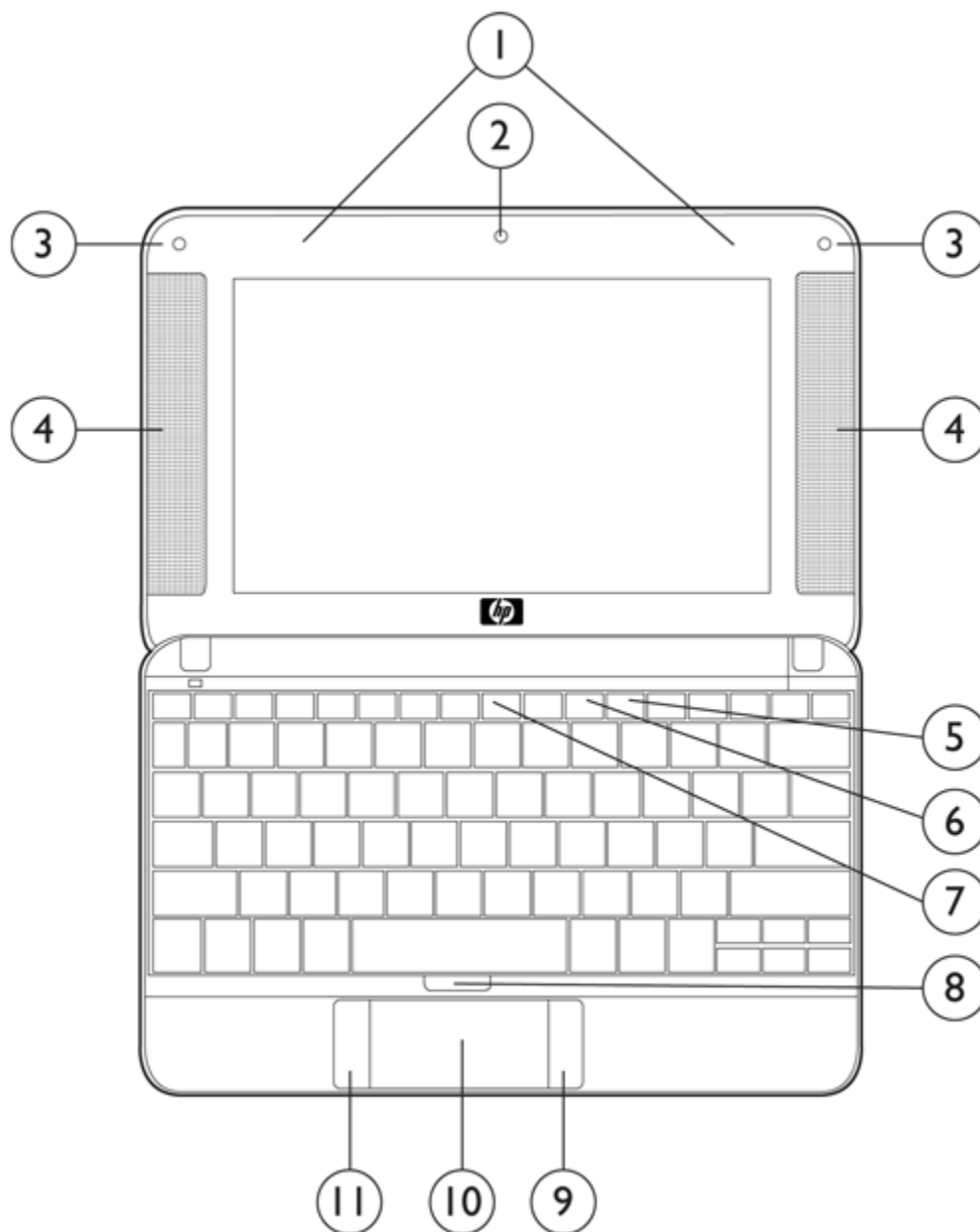
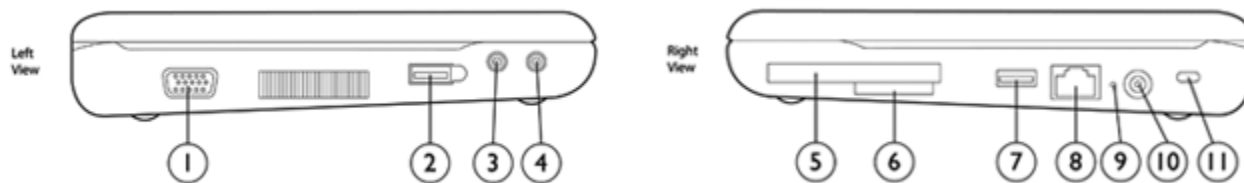


HP recommends  
Windows Vista® Business

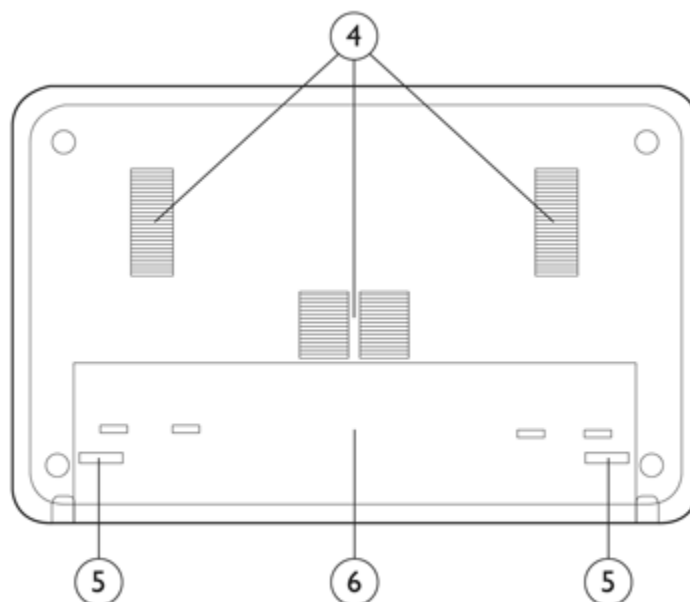
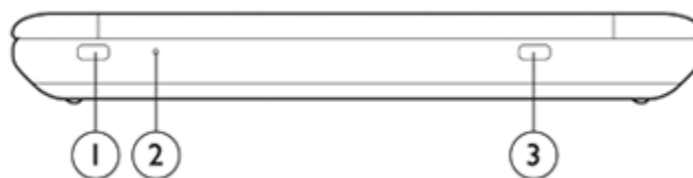


- |                                     |                               |
|-------------------------------------|-------------------------------|
| 1. Integrated stereo microphones    | 7. Volume mute function key   |
| 2. Optional VGA camera              | 8. Touchpad on/off button     |
| 3. WLAN antennas (with WLAN option) | 9. Right touchpad button      |
| 4. Stereo speakers                  | 10. Touchpad with scroll zone |
| 5. Volume up function key           | 11. Left touchpad button      |
| 6. Volume down function key         |                               |

### Overview



- |                              |                          |
|------------------------------|--------------------------|
| 1. VGA/external monitor      | 7. USB 2.0               |
| 2. Powered USB 2.0           | 8. RJ-45/ethernet        |
| 3. Stereo microphone in      | 9. Battery LED           |
| 4. Stereo headphone/line out | 10. Power connector      |
| 5. ExpressCard/54 slot       | 11. Kensington lock slot |
| 6. Secure Digital slot       |                          |



- |   |                            |
|---|----------------------------|
| 1. Power button with LED                            | 4. Vents                   |
| 2. Internal storage activity / HP 3D DriveGuard LED | 5. Battery release latches |
| 3. Wireless on/off button with LED                  | 6. Battery bay             |

### Overview

#### At A Glance

- Full-function PC with utmost mobility and durable all-aluminum case
- Ultra-portable light-weight design starting at 2.8 lb (1.27 kg) and 1.05 in (27 mm) thin at front
- 8.9-inch diagonal WXGA or WSVGA scratch-resistant display
- 92% full-size QWERTY keyboard and touchpad
- Optional 802.11 a/b/g/n draft 2.0 wireless LAN and Bluetooth, HP Wireless Assistant
- Up to 160 GB 7200 rpm hard drive with HP 3D DriveGuard (supported on Windows models only)
- Optional integrated VGA Webcam
- ExpressCard/54 slot
- Secure Digital slot for HCSD and MMC media cards
- Upgradeable up to 2GB of 667 MHz DDR2 SDRAM

### Standard Features

<b>Processors</b>	<p>VIA C7™-M ULV processor (1.0 GHz, 128 KB L2 cache, 400 MHz FSB)          VIA C7-M ULV processor (1.2 GHz, 128 KB L2 cache, 800 MHz FSB)          VIA C7-M ULV processor (1.6 GHz, 128 KB L2 cache, 800 MHz FSB)</p> <p><b>NOTE:</b> Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.</p>	
<b>Operating System</b>	<b>Preinstalled</b>	<p>Genuine Windows Vista Home Basic 32*          Genuine Windows Vista Business 32*          Genuine Windows Vista Business downgrade to Genuine Windows XP Professional installed*†          SuSE Linux Enterprise Desktop 10          Genuine Windows XP Home Edition (China only)          FreeDOS</p> <p><b>Supported</b></p> <p>Genuine Windows XP Professional</p> <p>* Certain Windows Vista product features require advanced or additional hardware. See <a href="http://www.microsoft.com/windowsvista/getready/hardwarereqs.mspx">http://www.microsoft.com/windowsvista/getready/hardwarereqs.mspx</a> and <a href="http://www.microsoft.com/windowsvista/getready/capable.mspx">http://www.microsoft.com/windowsvista/getready/capable.mspx</a> for details. Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit <a href="http://www.windowsvista.com/upgradeadvisor">http://www.windowsvista.com/upgradeadvisor</a>.</p> <p>† Windows Vista Business disk also included for future upgrade if desired. To qualify for this downgrade an end user must be a business (including governmental or educational institutions) and is expected to order annually at least 25 customer systems with the same custom image.</p>
<b>Chipset</b>	VIA 896	
<b>Graphics</b>	<p>VIA Chrome 9          Up to 256 MB of shared system memory for Windows with 2 GB of system memory          Up to 128 MB of shared system memory for Windows with 1 GB of system memory          Up to 64 MB of shared system memory for Linux</p>	
<b>Display</b>	<b>Internal</b>	<p>8.9-inch WXGA display with 1280 x 768 resolution          8.9-inch WSVGA display with 1024 x 600 resolution          Scratch-resistant treatment on acrylic panel cover</p> <p><b>External</b></p> <p>Up to 32-bit per pixel color depth          VGA port supports resolutions up to 2048 x 1536 at 75 Hz, and lower resolutions at up to 100 Hz</p> <p><b>NOTE:</b> Resolutions are dependent upon monitor capability, and resolution and color depth settings.</p>
<b>Memory</b>	<b>Standard</b>	512 MB, 1024 MB, or 2048 MB 667 MHz* DDR2 SDRAM SODIMM; one SODIMM slot
	<b>Maximum</b>	Supports up to 2048 MB maximum
	<p>* An 800 MHz DDR2 SDRAM SODIMM memory module may be substituted (running at the maximum system supported speed of 667 MHz)</p> <p><b>NOTE:</b> Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility.</p>	

### Standard Features

**Communications** Integrated Broadcom NetLink Gigabit Ethernet PCI Controller (10/100/1000 NIC)

**Wireless Devices** Support for secure, integrated wireless LAN options featuring support for the latest industry standards. Wireless LAN is factory configurable only. Integrated Bluetooth is also available (factory configurable only) and can be combined with any of the supported wireless LAN options.

**All 802.11 integrated wireless LAN options** Wi-Fi CERTIFIED\*  
 Cisco Compatible Extensions support (Version 4.0)  
 Wired Equivalent Privacy (WEP) support up to 128-bit keys  
 Wi-Fi Protected Access (WPA) and WPA2 support  
 802.1x authentication support, including EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, and LEAP  
 Advanced Encryption Standard (AES) support  
 WiFi certified for WPA2, WMM  
 Dual antennas integrated in the display enclosure

**Broadcom 4322AGN 802.11a/b/g/draft-n Wi-Fi Adapter** Integrated support for 802.11a, b, g, and n draft 2.0\*  
 Up to 300 mbps data rate

**Broadcom 4311AG 802.11a/b/g Wi-Fi Adapter** Integrated support for 802.11 a, b and g  
 Up to 54-mbps data rate

**Broadcom 4312G 802.11b/g Wi-Fi Adapter** Integrated support for 802.11 b and g  
 Up to 54-mbps data rate

**HP Integrated Module with Bluetooth Wireless Technology** Bluetooth Specification v2.0 compliant  
 Works with a wide range of Bluetooth devices

\* The specifications for 802.11n draft 2.0 are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11n WLAN devices. In countries where n draft 2.0 is not allowed, this capability is not enabled.

**Keyboard** Spill-resistant keyboard is 92% of full size, 101/102-key compatible with isolated inverted-T cursor control keys, both left and right control and alt keys, 12 function keys, and hotkey combinations for audio volume, power conservation, brightness, and other features. US and international key layouts are available.

**Pointing Device** Touchpad with scroll zone and two soft-touch buttons

**Expansion Card Slots** **ExpressCard/54 slot** Supports ExpressCard/54 and ExpressCard/34  
**Secure Digital slot** Supports HCSD (Secure Digital), MMC (MultiMedia Card)

### Standard Features

<b>Storage</b>	<b>Internal Storage Device</b>	120/160 GB 5400 rpm SATA Hard Drive 120/160 GB 7200 rpm SATA Hard Drive
	<b>NOTE:</b>	Hard drives are customer removable and will withstand multiple insertion/removal cycles. Up to 10 GB is reserved for the system recovery software.
	<b>HP 3D DriveGuard*</b>	The hard drive is mounted to the notebook frame, reducing the transmission of shock away from the hard drive. Uses three-axis digital motion detection with intelligent sensitivity to help protect the hard drive during normal use from shock and vibration. The digital accelerometer temporarily halts all data transfer and parks the hard drive when abrupt motion is detected.
	<b>External Optical Drives</b>	Via optional HP External MultiBay II (9.5-mm): MultiBay II DVD-ROM Drive MultiBay II DVD/CD-RW Combo Drive MultiBay II DVD+/-RW SuperMulti DL Drive
	* Windows models only	

<b>Interfaces</b>	<b>ExpressCard/54 slot</b>	Supports ExpressCard/54 and ExpressCard/34
	<b>External Monitor</b>	One - VGA
	<b>Stereo Microphone In</b>	One
	<b>Stereo Headphone/Line out</b>	One
	<b>Power Connector</b>	One
	<b>RJ-45/Ethernet</b>	One
	<b>USB 2.0</b>	Two (one powered)
	<b>LED Status Indicators</b>	Five

<b>Audio</b>	ADI1984HD High Definition CODEC 24-bit DAC Integrated stereo speakers Stereo headphone/line out Stereo microphone in
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<b>Software</b>	<b>Preinstalled Software with Windows Vista or Windows XP</b>	MS Office Ready 2007 Norton Internet Security MS Live Messenger Adobe Flash Player Roxio Creator Basic Intervideo WinDVD PDF Complete SE HP Webcam HP Recovery Manager (Vista only)
	<b>Preinstalled Software with SuSE Linux Enterprise Desktop 10</b>	OpenOffice Suite Evolution Email Evince Document Viewer OpenOffice Draw F-Spot Photo Brower Gnome CD/DVD Creator Helix Banshee Music Player Real Player 10 Media Player Firefox Web Browser Gaim Instant Messenger Gnome FTP File Transfer

### Standard Features

Liferea Feed Reader  
Mutt Mail Client

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**SMBIOS Version 2.4** System Management BIOS, previously known as DMI BIOS, is used to store system management information.

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<b>Security</b>	<b>Standard Features</b>	Configuration Control Hardware Memory Change Alert Ownership Tag Setup Password Power-On Password Kensington Lock Slot Support for Computrace / LoJack for Laptops (must be purchased separately)
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**Power Supply** External 65-watt Smart AC adapter, 6-foot (1.8-meter) power cord included. Total length including External AC adapter is 12 feet (3.66 meter). HP Fast Charge Technology\*  
*\*Fast Charge Technology recharges your battery up to 90% within 90 minutes when the system is off. Fast Charge Technology does not apply to 12-cell Ultra-Capacity batteries.*

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<b>Battery</b>	<b>Primary Battery</b>	3-cell (28 WHr) high capacity Li-Ion 6-cell (55 WHr) high capacity Li-Ion
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<b>Battery Life</b>	<b>3-cell Primary Battery</b>	Up to 2 hours 15 minutes
	<b>6-cell Primary Battery</b>	Up to 4 hours 30 minutes

**NOTE:** The listed battery life measurements were taken on models running Microsoft Windows Vista. 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.

**System Standby Time** Up to 1 week

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**Power Conservation** Standby  
ACPI compliance

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

For configurations with SuSE Linux Enterprise Desktop 10, HP Services may vary depending on the country of purchase, and toll-free 5 x 8 (Monday through Friday; 9:00am to 5:00pm CST) hardware technical phone support is available.

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

<http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp>.

### Options

<b>Memory</b>	HP 512 MB (DDR2 667 MHz) SODIMM	EM993AA
	HP 1 GB (DDR2 667 MHz) SODIMM	EM994AA
	HP 2 GB (DDR2 667 MHz) SODIMM	EM995AA
	HP 1 GB (DDR2 800 MHz) SODIMM*	KT292AA
	HP 2 GB (DDR2 800 MHz) SODIMM*	KT293AA
* Runs at maximum system supported speed of 667 MHz		
<b>Storage</b>	HP 120 GB 5400 rpm Primary SATA Hard Drive	RT080AA
	HP 120 GB 7200 rpm Primary SATA Hard Drive	AH920AA
	HP Versatile Storage Cart	AL587AA
<b>MultiBay II Storage</b> (9.5-mm)	HP External MultiBay II	PA509A#xxx
	HP MultiBay II DVD-ROM Drive	PA849A
	HP MultiBay II DVD/CD-RW Combo Drive	PA850A
	HP MultiBay II DVD+/-RW SuperMulti DL Drive	PA851A
	HP 80-GB 5400rpm MultiBay II Hard Drive	PH357A
<b>Power</b>	HP 1-bay Battery Charging Station	RW635AA#xxx
	HP 5-bay Battery Charging Station	RW636AA#ABA
	HP 2133 Battery Adapter Kit	KV828AA
	65W Smart AC Adapter	ED494AA#ABA
	HP 2133 6-cell Primary Battery	KU528AA
<b>Carrying Cases</b>	HP 2133 Carrying Case	TBD
	HP Ultra-portable Carrying Case	TBD
	HP Basic Carrying Case	AJ078AA
	HP Value Nylon Case	RR314AA
	HP Universal Nylon Case	RR315AA
	HP Executive Leather Case	RR316AA
	HP Deluxe Nylon Backpack	RR317AA
	HP Deluxe Roller Case	GD405AA
<b>Security</b>	HP/Kensington MicroSaver Security Lock	PC766A
<b>Input/Output Devices</b>	HP USB Keyboard & Mouse Bundle	RC465AA#xxx
	HP USB/PS2 Optical 2-Button Scroll Mouse	DC369A
	HP USB Optical Travel Mouse	RH304AA

### Memory

Supports up to 2048 MB\* of 667 MHz DDR2 SDRAM  
 One DIMM slot  
 DIMM sizes supported: 512 MB, 1024 MB and 2048 MB

**Standard Memory**      512 MB (512 MB x 1)  
                                  1024 MB (1024 MB x 1)  
                                  2048 MB (2048 MB x 1)

**Optional Memory Upgrades**    Support for up to 2048 MB\* of memory is available (with the installation of optional DDR2 SDRAM memory kit). Memory slot is user accessible. Please refer to the Hardware and Software Guide for installation procedures.

Up to	Slot 1
2048 MB	2048 MB

**NOTE:** 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.

<b>Memory Upgrades</b>	HP 1 GB (DDR2 667 MHz) SODIMM	EM994AA
	HP 2 GB (DDR2 667 MHz) SODIMM	EM995AA
	HP 1 GB (DDR2 800 MHz) SODIMM*	KT292AA
	HP 2 GB (DDR2 800 MHz) SODIMM*	KT293AA

\* Runs at maximum system supported speed of 667 MHz

## Storage

### Internal Storage Device

#### Hard Drives (SMART SATA)

120 GB 5400 rpm

#### Quantity Supported

One

#### Drive Bay

Dedicated hard drive bay

160 GB 5400 rpm

One

Dedicated hard drive bay

120 GB 7200 rpm

One

Dedicated hard drive bay

160 GB 7200 rpm

One

Dedicated hard drive bay

### Optical Drive Support

#### External Optical Drives

#### Quantity Supported

#### Optional Expansion Unit

MultiBay II DVD-ROM Drive

One

HP External MultiBay II

MultiBay II DVD/CD-RW Combo Drive

MultiBay II DVD+/-RW SuperMulti DL

Drive

### Technical Specifications

<b>System Unit</b>	<b>Dimensions (HxWxD)</b>	1.05 (at front) x 10.04 x 6.5 in 27 (at front) x 255 x 165 mm
	<b>Weight</b>	Starting at 2.8 lb (1.27 kg)
	<b>NOTE:</b> Height varies depending upon where on the notebook the measurement is made. Weight includes 3-cell battery, 1 GB memory, 4 GB flash module, 802.11 wireless communications module. Weight varies by configuration and components.	
<b>Stand-Alone Power Requirements</b>	Normal Operating Voltage	19 V
	Average Operating Power	25 W
	Max Operating Power	< 65 W
<b>Temperature</b>	Operating	32° to 95° F (0° to 35° C)
	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</b> (unpressurized)	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>	UL	Yes
	CSA	Yes
	FCC Compliance	Yes
	ICES	Yes
	Australia / NZ A-Tick Compliance	Yes
	CCC	Yes
	Japan VCCI Compliance	Yes
	MIC	Yes
	BSMI	Yes

### Technical Specifications

<b>HP 65W Smart AC Adapter</b>	<b>Dimensions</b>	4.17 x 1.85 x 1.1 in (10.6 x 4.7 x 2.8 cm)	
	<b>Weight</b>	0.62 lb (280 g)	
	<b>Input</b>	100 to 240 VAC	
		Input Efficiency	83% min at 115 VAC
	<b>Output</b>	Input frequency range	47 to 63 Hz
		Input AC current	1.7 A at 90 VAC, 0.85 A at 180 VAC
		Output power 65W	65W
		DC output	18.5V
		Hold-up time	5 msec at 115 VAC input
		Output current limit	<11A, Over voltage protection- 29V max automatic shutdown
		<b>Connector</b>	3 pin/grounded, mates with interchangeable cords
	<b>Environmental Design</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%
Storage Humidity		10% to 90%	
<b>EMI and Safety Certifications</b>	CE Mark - full compliance with LVD and EMC directives; Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE; MTBF - over 200,000 hours at 25°C ambient condition.		

<b>6-Cell (55 WHr) Lithium-on battery</b>	<b>Dimensions (HxWxL)</b>	1.69 x 1.57 x 8.19 in (4.3 x 4 x 20.8 cm)	
	<b>Weight</b>	0.77 lb (0.35 kg)	
	<b>Cells/Type</b>	6-cell Lithium-Ion	
	<b>Energy</b>	Watt-hour Capacity	55Wh
		<b>Temperature</b>	Operating (Charging)
	<b>Battery Re-Charge Time</b>	Operating (Discharging)	14° to 140° F (-10° to 60° C)
		Non-operating	-4° to 140° F (-20° to 60° C)
		System in OFF Mode or Standby	2.5 hours
		System ON	3 to 5 hours (depending on system power consumption)
	<b>Fuel Gauge</b>	HP Fast Charge Technology	Charges the battery up to 90% within 90 minutes when system is OFF
		When pressed, LEDs light indicating level of charge remaining on battery	

### Technical Specifications

<b>3-Cell (28.8 WHr) Lithium-ion battery</b>	<b>Dimensions (HxWxL)</b>	1.69 x 0.79 x 8.19 in (4.3 x 2 x 20.8 cm)		
	<b>Weight</b>	0.39 lb (0.176 kg)		
	<b>Cells/Type</b>	3-cell Lithium-Ion		
	<b>Energy</b>	Watt-hour Capacity	28.8 WHr	
	<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	2.5 hours	
		System ON	3 to 5 hours (depending on system power consumption)	
		HP Fast Charge Technology	Charges the battery up to 90% within 90 minutes when system is OFF	

<b>8.9-inch diagonal WXGA Display</b>	<b>Active Area (W x H)</b>	7.63 x 4.58 in (19.39 x 11.63 cm)		
	<b>Diagonal Size</b>	8.9 in (22.6 cm)		
	<b>Surface Treatment</b>	Anti-glare		
	<b>Contrast Ratio</b>	400:1 (typical)		
	<b>Refresh Rate</b>	60 Hz		
	<b>Brightness</b>	200 nit (typical)		
	<b>Pixel Resolution</b>	<b>Pitch</b>	.15 mm	
		<b>Format</b>	1280 x 768	
		<b>Configuration</b>	RGB stripe	
	<b>Backlight</b>	CCFL		
<b>PPI</b>	168			
<b>Viewing Angle</b>	±60° Horizontal, ±30° Vertical (typical)			

<b>8.9-inch diagonal WSVGA Display</b>	<b>Active Area (W x H)</b>	7.68 x 4.46 in (19.51 x 11.34 cm)		
	<b>Diagonal Size</b>	8.9 in (22.6 cm)		
	<b>Surface Treatment</b>	Anti-glare		
	<b>Contrast Ratio</b>	300:1 (typical)		
	<b>Refresh Rate</b>	60 Hz		
	<b>Brightness</b>	180 nit (typical)		
	<b>Pixel Resolution</b>	<b>Pitch</b>	.19 mm	
		<b>Format</b>	1024 x 600	
		<b>Configuration</b>	RGB stripe	
	<b>Backlight</b>	LED		
<b>PPI</b>	133			
<b>Viewing Angle</b>	±45° Right/Left, ±15° Up, ±35° Down (typical)			

### Internal Storage

### Technical Specifications

<b>160 GB 7200 rpm SATA Hard Drive</b>	<b>Drive Weight</b>	0.25 lb (113 g)	
	<b>Capacity</b>	160 GB	
	<b>Height</b>	0.37 in (9.5 mm)	
	<b>Width</b>	2.75 in (70 mm)	
	<b>Interface</b>	ATA-7 / SATA 1.0a	
	<b>Transfer Rate</b>	<b>Synchronous</b> 100 MB/s (Drive Capability) (maximum)	
	<b>Seek Time</b> (typical reads, including settling)	<b>Single Track</b>	1 ms
		<b>Average</b>	10 ms
		<b>Maximum</b>	18 ms
	<b>Rotational Speed</b>	7200 rpm	
	<b>Logical Blocks</b>	312,581,808	
	<b>Operating Temperature</b>	41° to 140° F (5° to 60° C) [case temp]	
<b>Features</b>	ATA Security		

<b>120 GB 7200 rpm SATA Hard Drive</b>	<b>Drive Weight</b>	0.25 lb (113 g)	
	<b>Capacity</b>	120 GB	
	<b>Height</b>	0.37 in (9.5 mm)	
	<b>Width</b>	2.75 in (70 mm)	
	<b>Interface</b>	ATA-7 / SATA 1.0a	
	<b>Transfer Rate</b>	<b>Synchronous</b> 100 MB/s (Drive Capability) (maximum)	
	<b>Seek Time</b> (typical reads, including settling)	<b>Single Track</b>	1 ms
		<b>Average</b>	10 ms
		<b>Maximum</b>	18 ms
	<b>Rotational Speed</b>	7200 rpm	
	<b>Logical Blocks</b>	234,441,648	
	<b>Operating Temperature</b>	41° to 140° F (5° to 60° C) [case temp]	
<b>Features</b>	ATA Security		

<b>160 GB 5400 rpm SATA Hard Drive</b>	<b>Drive Weight</b>	0.22 lb (101 g)	
	<b>Capacity</b>	160 GB	
	<b>Height</b>	0.37 in (9.5 mm)	
	<b>Width</b>	2.75 in (70 mm)	
	<b>Interface</b>	ATA-7 / SATA 1.0a	
	<b>Transfer Rate</b>	<b>Synchronous</b> 100 MB/s (Drive Capability) (maximum)	
	<b>Seek Time</b> (typical reads, including settling)	<b>Single Track</b>	3 ms
		<b>Average</b>	13ms
		<b>Maximum</b>	24 ms
	<b>Rotational Speed</b>	5400 rpm	
	<b>Logical Blocks</b>	312,581,808	
	<b>Operating Temperature</b>	41° to 140° F (5° to 60° C) [case temp]	
<b>Features</b>	ATA Security		

## Technical Specifications

<b>120 GB 5400 rpm SATA Hard Drive</b>	<b>Drive Weight</b>	0.22 lb (101 g)		
	<b>Capacity</b>	120 GB		
	<b>Height</b>	0.37 in (9.5 mm)		
	<b>Width</b>	2.75 in (70 mm)		
	<b>Interface</b>	ATA-7 / SATA 1.0a		
	<b>Transfer Rate</b>	<b>Synchronous</b> (maximum)	100 MB/s (Drive Capability)	
	<b>Seek Time</b> (typical reads, including settling)	<b>Single Track</b>	3 ms	
		<b>Average</b>	13ms	
		<b>Maximum</b>	24 ms	
	<b>Rotational Speed</b>	5400 rpm		
	<b>Logical Blocks</b>	234,441,648		
	<b>Operating Temperature</b>	41° to 140° F (5° to 60° C) [case temp]		
	<b>Features</b>	ATA Security		

## Removable Storage Drives - MultiBay II

<b>DVD-ROM Drive</b>	<b>Dimensions</b>	0.37 x 5.51 x 5.04 in (0.95 x 14.0 x 12.8 cm)		
	<b>Weight</b>	0.34 lb (155 g)		
	<b>Access Times</b>	Random	<120 ms CD	
			<200 ms DVD	
	<b>Max Data Transfer Rate</b>	24X-CD-ROM	3,600 KB/s	
		8X-DVD	10,800 KB/s	
	<b>Transfer Mode</b>	Multiword DMA Mode 2		
	<b>Interface</b>	EIDE		
	<b>Supported Media (read)</b>	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		
	<b>Supported Media (write)</b>	None		
	<b>Max Media Capacity (read)</b>	8.5 GB		
<b>Transport</b>	Tray Loading			

### Technical Specifications

<b>DVD/CD-RW Combo Drive</b>	<b>Dimensions</b>	0.37 x 5.51 x 5.04 in (0.95 x 14.0 x 12.8 cm)		
	<b>Weight</b>	0.45 lb (205 g)		
	<b>Access Times</b>	Random	<120 ms CD	<155 ms DVD
	<b>Max Data Transfer Rate</b>	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	
	<b>Transfer Mode</b>	Multiword DMA Mode 2		
	<b>Interface</b>	EIDE		
	<b>Supported Media (read)</b>	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		
	<b>Supported Media (write)</b>	CD-R, CD-RW		
	<b>Max Media Capacity (read)</b>	8.5 GB		
<b>Max Media Capacity (write)</b>	700 MB			
<b>Transport</b>	Tray loading			

<b>DVD+/-RW SuperMulti DL Drive</b>	<b>Dimensions</b>	0.37 x 5.51 x 5.04 in (0.95 x 14.0 x 12.8 cm)		
	<b>Weight</b>	0.45 lb (205 g)		
	<b>Access Times</b>	Random	<150 ms CD	<125 ms DVD
	<b>Max Data Transfer Rate</b>	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	
		4X DVD+R	5,400 KB/s	
		2.4X DVD+RW	3,240 KB/s	
		4X DVD-R	5,400 KB/s	
		2X DVD-RW	2,700 KB/s	
		2X DVD-RAM	2,700 KB/s	
<b>Transfer Mode</b>	Multiword DMA Mode 2			
<b>Interface</b>	EIDE			
<b>Supported Media (read)</b>	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, DVD-RAM			
<b>Supported Media (write)</b>	CD-R, CD-RW, DVD+R, DVD+RW, DVD-R, DVD-RW, DVD-RAM			
<b>Max Media Capacity (read)</b>	8.5 GB			
<b>Max Media Capacity (write)</b>	8.5 GB			
<b>Transport</b>	Tray Loading			

### Technical Specifications

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<b>80-GB 5400 rpm MultiBay II Hard Drive</b>	<b>MultiBay II Drive Adapter</b>	<b>Dimensions (H x W x D)</b> 0.37 x 5.51 x 5.04 in (0.95 x 14.0 x 12.8 cm)
		<b>Weight</b> 0.16 lb (72 g)
	<b>Drive Weight</b>	0.22 lb (101 g)
	<b>Capacity</b>	80 GB
	<b>Height</b>	0.37 in (9.5 mm)
	<b>Width</b>	2.75 in (70 mm)
	<b>Interface</b>	ATA-6
	<b>Transfer Rate</b>	<b>Synchronous</b> 100 MB/s (Drive Capability) (maximum)
	<b>Seek Time</b> (typical reads, including settling)	<b>Single Track</b> 3 ms <b>Average</b> 13 ms <b>Maximum</b> 24 ms
	<b>Rotational Speed</b>	5400 rpm
	<b>Logical Blocks</b>	156,301,488
	<b>Operating Temperature</b>	41° to 131° F (5° to 55° C)
	<b>Features</b>	ATA Security

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### PremierSound Audio

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<b>Hardware</b>	<b>Implementation</b>	ADI1984HD High Definition CODEC
	<b>Volume Controls</b>	Up, down, and mute function keys
	<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>	8 kHz - 48kHz
	<b>DAC</b>	16, 20 or 24-bit
	<b>ADC</b>	16 or 20-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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### Technical Specifications

<p><b>Integrated Broadcom NetLink Gigabit Ethernet PCI Controller (BCM5788M)</b></p>	<p><b>Ethernet Features</b></p>	<p>10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)</p> <p>100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30)</p> <p>1000 Mbit/s operation (1000BASE-T; IEEE 802.3z and 802.3ab; IEEE 802.3 clauses 34-42)</p> <p>Auto-Negotiation (Automatic Speed Selection)</p> <p>Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s</p> <p>IEEE 802.1p QoS (Quality of Service) Support</p> <p>IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)</p>
	<p><b>Power Management</b></p>	<p>ACPI compliant -- multiple power modes</p> <p>Situation-sensitive features reduce power consumption</p> <p>NIC Battery Saving Mode (enabled by default)</p>
	<p><b>Performance Features</b></p>	<p>TCP/IP/UDP Checksum Offload (configurable)</p>
	<p><b>Manageability</b></p>	<p>Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only)</p> <p>PXE 2.1 Remote Boot</p> <p>Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30))</p> <p>Comprehensive diagnostic and configuration software suite</p>
	<p><b>Interface</b></p>	<p>32-bit PCI, 33-MHz</p>
	<p><b>NIC Device Driver Name</b></p>	<p>Broadcom NetLink Gigabit Ethernet</p>
	<p><b>Drivers Available</b></p>	<p>Microsoft Windows XP</p> <p>Microsoft Windows 2000</p>

<p><b>Broadcom 4322AGN 802.11a/b/g/draft-n WiFi Standards Adapter</b></p>	<p><b>Wireless LAN</b></p>	<p>IEEE 802.11a</p> <p>IEEE 802.11b</p> <p>IEEE 802.11g</p> <p>IEEE 802.11n (draft 2.0)</p>
	<p><b>Interoperability</b></p>	<p>Wi-Fi certified (802.11abg only)</p> <p>Cisco Compatible Extensions Program compliant (802.11abg only) with Microsoft Windows Vista and XP (details at: <a href="http://www.hp.com/go/notebooks/WLAN">http://www.hp.com/go/notebooks/WLAN</a>)</p> <p>Tested with wireless access points from several major manufacturers (details at: <a href="http://www.hp.com/go/notebooks/WLAN/draft-n">http://www.hp.com/go/notebooks/WLAN/draft-n</a>)</p>
	<p><b>Frequency Band</b></p>	<p>2.4 GHz and 5 GHz</p>
	<p><b>Data Rates</b></p>	<p>802.11b: 1, 2, 5.5, 11 Mbps</p> <p>802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</p> <p>802.11n (draft): 6, 6.5, 9, 12, 13, 13.5, 18, 19.5, 24, 26, 27, 36, 39, 40.5, 48, 52, 54, 58.5, 65, 78, 81, 104, 108, 117, 121.5, 130, 135, 162, 216, 243, 270, 300 Mbps</p>
	<p><b>Frequency Support</b></p>	<p>20 MHz: 2.4 GHz and 5 GHz bands</p> <p>40 MHz: 2.4 GHz and 5 GHz band</p>
	<p><b>Modulation</b></p>	<p>Direct Sequence Spread Spectrum</p> <p>DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM</p>
	<p><b>Security<sup>1</sup></b></p>	<p>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.</p> <p>Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program Version 4) with Microsoft Windows Vista and XP</p>



### Technical Specifications

3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CCK 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 with Microsoft Windows XP. WLAN may also be compatible with certain third-party software supplicants. WLAN supplier IHV extensions required for Cisco Compatible Extensions support for Microsoft Windows Vista.

<b>Broadcom 4311AG 802.11a/b/g Wi-Fi Adapter</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">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, EAP-SIM. Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program Version 4).	
	<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	
	<b>Output Power (for OFDM; power varies by data rate)<sup>2</sup></b>	15 dBm	
	<b>Power Consumption</b>	Transmit: 2.0 W (max) Receive: 1.5 W (max) Idle mode <sup>3</sup> : 390 mW (nominal) Sleep mode: 20 mW (max)	
	<b>Power Management</b>	ACPI compliant power management 802.11 compliant power saving mode	
	<b>Receiver Sensitivity<sup>4</sup></b>	54 Mbps: -72 dBm, 11 Mbps: -88 dBm , 1 Mbps: -97 dBm	
	<b>Antenna type</b>	High efficiency dual band antenna with spatial diversity, mounted in the display enclosure	
	<b>Range</b>	802.11 a - Typical (@6 Mbps)	600 feet - Outdoor Open Area 150 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>	PCI-Express MiniCard	
	<b>Weight</b>	0.026 lb (12 g)	

### Technical Specifications

<b>Dimensions</b>	0.19 x 1.2 x 2.0 in (4.75 x 29.85 x 50.8 mm)	
<b>Operating Voltage</b>	3.3v +/- 10%	
<b>Temperature</b>	Operating	32° to 176° F (0° to 80° C)
	Non-operating	-40° to 176° F (-40° to 80° C)
<b>Humidity</b>	Operating	10% to 90% (non-condensing)
	Non-operating	5% to 95% (non-condensing)
<b>Altitude</b>	Operating	0 to 10,000 ft (3,048 m)
	Non-operating	0 to 50,000 ft (15,240 m)
<b>Configuration Utility<sup>5</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>	
<b>LED Activity</b>	LED Off - Radio OFF; Solid LED On - Radio ON	
	<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. In Power Save Polling mode.</li> <li>4. 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>5. WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows 2000 or XP. WLAN may also be compatible with certain third-party software supplicants.</li> </ol>	

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<b>Broadcom 4312G 802.11b/g WiFi Adapter</b>	<b>Wireless LAN Standards</b>	IEEE 802.11b IEEE 802.11g
	<b>Interoperability</b>	Wi-Fi certified (802.11bg only) Cisco Compatible Extensions Program compliant (802.11abg only) with Microsoft Windows Vista and XP (details at: <a href="http://www.hp.com/go/notebooks/WLAN">http://www.hp.com/go/notebooks/WLAN</a> ) Tested with wireless access points from several major manufacturers (details at: <a href="http://www.hp.com/go/notebooks/WLAN/draft-n">http://www.hp.com/go/notebooks/WLAN/draft-n</a> )
	<b>Frequency Band</b>	2.4 GHz
	<b>Data Rates</b>	802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 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 Version 4) with Microsoft Windows Vista and XP only.
	<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 CKK)<sup>2</sup></b>	17 dBm

### Technical Specifications

<b>Output Power</b> (for OFDM; power varies by data rate) <sup>2</sup>	15 dBm	
<b>Power Consumption</b>	Idle associated: 250 mW Idle unassociated: 150 mW Transmit: 2.0 W (max) Receive: 2.0 W (max)	
<b>Power Management</b>	ACPI compliant power management 802.11 compliant power saving mode	
<b>Receiver Sensitivity</b> <sup>3</sup>	54 Mbps: -71 dBm, 11 Mbps: -85 dBm , 1 Mbps: -95 dBm	
<b>Antenna type</b>	High efficiency dual band antenna with spatial diversity, mounted in the display enclosure	
<b>Range</b>	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>	PCI-Express MiniCard	
<b>Weight</b>	0.026 lb (12 g)	
<b>Dimensions</b>	0.19 x 1.2 x 2.0 in (4.75 x 29.85 x 50.8 mm)	
<b>Operating Voltage</b>	3.3v +/- 10%	
<b>Temperature</b>	Operating	14° to 149° F (-10° to 65° C)
	Non-operating	-40° to 176° F (-40° to 80° C)
<b>Humidity</b>	Operating	10% to 90% (non-condensing)
	Non-operating	5% to 95% (non-condensing)
<b>Altitude</b>	Operating	0 to 10,000 ft (3,048 m)
	Non-operating	0 to 50,000 ft (15,240 m)
<b>Configuration Utility</b> <sup>4</sup>	Microsoft Windows XP 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> Microsoft Windows Vista <ul style="list-style-type: none"> <li>● Microsoft Windows Vista Wireless Network Connection Manager</li> <li>● Broadcom IHV extensions for Windows Vista available to support Cisco Compatible Extensions.</li> </ul>	
<b>LED Activity</b>	LED Off - Radio OFF; Solid LED On - Radio ON	
	<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 (CCK 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 with Microsoft Windows XP. WLAN may also be compatible with certain third-party software supplicants. WLAN supplier IHV extensions required for Cisco Compatible Extensions support for Microsoft Windows Vista.</li> </ol>	

#### HP Integrated Module with Bluetooth Wireless Technology

<b>Bluetooth Specification</b>	2.0 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>	3 Mbps data rate; throughput up to 2.17 Mbps Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric or 1306.9 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 2.0 compliant Microsoft Windows Plug and Play compliant
<b>OS Support</b>	Genuine Windows Vista Genuine Windows XP Genuine Windows 2000
<b>Bluetooth Software Supported</b>	Broadcom 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) Basic Imaging Profile (BIP)

### Technical Specifications

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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**Environmental Data****Eco-Label  
Certifications**

This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

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