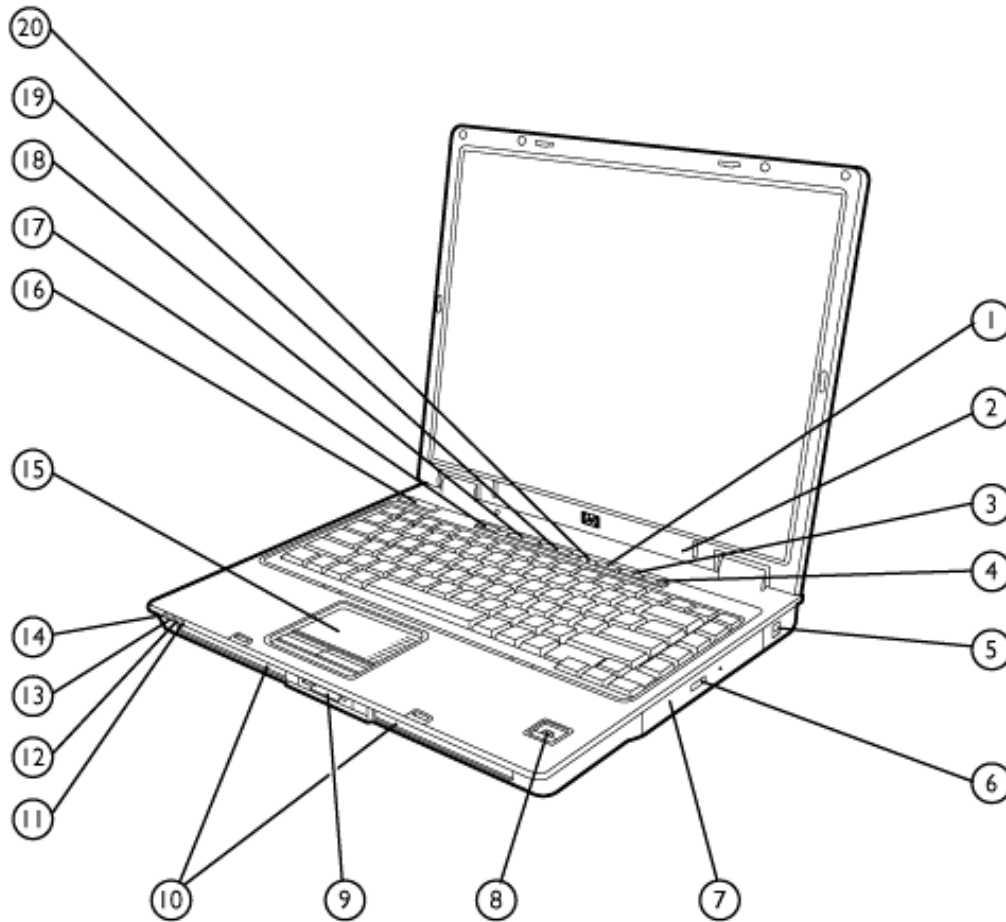
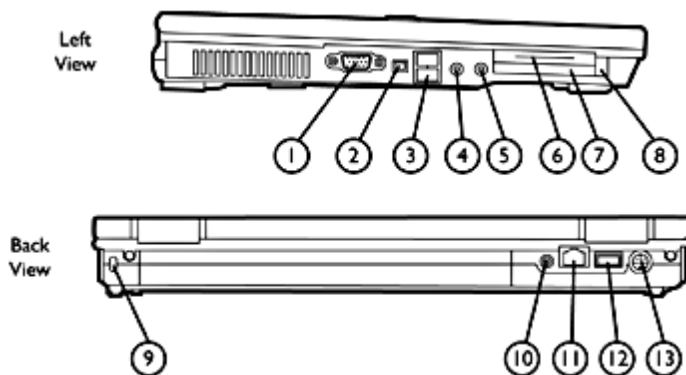


## Overview



- |                                    |                                     |
|------------------------------------|-------------------------------------|
| 1. Volume Mute Button with LED     | 11. Hard Drive Activity LED         |
| 2. Internal Microphone             | 12. Battery Charging LED            |
| 3. Volume Down Button              | 13. Power/Standby LED               |
| 4. Volume Up Button                | 14. Wireless On/Off LED             |
| 5. RJ-11 Port (Modem)              | 15. Touchpad with Scroll Zone       |
| 6. Optical Drive Button            | 16. Power/Standby Button with LED   |
| 7. Optical Drive                   | 17. HP Info Center Button           |
| 8. HP Biometric Fingerprint Sensor | 18. Wireless On/Off Button with LED |
| 9. 6-in-1 Media Reader with LED    | 19. Presentation Mode Button        |
| 10. Stereo Speakers                | 20. Caps Lock LED and Num Lock LED  |

## Overview



1. VGA/External Monitor Port
2. IEEE 1394 Port
3. 2 USB 2.0 Ports
4. Microphone Jack
5. Headphone Jack
6. ExpressCard/54 Slot
7. PC Card Slot or Integrated Smart Card Reader
8. PC Card Eject Button
9. Kensington Lock Slot
10. DC Power Connector
11. RJ-45 Port (NIC) with 2 LEDs
12. USB 2.0 Port
13. S-Video TV Out

## At A Glance

- Microsoft Windows XP Professional, Microsoft Windows XP Home Edition, or FreeDOS
- AMD Turion™ 64 Mobile Technology
- Sleek industrial design starting at 5.99 lb/2.72 kg and 1.22-inch/31.0 mm thin at front
- ATI RADEON XPRESS 200M Chipset
- 512-MB DDR SDRAM, upgradeable to 2048-MB maximum
- Up to 80-GB 5400 rpm hard drive
- Choice of optical drive: DVD-ROM, DVD/CD-RW Combo, or DVD+/-RW with Double Layer Technology (and optional LightScribe)
- Integrated ATI MOBILITY RADEON X300 with up to 128-MB allocated system memory
- Optional Integrated 802.11a/b/g or 802.11b/g wireless LAN module
- Integrated Bluetooth® on select models
- 6-in-1 Media Reader
- NetXtreme Gigabit Ethernet Controller
- Touchpad with scroll zone
- Protected by three-year standard parts and labor warranty - certain restrictions and exclusions apply

## Overview

### What's Special

- Security features:
  - HP ProtectTools
  - Integrated HP Biometric Fingerprint Sensor
  - HP Drivelock
  - Smart Card Reader (optional)
  - Kensington lock slot
- Ease of use features
  - HP Mobile Print Driver for on-the-go printing
  - HP Wireless Assistant
  - HP Info Center
  - HP Fast Charge technology
- Integrated reliability features:
  - HP Panel Protection System
  - Scratch-resistant keyboard using In-mold Lamination
  - HP spill-resistant keyboard with Mylar film
- Support for new HP docking solutions and HP Travel Battery.

### Standard Features

<b>Processors*</b>	AMD Turion 64 Mobile Technology ML-42 (2.4-GHz, 1-MB L2 cache) AMD Turion 64 Mobile Technology ML-40 (2.2-GHz, 1-MB L2 cache) AMD Turion 64 Mobile Technology ML-37 (2.0-GHz, 1-MB L2 cache) AMD Turion 64 Mobile Technology ML-34 (1.8-GHz, 1-MB L2 cache) AMD Turion 64 Mobile Technology ML-30 (1.6-GHz, 1-MB L2 cache) <b>*NOTE:</b> Speeds listed for AMD Turion™ 64 Mobile Technology processors are maximum performance levels on AC power. The processor speed is reduced up to approximately 80% on battery power to optimize battery life. Please go to <a href="http://www.hp.com">www.hp.com</a> for more details on battery life conservation.	
<b>Operating System</b>	Microsoft Windows XP Professional SP2 Microsoft Windows XP Home Edition SP2 (select countries only) FreeDOS <b>NOTE:</b> Microsoft Windows 2000 Professional is not available pre-installed, but drivers for it are downloadable from <a href="http://www.hp.com">http://www.hp.com</a> .	
<b>Chipset</b>	ATI RADEON XPRESS 200M Chipset	
<b>Graphics</b>	Integrated ATI MOBILITY RADEON X300 with up to 128-MB allocated system memory	
<b>Display</b>	<b>Internal</b>	15.0-inch TFT SXGA+ wide viewing angle (1400 x 1050 resolution and 16 M colors) 15.0-inch TFT XGA (1024 x 768 resolution and 16 M colors)
	<b>External</b>	Up to 32-bit per pixel color depth Supports 640 x 480, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 1024, or 1600 x 1200 resolutions up to 100-Hz refresh rate, dependent upon monitor capability, and resolution and color depth settings
<b>Memory</b>	<b>Standard</b>	512-MB or 1024-MB 333-MHz DDR SDRAM; two SODIMM slots
	<b>Maximum</b>	Upgradeable to 2048-MB maximum (1024-MB SODIMM in slots 1 and 2) <b>NOTE:</b> Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.
<b>Communications</b>	NetXtreme Gigabit Ethernet Controller (10/100/1000 NIC)* 56K modem** with digital line guard <b>* The term "10/100/1000" or "Gigabit" Ethernet indicates compliance with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.</b> <b>** Designed for downloads from 56K modem compliant sources. Maximum achievable download transmission rates currently do not reach 56 KB/s, and will vary with line conditions. Modem availability is subject to country regulatory approval.</b>	

### Standard Features

**Wireless Devices** Support for a broad range of secure, integrated wireless LAN options. Integrated Bluetooth is also an option (factory configurable only) and can be combined with any one of the supported wireless LAN options.

<b>All integrated wireless LAN options</b>	Wi-Fi certified Cisco Compatible Extensions support Wired Equivalent Privacy (WEP) support up to 128-bit keys Wi-Fi Protected Access (WPA) support 802.1x authentication support, including EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, and LEAP Dual antennas integrated in the display enclosure
<b>Broadcom 802.11 b/g WLAN</b>	Integrated support for 802.11 b and g Up to 54-mbps data rate Advanced Encryption Standard (AES) support
<b>Broadcom 802.11 a/b/g WLAN</b>	Integrated support for 802.11 a, b and g Up to 54-mbps data rate Advanced Encryption Standard (AES) support
<b>Integrated Bluetooth</b>	Bluetooth Specification v1.2 compliant Works with a wide range of Bluetooth devices

**Keyboard** The 101/102-key compatible keyboard features an industry standard, full-pitch key layout with desktop keyboard features, such as the isolated inverted-T cursor control keys, editing keys, both left and right control and alt keys, and 12 function keys. US and International key layouts are available. Other features include an integrated numeric keypad, hotkeys for instant access to power conservation, brightness, and other features, 19-mm x 19-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.

**One-Touch Productivity Buttons** Provide one-touch access to the following features: HP Info Center, Wireless On/Off, Presentation Mode, Volume Up, Volume Down, and Volume Mute

**Pointing Device** Touchpad with scroll zone

**Expansion Card Slots**

<b>One Type I/II PC Card Slot</b>	Supports 32-bit CardBus and 16-bit PC Cards
or	
<b>Optional Integrated Smart Card Reader</b>	Compatible with ISO 7816 compliant Smart Cards PC/SC interface support
<b>One ExpressCard/54 slot</b>	Supports 34mm and 54mm ExpressCards

**Media Slots**

<b>6-in-1 Media Reader</b>	Supports SD (Secure Digital), MMC (MultiMediaCard), Memory Stick, Memory Stick Pro, Smart Media, xD-Picture card <b>CAUTION:</b> This notebook PC does not support Memory Stick Duo Cards or Memory Stick Duo Adapters. Inserting one of these cards or adapters into your notebook can damage the memory card or adapter and/or the notebook PC.
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## Standard Features

Storage	Hard Drives	40-, 60-, 80-GB 5400 rpm SMART
	<b>NOTE:</b> These hard drives are customer removable and will withstand multiple insertion/removal cycles.	
	Optical Drives	Integrated (12.7-mm) DVD-ROM DVD/CD-RW Combo DVD+/-RW with Double Layer Technology LightScribe DVD+/-RW with Double Layer Technology
		Requires Optional HP External MultiBay II (9.5-mm) or HP Advanced Docking Station
	Second Hard Drive	Requires Optional HP External MultiBay II (9.5-mm) or HP Advanced Docking Station 80-GB 5400 rpm MultiBay II Hard Drive

Interfaces	PC Card Slot	One – Type I/II
	or	
	Optional Integrated Smart Card Reader	
	ExpressCard/54 slot	One
	External Monitor	One – VGA
	IEEE 1394 Port	One
	External Microphone	One
	Headphone/Line out	One
	Power Connector	One
	RJ-11 (Modem)	One
	RJ-45 (NIC)	One
	S-Video TV Out	One (Support for NTSC/PAL)
	USB 2.0	Three
Travel Battery Connector	One	
LED Status Indicators	Twelve	

Audio	Conexant AC '97 CODEC
	Integrated 16-bit Sound Blaster Pro compatible audio
	Integrated microphone
	Integrated stereo speakers
	External volume up, volume down, and mute buttons
	Stereo headphone/line out
	Stereo microphone in

### Standard Features

<b>Software</b>	<b>Preloaded Software for Microsoft Windows XP</b>	Adobe Acrobat Reader HP Local Recovery provided by Altiris* HP One-Touch Button Software HP Mobile Print Driver Synaptics Touchpad Driver HP Help and Support HP ProtectTools Security Manager: BIOS Configuration for HP ProtectTools Credential Manager for HP ProtectTools HP Wireless Assistant Sonic RecordNow! (for optional DVD+/-RW and DVD/CDRW drives)* Symantec Norton Antivirus with complimentary 60-day live update Intervideo WinDVD - DVD Player (for optional DVD+/-RW, DVD/CDRW and DVD drives)*
	<b>Software on CD</b>	Intervideo WinDVD Creator – DVD Authoring (for optional DVD+/-RW drives)
	<b>Additional software available from the Web</b>	HP ProtectTools Security Manager: Smart Card Security for HP ProtectTools

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

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<b>System Recovery for Microsoft Windows XP systems only</b>	Each unit is shipped with a recovery kit containing Operating System Recovery and Driver/Application Recovery discs. These discs allow users to either recover or repair the notebook operating system and select drivers without losing personal data. The Operating System disc also provides the option of reinstalling the operating system software provided with the notebook.
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<b>SMBIOS Version 2.3.4</b>	System Management BIOS, previously known as DMI BIOS, is used to store system management information.
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<b>HP Local Recovery Provided by Altiris</b>	Provides data and system file protection for HP business PCs to enable fast recovery of information that is accidentally deleted or if the system becomes corrupted. Designed for disconnected or seldom-connected users, Local Recovery protects your HP computer's data and system state by taking scheduled snapshots, which are then stored in a protected area on the local hard disk. System backup and disaster recovery is now simple and fast for all users, regardless of connectivity. For more information and to download, please refer to the HP website at <a href="http://www.hp.com/go/easydeploy">http://www.hp.com/go/easydeploy</a> .
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<b>HP ProtectTools Security Manager</b>	HP ProtectTools Security Manager is the security platform for business notebooks and desktops. The HP ProtectTools Security Manager is an extensible client security console that delivers enhanced security capabilities through add-on software modules. Modules currently available are: <ul style="list-style-type: none"><li>- Smart Card Security for HP ProtectTools</li><li>- BIOS Configuration for HP ProtectTools</li><li>- Credential Manager for HP ProtectTools</li></ul>
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## Standard Features

<b>Security</b>	<b>Standard Features</b>	<ul style="list-style-type: none"> <li>Configuration Control Hardware</li> <li>Memory Change Alert</li> <li>Ownership Tag</li> <li>Setup Password</li> <li>Power-On Password</li> <li>Integrated HP Biometric Fingerprint Sensor</li> <li>HP Drivelock</li> <li>Enabled for PC Smart Card options</li> <li>Kensington Lock Slot</li> </ul>		
	<b>Optional Features</b>	<table border="0"> <tr> <td>Smart Card Reader (replaces Type I/II PC Card slot)</td> <td>Compatible with ISO 7816 compliant Smart Cards PC/SC interface support</td> </tr> </table>	Smart Card Reader (replaces Type I/II PC Card slot)	Compatible with ISO 7816 compliant Smart Cards PC/SC interface support
Smart Card Reader (replaces Type I/II PC Card slot)	Compatible with ISO 7816 compliant Smart Cards PC/SC interface support			
For more information on HP security solutions refer to <a href="http://www.hp.com/go/security">http://www.hp.com/go/security</a> .				

<b>Power Supply</b>	<ul style="list-style-type: none"> <li>External 65-watt slim AC adapter, 6-foot (1.8-meter) power cord included.</li> <li>Total length including External AC adapter is 12 feet (3.66 meter).</li> <li>HP Fast Charge technology</li> </ul>
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<b>Battery</b>	<b>Primary Battery</b>	6-cell high capacity Lithium-Ion (52Wh) – one-year warranty
	<b>Optional Travel Battery</b>	8-cell high capacity Lithium-Ion (52Wh)

<b>Battery Life</b>	<ul style="list-style-type: none"> <li>Primary Battery Up to 3 hours 45 minutes</li> <li>Primary Battery and optional HP Travel Battery Up to 7 hours 30 minutes</li> </ul>
<p><b>NOTE:</b> Battery life will vary depending on the product configuration, product model, applications loaded on the product, power management settings of the product, and the product features used by the customer. As with all batteries, the maximum capacity of this battery will decrease with time and usage.</p>	

**System Standby Time** Up to 1 week

<b>Power Conservation</b>	<ul style="list-style-type: none"> <li>Hibernation</li> <li>Standby</li> <li>ACPI compliance</li> </ul>
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<b>Docking</b>	<ul style="list-style-type: none"> <li>HP Docking Station</li> <li>HP Advanced Docking Station</li> <li>HP Adjustable Notebook Stand</li> </ul> <p>HP's shared docking solutions provide simple and convenient port replication and cable management. Features include Gigabit NIC pass through, modem pass through, legacy parallel and serial ports, S-video TV out, USB 2.0 ports, integrated security mechanism*, integrated MultiBay II and ExpressCard** slots. These docking solutions are compatible across multiple Business Notebook platforms enabling a lower total cost of ownership.</p> <p>* HP/Kensington Cable Lock required (purchased separately) ** HP Advanced Docking Station only</p>
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## Standard Features

### Service and Support

HP Services includes a one-year or three-year (depending on country and/or model) standard parts and labor warranty, pick-up or carry-in, and toll-free 7 x 24 hardware technical phone support. On-site service and warranty upgrades are also available.

**NOTE:** Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.  
<http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp>.

## Select Models

### Select Model(s)

<b>nx6125</b> PZ221UA#ABA	<b>Processor</b>	AMD Turion 64 ML-30 (1.6-GHz, 1MB L2 cache)
	<b>Operating System</b>	Microsoft Windows XP Professional
	<b>System Memory</b>	1024-MB 333-MHz DDR SDRAM (512-MB SODIMM in slot 1 and 2)
	<b>Hard Drive</b>	60-GB 5400 rpm
	<b>Display</b>	15.0-inch TFT XGA with 1024 x 768 resolution (up to 16 M colors internal)
	<b>Graphics</b>	ATI Mobility Radeon X300
	<b>Video Memory</b>	Up to 128 MB of shared video memory
	<b>Audio</b>	Conexant AC '97 CODEC, Line out/headphone and microphone jacks
	<b>Optical Drive</b>	24X DVD/CDRW Combo
	<b>Communications</b>	56K Fax/Modem, Integrated NetXtreme Ethernet Controller (10/100/1000 NIC)
	<b>Integrated Wireless</b>	Broadcom 802.11b/g WLAN, Bluetooth
	<b>Pointing Device</b>	Touchpad with scroll zone
	<b>Battery</b>	6-cell high capacity Lithium-Ion (52Wh)
	<b>Power</b>	External 65W adapter
<b>Warranty**</b>	3/3/0	

<b>nx6125</b> PZ222UA#ABA Smart Buy	<b>Processor</b>	AMD Turion 64 ML-34 (1.8-GHz, 1MB L2 cache)
	<b>Operating System</b>	Microsoft Windows XP Professional
	<b>System Memory</b>	1024-MB 333-MHz DDR SDRAM (1024-MB SODIMM in slot 1)
	<b>Hard Drive</b>	60-GB 5400 rpm
	<b>Display</b>	15.0-inch TFT SXGA+W with 1400 x 1050 resolution (up to 16 M colors internal)
	<b>Graphics</b>	ATI Mobility Radeon X300
	<b>Video Memory</b>	Up to 128 MB of shared video memory
	<b>Audio</b>	Conexant AC '97 CODEC, Line out/headphone and microphone jacks
	<b>Optical Drive</b>	DVD+/-RW
	<b>Communications</b>	56K Fax/Modem, Integrated NetXtreme Ethernet Controller (10/100/1000 NIC)
	<b>Integrated Wireless</b>	Broadcom 802.11a/b/g WLAN, Bluetooth
	<b>Pointing Device</b>	Touchpad with scroll zone
	<b>Battery</b>	6-cell high capacity Lithium-Ion (52Wh)
	<b>Power</b>	External 65W adapter
<b>Warranty**</b>	3/3/0	

### Select Models

<b>nx6125</b> PZ092UA#ABA Smart Buy	<b>Processor</b>	AMD Turion 64 ML-37 (2.0-GHz, 1MB L2 cache)
	<b>Operating System</b>	Microsoft Windows XP Professional
	<b>System Memory</b>	1024-MB 333-MHz DDR SDRAM (1024-MB SODIMM in slot 1)
	<b>Hard Drive</b>	60-GB 5400 rpm
	<b>Display</b>	15.0-inch TFT SXGA+W with 1400 x 1050 resolution (up to 16 M colors internal)
	<b>Graphics</b>	ATI Mobility Radeon X300
	<b>Video Memory</b>	Up to 128 MB of shared video memory
	<b>Audio</b>	Conexant AC '97 CODEC, Line out/headphone and microphone jacks
	<b>Optical Drive</b>	DVD+/-RW
	<b>Communications</b>	56K Fax/Modem, Integrated NetXtreme Ethernet Controller (10/100/1000 NIC)
	<b>Integrated Wireless</b>	Broadcom 802.11a/b/g WLAN, Bluetooth
	<b>Pointing Device</b>	Touchpad with scroll zone
	<b>Battery</b>	6-cell high capacity Lithium-Ion (52Wh)
	<b>Power</b>	External 65W adapter
<b>Warranty**</b>	3/3/0	

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<b>nx6125</b> PZ118UA#ABA Smart Buy	<b>Processor</b>	AMD Turion 64 ML-37 (2.0-GHz, 1MB L2 cache)
	<b>Operating System</b>	Microsoft Windows XP Professional
	<b>System Memory</b>	512-MB 333-MHz DDR SDRAM (512-MB SODIMM in slot 1)
	<b>Hard Drive</b>	60-GB 5400 rpm
	<b>Display</b>	15.0-inch TFT XGA with 1024 x 768 resolution (up to 16 M colors internal)
	<b>Graphics</b>	ATI Mobility Radeon X300
	<b>Video Memory</b>	Up to 128 MB of shared video memory
	<b>Audio</b>	Conexant AC '97 CODEC, Line out/headphone and microphone jacks
	<b>Optical Drive</b>	DVD+/-RW
	<b>Communications</b>	56K Fax/Modem, Integrated NetXtreme Ethernet Controller (10/100/1000 NIC)
	<b>Integrated Wireless</b>	Broadcom 802.11b/g WLAN, Bluetooth
	<b>Pointing Device</b>	Touchpad with scroll zone
	<b>Battery</b>	6-cell high capacity Lithium-Ion (52Wh)
	<b>Power</b>	External 65W adapter
<b>Warranty**</b>	3/3/0	

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### Select Models

nx6125  
PZ849UA#ABA  
Smart Buy

<b>Processor</b>	AMD Turion 64 ML-30 (1.6-GHz, 512KB L2 cache)
<b>Operating System</b>	Microsoft Windows XP Professional
<b>System Memory</b>	512-MB 333-MHz DDR SDRAM (512-MB SODIMM in slot 1)
<b>Hard Drive</b>	40-GB 5400 rpm
<b>Display</b>	15.0-inch TFT XGA with 1024 x 768 resolution (up to 16 M colors internal)
<b>Graphics</b>	ATI Mobility Radeon X300
<b>Video Memory</b>	Up to 128 MB of shared video memory
<b>Audio</b>	Conexant AC '97 CODEC, Line out/headphone and microphone jacks
<b>Optical Drive</b>	24X DVD/CDRW Combo
<b>Communications</b>	56K Fax/Modem, Integrated NetXtreme Ethernet Controller (10/100/1000 NIC)
<b>Integrated Wireless</b>	Broadcom 802.11b/g WLAN, Bluetooth
<b>Pointing Device</b>	Touchpad with scroll zone
<b>Battery</b>	6-cell high capacity Lithium-Ion (52Wh)
<b>Power</b>	External 65W adapter
<b>Warranty**</b>	3/3/0

\*\* Certain restrictions and exclusions apply.

## Options

<b>Memory</b>	256-MB 333-MHz DDR SDRAM	DC389B
	512-MB 333-MHz DDR SDRAM	PA525A
	1024-MB 333-MHz DDR SDRAM	DC890B
<b>MultiBay II Storage</b> (9.5 mm) Requires Optional External Multibay II or Advanced Docking Station	8X DVD-ROM MultiBay II Drive	PA849A
	24X Combo DVD/CD-RW MultiBay II Drive	PA850A
	2X DVD+/-RW Dual Format MultiBay II Drive	PA851A
	80-GB 5400 rpm MultiBay II Hard Drive	PH357A
<b>Storage</b>	USB Diskette Drive	DC361B
	HP USB Digital Drive + 256-MB Secure Digital Card	DL702AA
	HP 40-GB Mobile USB Hard Drive	DQ549A
<b>Expansion Solutions</b>	HP Docking Station	PA286A#ABA
	HP Advanced Docking Station	PA287A#ABA
	HP External USB MultiBay II	PA509A#ABA
	HP Monitor Stand	PA507A
	HP Adjustable Notebook Stand	PA508A
	HP 4-port USB 2.0 Hub	DG954A
<b>Power</b>	65W AC Adapter	DC359A#ABA
	90W AC Adapter	DC895B#ABA
	90W Auto Adapter	DC303B
	90W Air/Auto/AC Combo Adapter	DV574A#ABA
	90W Aircraft Cables	DC899A
	Common 2 Bay Battery Charging Station	DT533A#ABA
	Common 10 Bay Battery Charging Station	DT534A#ABA
	Battery Adapter Kit (required for use with charging stations)	PK402A
	Primary 6-cell Battery Pack	PB994A
	HP Travel Battery	PB993A
<b>Carrying Cases</b>	HP Entry Value Case	DL617A
	HP Top Load Nylon	DC915A
	HP Executive Leather case	PA847A
	HP Sport Backpack	DG102A
<b>Security</b>	PC Card Smart Card Reader	DC350B
	HP/Kensington Cable Lock	PC766A

## Options

Input/Output Devices	USB/PS2 Keyboard	DC852A#ABA
	USB/PS2 Optical Mouse	DC369A
	HP USB Optical Travel Mouse	F2100A

## Memory

Up to 2048 MB of 333-MHz DDR SDRAM  
Two DIMM slots  
DIMM sizes supported: 256 MB, 512 MB, or 1024 MB

- Standard Memory**
- 256 MB (256 MB x 1)
  - 512 MB (512 MB x 1 or 256 MB x 2)
  - 1024 MB (1024 MB x 1 or 512 MB x 2)

**Optional Memory Upgrades** Support for up to 2048 MB of memory is available (with the installation of optional DDR SDRAM memory kits). Both memory slots are user accessible. Please refer to the Hardware and Software Guide for installation procedures.

Up to	Slot 1	Slot 2
768 MB	512 MB	256 MB
1024 MB	1024 MB	Empty
1024 MB	512 MB	512 MB
1280 MB	1024 MB	256 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 HP branded memory modules to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.

<b>Memory Upgrades</b>	1024-MB 333-MHz DDR SDRAM	DC890B
	512-MB 333-MHz DDR SDRAM	DC390B
	256-MB 333-MHz DDR SDRAM	DC389B

## Storage

### Removable Media Drive Support

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	Quantity Supported	Drive Bay
LightScribe DVD+/-RW Drive with Double Layer Technology	One	Fixed optical drive bay
DVD+/-RW Drive with Double Layer Technology	One	Fixed optical drive bay
DVD/CD-RW Combo Drive	One	Fixed optical drive bay
DVD-ROM Drive	One	Fixed optical drive bay
DVD+/-RW MultiBay II Drive	One	Optional HP External MultiBay II or HP Advanced Docking Station
DVD/CD-RW Combo MultiBay II Drive	One	Optional HP External MultiBay II or HP Advanced Docking Station
DVD-ROM MultiBay II Drive	One	Optional HP External MultiBay II or HP Advanced Docking Station

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### Hard Drive Support

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	Quantity Supported	Drive Bay
80-GB 5400 rpm SMART Hard Drive	One	Dedicated hard drive bay
60-GB 5400 rpm SMART Hard Drive	One	Dedicated hard drive bay
40-GB 5400 rpm SMART Hard Drive	One	Dedicated hard drive bay

## Technical Specifications

<b>System Unit</b>	<b>Dimensions (HxWxD)</b>	1.22 (at front) x 12.9 x 10.5 in (31 (at front) x 328 x 267 mm)
	<b>Weight</b>	5.99 lb (2.72 kg)
	<b>NOTE:</b> Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components. Weight includes 6-cell battery, 30-GB hard drive, 256-MB memory, and CD-ROM drive. Weight varies by configuration and components.	
<b>Stand-Alone Power Requirements</b>	Nominal Operating Voltage	18.5 V
	Average Operating Power	21 W
	Max Operating Power	< 65W
<b>Temperature</b>	Operating	32° to 95° F (0° to 35° C) (not writing optical) 41° to 95° F (5° to 35° C) (writing optical)
	Non-operating	-4° to 140° F (-20° to 60° C)
<b>Relative Humidity</b>	Operating	10% to 90%, non-condensing
	Non-operating	5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature
<b>Shock</b>	Operating	125 G, 2 ms, half-sine
	Non-operating	200 G, 2 ms, half-sine
<b>Random Vibration</b>	Operating	0.75 grms
	Non-operating	1.50 grms
<b>Altitude (unpressurized)</b>	Operating	-50 to 10,000 ft (-15.24 to 3,048 m)
	Non-operating	-50 to 40,000 ft (-15.24 to 12,192 m)
<b>Industry Standard Certifications</b>	Blue Angel	No
	UL	Yes
	Energy Star	Yes
	Canadian Safety	Yes
	CSA (Canada)	Yes
	ICES	Yes
	TUV GS	No
	Nordic Safety	No
	Mexican Safety	Yes
	Poland Compliance	Yes
	Australia / NZ Compliance	Yes
	CCC	Yes
	Japan Compliance	Yes
	MIC	Yes
	BSMI	Yes
	CE Marking Compliance	Yes
	KONCAR	Yes
GOST	Yes	
SASO	Yes	
SABS	Yes	
UKRSERTCOMPUTER	Yes	

### Technical Specifications

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<b>65W External AC Adapter</b>	<b>Weight</b>	0.62 lb (0.28 kg) (adapter)	
		0.29 lb (0.13 kg) (power cord)	
	<b>Dimensions</b>	4.17 x 1.85 x 1.1 in (10.6 x 4.7 x 2.8 cm)	
	<b>Input</b>	Operating Input Voltage	100 to 240 VAC
		Operating Input Current	1.7A at 90 VAC 0.85A at 180 VAC
		Operating Frequency Range	47 to 63 Hz AC
	<b>Output</b>	Efficiency	83% minimum at 115 VAC
		Output Power	65 W
		DC Output Current	18.5 V
	<b>Environmental</b>	Operating Temperature	32° to 104° F (0° to 40° C)
		Non-operating (storage) Temperature	-4° to 149° F (-20° to 65° C)
		Altitude	0 to 10,000 ft (0 to 3,048 m)
		Humidity	20% to 80%
	<b>EMI and Safety Certifications</b>	Storage Humidity	10% to 90%
		CE Mark: full compliance with LVD and EMC directives	
Worldwide safety standards: IEC950, EN60950, UL1950, Class2, SELV			
<b>MTBF</b>	Agency approvals: C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCIB, NOM-1 NYCE		
	Over 200,000 hours at 25°C ambient condition		

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<b>Optional 52Wh Travel Battery</b>	<b>Dimensions (H x W x L)</b>	1.0 x 3.9 x 8.7 in (2.5 x 10.0 x 22.0 cm)	
	<b>Weight</b>	1.00 lb (0.455 kg)	
	<b>Cells/Type</b>	8-cell Lithium-Ion	
	<b>Energy</b>	Voltage	14.4 V
		Amp-hour Capacity	3.6Ah
		Watt-hour Capacity	52Wh
	<b>Temperature</b>	Operating (Charging)	32° to 113° F (0° to 45° C)
		Operating (Discharging)	14° to 140° F (-10° to 60° C)
		Non-operating	-4° to 140° F (-20° to 60° C)
	<b>Battery Re-Charge Time</b>	System in OFF mode or Standby	3 hours
		System ON	3 to 5 hours (depending on system power consumption)
	<b>Fuel Gauge</b>	When pressed, LEDs light indicating level of charge remaining on battery	

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### Technical Specifications

15.0-Inch Color TFT XGA Display	Active Area (W x H)	12.0 x 9.0 in (30.4 x 22.8 cm)	
	Diagonal Size	15.0 in (38.0 cm)	
	Surface Treatment	Anti-glare	
	Number of Colors	Up to 16 M	
	Contrast Ratio	250:1 (typical)	
	Refresh Rate	60 Hz	
	Brightness	150 nit (typical)	
	Pixel Resolution	Pitch	0.297 mm
		Format	1024 x 768
		Configuration	RGB Stripe
	Backlight	CCFL	
	PPI	85	
	Character Display	80 x 25	
	Total Power Consumption	5.7 W	
	Viewing Angle	±45° Horizontal, +15°/-35° Vertical (typical)	

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15.0-Inch Color TFT SXGA+ Wide Viewing Angle Display	Active Area (W x H)	12.0 x 9.0 in (30.4 x 22.8 cm)	
	Diagonal Size	15.0 in (38.0 cm)	
	Surface Treatment	Anti-glare	
	Number of Colors	Up to 16 M	
	Contrast Ratio	300:1 (typical)	
	Refresh Rate	60 Hz	
	Brightness	180 nit (typical)	
	Pixel Resolution	Pitch	0.217 mm
		Format	1400 x 1050
		Configuration	RGB Stripe
	Backlight	CCFL	
	PPI	116	
	Character Display	80 x 25	
	Total Power Consumption	5.8 W	
	Viewing Angle	±60° Horizontal, +40°/-45° Vertical (typical)	

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### Technical Specifications

HP Biometric Fingerprint Sensor	Mobile Voltage Operation	3.0V-3.6V Single Supply
	Operating Temperature	0° to 158°F (0° to 70°C)
	Current Consumption @ 3.3V	Less than 70 mA peak imaging and scrolling Less than 25mA hardware finger detection Advanced Power Management
	High-Rate Image Capture	Up to 240 image frames /sec
	ESD Resistance	IEC 61000-4-2 Level 4 (±15KV)
	Detection Matrix	192 x 16 Pixels 9.7 mm x 0.81mm 500 ppi High-Resolution Images

### Hard Drives

80-GB 5400 rpm	Drive Weight	0.22 lb (99 g)
	Capacity	80 GB
	Height	0.37 in (9.5 mm)
	Width	2.75 in (70 mm)
	Interface	ATA-6
	Transfer Rate	Synchronous (maximum) 100 MB/s (Drive Capability)
	Seek Time (typical reads, including settling)	Single Track 3 ms Average 13 ms Maximum 24 ms
	Rotational Speed	5400 rpm
	Logical Blocks	156,301,488
	Operating Temperature	41° to 131° F (5° to 55° C)
Features	ATA Security	

60-GB 5400 rpm	Drive Weight	0.22 lb (99 g)
	Capacity	60 GB
	Height	0.37 in (9.5 mm)
	Width	2.75 in (70 mm)
	Interface	ATA-6
	Transfer Rate	Synchronous (maximum) 100 MB/s (Drive Capability)
	Seek Time (typical reads, including settling)	Single Track 3 ms Average 13 ms Maximum 24 ms
	Rotational Speed	5400 rpm
	Logical Blocks	117,210,240
	Operating Temperature	41° to 131° F (5° to 55° C)
Features	ATA Security	

## Technical Specifications

40-GB 5400 rpm	Drive Weight	0.22 lb (99 g)	
	Capacity	40 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-6	
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
	Seek Time (typical reads, including settling)	Single Track	3 ms
		Average	13 ms
		Maximum	24 ms
	Rotational Speed	5400 rpm	
	Logical Blocks	78,140,160	
	Operating Temperature	41° to 131° F (5° to 55° C)	
	Features	ATA Security	

## Removable Storage Drives – Fixed Bay

DVD-ROM Drive	Access Times	Random	<100 ms CD <125 ms DVD
		Max Data Transfer Rate	24X-CD-ROM 3,600 KB/s 8X-DVD 10,800 KB/s
	Transfer Mode	Multiword DMA Mode 2	
	Interface	EIDE	
	Supported Media (read)	CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD-RW, DVD+R, DVD+RW	
	Supported Media (write)	None	
	Max Media Capacity (read)	4.7 GB	
	Transport	Tray Loading	

## Technical Specifications

DVD/CD-RW Combo Drive	Access Times	Random	<110 ms CD <130 ms DVD
	Max Data Transfer Rate	24X CD-ROM	3,600 KB/s
		8X DVD	10,800 KB/s
		24X CD-R	3,600 KB/s
		24X CD-RW	3,600 KB/s
	Transfer Mode	Multiword DMA Mode 2	
	Interface	EIDE	
	Supported Media (read)	CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD-RW, DVD+R, DVD+RW	
	Supported Media (write)	CD-R, CD-RW	
	Max Media Capacity (read)	4.7 GB	
Max Media Capacity (write)	700 MB		
Transport	Tray loading		

DVD+/-RW Drive with Double Layer Technology  and  LightScribe DVD+/-RW Drive with Double Layer Technology	Access Times	Random	<175 ms CD <230 ms DVD
	Max Data Transfer Rate	24X CD-ROM	3,600 KB/s
		8X DVD	10,800 KB/s
		24X CD-R	3,600 KB/s
		10X CD-RW	1,500 KB/s
		8X DVD+R	10,800 KB/s
		4X DVD+RW	5,400 KB/s
		8X DVD-R	10,800 KB/s
		4X DVD-RW	5,400 KB/s
	2.4X DVD+R(9)	2,700 KB/s	
Transfer Mode	Multiword DMA Mode 2		
Interface	EIDE		
Supported Media (read)	CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD-RW, DVD+R, DVD+RW		
Supported Media (write)	CD-R, CD-RW, DVD+R, DVD+RW, DVD-R, DVD-RW		
Max Media Capacity (read)	8.5 GB		
Max Media Capacity (write)	4.7 GB		
Transport	Tray Loading		

## Technical Specifications

### Audio

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<b>Hardware</b>	<b>Implementation</b>	Conexant AC '97 CODEC
	<b>Volume Controls</b>	Up, down, and mute buttons
	<b>Full Duplex</b>	Yes
	<b>Sound Blaster Pro compatible</b>	Yes
	<b>Microphone Jack</b>	Stereo or mono
	<b>Headphone/Line Out Jack</b>	Stereo

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<b>Audio Output Quality</b>	<b>Frequency Response</b>	20 Hz - 20 kHz
	<b>Signal to Noise Ratio</b>	>85 dB
	<b>Total Harmonic Distortion</b>	0.01%
	<b>Noise Floor</b>	-110 dB
	<b>Play/Record Sampling Rate(s)</b>	7 kHz - 48 kHz
	<b>AD/DA Resolution</b>	16 bit

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<b>Internal Speakers</b>	<b>Power Rating</b>	2 Watts
	<b>Impedance</b>	4 Ohms

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### Communications

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<b>Integrated Broadcom NetXtreme Gigabit PCI Express Ethernet Controller (10/100/1000 NIC)</b>	<b>Ethernet Features</b>	10 Mbit/s operation (10BASE-T; IEEE 802.3i; 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>Power Management</b>	ACPI 1.1a compliant -- multiple power modes Situation-sensitive features reduce power consumption NIC Battery Saving Mode (enabled by default)
	<b>Performance Features</b>	TCP/IP/UDP Checksum Offload (configurable) Microsoft Large Send Offload (configurable) TCP Segmentation Offload CPU Task Offload Adaptive Interrupts

### Technical Specifications

<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>NIC Device Driver Name</b>	Broadcom NetXtreme Gigabit Ethernet
<b>Drivers Available</b>	Microsoft Windows XP Microsoft Windows 2000

### Agere Systems AC'97 Modem

<b>Form Factor</b>	MDC Daughtercard
<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>	56K modem (a-law, mu-law) V.8bis V.80 V44, V.42bis, 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



## Technical Specifications

<b>Form Factor</b>	MiniPCI Type III B	
<b>Weight</b>	0.026 lb (12 g)	
<b>Dimensions</b>	0.20 x 1.75 x 2.34 in (4.9 x 44.6 x 59.8 mm)	
<b>Operating Voltage</b>	3.3v	
<b>Temperature</b>	Operating	32° to 122° F (0° to 50° C)
	Non-operating	-14° to 158° F (-10° to 70° C)
<b>Humidity</b>	Operating	10% to 90% (non-condensing)
	Non-operating	5% to 95% (non-condensing)
<b>Altitude</b>	Operating	0 to 15,000 ft (4,572 m)
	Non-operating	0 to 40,000 ft (12,192 m)
<b>Configuration Utility<sup>4</sup></b>	Choice of Configuration Utility:	
	<ul style="list-style-type: none"> <li>• Microsoft Windows XP Wireless Network Connection Manager</li> <li>• Broadcom Wireless Configuration Utility (required for Cisco Compatible Extensions support)</li> </ul>	
	<ol style="list-style-type: none"> <li>1. Check latest software/driver release for updates on supported security features.</li> <li>2. Maximum output power may vary by country according to local regulations.</li> <li>3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).</li> <li>4. WLAN supplier's client utility is required for Cisco Compatible Extensions support. WLAN may also be compatible with certain third-party software suppliers.</li> </ol>	

<b>Broadcom 802.11a/b/g WLAN</b>	<b>Wireless LAN Standards</b>	IEEE 802.11a IEEE 802.11b IEEE 802.11g
	<b>Interoperability</b>	Wi-Fi certified Cisco Compatible Extensions Program compliant (details at <a href="http://www.hp.com/go/notebooks/WLAN">http://www.hp.com/go/notebooks/WLAN</a> )
	<b>Frequency Band</b>	2.4 GHz and 5 GHz
	<b>Data Rates</b>	802.11b: 1, 2, 5.5, 11 Mbps 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
	<b>Modulation</b>	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM
	<b>Security<sup>1</sup></b>	Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES, 802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST.  Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program).
	<b>Sub-channels</b>	Multinational support with frequency bands and channels compliant to local regulations.
	<b>Media Access Protocol</b>	CSMA/CA (Collision Avoidance) with ACK
	<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
	<b>Roaming</b>	IEEE 802.11 compliant roaming between access points
<b>Output Power (for CCK)<sup>2</sup></b>	17.5 dBm +/- 1.5 dB	

## Technical Specifications

<b>Output Power</b> (for OFDM; 13.5 dBm +/- 1.5 dB power varies by data rate) <sup>2</sup>		
<b>Power Consumption</b>	Transmit: 2.0 W (max) Receive: 1.5 W (max) Idle mode: 248 mW (nominal) Sleep mode: 20 mW (max)	
<b>Power Management</b>	ACPI compliant power management 802.11 compliant power saving mode	
<b>Receiver Sensitivity</b> <sup>3</sup>	802.11a - 54 Mbps: -70 dBm; 802.11g - 54 Mbps: -72 dBm, 1 Mbps: -94 dBm	
<b>Antenna type</b>	High efficiency dual band antenna with polarization diversity, mounted in the display enclosure	
<b>Range</b>	802.11 a – Typical (@6 Mbps)	1000 feet – Outdoor Open Area 300 feet – Indoor, Office environment
	802.11 b – Typical (@1 Mbps)	1200 feet – Outdoor Open Area 300 feet – Indoor, Office environment
	802.11 g – Typical (@1 Mbps)	1200 feet – Outdoor Open Area 300 feet – Indoor, Office environment
<b>Form Factor</b>	MiniPCI Type IIIA	
<b>Weight</b>	0.035 lb (16 g)	
<b>Dimensions</b>	0.19 x 2.00 x 2.35 in (4.8 x 50.95 x 59.75 mm)	
<b>Operating Voltage</b>	3.3v	
<b>Temperature</b>	Operating Non-operating	32° to 122° F (0° to 50° C) -14° to 158° F (-10° to 70° C)
<b>Humidity</b>	Operating Non-operating	10% to 90% (non-condensing) 5% to 95% (non-condensing)
<b>Altitude</b>	Operating Non-operating	0 to 15,000 ft (4,572 m) 0 to 40,000 ft (12,192 m)
<b>Configuration Utility</b> <sup>4</sup>	Choice of Configuration Utility: <ul style="list-style-type: none"> <li>• Microsoft Windows XP Wireless Network Connection Manager</li> <li>• Broadcom Wireless Configuration Utility (required for Cisco Compatible Extensions support)</li> </ul>	

1. Check latest software/driver release for updates on supported security features.
2. Maximum output power may vary by country according to local regulations.
3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).
4. WLAN supplier's client utility is required for Cisco Compatible Extensions support. WLAN may also be compatible with certain third-party software supplicants.

### Bluetooth by HP

<b>Name</b>	HP Integrated module with Bluetooth wireless technology
<b>Bluetooth Specification</b>	1.2 Compliant
<b>Dimensions</b>	1.02 x 0.55 x 0.22 in (26 x 14 x 5.7 mm)
<b>Frequency Band</b>	2402 to 2480 MHz
<b>Number of available channels</b>	79 (1 MHz) available channels

### Technical Specifications

<b>Data Rates and throughput</b>	1 Mbps data rate; throughput up to 720 Kbps 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>Transmit Power</b>	-6 dBm to 4 dBm (Bluetooth Class II)
<b>Receiver Sensitivity</b>	Better than -80 dBm at 0.1 % raw bit error rate
<b>Power Consumption</b>	Peak (Tx) 264 mW Peak (Rx) 231 mW Sleep <1 mW
<b>Antenna</b>	Internally integrated within module
<b>Range</b>	Up 33 ft (10 m)
<b>Electrical Interface</b>	USB 1.1 compliant Microsoft Windows Plug and Play compliant
<b>OS Support</b>	Microsoft Windows XP Professional and Home Microsoft Windows 2000
<b>Bluetooth Software Supported</b>	Widcomm Bluetooth for Windows Microsoft Windows XP Bluetooth Software
<b>Link Topology</b>	Point to Point, Multipoint Pico Nets up to 7 slaves
<b>Security</b>	Full support of Bluetooth Security Provisions
<b>Power Management</b>	Microsoft Windows ACPI, and USB Bus Support Self configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff
<b>Certifications</b>	All necessary regulatory approvals for supported countries, 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
<b>Temperature</b>	Operating -4° to 158° F (-20° to 70° C) Non-operating -40° to 176° F (-40° to 80° C)
<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>Bluetooth Profiles Supported</b>	(with Bluetooth for Windows 4.0 software) Serial Port Profile (SPP)* Dial-Up Networking (DUN)* Generic Object Exchange Profile (GOEP) Object Push Profile (OPP)* File Transfer Profile (FTP) Synchronization Profile (SYNC) Hard Copy Cable Replacement (HCRP)* Personal Area Networking Profile (PAN)* Human Interface Device Profile (HID)* FAX Profile (FAX)

## Technical Specifications

Basic Imaging Profile (BIP)

Headset Profile (HSP)

Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

\* indicates the profile is also supported by Microsoft Windows XP SP2

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