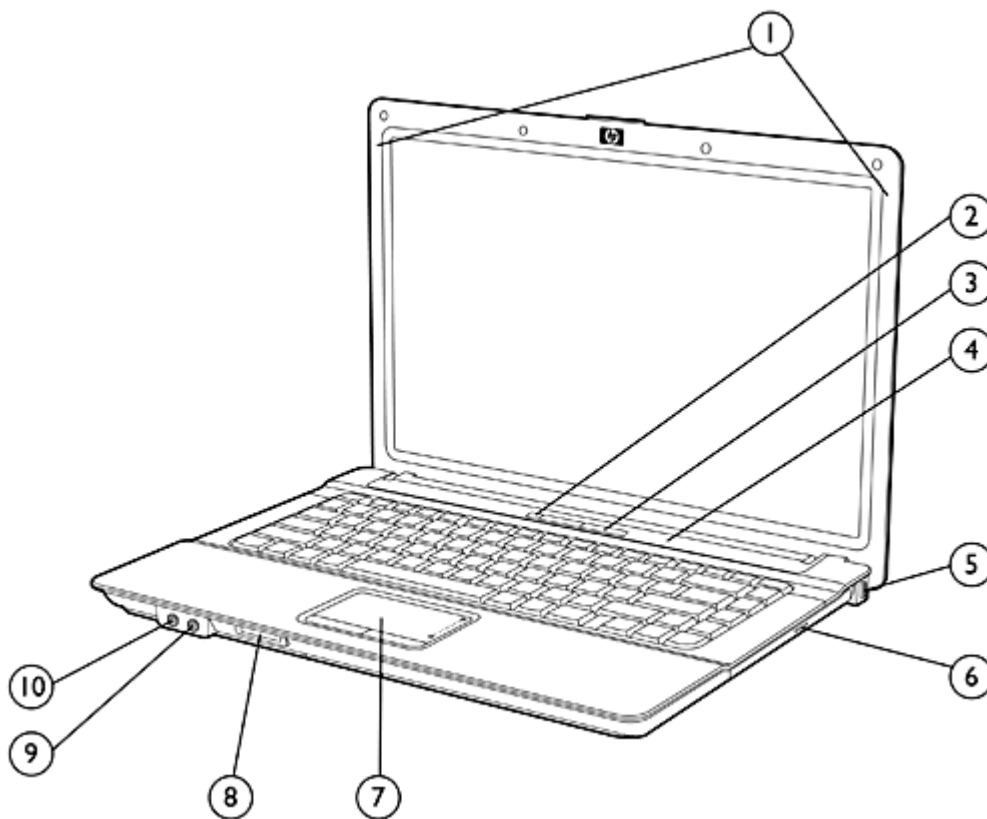


Overview

HP recommends Windows Vista®
Business

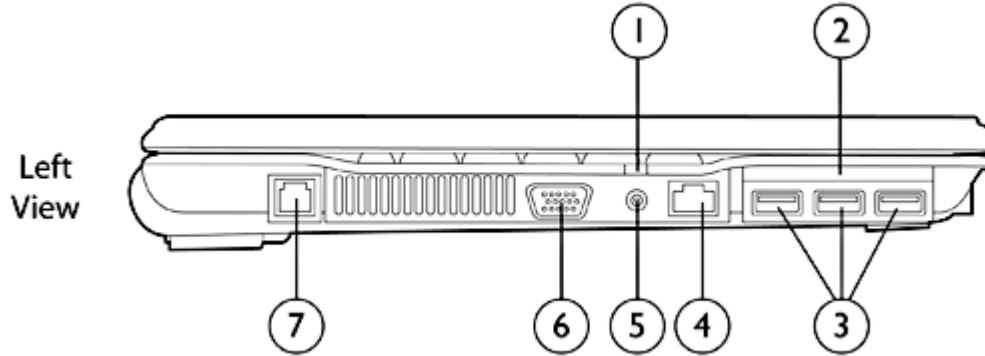


1. Dual-band Wireless LAN Antennas*
2. Wireless On/Off Button with LED*
3. Power Button with LED
4. Speaker
5. Kensington Lock Slot

6. Optical Drive
7. Touchpad with Scroll Zone
8. Secure Digital (SD) slot
9. Microphone Jack
10. Headphone Jack

* On select models.

Overview



- | | |
|-------------------------|-----------------------------------|
| 1. Battery Charging LED | 5. Power Connector |
| 2. ExpressCard/54 slot | 6. VGA/external monitor connector |
| 3. Three USB 2.0 ports | 7. RJ-11/modem port |
| 4. RJ-45/Ethernet port | |

At A Glance

- Genuine Windows Vista Business 32, Genuine Windows Vista Home Basic 32, or FreeDOS
- Thin, lightweight design starting at 5.5 lb/2.49 kg and 1.27-inch/32.3 mm thin at front
- Widescreen 15.4-inch diagonal display with optional BrightView
- Flexible wireless connectivity options:
 - Integrated 802.11 a/b/g/draft-n or a/b/g wireless LAN module
 - Bluetooth®
- Intel® Core™2 Duo processor or Intel Celeron® processor
- Device Access Manager for HP ProtectTools
- Integrated optical drive
- Up to 250-GB 5400 rpm user-removable hard drive with HP DriveGuard protection
- Secure Digital (SD) slot
- Up to 4 GB of 667-MHz DDR2 SDRAM, dual channel memory support
- Mobile Intel Graphics Media Accelerator X3100, with up to 384-MB shared system memory
- Intel 10/100 Ethernet Controller
- Touchpad with scroll zone

Standard Features

Processors

Intel Core 2 Duo Processor T8100 (2.10 GHz, 3 MB L2 cache, 800 MHz FSB)*

Intel Core 2 Duo Processor T5470 (1.60-GHz, 800-MHz FSB, 2-MB L2 cache)*

Intel Core 2 Duo Processor T5270 (1.4-GHz, 800- MHz FSB, 2-MB L2 cache)*

Intel Celeron Processor 550 (2.0-GHz, 533-MHz FSB, 1-MB L2 cache)*

Intel Celeron Processor 540 (1.86-GHz, 533-MHz FSB, 1-MB L2 cache)*

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

NOTE: Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

Operating System

Preinstalled

Genuine Windows Vista Business 32*

Genuine Windows Vista Downgrade to Windows XP Professional

Genuine Windows Vista Home Basic 32*

Genuine Windows XP Professional

FreeDOS

Supported

Genuine Windows XP Professional

* 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>.

Chipset

Mobile Intel GME965 Express Chipset (ships with Intel Core 2 Duo Processors) or

Mobile Intel GLE960 Express Chipset (ships with Intel Celeron Processors)

Graphics

Mobile Intel Graphics Media Accelerator X3100, up to 384-MB shared system memory

Microsoft DirectX 9 capable

Display

Internal

15.4-inch diagonal WXGA anti-glare (1280 x 800 resolution)

15.4-inch diagonal WXGA BrightView (1280 x 800 resolution)

External

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

NOTE: Resolutions are dependent upon monitor capability, and resolution and color depth settings.

Standard Features

| | | |
|---------------|---------------------|---|
| Memory | Standard | 512-MB, 1024-MB, 2048-MB; or 4096-MB* 667-MHz DDR2 SDRAM total memory; two SODIMM slots supporting dual channel memory. Memory operates at a maximum of 533-MHz with Celeron processor/GL960 chipset. |
| | Dual-channel | Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory slots. |

*with Mobile Intel GM965 chipset only

NOTE: 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.

| | |
|-----------------------|---|
| Communications | Intel Fast Ethernet Integrated Controller (10/100 NIC) 56K V.92 modem* |
|-----------------------|---|

* 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.

| | |
|--|--|
| Wireless Devices | Support for a broad range of secure, integrated wireless LAN options featuring support for the latest industry standards. Integrated Bluetooth is also available (factory configurable only) and can be combined with any of the supported wireless LAN options. |
| All 802.11a/b/g integrated wireless LAN options | <ul style="list-style-type: none"> 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 Dual antennas integrated in the display enclosure |
| Intel Wireless WiFi Link 4965AGN* | Integrated support for 802.11a, b, g, and draft-n Up to 243-mbps data rate |
| Intel PRO/Wireless 3945ABG Network Connection* | Integrated support for 802.11 a, b and g Up to 54-mbps data rate |
| Broadcom 4311AG 802.11a/b/g WiFi Adapter | Integrated support for 802.11 a, 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 |

* Requires Intel Core 2 Duo processor

Standard Features

Keyboard The 101/102-key compatible keyboard features an industry standard, full-pitch key layout with desktop keyboard features, such as the isolated inverted-T cursor control keys, editing keys, both left and right control and alt keys, and 12 function keys. US and International key layouts are available. Other features include an integrated numeric keypad, hotkeys for instant access to power conservation, brightness, and other features, 19-mm x 19-mm key pitch (center-to-center spacing), 2.5-mm stroke, and comfort-dished keycaps.

Pointing device Touchpad with scroll zone, two pick buttons

Expansion card slots

| | |
|----------------------------|---|
| ExpressCard/54 slot | Supports ExpressCard/54 and ExpressCard/34 |
| Secure Digital slot | Supports SD (Secure Digital), MMC (MultiMedia Card) |

Storage

| | |
|--------------------|---------------------------------------|
| Hard drives | 80/120/160/250-GB 5400 rpm SMART SATA |
|--------------------|---------------------------------------|

NOTE: These hard drives are customer removable and will withstand multiple insertion/removal cycles. Up to 10 GB is reserved for the system recovery software.

| | |
|-----------------------------|---|
| HP DriveGuard | The hard drive is mounted directly to the notebook frame, reducing the transmission of shock to the hard drive. |
| Fixed optical drives | DVD/CD-RW Combo Drive DVD+/-RW SuperMulti DL LightScribe Drive |

Interfaces

| | |
|----------------------------------|--|
| ExpressCard/54 | Supports ExpressCard/54 and ExpressCard/34 |
| External monitor | One – VGA |
| Stereo microphone in | One |
| Stereo headphone/line out | One |
| Power connector | One |
| RJ-11/modem | One |
| RJ-45/Ethernet | One |
| USB 2.0 | Three |
| LED status indicators | Six |

Audio High Definition Audio support
Integrated mono speaker
Stereo headphone/line out
Stereo microphone in

Standard Features

| | | |
|---------------------------------------|--|--|
| Software | Preinstalled software with Windows Vista | PDF Complete HP Backup and Recovery Manager HP Help and Support Center HP Universal Print Driver HP ProtectTools Security Manager: Device Access Manager for HP ProtectTools 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 Player |
| | Additional software available from the web | HP Client Manager Java Card Security for HP ProtectTools |
| 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 hardware). | |
| SMBIOS Version 2.4 | System Management BIOS, previously known as DMI BIOS, is used to store system management information. | |
| Security | Standard Features | Device Access Manager for HP ProtectTools Configuration Control Hardware Memory Change Alert Ownership Tag Setup Password Power-On Password HP DriveGuard Kensington Lock Slot Support for Computrace / LoJack for Laptops (must be purchased separately) |
| | For more information on HP security solutions refer to http://www.hp.com/go/security . | |
| Power Supply | External 65-watt AC adapter, 6-foot (1.8-meter) power cord included. Total length including external AC adapter is 12 feet (3.66 meter). | |
| Battery | Primary battery | 6-cell (47 WHr) Lithium-Ion battery |
| System Standby Time | Up to 1 week | |

Standard Features

| | |
|---------------------------|--|
| Power Conservation | Supports enhanced Intel SpeedStep technology with Intel Core 2 Duo processors (allows Battery Optimized Mode, Maximum Performance Mode, or Automatic mode) Intel Display Power Saving technology Hibernation Standby ACPI compliance |
|---------------------------|--|

| | |
|----------------------------|--|
| Service and Support | HP Services offers limited 1-year warranty. On-site service and warranty upgrades are also available. For HP Care Pack services see http://www.hp.com/go/lookuptool . NOTE: Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details. http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp . |
|----------------------------|--|

Select Model(s)

| | | |
|--|----------------------------|---|
| 6720s RM388UT#ABA Smart Buy | Processor | Intel Celeron Processor 550 (2.0-GHz, 533-MHz FSB, 1-MB L2 cache) |
| | Operating System | Genuine Windows Vista Home Basic 32 |
| | Chipset | Mobile Intel GLE960 Express Chipset |
| | System Memory | 1024-MB 667-MHz DDR2 SDRAM (1 DIMM) Memory operates at a maximum of 533-MHz with Celeron processor |
| | Hard Drive | 120-GB 5400 rpm SATA HDD |
| | Display | 15.4-inch diagonal WXGA BrightView (1280 x 800 resolution) |
| | Graphics | Mobile Intel Graphics Media Accelerator X3100, up to 384-MB shared system memory |
| | Audio | High Definition Audio support Integrated mono speaker Stereo headphone/line out; Stereo microphone in |
| | Communications | Intel Fast Ethernet Integrated Controller (10/100 NIC) 56K V.92 modem |
| | Integrated Wireless | Broadcom 4311AG 802.11a/b/g WiFi Adapter |
| | Pointing Device | Touchpad with scroll zone, two pick buttons |
| | Optical Drive | DVD+/-RW SuperMulti DL LightScribe Drive |
| | Battery | 6-cell (47 WHr) Lithium-Ion |
| | Power | External 65-watt AC adapter |
| | Warranty | 1 Year Limited Warranty |

Standard Features

| | | |
|--|----------------------------|---|
| 6720s RM390UT#ABA Smart Buy | Processor | Intel Core 2 Duo Processor T5470 (1.60-GHz, 800-MHz FSB, 2-MB L2 cache) |
| | Operating System | Genuine Windows Vista Downgrade to Windows XP Professional |
| | Chipset | Mobile Intel GME965 Express Chipset |
| | System Memory | 1024-MB 667-MHz DDR2 SDRAM (1 DIMM) |
| | Hard Drive | 160-GB 5400 rpm SATA HDD |
| | Display | 15.4-inch diagonal WXGA BrightView (1280 x 800 resolution) |
| | Graphics | Mobile Intel Graphics Media Accelerator X3100, up to 384-MB shared system memory |
| | Audio | High Definition Audio support Integrated mono speaker Stereo headphone/line out; Stereo microphone in |
| | Communications | Intel Fast Ethernet Integrated Controller (10/100 NIC) 56K V.92 modem |
| | Integrated Wireless | Intel PRO/Wireless 3945ABG Network Connection |
| | Pointing Device | Touchpad with scroll zone, two pick buttons |
| | Optical Drive | DVD+/-RW SuperMulti DL LightScribe Drive |
| | Battery | 6-cell (47 WHr) Lithium-Ion |
| | Power | External 65-watt AC adapter |
| Warranty | 1 Year Limited Warranty | |

| | | |
|-----------------------------|----------------------------|---|
| 6720s RM389UA#ABA | Processor | Intel Core 2 Duo Processor T5470 (1.60-GHz, 800-MHz FSB, 2-MB L2 cache) |
| | Operating System | Genuine Windows Vista Downgrade to Windows XP Professional |
| | Chipset | Mobile Intel GME965 Express Chipset |
| | System Memory | 1024-MB 667-MHz DDR2 SDRAM (1 DIMM) |
| | Hard Drive | 120-GB 5400 rpm SATA HDD |
| | Display | 15.4-inch diagonal WXGA anti-glare (1280 x 800 resolution) |
| | Graphics | Mobile Intel Graphics Media Accelerator X3100, up to 384-MB shared system memory |
| | Audio | High Definition Audio support Integrated mono speaker Stereo headphone/line out; Stereo microphone in |
| | Communications | Intel Fast Ethernet Integrated Controller (10/100 NIC) 56K V.92 modem |
| | Integrated Wireless | Intel PRO/Wireless 3945ABG Network Connection |
| | Pointing Device | Touchpad with scroll zone, two pick buttons |
| | Optical Drive | DVD+/-RW SuperMulti DL LightScribe Drive |
| | Battery | 6-cell (47 WHr) Lithium-Ion |
| | Power | External 65-watt AC adapter |
| Warranty | 1 Year Limited Warranty | |

Standard Features

| | | |
|-----------------------------|----------------------------|---|
| 6720s KR900UA#ABA | Processor | Intel Core 2 Duo Processor T8100 (2.10 GHz, 3 MB L2 cache, 800 MHz FSB) |
| | Operating System | Genuine Windows Vista Downgrade to Windows XP Professional |
| | Chipset | Mobile Intel GME965 Express Chipset |
| | System Memory | 2048-MB 667-MHz DDR2 SDRAM (1 DIMM) |
| | Hard Drive | 160-GB 5400 rpm SATA HDD |
| | Display | 15.4-inch diagonal WXGA anti-glare (1280 x 800 resolution) |
| | Graphics | Mobile Intel Graphics Media Accelerator X3100, up to 384-MB shared system memory |
| | Audio | High Definition Audio support Integrated mono speaker Stereo headphone/line out; Stereo microphone in |
| | Communications | Intel Fast Ethernet Integrated Controller (10/100 NIC) 56K V.92 modem |
| | Integrated Wireless | Intel PRO/Wireless 3945ABG Network Connection HP Integrated Module with Bluetooth Wireless Technology |
| | Pointing Device | Touchpad with scroll zone, two pick buttons |
| | Optical Drive | DVD+/-RW SuperMulti DL LightScribe Drive |
| | Battery | 6-cell (47 WHr) Lithium-Ion |
| | Power | External 65-watt AC adapter |
| | Warranty | 1 Year Limited Warranty |

Options

| | | |
|-----------------------------|--|-------------|
| Memory | HP 512-MB (DDR2 667 MHz) SODIMM | EM993AA |
| | HP 1-GB (DDR2 667 MHz) SODIMM | EM994AA |
| | HP 2-GB (DDR2 667 MHz) SODIMM | EM995AA |
| <hr/> | | |
| Other Storage | HP Notebooks USB Diskette Drive | DC361B |
| <hr/> | | |
| Power | HP 65W Smart AC Adapter | ED494AA#ABA |
| | HP 6-Cell Primary Battery | GJ655AA |
| | HP 65W AC/Auto/Air Combo Smart Adapter | ED993AA#ABA |
| <hr/> | | |
| Carrying Cases | 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 |
| <hr/> | | |
| Security | HP/Kensington MicroSaver Security Lock | PC766A |
| <hr/> | | |
| Input/Output Devices | HP PS/2 Keyboard & Mouse Bundle | RC464AA#ABA |
| | HP USB Optical Travel Mouse | RH304AA |

Memory

Up to 4096 MB* of 533-MHz or 667-MHz DDR2 SDRAM
Two DIMM slots
DIMM sizes supported: 512 MB, 1024 MB, and 2048 MB

- Standard Memory**
- 512 MB (512 MB x 1)
 - 1024 MB (1024 MB x 1 or 512 MB x 2)
 - 2048 MB (2048 MB x 1 or 1024 MB x 2)

Optional Memory Upgrades 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 |
| 1024 MB | 512 MB | 512 MB |
| 1536 MB | 1024 MB | 512 MB |
| 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. Full availability of 4 GB of memory requires Windows Vista Business 64-bit or Linux. With Windows 32-bit operating systems, the amount of usable memory is dependent upon your configuration, so that above 3 GB all memory may not be available due to system resource requirements.

*with Mobile Intel GME965 chipset only

| | | |
|------------------------|----------------------------------|---------|
| 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

Removable Media Drive Support

| | Quantity Supported | Drive Bay |
|---|--------------------|-------------------------|
| DVD/CD-RW Combo Drive | One | Fixed optical drive bay |
| DVD+/-RW SuperMulti DL LightScribe Drive | One | Fixed optical drive bay |

Hard Drive Support

| Primary Hard Drives | Quantity Supported | Drive Bay |
|---------------------------------------|--------------------|--------------------------|
| 250-GB 5400 rpm SMART SATA Hard Drive | One | Dedicated hard drive bay |
| 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 |
| 80-GB 5400 rpm SMART SATA Hard Drive | One | Dedicated hard drive bay |

Technical Specifications

| | | |
|--|---|--|
| System Unit | Dimensions (HxWxD) | 1.27 in (at front) x 14.1 in x 10.5 in 32.3 mm (at front) x 358 mm x 266.8 mm |
| | Weight | Starting at 5.5 lb (2.49 kg) |
| | NOTE: Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components. Weight includes 6-cell battery, 80-GB hard drive, and optical drive. Weight varies by configuration and components. | |
| Stand-Alone Power Requirements (AC Power) | Nominal Operating Voltage | 18.5 V |
| | Average Operating Power | 12.5 W |
| | Max Operating Power | < 65 W |
| Temperature | 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) |
| Relative Humidity | Operating | 10% to 90%, non-condensing |
| | Non-operating | 5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature |
| Shock | Operating | 125 G, 2 ms, half-sine |
| | Non-operating | 200 G, 2 ms, half-sine |
| Random Vibration | Operating | 0.75 grms |
| | Non-operating | 1.50 grms |
| Altitude (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) |
| Industry Standard Certifications | UL | Yes |
| | CSA | Yes |
| | FCC Compliance | Yes |
| | ENERGY STAR® 4.0 | 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 BELUS | Yes |
| | CIT | Yes |
| | GOST | Yes |
| | Saudi Arabian Compliance (ICCP) | Yes |
| SABS | Yes | |
| UKRSERTCOMPUTER | Yes | |

Technical Specifications

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

* This device is not intended for use at visual display workplace in compliance with BildscharbV. If this product is used in an Office Environment where the VDU Directive 90/270/EEC is applicable (Bildschirmarbeitsverordnung), an external monitor and external keyboard are recommended to avoid potential reflections.

| | | | |
|--------------------------------------|--|--|---|
| HP 65W AC Adapter | Dimensions | 4.17 x 1.85 x 1.1 in (10.6 x 4.7 x 2.8 cm) | |
| | Weight | 0.62 lb (280 g) | |
| | Input | 100 to 240 VAC | |
| | | Input Efficiency | 83% min at 115 VAC |
| | | Input frequency range | 47 to 63 Hz |
| | | Input AC current | 1.7 A at 90 VAC, 0.85 A at 180 VAC |
| | Output | 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 |
| | Connector | 3 pin/grounded, mates with interchangeable cords | |
| | Environmental Design | 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% | |
| EMI and Safety Certifications | 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. | | |

| | | | |
|------------------------------------|-------------------------------|--|-------------------------------|
| 6-Cell (47Whr) Lithium-Ion battery | Dimensions (H x W x L) | 0.8 x 2.1 x 8.0 in (2.0 x 5.3 x 20.3 cm) | |
| | Weight | 0.715 lb (0.325 kg) | |
| | Cells/Type | 6-cell Lithium-Ion | |
| | Energy | Watt-hour Capacity | 47Wh |
| | 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 | System in OFF Mode or Standby | 2.5 hours | |
| | System ON | 3 to 5 hours (depending on system power consumption) | |

Technical Specifications

| | | | | |
|---------------------------|--|--------------------------------|------------|--|
| 15.4-inch WXGA anti-glare | Active Area (W x H) | 13.0 x 8.1 in (33.1 x 20.7 cm) | | |
| | Diagonal Size | 15.4 in (39.1 cm) | | |
| | Surface Treatment | Anti-glare | | |
| | Contrast Ratio | 300:1 (typical) | | |
| | Refresh Rate | 60 Hz | | |
| | Brightness | 200 nit (typical) | | |
| | Pixel Resolution | Pitch | 0.259 mm | |
| | | Format | 1280x800 | |
| | | Configuration | RGB Stripe | |
| | Backlight | CCFL | | |
| PPI | 98 | | | |
| Viewing Angle | ±30° Horizontal, ±10° Vertical (minimum) | | | |

| | | | | |
|---------------------------|--|--------------------------------|------------|--|
| 15.4-inch WXGA BrightView | Active Area (W x H) | 13.0 x 8.1 in (33.1 x 20.7 cm) | | |
| | Diagonal Size | 15.4 in (39.1 cm) | | |
| | Surface Treatment | BrightView | | |
| | Contrast Ratio | 300:1 (typical) | | |
| | Refresh Rate | 60 Hz | | |
| | Brightness | 200 nit (typical) | | |
| | Pixel Resolution | Pitch | 0.259 mm | |
| | | Format | 1280x800 | |
| | | Configuration | RGB Stripe | |
| | Backlight | CCFL | | |
| PPI | 98 | | | |
| Viewing Angle | ±30° Horizontal, ±10° Vertical (minimum) | | | |

Hard Drives

Technical Specifications

| | | | |
|----------------------|--|--|-------|
| 250-GB 5400 rpm SATA | Drive Weight | 0.22 lb (101 g) | |
| | Capacity | 250 GB | |
| | Height | 0.37 in (9.5 mm) | |
| | Width | 2.75 in (70 mm) | |
| | Interface | ATA-7 / SATA 1.0a | |
| | Transfer Rate | Synchronous (maximum) 100 MB/s (Drive Capability) | |
| | Seek Time (typical reads, including settling) | Single Track | 3 ms |
| | | Average | 13ms |
| | | Maximum | 24 ms |
| | Rotational Speed | 5400 rpm | |
| | Logical Blocks | 488,397,168 | |
| | 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 | Synchronous (maximum) 100 MB/s (Drive Capability) | |
| | Seek Time (typical reads, including settling) | Single Track | 3 ms |
| | | Average | 13ms |
| | | Maximum | 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 | Synchronous (maximum) 100 MB/s (Drive Capability) | |
| | Seek Time (typical reads, including settling) | Single Track | 3 ms |
| | | Average | 13ms |
| | | Maximum | 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 | |

| | | | |
|---------------------|--|--|-------|
| 80-GB 5400 rpm SATA | Drive Weight | 0.22 lb (101 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 | Synchronous (maximum) 100 MB/s (Drive Capability) | |
| | Seek Time (typical reads, including settling) | Single Track | 3 ms |
| | | Average | 13 ms |
| | | Maximum | 24 ms |
| | Rotational Speed | 5400 rpm | |
| | Logical Blocks | 156,301,488 | |
| | Operating Temperature | 41° to 140° F (5° to 60° C) [case temp] | |
| | Features | ATA Security | |

Removable Storage Drives

Technical Specifications

| | | | |
|----------------------------|---------------------------|---|---------------------------|
| DVD/CD-RW Combo Drive | Access Times | Random | <110 ms CD <130 ms DVD |
| | Max Data Transfer Rate | 24X CD-ROM | 3,600 KB/s |
| | | 8X DVD | 10,800 KB/s |
| | | 24X CD-R | 3,600 KB/s |
| | | 24X CD-RW | 3,600 KB/s |
| | Transfer Mode | Multiword DMA Mode 2 | |
| | Interface | EIDE | |
| | Supported Media (read) | CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD-RW, DVD+R, DVD+RW | |
| | Supported Media (write) | CD-R, CD-RW | |
| | Max Media Capacity (read) | 8.5 GB | |
| Max Media Capacity (write) | 700 MB | | |
| Transport | Tray loading | | |

| | | | |
|--|--|---------------|---------------------------|
| DVD+/-RW SuperMulti DL LightScribe Drive | Access Times | Random | <175 ms CD <230 ms DVD |
| | Max Data Transfer Rate | 24X CD-ROM | 3,600 KB/s |
| | | 8X DVD | 10,800 KB/s |
| | | 24X CD-R | 3,600 KB/s |
| | | 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 | |
| Transfer Mode | Multiword DMA Mode | | |
| 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, DVD-RAM | | |
| Supported Media (write) | CD-R, CD-RW, DVD+R, DVD+RW, DVD-R, DVD-RW, DVD-RAM, LightScribe | | |
| Max Media Capacity (read) | 8.5 GB | | |

Technical Specifications

| | |
|-------------------------------|--------------|
| Max Media Capacity (write) | 8.5 GB |
| Transport | Tray Loading |

Audio

| | | |
|----------|------------------------------|---------------------------------|
| Hardware | Implementation | ADI1981HD High Definition CODEC |
| | Full Duplex | Yes |
| | Sound Blaster Pro compatible | Yes |
| | Microphone In | Stereo |
| | Headphone/Line Out | Stereo |

| | | |
|----------------------|------------------------------|------------------|
| 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 Mono Speaker | Power Rating | 2 Watts |
| | Impedance | 4 Ohms |

Communications

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) Optional symbol rates: 2800, 3429 Asymmetric Symbol rates Synchronous primary channel data signaling rates: 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 PRO/Wireless 3945ABG Network Connection | 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 http://www.hp.com/go/notebooks/WLAN) |
| | Frequency Band | 2.4 GHz |

Technical Specifications

| | |
|--|--|
| Configuration Utility⁵ | <p>Microsoft Windows 2000 or XP Choice of Configuration Utility:</p> <ul style="list-style-type: none"> • Microsoft Windows XP Wireless Network Connection Manager • Intel PROSet for Microsoft Windows 2000 or XP (required for Cisco Compatible Extensions support) <p>Microsoft Windows Vista</p> <ul style="list-style-type: none"> • Microsoft Windows Vista Wireless Network Connection Manager |
| LED Activity | <p>LED Off – Radio OFF; Solid LED On – Radio ON</p> <ol style="list-style-type: none"> 1. Check latest software/driver release for updates on supported security features. 2. Maximum output power may vary by country according to local regulations. 3. In Power Save Polling mode. 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). 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. |

| | | |
|---|-------------------------------|--|
| Intel Wireless WiFi Link 4965AGN | Wireless LAN Standards | IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n (draft 1.02) |
| | Interoperability | Wi-Fi certified (802.11abg only) Cisco Compatible Extensions Program compliant (802.11abg only) with Microsoft Windows 2000 and XP (details at http://www.hp.com/go/notebooks/WLAN) Tested with wireless access points from several major manufacturers (details at http://www.hp.com/go/notebooks/WLAN/draft-n) |
| | Frequency Band | 2.4 GHz and 5 GHz |
| | Data Rates | 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 |
| | Modulation | Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM |
| | Security¹ | 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. 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. |
| | Sub-channels | Multinational support with frequency bands and channels compliant to local regulations. |
| | Media Access Protocol | CSMA/CA (Collision Avoidance) with ACK |
| | Network Architecture | Ad-hoc (Peer to Peer) |
| | Models | Infrastructure (Access Point Required) |

Technical Specifications

| | |
|--|--|
| Roaming | IEEE 802.11 compliant roaming between access points |
| Output Power (for CKK) ² | 15 dBm |
| Output Power (for OFDM; power varies by data rate) ² | 15 dBm |
| Power Consumption | Transmit: 2.3 Watts (average, with two spatial streams) Receive: 1.9 Watts (average with three receive chains) Idle mode ³ : 30 mW (average) Radio off: 20 mW (max) |
| Power Management | ACPI compliant power management 802.11 compliant power saving mode |
| Receiver Sensitivity ⁴ | 300 Mbps: -68 dBm, 54 Mbps: -74 dBm, 6 Mbps: -90 dBm |
| Antenna Connections | 3 U.FL type connectors, 50 ohm nominal impedance |
| Range | 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 |
| Form Factor | PCI-Express MiniCard |
| Weight | 0.013 lb (6 g) |
| Dimensions | 0.19 x 1.2 x 2.0 in (4.75 x 29.85 x 50.8 mm) |
| Operating Voltage | 3.3V +/- 9%, 1.5V +/- 5% |
| Temperature | Operating 32° to 176° F (0° to 80° C) Non-operating -40° to 176° F (-40° to 80° C) |
| Humidity | Operating 10% to 90% (non-condensing) Non-operating 5% to 90% (non-condensing) |
| Altitude | Operating 0 to 10,000 ft (3,048 m) Non-operating 0 to 50,000 ft (15,240 m) |
| Configuration Utility ⁵ | Microsoft Windows 2000 or XP Choice of Configuration Utility: <ul style="list-style-type: none">• Microsoft Windows XP Wireless Network Connection Manager• Intel PROSet for Microsoft Windows 2000 or XP (required for Cisco Compatible Extensions support) Microsoft Windows Vista <ul style="list-style-type: none">• Microsoft Windows Vista Wireless Network Connection Manager |
| LED Activity | LED Off – Radio OFF; Solid LED On – Radio ON |

1. Check latest software/driver release for updates on supported security features.
2. Maximum output power may vary by country according to local regulations.
3. In Power Save Polling mode and on battery power.
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).
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.

Technical Specifications

| | | |
|--|---|--------------------------------|
| Dimensions | 0.19 x 1.2 x 2.0 in (4.75 x 29.85 x 50.8 mm) | |
| Operating Voltage | 3.3v +/- 10% | |
| Temperature | Operating | 32° to 176° F (0° to 80° C) |
| | Non-operating | -40° to 176° F (-40° to 80° C) |
| Humidity | Operating | 10% to 90% (non-condensing) |
| | Non-operating | 5% to 95% (non-condensing) |
| Altitude | Operating | 0 to 10,000 ft (3,048 m) |
| | Non-operating | 0 to 50,000 ft (15,240 m) |
| Configuration Utility⁵ | Microsoft Windows 2000 or XP Choice of Configuration Utility: <ul style="list-style-type: none">• Microsoft Windows XP Wireless Network Connection Manager• Broadcom Wireless Configuration Utility (required for Cisco Compatible Extensions support) Microsoft Windows Vista <ul style="list-style-type: none">• Microsoft Windows Vista Wireless Network Connection Manager | |
| LED Activity | LED Off – Radio OFF; Solid LED On – Radio ON <ol style="list-style-type: none">1. Check latest software/driver release for updates on supported security features.2. Maximum output power may vary by country according to local regulations.3. In Power Save Polling mode.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).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. | |

| | | |
|--|-------------------------------------|---|
| HP Integrated Module with Bluetooth Wireless Technology | Bluetooth Specification | 2.0 Compliant |
| | Dimensions | 1.02 x 0.55 x 0.22 in (26 x 14 x 5.7 mm) |
| | Frequency Band | 2402 to 2480 MHz |
| | Number of Available Channels | 79 (1 MHz) available channels |
| | Data Rates and Throughput | 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 |
| | Transmit Power | -6 dBm to 4 dBm (Bluetooth Class II) |
| | Receiver Sensitivity | Better than -80 dBm at 0.1 % raw bit error rate |
| | Power Consumption | Peak (Tx) 264 mW Peak (Rx) 231 mW Sleep < 1 mW |
| | Antenna | Internally integrated within module |
| | Range | Up 33 ft (10 m) |
| | Electrical Interface | USB 2.0 compliant Microsoft Windows Plug and Play compliant |

Technical Specifications

| | |
|-------------------------------------|---|
| OS Support | Genuine Windows Vista Genuine Windows XP Genuine Windows 2000 |
| Bluetooth Software Supported | Broadcom Bluetooth for Windows Microsoft Windows XP Bluetooth Software |
| Link Topology | Point to Point, Multipoint Pico Nets up to 7 slaves |
| Security | Full support of Bluetooth Security Provisions |
| Power Management | Microsoft Windows ACPI, and USB Bus Support Self configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff |
| Certifications | 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 |
| Temperature | Operating -4° to 158° F (-20° to 70° C) Non-operating -40° to 176° F (-40° to 80° C) |
| Humidity | Operating 10% to 90% Non-operating 5% to 95% |
| Altitude | Operating 15,000 ft (4,572 m) Non-operating 40,000 ft (12,192 m) |
| Bluetooth Profiles Supported | (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: | | |
| | | <ul style="list-style-type: none"> ● ENERGY STAR 4.0 ● US Federal Energy Management Program (FEMP) ● ECO declaration ● Taiwan Green Mark ● China Energy Certification Program (CECP) ● 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" | | |
| | Energy Consumption | 115 VAC | 230 VAC | 100 VAC |
| | Normal Operation | 18.6 W | 18.9 W | 18.8 W |
| | Sleep (Energy Star low power mode) | 1 W | 1.1 W | 0.99 W |
| | Off | 0.9 W | 1.01 W | 0.9 W |
| | Heat Dissipation* | 115 VAC | 230 VAC | 100 VAC |
| | Normal Operation | 63.463 BTU/hr | 64.486 BTU/hr | 64.145 BTU/hr |
| | Sleep | 3.412 BTU/hr | 3.753 BTU/hr | 3.377 BTU/hr |
| | Off | 3.07 BTU/hr | 3.446 BTU/hr | 3.07 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. | | |
| | Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296) | Sound Power (LWAd, bels) | Sound Pressure (LpAm, decibels) | |
| | Idle | 3.4 | 27.3 | |
| | Operating mode (HDD) | 3.4 | 27.4 | |
| | Batteries | This product complies with ISO standards: | | |
| | | <ul style="list-style-type: none"> ● EU Directive 91/ 157/ EEC ● EU Directive 93/ 86/ EEC ● EU Directive 98/ 101/ EEC | | |
| | | Batteries used in the product do not contain: | | |
| | | <ul style="list-style-type: none"> ● 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 6 cell rechargeable Lithium-Ion battery | | |
| Additional information: | | This product is in compliance with the EU Restrictions of Hazardous Substances (RoHS) Directive – 2002/95/EC. | | |

Technical Specifications

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 96% 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 – 0.043 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.

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):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants – may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons

Technical Specifications

- 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>

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