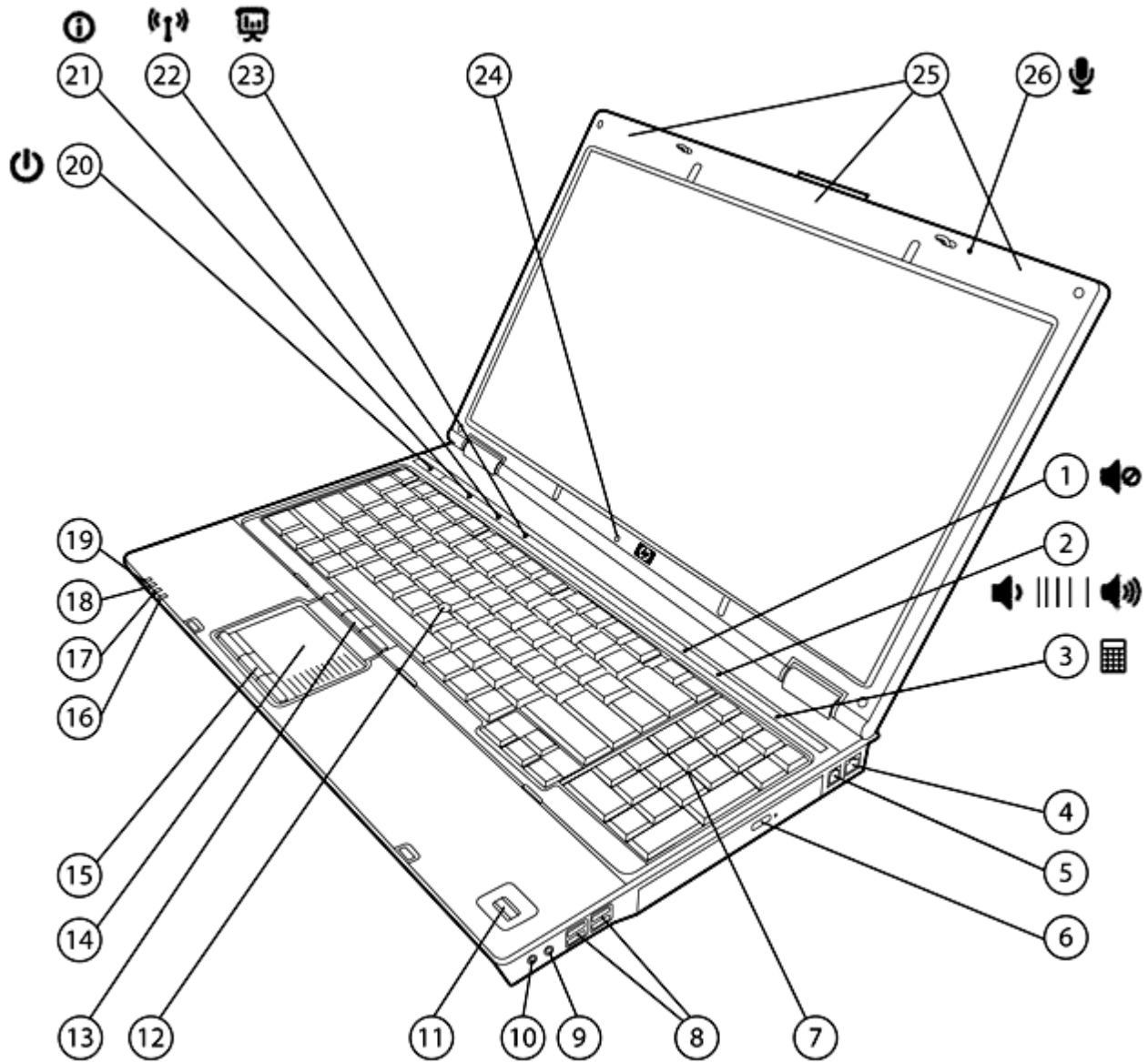


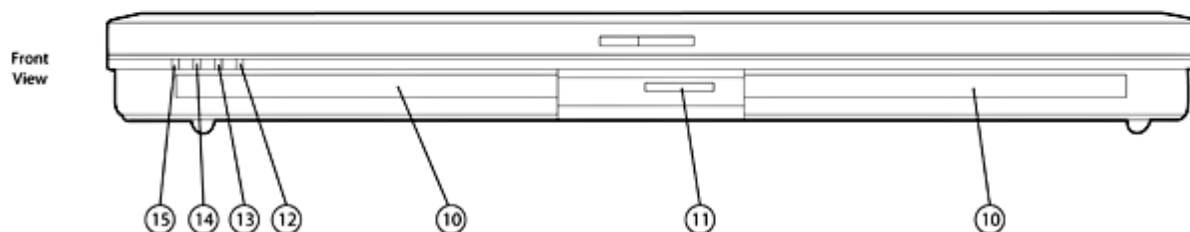
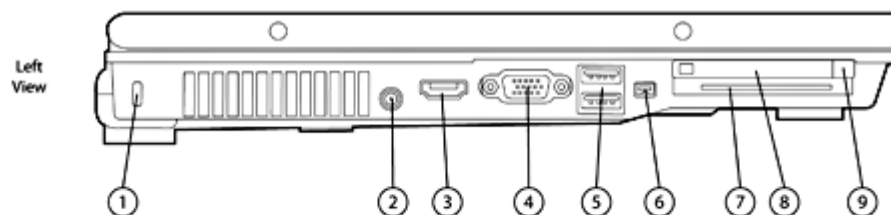
HP recommends Windows Vista® Business



- |   |  |
|---|--|
| 1. Volume mute button with LED indicator          | 14. Touchpad with scroll zone                                  |
| 2. Volume scroll zone with up/down LED indicators | 15. Touchpad buttons, three                                    |
| 3. Calculator button                              | 16. Hard drive / optical drive activity / HP 3D DriveGuard LED |
| 4. RJ-45/Ethernet port                            | 17. Battery charging LED                                       |
| 5. RJ-11/modem port                               | 18. Power/standby LED  |
| 6. Optical drive                                  | 19. Wireless on/off LED  |
| 7. Full numeric keypad                            | 20. Power button with LED                                      |
| 8. 4 USB 2.0 ports                                | 21. HP Info / HP QuickLook button with LED indicator           |
| 9. Stereo microphone in                           | 22. Wireless on/off button with LED indicator                  |
| 10. Stereo headphone/line out                     | 23. HP Presentation button with LED indicator                  |

### Overview

- |                               |  |
|-------------------------------|--|
| 11. HP Fingerprint Sensor     | 24. Ambient Light Sensor                   |
| 12. Pointstick                | 25. Three WLAN antennas (with WLAN option) |
| 13. Pointstick buttons, three | 26. Integrated microphone                  |



- |                                   |  |
|-----------------------------------|--|
| 1. Kensington Lock slot           | 9. PC Card eject button                        |
| 2. Power connector                | 10. Integrated stereo speakers                 |
| 3. HDMI port                      | 11. Media Card Reader                          |
| 4. VGA/external monitor connector | 12. Hard drive activity / HP 3D DriveGuard LED |
| 5. 2 USB 2.0 ports                | 13. Battery charging LED                       |
| 6. 1394a port                     | 14. Power/standby LED                          |
| 7. Integrated Smart Card Reader   | 15. Wireless on/off LED                        |
| 8. Type I/II PC Card slot         |  |

### Overview

#### At A Glance

- Genuine Windows Vista Business\*, Genuine Windows XP Professional, or FreeDOS
- NVIDIA Quadro FX 1600M graphics with up to 512 MB dedicated memory
- DirectX 10 support and Dual Link DVI (available through optional docking) provides faster rendering capabilities and support for ultra-high resolution monitors
- Intel® Centrino® Pro processor technology capable, with Intel Core™ 2 Duo processors
- HDMI high definition video/audio port
- Optional Blu-Ray DVD+/-RW SuperMulti DL Drive
- Designed to travel, with weight starting at 7.5 lb and 1.3-inch thin at front
- Widescreen 17.0-inch diagonal display with wide-viewing angle (select models), BrightView (select models), Ambient Light Sensor and HP Privacy Filter support
- Integrated Media Card Reader
- Full-sized keyboard with separate numeric keypad
- Enhanced reliability with HP DuraKeys, HP DuraFinish, and magnesium alloy support structures
- Enhanced security features including integrated Smart Card Reader, Drive Encryption for HP ProtectTools, HP Fingerprint Sensor, TPM 1.2
- HP QuickLook on Windows Vista models for instant access to email, calendar, and contact information
- Flexible wireless connectivity options:
  - Integrated 802.11 a/b/g/draft-n, a/b/g, or b/g wireless LAN module
  - Bluetooth®
- Up to 160-GB 5400 rpm or 100-GB 7200 rpm user-removable hard drive with HP 3D DriveGuard protection
- Touch-sensitive controls for HP Info Center, HP QuickLook, wireless on/off, HP Presentation button, volume up, volume down, and mute
- Up to 4GB of 667-MHz DDR2 SDRAM, dual channel memory support
- Integrated Intel Gigabit Network Connection (10/100/1000 NIC)
- Enhanced dual pointing devices (touchpad with scroll zone and pointstick)

\* At initial boot, either 32- or 64-bit can be selected. This is a one time selection and the other version will be deleted.

### Standard Features

<b>Processors</b>	Intel Core 2 Duo Processor T7700 (2.40-GHz, 800-MHz FSB, 4-MB L2 cache)* Intel Core 2 Duo Processor T7500 (2.20-GHz, 800-MHz FSB, 4-MB L2 cache)* Intel Core 2 Duo Processor T7300 (2.00-GHz, 800-MHz FSB, 4-MB L2 cache)* Intel Core 2 Duo Processor T7100 (1.80-GHz, 800-MHz FSB, 2-MB L2 cache)* * Intel's numbering is not a measurement of higher performance. <b>NOTE:</b> Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
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<b>Operating System</b>	<b>Preinstalled</b>	Genuine Windows Vista Business <sup>†</sup> * Genuine Windows XP Professional FreeDOS
	<b>Supported</b>	Genuine Windows Vista Enterprise* Genuine Windows 2000
	<b>Certified</b>	SuSE Linux Enterprise Desktop 10

<sup>†</sup> At initial boot, either 32- or 64-bit can be selected. This is a one time selection and the other version will be deleted.  
\* Certain Windows Vista product features require advanced or additional hardware. See <http://www.microsoft.com/windowsvista/getready/hardwarereqs.mspx> and <http://www.microsoft.com/windowsvista/getready/capable.mspx> 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 <http://www.windowsvista.com/upgradeadvisor>.

<b>Chipset</b>	Mobile Intel PM965 with 800-MHz front side bus
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<b>Intel Centrino Pro processor technology capable</b>	Intel Centrino Pro processor technology is a selectable feature that is available on units configured with an Intel Wireless WiFi Link 4965AGN or 4965AG. It provides advances in remote manageability, security, energy efficient performance, and wireless connectivity. Intel Active Management Technology (AMT) offers built-in manageability and proactive security for networked notebook PCs, even when they are powered off* or when the operating system is inoperable. It can help identify threats before they reach the operating system, isolate infected systems, and update PCs regardless of their power state. *Requires a Windows operating system, network hardware and software, connection with a power source, and a direct (non-VPN) corporate network connection which is either cable or wireless LAN. <b>NOTE:</b> Some functionality of Intel Centrino Pro, such as Intel AMT and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications for Centrino Pro processor technology is dependant on 3rd party software providers. Compatibility of this generation of Centrino Pro technology-based hardware with future "virtual appliances" and Microsoft Windows Vista operating system is to be determined.
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<b>Graphics</b>	NVIDIA Quadro FX 1600M graphics with 512 MB dedicated video memory Microsoft DirectX 10 support
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### Standard Features

Display	Internal	<p>17.0-inch diagonal WSXGA+ anti-glare wide-viewing angle (1680 x 1050 resolution)</p> <p>17.0-inch diagonal WSXGA+ wide-viewing angle BrightView (1680 x 1050 resolution)</p> <p>17.0-inch diagonal WUXGA wide-viewing angle anti-glare (1920 x 1200 resolution)</p> <p>Ambient light sensor</p> <p>Integrated lid switch</p> <p>HP Privacy Filter support</p>
	External	<p>Up to 32-bit per pixel color depth</p> <p>VGA port supports resolutions up to 2048 x 1536 at 75 Hz, and lower resolutions at up to 100 Hz</p> <p>HDMI 1.2 port supports direct connection to high-definition displays with up to 1920 x 1080 resolution and 7-channel audio with one convenient cable (not included).</p> <p>DVI port in optional HP Docking Station (sold separately) supports resolutions up to 1920 x 1200 for single-link DVI monitors and up to 2560 x 1600 for dual-link DVI monitors.</p> <p><b>NOTE:</b> Resolutions are dependent upon monitor capability, and resolution and color depth settings.</p>

Memory	Standard	1024-MB, 2048-MB, or 4096-MB 667-MHz DDR2 SDRAM; two SODIMM slots supporting dual channel memory
	Maximum Dual-channel	<p>Upgradeable to 4096-MB with 2048-MB SODIMM in slots 1 and 2</p> <p>Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory slots.</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. If you mix memory speeds, the system will perform at the lower memory speed. Above 3-GB, all memory may not be available due to system resource requirements.</p>

Communications	<p>Integrated Intel Gigabit Network Connection (10/100/1000 NIC)*</p> <p>56K V.92 modem**</p> <p>* 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.</p> <p>** 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.</p>
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### Standard Features

#### Wireless Devices

Support for a broad range of secure, integrated wireless LAN options featuring support for the latest industry standards. Wireless LAN is factory configurable or available as an option to be added later. Integrated Bluetooth is also available (factory configurable only) and can be combined with any of the supported wireless LAN options.

<b>All 802.11a/b/g integrated wireless LAN options</b>	Wi-Fi certified Cisco Compatible Extensions support (Version 4.0) with Microsoft Windows XP 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 Three antennas integrated in the display enclosure
<b>Intel Wireless WiFi Link 4965AGN</b>	Integrated support for 802.11a, b, g, and draft-n Up to 300-mbps data rate
<b>Intel Wireless WiFi Link 4965AG</b>	Integrated support for 802.11a, b and g Up to 54-mbps data rate
<b>Broadcom 4311AG 802.11a/b/g WiFi Adapter</b>	Integrated support for 802.11a, b and g Up to 54-mbps data rate
<b>HP Integrated Module with Bluetooth Wireless Technology</b>	Bluetooth Specification v2.0 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 a full numeric keypad, hotkeys for instant access to power conservation, brightness, and other features, 19.05-mm x 19.05-mm key pitch (center-to-center spacing), 3.0-mm stroke, and comfort-dished keycaps.

HP DuraKeys is a clear coating applied over the notebook keyboard that helps protect the finish and the printed characters on the keys.

HP DuraFinish helps protect the finish on the keyboard deck, graphics, and icons from normal wear and tear.

#### Touch-sensitive controls

Touch-sensitive controls provide easy access to the following features: HP Info Center, HP QuickLook, wireless on/off, HP Presentation button, volume up, volume down, mute, and calculator button

#### Pointing device

Enhanced dual pointing devices (touchpad with scroll zone and pointstick, both with three pick buttons)

### Standard Features

Expansion card slots	1 Type I/II PC Card slot	Supports 32-bit CardBus and 16-bit PC Cards
	Integrated Smart Card Reader	Compatible with ISO 7816 compliant Smart Cards PC/SC interface support
	Secure Digital slot	Supports SD (Secure Digital), MMC (MultiMedia Card), Memory Stick, Memory Stick Pro, Memory Stick Duo*, xD-Picture card

\* Memory Stick Duo Adapters are required and sold separately. Inserting a Memory Stick Duo Card directly into your notebook could damage the memory card and/or notebook.

Storage	Hard drives	120/160-GB 5400 rpm SMART SATA 80/100-GB 7200 rpm SMART SATA
	<p><b>NOTE:</b> These hard drives are customer removable and will withstand multiple insertion/removal cycles. Up to 10 GB is reserved for the system recovery software.</p>	
	HP 3D DriveGuard	The hard drive is mounted directly 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.
	Optical drives	DVD-ROM Drive DVD/CD-RW Combo Drive DVD+/-RW SuperMulti DL Drive DVD+/-RW SuperMulti DL LightScribe Drive Blu-Ray Disc DVD+/-RW SuperMulti DL Drive
	<p><b>NOTE:</b> Optical drive is user replacable with HP option. Requires single screw removal.</p>	

Interfaces	PC Card slot	One Type I/II PC Card slot
	Smart Card Reader	One
	Media Card Reader	One
	External monitor	One – VGA
	1394a	One – 4-pin connector
	Stereo microphone in	One
	Stereo headphone/line out	One
	Power connector	One
	RJ-11/modem	One
	RJ-45/Ethernet	One
	HDMI	One – 1.2 compliant
	USB 2.0	Six
	Docking connector	One
	Secondary battery connector	One
	LED status indicators	Sixteen

### Standard Features

<b>Audio</b>	High Definition Audio support w/24-bit DAC Integrated stereo speakers Integrated microphone Touch-sensitive controls for volume up, volume down, and mute Stereo headphone/line out Stereo microphone in
<b>Software</b>	<b>Preinstalled software with Windows Vista or Windows XP</b> PDF Complete HP Backup and Recovery Manager HP Help and Support Center HP QuickLook (Windows Vista only) HP OpenView Radia Management Agent HP Performance Tuning Framework HP Universal Print Driver HP ProtectTools Security Manager: BIOS Configuration for HP ProtectTools Credential Manager for HP ProtectTools Device Access Manager for HP ProtectTools Drive Encryption for HP ProtectTools Embedded Security for HP ProtectTools HP Quick Launch Buttons HP Wireless Assistant Microsoft Office Ready with 60-day Office Professional 2007 Trial Edition (select models) Roxio Creator 9 (for optional DVD+/-RW and DVD/CDRW drives) Synaptics Touchpad Driver Symantec Norton Internet Security with complimentary 60-day live update Intervideo WinDVD – DVD/Blu-Ray Disc Player <b>Software provided on disc</b> Roxio Creator 9 (for optional Blu-Ray Disc drives) <b>Additional software available from the web</b> HP Client Manager Java Card Security for HP ProtectTools
<b>Workstation ISV Certifications</b>	<b>MCAD</b> (Mechanical CAD/Architectural Engineering and Construction) AutoDesk AutoCAD AutoDesk Inventor AutoDesk Revit Bentley Microstation Dassault Catia V5 UGS I-DEAS NX 10 UGS I-DEAS NX 11 UGS/PLM Unigraphics NX, NX2, NX3 PTC Pro/E 2001 Mechanica PTC Pro/E Wildfire Mechanica MSC.Patran UGS Solidedge Solidworks ICEM Surf CoCreate OneSpace Designer SensAble PTC DV Mockup

### Standard Features

<b>DCC</b> (Digital Content Creation)	Discreet 3DS MAX/Combustion Alias Maya Alias Studio Tools Avid SoftImage XSI/3D Avid Express Pro Adobe Premiere/After Effects
<b>GIS</b> (Geographic Information Systems)	ESRI ArcGIS 9
<b>Oil and Gas</b>	SMT Landmark/GeoGrpahix EDS Roxar Schlumberger/Petrel

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**HP Performance Tuning Framework** HP Performance Tuning Framework (PTF) enables optimal configuration of HP Mobile Workstations delivering stability and best performance. HP PTF will guide your system setup allowing a "custom" configuration that best matches the workstation to user requirements.

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**HP Backup and Recovery Manager** Each unit is shipped with HP Backup and Recovery Manager. HP Backup and Recovery Manager can provide data and system file protection for HP business PCs to enable fast recovery if the system becomes corrupted or if important information is accidentally deleted. HP Backup and Recovery Manager can perform scheduled or manual backups of the entire drive or individual files and folders. Up to 10 GB of the hard drive is reserved for the system recovery software. HP Backup and Recovery Manager can also create software recovery CDs or DVDs (requires optional CD-RW or DVD+/-RW hardware).

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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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**HP ProtectTools Security Manager** 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:

- BIOS Configuration for HP ProtectTools
- Credential Manager for HP ProtectTools
- Device Access Manager for HP ProtectTools
- Drive Encryption for HP ProtectTools
- Embedded Security for HP ProtectTools
- Java Card Security for HP ProtectTools

### Standard Features

<b>Security</b>	<b>Standard Features</b>	<ul style="list-style-type: none"> <li>HP ProtectTools Security Manager</li> <li>HP Fingerprint Sensor</li> <li>Integrated Smart Card Reader</li> <li>Configuration Control Hardware</li> <li>Memory Change Alert</li> <li>Ownership Tag</li> <li>Setup Password</li> <li>Power-On Password</li> <li>TPM 1.2 Embedded Security Chip*</li> <li>TPM Enhanced DriveLock*</li> <li>HP Disk Sanitizer</li> <li>HP 3D DriveGuard</li> <li>Kensington Lock Slot</li> <li>Support for Computrace / LoJack for Laptops (must be purchased separately)</li> </ul>
	<b>Optional Features</b>	<ul style="list-style-type: none"> <li>HP Privacy Filter</li> </ul> <p>Narrows viewing area so that screen data is visible only to persons directly in front of the monitor</p>

\* TPM module disabled where use is restricted by law; for example, Russia and China.  
 For more information on HP security solutions refer to <http://www.hp.com/go/security>.

<b>Power Supply</b>	<p>External 120-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*</p>
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\*HP Fast Charge recharges your battery up to 90% within 90 minutes when the system is off. HP Fast Charge does not apply to 12-cell Ultra-Capacity batteries.

<b>Battery</b>	<b>Primary battery</b>	8-cell (73 WHr) Lithium-Ion battery
	<b>Optional HP Extended Life Battery</b>	8-cell (52 WHr) high capacity Lithium-Ion battery
	<b>Optional HP Ultra-Capacity Battery</b>	12-cell (95 WHr) high capacity Lithium-Ion battery

<b>Battery Life</b>	<b>Primary battery</b>	Up to 4 hours
	<b>Primary battery and optional HP Extended Life Battery</b>	Up to 7 hours
	<b>Primary battery and optional HP Ultra-Capacity Battery</b>	Up to 9 hours

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

<b>System Standby Time</b>	Up to 2 weeks
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### Standard Features

<b>Power Conservation</b>	NVIDIA PowerMizer 7.0 technology Hibernation Standby ACPI compliance
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<b>Docking and Stands</b>	HP 3-in-1 NAS Docking Station HP Advanced Docking Station HP Docking Station HP Standard Monitor Stand HP Adjustable Notebook Stand HP External MultiBay II
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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, composite video, Dual Link DVI-D, 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.

\* HP/Kensington Cable Lock required (purchased separately)

\*\* HP 3-in-1 NAS Docking Station and HP Advanced Docking Station only

<b>Service and Support</b>	HP Services offers limited 3- year, onsite warranty; 1-year limited warranty on primary battery. Warranty upgrades are also available. For HP Care Pack services see <a href="http://www.hp.com/go/lookuptool">http://www.hp.com/go/lookuptool</a> . <b>NOTE:</b> Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details. <a href="http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp">http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp</a> .
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### Select Model(s)

<b>8710w</b> RM262UT#ABA Smart Buy	<b>Processor</b>	Intel Core 2 Duo Processor T7300 (2.00-GHz, 800-MHz FSB, 4-MB L2 cache)*
	<b>Operating System</b>	Genuine Windows Vista Business**
	<b>System Memory</b>	2048-MB 667-MHz DDR2 SDRAM (1 DIMM)
	<b>Hard Drive</b>	80-GB 7200 rpm SATA HDD
	<b>Display</b>	17.0-inch diagonal WSXGA+ anti-glare wide-viewing angle (1680 x 1050 resolution)
	<b>Graphics</b>	NVIDIA Quadro FX 1600M graphics with 512 MB dedicated video memory
	<b>Audio</b>	High Definition Audio w/24-bit DAC line out/headphone and microphone jacks integrated microphone
	<b>Communications</b>	56K Modem Integrated Intel Gigabit Network Connection (10/100/1000 NIC)
	<b>Integrated Wireless</b>	Intel Wireless WiFi Link 4965AG
	<b>Integrated Security</b>	TPM 1.2 Embedded Security Chip HP Fingerprint Sensor
	<b>Pointing Device</b>	Touchpad with scroll zone and pointstick, both with three pick buttons
	<b>Optical Drive</b>	DVD+/-RW SuperMulti DL LightScribe Drive
	<b>Battery</b>	8-cell (73 WHr) Lithium-Ion
<b>Power</b>	External 120-watt Smart AC adapter	

### Standard Features

Warranty 3/3/3

8710w  
RM263UA#ABA  
Regional

<b>Processor</b>	Intel Core 2 Duo Processor T7700 (2.40-GHz, 800-MHz FSB, 4-MB L2 cache)*
<b>Operating System</b>	Genuine Windows Vista Business 32/64**
<b>Intel Centrino Pro processor technology</b>	Enabled
<b>System Memory</b>	2048-MB 667-MHz DDR2 SDRAM (1 DIMM)
<b>Hard Drive</b>	120-GB 7200 rpm SATA HDD
<b>Display</b>	17.0-inch diagonal WUXGA wide-viewing angle anti-glare (1920 x 1200 resolution)
<b>Graphics</b>	NVIDIA Quadro FX 1600M graphics with 512 MB dedicated video memory
<b>Audio</b>	High Definition Audio w/24-bit DAC line out/headphone and microphone jacks integrated microphone
<b>Communications</b>	56K Modem Integrated Intel Gigabit Network Connection (10/100/1000 NIC)
<b>Integrated Wireless</b>	Intel Wireless WiFi Link 4965AGN HP Integrated Module with Bluetooth Wireless Technology
<b>Integrated Security</b>	TPM 1.2 Embedded Security Chip HP Fingerprint Sensor
<b>Pointing Device</b>	Touchpad with scroll zone and pointstick, both with three pick buttons
<b>Optical Drive</b>	Blu-Ray Disc DVD +/-RW SuperMulti DL Drive
<b>Battery</b>	8-cell (73 WHr) Lithium-Ion
<b>Power</b>	External 120-watt Smart AC adapter
<b>Warranty</b>	3/3/3

8710w  
RM264UT#ABA  
Smart Buy

<b>Processor</b>	Intel Core 2 Duo Processor T7500 (2.20-GHz, 800-MHz FSB, 4-MB L2 cache)*
<b>Operating System</b>	Genuine Windows Vista Business**
<b>System Memory</b>	2048-MB 667-MHz DDR2 SDRAM (1 DIMM)
<b>Hard Drive</b>	120-GB 7200 rpm SATA HDD
<b>Display</b>	17.0-inch diagonal WSXGA+ anti-glare wide-viewing angle (1680 x 1050 resolution)
<b>Graphics</b>	NVIDIA Quadro FX 1600M graphics with 512 MB dedicated video memory
<b>Audio</b>	High Definition Audio w/24-bit DAC line out/headphone and microphone jacks integrated microphone
<b>Communications</b>	56K Modem Integrated Intel Gigabit Network Connection (10/100/1000 NIC)
<b>Integrated Wireless</b>	Intel Wireless WiFi Link 4965AG HP Integrated Module with Bluetooth Wireless Technology
<b>Integrated Security</b>	TPM 1.2 Embedded Security Chip HP Fingerprint Sensor
<b>Pointing Device</b>	Touchpad with scroll zone and pointstick, both with three pick buttons
<b>Optical Drive</b>	DVD +/-RW SuperMulti DL LightScribe Drive
<b>Battery</b>	8-cell (73 WHr) Lithium-Ion
<b>Power</b>	External 120-watt Smart AC adapter
<b>Warranty</b>	3/3/3

### Standard Features

<b>8710w</b> RM285UA#ABA	<b>Processor</b>	Intel Core 2 Duo Processor T7700 (2.40-GHz, 800-MHz FSB, 4-MB L2 cache)*
	<b>Operating System</b>	Genuine Windows Vista Business**
	<b>Intel Centrino Pro processor technology</b>	Enabled
	<b>System Memory</b>	2048-MB 667-MHz DDR2 SDRAM (1 DIMM)
	<b>Hard Drive</b>	120-GB 7200 rpm SATA HDD
	<b>Display</b>	17.0-inch diagonal WUXGA wide-viewing angle anti-glare (1920 x 1200 resolution)
	<b>Graphics</b>	NVIDIA Quadro FX 1600M graphics with 512 MB dedicated video memory
	<b>Audio</b>	High Definition Audio w/24-bit DAC line out/headphone and microphone jacks integrated microphone
	<b>Communications</b>	56K Modem Integrated Intel Gigabit Network Connection (10/100/1000 NIC)
	<b>Integrated Wireless</b>	Intel Wireless WiFi Link 4965AGN HP Integrated Module with Bluetooth Wireless Technology
	<b>Integrated Security</b>	TPM 1.2 Embedded Security Chip HP Fingerprint Sensor
	<b>Pointing Device</b>	Touchpad with scroll zone and pointstick, both with three pick buttons
	<b>Optical Drive</b>	DVD+/-RW SuperMulti DL LightScribe Drive
	<b>Battery</b>	8-cell (73 WHr) Lithium-Ion
<b>Power</b>	External 120-watt Smart AC adapter	
<b>Warranty</b>	3/3/3	

<b>8710w</b> RM265UT#ABA Smart Buy	<b>Processor</b>	Intel Core 2 Duo Processor T7500 (2.20-GHz, 800-MHz FSB, 4-MB L2 cache)*
	<b>Operating System</b>	Genuine Windows Vista Business**
	<b>Intel Centrino Pro processor technology</b>	Enabled
	<b>System Memory</b>	2048-MB 667-MHz DDR2 SDRAM (1 DIMM)
	<b>Hard Drive</b>	120-GB 7200 rpm SATA HDD
	<b>Display</b>	17.0-inch diagonal WUXGA wide-viewing angle anti-glare (1920 x 1200 resolution)
	<b>Graphics</b>	NVIDIA Quadro FX 1600M graphics with 512 MB dedicated video memory
	<b>Audio</b>	High Definition Audio w/24-bit DAC line out/headphone and microphone jacks integrated microphone
	<b>Communications</b>	56K Modem Integrated Intel Gigabit Network Connection (10/100/1000 NIC)
	<b>Integrated Wireless</b>	Intel Wireless WiFi Link 4965AGN HP Integrated Module with Bluetooth Wireless Technology
	<b>Integrated Security</b>	TPM 1.2 Embedded Security Chip HP Fingerprint Sensor
	<b>Pointing Device</b>	Touchpad with scroll zone and pointstick, both with three pick buttons
	<b>Optical Drive</b>	Blu-Ray Disc DVD+/-RW SuperMulti DL Drive
	<b>Battery</b>	8-cell (73 WHr) Lithium-Ion
<b>Power</b>	External 120-watt Smart AC adapter	

## Standard Features

Warranty

3/3/3

\* Intel's numbering system is not a measurement of higher performance.

\*\* At initial boot, either 32- or 64-bit can be selected. This is a one time selection and the other version will be deleted.

### 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
<b>MultiBay II Storage</b> (9.5-mm) <b>NOTE:</b> Requires HP 3-in-1 NAS Docking Station, HP Advanced Docking Station, or HP External MultiBay II	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>Other Storage</b>	HP 80-GB 5400rpm Primary SATA Hard Drive	ET354AA
	HP 120-GB 5400rpm Primary SATA Hard Drive	RT080AA
	DVD+/-RW SuperMulti DL LightScribe Drive	ET353AA
	HP Notebooks USB Diskette Drive	DC361B
<b>Communications</b>	Intel Wireless WiFi Link 4965AGN option kit	RT081AA#ABA
<b>Expansion Solutions</b>	HP Docking Station with Smart Adapter	EN488AA#ABA
	HP Advanced Docking Station with Smart Adapter	EN489AA#ABA
	HP 3-in1 NAS Docking Station with Smart Adapter	EM537AA#ABA
	HP Standard Monitor Stand	PA507A
	HP Adjustable Notebook Stand	PA508A
	HP External MultiBay II	PA509A#ABA
<b>Power</b>	HP 2-Bay Battery Charging Station (North America)	DT533A#ABA
	HP 10-Bay Battery Charging Station (North America)	DT534A#ABA
	HP Battery Adapter Kit	PK402A
	HP 135W Smart AC Adapter	ED519AA#ABA
	HP 90W Smart AC Adapter	ED495AA#ABA
	HP 90W Smart Auto Adapter	ED493AA
	HP 65W AC/Auto/Air Combo Smart Adapter	ED993AA#ABA
	HP 8-Cell Li-Ion Primary Battery	PB992A
	HP 8-cell Extended Life Battery	PB993A
HP 12-cell Ultra-Capacity Battery	EJ092AA	

### Options

<b>Carrying Cases</b>	HP Value Nylon Case	RR314AA
	HP Universal Nylon Case	RR315AA
	HP Executive Leather Case	RR316AA
	HP Deluxe Nylon Backpack	RR317AA
	HP Universal Messenger Bag	GD404AA
	HP Deluxe Roller Case	GD405AA

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<b>Security</b>	HP PC Card Smart Card Reader with Java Card	EL347AA
	HP ProtectTools Java Card – 10 units	EL348AA
	HP/Kensington MicroSaver Security Lock	PC766A

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<b>Input/Output Devices</b>	HP PS/2 Keyboard & Mouse Bundle*	RC464AA#ABA
	HP USB Keyboard & Mouse Bundle	RC465AA#ABA
	HP USB/PS2 Optical 2-Button Scroll Mouse	DC369A
	HP USB Optical Travel Mouse	F2100A
	HP Bluetooth PC Card Mouse	RJ316AA

\* Requires [HP Docking Station](#), [HP Advanced Docking Station](#), or [HP 3-in-1 NAS Docking Station](#)

### Memory

667-MHz DDR2 SDRAM

Two DIMM slots supporting dual channel memory

DIMM sizes supported: 1024 MB, 2048 MB

#### Standard Memory

- 1024 MB (1024 MB x 1)
- 2048 MB (2048 MB x 1 or 1024 MB x 2)
- 4096 MB (2048 MB x 2)

#### Optional Memory Upgrades

Support for up to 4096 MB of memory with the installation of optional DDR2 SDRAM memory kits. Both memory slots are user accessible. Please refer to the Hardware and Software Guide for installation procedures. Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory slots.

Up to	Slot 1	Slot 2
1024 MB	1024 MB	Empty
2048 MB	1024 MB	1024 MB
4096 MB	2048 MB	2048 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. Above 3-GB, all memory may not be available due to system resource requirements.

#### Memory Upgrades

HP 512-MB (DDR2 667 MHz) SODIMM	EM993AA
HP 1024-MB (DDR2 667 MHz) SODIMM	EM994AA
HP 2048-MB (DDR2 667 MHz) SODIMM	EM995AA

### Storage

#### Optical Drive Support

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	Quantity Supported	Drive Bay
DVD-ROM Drive	One	Fixed optical drive bay
DVD/CD-RW Combo Drive	One	Fixed optical drive bay
DVD+/-RW SuperMulti DL Drive	One	Fixed optical drive bay
DVD+/-RW SuperMulti DL LightScribe Drive	One	Fixed optical drive bay
Blu-Ray Disc DVD+/-RW SuperMulti DL Drive	One	Fixed optical drive bay

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#### Hard Drive Support

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	Quantity Supported	Drive Bay
<b>Primary Hard Drives</b>		
160-GB 5400 rpm SMART SATA Hard Drive	One	Dedicated hard drive bay
120-GB 5400 rpm SMART SATA Hard Drive	One	Dedicated hard drive bay
100-GB 7200 rpm SMART SATA Hard Drive	One	Dedicated hard drive bay
80-GB 7200 rpm SMART SATA Hard Drive	One	Dedicated hard drive bay

### Technical Specifications

<b>System Unit</b>	<b>Dimensions (HxWxD)</b>	1.3 in (at front) x 15.5 in x 10.8 in
	<b>Weight</b>	Starting from 7.5 lb
	<b>NOTE:</b> Height varies depending upon where on the notebook the measurement is made. Starting weight includes 8-cell battery, hard drive, 512-MB memory, 802.11 wireless communications module, Bluetooth, and optical drive. Weight varies by configuration and components.	
	<b>Stand-Alone Power Requirements (AC Power)</b>	Nominal Operating Voltage 18.5 V
		Average Operating Power 12.5 W
		Max Operating Power < 120 W
	<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>	UL Yes
		CSA Yes
		FCC Compliance Yes
		ICES Yes
		GS Yes
		Australia / NZ A-Tick Compliance Yes
		CCC Yes
		Japan VCCI Compliance Yes
		MIC Yes
		BSMI Yes
		CE Marking Compliance Yes
		BNCI or BELLIS Yes
		CIT Yes
		GOST Yes
		Saudi Arabian Compliance (ICCP) Yes
		SABS Yes
		UKRSERTCOMPUTER Yes

For accessibility information on HP products, please visit <http://www.hp.com/accessibility>.

### Technical Specifications

HP 120W Smart AC Adapter	Weight	1.52 lb (0.69 kg) (adapter) 0.29 lb (0.13 kg) (power cord)	
	Dimensions	6.65 x 2.56 x 1.50 in (16.9 x 6.5 x 3.8 cm)	
	Input	Operating Input Voltage	100 to 240 VAC
		Operating Input Current	PFC Version: 2.20 A at 90 VAC 1.10 A at 180 VAC
			Non-PFC Version: 2.5 A at 110 VAC 1.25 A at 180 VAC
	Output	Operating Frequency Range	47 to 63 Hz AC
		Efficiency	83% minimum at 115 VAC
		Output power	120 W
		DC Output Voltage	18.5 V
	Environmental Design	Operating Temperature	32° to 104° F (0° to 35° 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%
EMI and Safety Certifications	Storage Humidity	10% to 90%	
	CE Mark: full compliance with LVD and EMC directives		
	Worldwide safety standards: IEC60950, EN60950, UL60950, Class2, SELV Agency approvals: C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE, S-Mark, Australian Electric Permit, PSB, eK, BSMI, BNCI, KONCAR, GS, GOST, SASO, SABS, UKRSERTCOMPUTER		
MTBF	<b>NOTE:</b> Approvals in italics apply to PFC version only.		
	Over 200,000 hours at 25°C ambient condition		

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Optional HP Ultra-Capacity Battery	Dimensions (H x W x L)	1.3 x 6.0 x 10.6 in (3.33 x 15.25 x 26.88 cm)		
	Weight	1.77 lb (0.803 kg)		
	Cells/Type	12-cell Lithium-Ion		
	Energy	Watt-hour Capacity	95Wh	
		Temperature	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)	
	Battery Re-Charge Time	Smart Adapter	3 to 4 hours	
System ON		4 to 5 hours (depending on system power consumption)		
Fuel Gauge	When pressed, LEDs light indicating level of charge remaining on battery			

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### Technical Specifications

<b>Optional HP Extended Life 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>	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)
		HP Fast Charge	Charges the battery up to 90% within 90 minutes when system is OFF
	<b>Fuel Gauge</b>	When pressed, LEDs light indicating level of charge remaining on battery	

<b>8-Cell (73WHr) Lithium-Ion battery</b>	<b>Dimensions (H x W x L)</b>	0.8 x 1.9 x 10.6 in (2.0 x 4.8 x 27.0 cm)	
	<b>Weight</b>	0.980 lb (0.445 kg)	
	<b>Cells/Type</b>	8-cell Lithium-Ion	
	<b>Energy</b>	Watt-hour Capacity	73Wh
	<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	Charges the battery up to 90% within 1.5 hours when system is OFF

<b>17.0-inch WXGA+ anti-glare</b>	<b>Active Area (W x H)</b>	14.5 x 9.0 in (36.7 x 22.9 cm)		
	<b>Diagonal Size</b>	17.0 in (43.2 cm)		
	<b>Surface Treatment</b>	Anti-glare		
	<b>Contrast Ratio</b>	300:1 typical		
	<b>Refresh Rate</b>	60 Hz		
	<b>Brightness</b>	200 nit typical		
	<b>Pixel Resolution</b>	<b>Pitch</b>	0.255 mm	
		<b>Format</b>	1440 x 900	
		<b>Configuration</b>	RGB Stripe	
	<b>Backlight</b>	CCFL		
	<b>PPI</b>	100		
	<b>Viewing Angle</b>	±30° Horizontal, ±10° Vertical (minimum)		

### Technical Specifications

17.0-inch WSXGA+ wide-viewing angle, anti-glare	Active Area (W x H)	14.5 x 9.0 in (36.7 x 22.9 cm)
	Diagonal Size	17.0 in (43.2 cm)
	Surface Treatment	Anti-glare
	Contrast Ratio	300:1 typical
	Refresh Rate	60 Hz
	Brightness	200 nit typical
	Pixel Resolution	<b>Pitch</b> 0.219 mm
		<b>Format</b> 1680 x 1050
		<b>Configuration</b> RGB Stripe
	Backlight	CCFL
	PPI	116
Viewing Angle	±60° Horizontal, ±50° Vertical (minimum)	

17.0-inch WSXGA+ wide-viewing angle BrightView	Active Area (W x H)	14.5 x 9.0 in (36.7 x 22.9 cm)
	Diagonal Size	17.0 in (43.2 cm)
	Surface Treatment	BrightView
	Contrast Ratio	300:1 typical
	Refresh Rate	60 Hz
	Brightness	200 nit typical
	Pixel Resolution	<b>Pitch</b> 0.219 mm
		<b>Format</b> 1680 x 1050
		<b>Configuration</b> RGB Stripe
	Backlight	CCFL
	PPI	116
Viewing Angle	±60° Horizontal, ±50° Vertical (minimum)	

17.0-inch WUXGA wide-viewing angle, anti-glare	Active Area (W x H)	14.5 x 9.0 in (36.7 x 22.9 cm)
	Diagonal Size	17.0 in (43.2 cm)
	Surface Treatment	Anti-glare
	Contrast Ratio	300:1 typical
	Refresh Rate	60 Hz
	Brightness	200 nit typical
	Pixel Resolution	<b>Pitch</b> 0.191 mm
		<b>Format</b> 1920 x 1200
		<b>Configuration</b> RGB Stripe
	Backlight	CCFL
	PPI	133
Viewing Angle	±60° Horizontal, ±50° Vertical (minimum)	

### Hard Drives

### Technical Specifications

100-GB 7200 rpm SATA	Drive Weight	0.25 lb (113 g)	
	Capacity	100 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-7 / SATA 1.0a	
	Transfer Rate	<b>Synchronous</b> (maximum) 100 MB/s (Drive Capability)	
	Seek Time (typical reads, including settling)	<b>Single Track</b>	1 ms
		<b>Average</b>	10 ms
		<b>Maximum</b>	18 ms
	Rotational Speed	7200 rpm	
	Logical Blocks	195,371,568	
	Operating Temperature	41° to 140° F (5° to 60° C) [case temp]	
	Features	ATA Security	

80-GB 7200 rpm SATA	Drive Weight	0.25 lb (113 g)	
	Capacity	80 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-7 / SATA 1.0a	
	Transfer Rate	<b>Synchronous</b> (maximum) 100 MB/s (Drive Capability)	
	Seek Time (typical reads, including settling)	<b>Single Track</b>	1 ms
		<b>Average</b>	10 ms
		<b>Maximum</b>	18 ms
	Rotational Speed	7200 rpm	
	Logical Blocks	156,301,488	
	Operating Temperature	41° to 140° F (5° to 60° C) [case temp]	
	Features	ATA Security	

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

### Technical Specifications

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

### Optical Drives – Fixed

DVD-ROM Drive	Access Times	Random	<116 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

<b>DVD/CD-RW Combo Drive</b>	<b>Access Times</b>	Random	<110 ms CD <130 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>Access Times</b>	Random	<175 ms CD <230 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
		16X CD-RW	2,400 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
		5X DVD-RAM	6,750 KB/s
	<b>Transfer Mode</b>	Multiword DMA Mode	
	<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

DVD+/-RW SuperMulti DL LightScribe Drive	<b>Access Times</b>	Random	<175 ms CD <230 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
		16X CD-RW	2,400 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
		5X DVD-RAM	6,750 KB/s
	<b>Transfer Mode</b>	Multiword DMA Mode	
	<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, LightScribe	
<b>Max Media Capacity (read)</b>	8.5 GB		
<b>Max Media Capacity (write)</b>	8.5 GB		
<b>Transport</b>	Tray Loading		

Blu-Ray Disc DVD+/-RW SuperMulti DL Drive	<b>Access Times</b>	Random	<140 ms CD-ROM <160 ms DVD-ROM <300 ms BD-ROM
	<b>Max Data Transfer Rate</b>	24X CD-ROM	3,600 KB/s
		8X DVD-ROM	10,800 KB/s
		8X CD-R	1,200 KB/s
		8X CD-RW	1,200 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
		5X DVD-RAM	6,750 KB/s
		1X BD-ROM	4,500 KB/s
		1X BD-R	4,500 KB/s
		1X BD-RE	4,500 KB/s

### Technical Specifications

<b>Transfer Mode</b>	Multiword DMA Mode
<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, BD-ROM, BD-R, BD-RE
<b>Supported Media (write)</b>	CD-R, CD-RW, DVD+R, DVD+R(9), DVD+RW, DVD-R, DVD-R(9), DVD-RW, DVD-RAM, BD-R, BD-RE
<b>Max Media Capacity (read)</b>	50.0 GB
<b>Max Media Capacity (write)</b>	50.0 GB
<b>Transport</b>	Tray Loading

### Security

<b>HP Fingerprint Sensor</b>	<b>Mobile Voltage Operation</b>	3.0V–3.6V Single Supply
	<b>Operating Temperature</b>	32° – 158°F (0° – 70°C)
	<b>Current Consumption @ 3.3V</b>	Less than 70 mA peak imaging and scrolling Less than 25 mA hardware finger detection Advanced Power Management
	<b>High-Rate Image Capture</b>	Up to 240 image frames /sec
	<b>ESD Resistance</b>	IEC 61000-4-2 Level 4 (±15KV)
	<b>Detection Matrix</b>	192 x 16 Pixels 9.7 mm x 0.81 mm 500 ppi High-Resolution Images

### Audio

<b>Hardware</b>	<b>Implementation</b>	ADI1981HD High Definition CODEC
	<b>Touch-Sensitive Volume Controls</b>	Volume up, volume down, and mute
	<b>Full Duplex</b>	Yes
	<b>Sound Blaster Pro compatible</b>	Yes
	<b>Microphone In</b>	Stereo
	<b>Headphone/Line Out</b>	Stereo
	<b>Integrated Microphone</b>	Yes

### Technical Specifications

Audio Output Quality	Frequency Response	20 Hz – 20 kHz
	Signal to Noise Ratio	>85 dB
	Total Harmonic Distortion	0.01%
	Noise Floor	-110 dB
	Play/Record Sampling Rate(s)	8 kHz – 48kHz
	DAC	16, 20 or 24-bit
	ADC	16 or 20-bit

Integrated Stereo Speakers	Power Rating	2 Watts
	Impedance	4 Ohms

### Communications

Integrated Intel Gigabit Network Connection (10/100/1000 NIC)	<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 compliant -- multiple power modes Situation-sensitive features reduce power consumption	
	<b>Performance Features</b>	TCP/IP/UDP Checksum Offload (configurable)	
	<b>Manageability</b>	Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite Intel Advanced Management Technology (iAMT)	
	<b>Interface</b>	PCI Express x1	
	<b>NIC Device Driver Name</b>	Intel 82566MM Gigabit Network Connection	
	<b>Drivers Available</b>	Microsoft Windows Vista Microsoft Windows XP	

### Technical Specifications

V.92 56K Data/Fax Modem	Form Factor	MDC 1.5 Daughtercard
	Power Management Support	APM Revision 1.2, ACPI
	Approvals/Certifications	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
	Data Mode Capabilities	V.92 data V.8bis V.80 V44, V.42bis, MNP5 (Compression) V.42 (LAPM, MNP2-4) (Error Correction) <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.34 V.32bis V.32 V.23 V.22bis V.22 V.21 Bell 212A Bell 103J
	Fax Mode Capabilities	TIA/EIA-578-B (Class 1) T.30, T.4 (Group 3) V.17 V.29 V.27ter V.21 Channel 2
	Command Set	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
Intel Wireless WiFi Link 4965AG	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g
	Interoperability	Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Windows 2000 and XP (details at <a href="http://www.hp.com/go/notebooks/WLAN">http://www.hp.com/go/notebooks/WLAN</a> )
	Frequency Band	2.4 GHz and 5 GHz



### Technical Specifications

<b>Configuration Utility<sup>5</sup></b>	<p>Microsoft Windows 2000 or XP Choice of Configuration Utility:</p> <ul style="list-style-type: none"> <li>• Microsoft Windows XP Wireless Network Connection Manager</li> <li>• Intel PROSet for Microsoft Windows 2000 or XP (required for Cisco Compatible Extensions support)</li> </ul> <p>Microsoft Windows Vista</p> <ul style="list-style-type: none"> <li>• Microsoft Windows Vista Wireless Network Connection Manager</li> </ul>
<b>LED Activity</b>	<p>LED Off – Radio OFF; Solid LED On – Radio ON</p> <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 and on battery power.</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 suppliers.</li> </ol>

<b>Intel Wireless WiFi Link 4965AGN</b>	<b>Wireless LAN Standards</b>	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n (draft 1.02)
	<b>Interoperability</b>	<p>Wi-Fi certified (802.11abg only) Cisco Compatible Extensions Program compliant (802.11abg only) with Microsoft Windows 2000 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>)</p>
	<b>Frequency Band</b>	2.4 GHz and 5 GHz
	<b>Data Rates</b>	<p>802.11b: 1, 2, 5.5, 11 Mbps 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n (draft): 66 possible data rates, ranging from 6 Mbps to 300 Mbps, depending on the combination of Bandwidth, Modulation Coding Scheme, and Guard Interval used, as defined in IEEE 802.11n (draft) specification</p>
	<b>Modulation</b>	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM
	<b>Security<sup>1</sup></b>	<p>Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES (support for key sizes of 128, 192, and 256 bits), 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 2000 and XP only.</p>
	<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



### Technical Specifications

<b>Adapter</b>	IEEE 802.11g	
<b>Interoperability</b>	Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Windows 2000 and XP (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 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)	
<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)

### Technical Specifications

<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>	Microsoft Windows 2000 or 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> </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>	

<b>HP Integrated Module with Bluetooth Wireless Technology</b>	<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
	<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

### Technical Specifications

<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) Headset Profile (HSP) Hands Free Profile (HFP) Advanced Audio Distribution Profile (A2DP)

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

### Technical Specifications

**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:

- US Federal Energy Management Program (FEMP)
- ECO declaration
- Korean Eco Label
- EPEAT Silver Rating

**System Configuration**      The configuration used for the Energy Consumption and Declared Noise Emissions data is based on a "Typically Configured Notebook"

<b>Energy Consumption</b>	<b>115 VAC</b>	<b>230 VAC</b>	<b>100 VAC</b>
Normal Operation	18.05 W	19.49 W	12.19 W
Sleep (Energy Star low power mode)	1.261 W	1.281 W	1.261 W
Off	1.563 W	1.57 W	1.563 W
<b>Heat Dissipation*</b>	<b>115 VAC</b>	<b>230 VAC</b>	<b>100 VAC</b>
Normal Operation	61.586 BTU/hr	66.499 BTU/hr	41.592 BTU/hr
Sleep	4.302 BTU/hr	4.37 BTU/hr	4.302 BTU/hr
Off	5.332 BTU/hr	5.356 BTU/hr	5.332 BTU/hr

\* Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

This product is in compliance with US executive order 13221, WOL (wake on LAN) disabled.

<b>Declared Noise Emissions</b> (in accordance with ISO 7779 and ISO 9296)	<b>Sound Power</b> (LWAd, bels)	<b>Sound Pressure</b> (LpAm, decibels)
Idle	3.1	25
Operating mode (HDD)	3.1	26

**Batteries**      This product complies with ISO standards:

- EU Directive 91/ 157/ EEC
- EU Directive 93/ 86/ EEC
- EU Directive 98/ 101/ EEC

Batteries used in the product do not contain:

- Mercury greater the 5ppm by weight
- Cadmium greater than 10ppm by weight
- Lead greater than 4000 ppm by weight.

The battery type and chemistry used in the product is:  
CR2032 (coin cell), Lithium  
8 cell rechargeable Lithium-Ion battery

### Technical Specifications

#### Additional information:

This product is in compliance with the EU Restrictions of Hazardous Substances (RoHS) Directive – 2002/95/EC.

This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC.

Keyboard complies with ISO standard: ISO 9995, EN 29241-4, and ISO/IEC 15412

Input devices of this product comply with ISO 9241, part 9.

Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.

This product contains 0% recycled materials (by wt.)

This product is greater than 92% recyclable when properly disposed of at end of life.

#### Packaging Materials

- External:
  - Corrugated / Paper – 2.25 lb (1019 g)
- Internal:
  - EPE Foam – 0.15 lb (70 g)
  - LDPE Bag – 0.04 lb (19.44 g)
- The corrugated paper packaging materials contains at least 40% recycled content.

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

### Technical Specifications

#### Material Usage

This product does not contain any of the following substances in excess of regulatory limits (for reference of these limits please refer to the HP General Specification of the Environment

([http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen\\_specifications.html](http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html)):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants – may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

#### End-of-life Management and Recycling

HP offers our customers several other options for handling their aging computers while also minimizing the impact on the environment—including product trade-in and leasing services-in addition to recycling services.

Please go to: <http://www.hp.com/recycle> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

#### Hewlett-Packard Corporate Environmental Information

For more information about HP's commitment to the environment:

Global Citizenship Report

<http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html>

Environment website

<http://www.hp.com/environment>

Eco-label certifications

<http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html>

ISO 14001 certificates:

<http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html>

### *Technical Specifications*

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