

<b>8X DVD-ROM Drive</b>	<b>MultiBay Drive</b>	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	0.66 lb (0.3 kg)
	<b>Center Hole Diameter</b>	1.5 cm	
	<b>Disk Diameter</b>	12 cm/8 cm	
	<b>Disk Thickness</b>	1.2 mm	
	<b>Track Pitch</b>	0.74 µm	
	<b>Access Times</b> (typical reads, including settling)	Random (typical)	< 150 ms DVD Media
		Full-Stroke (typical)	< 225 ms DVD Media
		Random (typical)	< 110 ms CD Media
		Full-Stroke (typical)	< 200 ms CD Media
	<b>Cache Buffer</b>	512 KB/s (minimum)	
	<b>Data Transfer Rate</b> (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
<b>Start-up Time</b>	< 10 seconds	Single Session CD-ROM	
<b>Stop Time</b>	< 3 seconds		



### TechSpecs

<b>24X CD-ROM Drive</b>	<b>MultiBay Drive</b>	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	0.50 lb (0.22 kg)
	<b>Applicable Disk</b>	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	
	<b>Center Hole Diameter</b>	15 mm	
	<b>Disk Diameter</b>	12 cm, 8 cm	
	<b>Disk Thickness</b>	1.2 mm	
	<b>Track Pitch</b>	1.6 µm	
	<b>Access Times</b> (typical reads, including settling)	Random	< 150 ms
		Full-Stroke	< 300 ms
	<b>Audio Output Level</b>	Line-out	0.7 Vrms
	<b>Cache Buffer</b>	128 KB	
	<b>Data Transfer Rate</b> (typical, including settling)	Sustained (16X)	2400 KB/s
		Variable	1500 to 3600 KB/s (10X to 24X)
		Normal PIO Mode 4 (single burst)	16.66 MB/s
	<b>Start-up Time</b>	< 8 seconds	
	<b>Stop Time</b>	< 4 seconds	

<b>MultiBay Diskette Drive</b>	<b>MultiBay Drive</b>	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	0.51 lb (230 g)
	<b>Diskette Size</b>	3.5 in	
	<b>Height</b>	12.7 mm	
	<b>Bytes per Sector</b>	512	
	<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

## TechSpecs

Audio	Features	SoundMAX
	<b>Wavetable Synthesis</b>	
	# of Voices	Up to 1024 (CPU dependent)
	# of MIDI Channels	16
	Max. Sound Set Size	Unlimited (host RAM dependent)
	Sound Set Formats	DLS (Level 1), XGLite
	Bundled GeneralMIDI Sound Set(s)	1.2 MB XGLite
	Built-In Effects	Reverb and Chorus
	Sound Blaster PRO Emulation	Yes
	<b>3D Positioning / Environments</b>	
	Formats Supported	I3DL2 / DS3D 7 / EAX 2 / A3D 1
	Environmental Acoustics	EnvironmentFX (EAX compatible)
	Additional 3D APIs	MacroFX / ZoomFX
	Standard HRTFs	2 Channel
	<b>Hardware</b>	
	Implimentation	AC97 CODEC
	Audio Signal Link to CPU	Audio CODEC (AC) link
	Full Duplex	Yes
	Stereo Inputs	Line In - 20K Impedance
	Mono Inputs	Microphone - 20K Impedance
	Stereo Outputs	Analog, S/PDIF from Port Rep
	<b>Audio Output Quality</b>	
	Frequency Response	20 Hz - 20 kHz
	Signal to Noise Ratio	>94dB
	Total Harmonic Distortion	0.01%
	Noise Floor	-120dB
	Play/Record Sampling Rate(s)	7 kHz - 48 kHz
	AD/DA Resolution	16 bit
	<b>Speakers</b>	
	Amplifier Power	2-Watts RMS
	Speaker Impedance	4-Ohms

<b>802.11b MultiPort Module</b>	<b>Form Factor</b>	Compaq "MultiPort"	
	<b>Weight</b>	0.22 lb (100 g) (maximum)	
	<b>Operating Temperature</b>	14° to 149° F (-10° to 65° C), operating	
	<b>Storage Temperature</b>	-40° to 176° F (-40° to 80° C), non-operating	
	<b>Humidity</b>	Operating	10% to 90%
		Non-operating	5% to 95%
	<b>Altitude</b>	Operating	15,000 ft (4,572 m)
		Non-operating	40,000 ft (12,192 m)
	<b>Plug and Play</b>	USB 1.1 compliant	
		Microsoft Windows Plug and Play compliant	

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<b>RF Network Standard</b>	IEEE 802 Part 11b (802.11b)
<b>Frequency Band</b>	2.4000 to 2.4835 GHz 2.4465 to 2.4835 GHz (France) 2.4000 to 2.4697 GHz (Japan)
<b>Number of Selectable Sub-channels</b>	<b>Worldwide Certification</b> United States (FCC) 11 France (FR) 4 Japan (JP) 14 Other countries 13
<b>Data Rates</b>	1, 2, 5.5, 11 Mbps
<b>Antenna type</b>	Internally integrated within module (with special polarization diversity)
<b>WEP Security</b>	64-bit encryption keys compliant to IEEE 802.11 128-bit encryption key compliant to IEEE 802.11 Ability to enter keys manually or via pass-phrase
<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Points Required)
<b>Modulation Technique</b>	Direct Sequence Spread Spectrum: DBPSK, DQPSK, CCK
<b>Receiver Sensitivity – Bit Error Rate (1E-5)</b>	11 Mbps: -85 dBm 5.5 Mbps: -87 dBm 2 Mbps: -91 dBm 1 Mbps: -94 dBm
<b>Maximum Receive Level</b>	-4 dBm
<b>Output Power (approximately)</b>	18 dBm
<b>Operating Voltage</b>	5V power operation
<b>Power Management</b>	Keystroke Fn+F2 Power On/Off control
<b>Power Consumption</b>	Transfer mode: < 600 mA, maximum Receive mode: > 400 mA, maximum Standby mode: > 1 mA, maximum
<b>Transmit Power</b>	10 to 100mW It is preferable to have the user configurable output power to save battery life for laptop users or in high AP coverage areas
<b>Power Saving Option</b>	802.11 Compliant Power Saving Power Saving Mode selectable through the configuration utility ACPI compliant power management
<b>Media Access Protocol</b>	CSMA/CA (Collision Avoidance) with ACK
<b>OS Support</b>	Microsoft Windows XP Professional and Home Editions Microsoft Windows 98/98SE Microsoft Windows 2000 Microsoft Windows Millennium
<b>Protocols Supported</b>	TCP/IP IPX/SPX UDP
<b>LED Activity</b>	Flashing LED – AP Search Mode Solid LED – On LED Off – Power Off

### TechSpecs

Throughput, Data Rate and Operating Distance	Throughput	Data Rate	Operating Distance
	> 4.5 Mbps	11 Mbps	<ul style="list-style-type: none"> <li>● 1000 feet – Open sight</li> <li>● 100 feet – Closed space (Steel Space)</li> </ul>
	> 2 Mbps	5.5 Mbps	<ul style="list-style-type: none"> <li>● 1100 feet – Open sight</li> <li>● 200 feet – Closed space (Steel Space)</li> </ul>
	> 700 Kbps	1 Mbps	<ul style="list-style-type: none"> <li>● 1200 feet – Open sight</li> <li>● 300 feet – Closed space (Steel Space)</li> </ul>

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<b>Bluetooth MultiPort Module</b>	<b>Form Factor</b>	Compaq "MultiPort"		
	<b>Bluetooth</b>	1.1 Compliant		
	<b>Dimensions</b>	2.2 x 6.6 x 0.55 in (5.6 x 16.7 x 1.4 cm)		
	<b>Weight</b>	0.22 lb (100 g) (maximum)		
	<b>Temperature</b>	Operating	-50° to 104° F (10° to 40° C)	
		Non-operating	-4° to 140° F (-20° to 60° C)	
	<b>Humidity</b>	Operating	10 to 90%	
		Non-operating	5 to 95%	
	<b>Altitude</b>	Operating	0 to 10,000 ft (3,048 m)	
		Non-operating	0 to 30,000 ft (9,144 m)	
	<b>Plug and Play</b>	USB 1.1 compliant		
		Microsoft Windows Plug and Play compliant		
	<b>Frequency Band</b>	2.4000 to 2.4835 GHz		
	<b>Number of Available Channels</b>	79 (1 MHz) available channels		
	<b>Data Rates and throughput</b>	1 Mbps		
Synchronous Connection Oriented links up to 3, 64 kbps, voice channels				
Asynchronous Connection Less links 723.2 kbps/57.6 kbps asymmetric or 433.9 kbps symmetric				
<b>Antenna type</b>	Internally integrated within module (with special polarization diversity)			
<b>Range</b>	328 ft (100 m)			
<b>Profile Support</b>	General Access Profile			
	Service Discovery Application Profile			
	Serial Port Profile			
	Generic Object Exchange Profile			
	File Transfer Profile			
	Synchronization Profile			
	Dial-Up Networking Profile			
	LAN Access Profile			
	Object Push Profile			
	<b>Usage Models</b>	Service Discovery (determine what Bluetooth devices are within range and support authorization)		
<b>Synchronization</b>				
PDAs to PCs Portable to Desktop				
<b>File Transfer</b>	File and directory browsing and navigation on another Bluetooth device			
	File copying			
	Object manipulation – including add, delete, create new folders etc.			
	Wireless link to Corporate LAN using several Bluetooth devices sharing			

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	the same Access Point: Corporate email, network neighborhood, access to LAN applications, file transfer, ftp, Internet browsing, etc, using TCP/IP Wireless link to WAN through cell phone GSM/SMS, PCS, PHS, DECT, RAM, ARDIS, CDPD, etc. Agnostic to WAN technology Send/receive SMS messages Wireless link to Printer Adhoc peer to peer networking (two computers) or Personal Area Networking (PAN) using NDIS (< 7 computers) Adhoc Bluetooth Pico-networking (point to multi-point) Object Push – Business card or appointment exchange
<b>Transmit Power</b>	< 20 dBm (Bluetooth Class 1)
<b>Receive Sensitivity</b>	Better than –70 dBm at 0.1 % raw bit error rate
<b>Link Topology</b>	Point to Point, Multipoint Pico Nets up to 7 slaves
<b>Security</b>	Full support of Bluetooth Security Provisions
<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Points Required)
<b>Power Requirement</b>	Peak < 1500 mW Average < 500 mW Standby < 250 mW
<b>Power Management</b>	Windows ACPI, and USB Bus Support Keystrokes Fn+F2 Power On/Off control Self configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff
<b>OS Support</b>	Microsoft Windows XP Professional and Home Editions Microsoft Windows 98/98SE Microsoft Windows 2000 Microsoft Windows Millennium
<b>Protocols Supported</b>	TCP/IP IPX/SPX UDP
<b>LED Activity</b>	Solid Blue LED – On LED Off – Power Off
<b>Certifications</b>	All necessary regulatory approvals for countries we support including FCC (47 CFR) Part 15C, Section 15.247 & 15.249 ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark

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<b>56K (V.92) Modem</b>	<b>Form Factor</b>	Mini-PCI Type III per Specification
	<b>OS Support</b> (with all released Service Packs)	Microsoft Windows XP Professional and Home Editions, Microsoft Windows 98 (Gold, SE), Windows NT 4.0, Windows 2000, Windows Millennium Edition, DOS Application Support under Windows
	<b>Power Management Support</b>	APM Revision 1.2, ACPI
	<b>Approvals/Certifications</b>	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
	<b>Data Mode Capabilities</b>	V.90, V.92 (a-law, mu-law) V.8bis V.80 V.44, V42.bis, MNP5 (Compression) V.42 (LAPM, MNP2-4) (Error Correction) V.34 (file date: 10/96) <b>Optional symbol rates:</b> 2800, 3429 Asymmetric Symbol rates <b>Synchronous primary channel data signaling rates:</b> 3600, 31200 Automatic rate re-negotiation V.32bis V.32 V.23 V.22bis V.22 V.21 Bell 212A Bell 103J
	<b>Fax Mode Capabilities</b>	TIA/EIA-578-B (Class 1) T.30, T.4 (Group 3) V.17 V.29 V.27ter V.21 Channel 2
	<b>Command Set</b>	V.250 (Partial) TIA-602 Identification: +GMI, +GMM, +GMR Port control: +IPR, +ICF, +IFC, +ILRR Modulation: +MS, +MR, +MA Error control: +ES, +ER, +EB, +ESR, +ETBM Data compression: +DS, +DR V.251

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<b>Integrated 10/100/1000 NIC</b>	<b>NIC Device Driver Name</b>	Broadcom NetXtreme Gigabit Ethernet
	<b>Ethernet Features</b>	10 Mbit/s operation (10BASE-T; IEEE 802.3j; IEEE 802.3 clauses 13-14) 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30) 1000 Mbit/s operation (1000BASE-T; IEEE 802.3z and 802.3ab; IEEE 802.3 clauses 34-42) Auto-Negotiation (Automatic Speed Selection) Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s IEEE 802.1p QoS (Quality of Service) Support IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)
	<b>Performance Features</b>	TCP / IP / UDP Checksum Offload (configurable) Microsoft Large Send Offload (configurable) TCP Segmentation Offload CPU Task Offload Adaptive Interrupts
	<b>Power Management</b>	ACPI 1.1a compliant -- multiple power modes Situation-sensitive features reduce power consumption NIC Battery Saving Mode (enabled by default)
	<b>Manageability</b>	Wake-on-LAN from all Power-Managed States (configurable; Magic Packet and Microsoft Wake-Up Frame) PXE 2.0 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite Cable Analyzer
	<b>Drivers Available</b>	Windows XP Windows 2000 Windows NT 4.0 Windows 98 Linux kernel versions 2.2 and 2.4

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