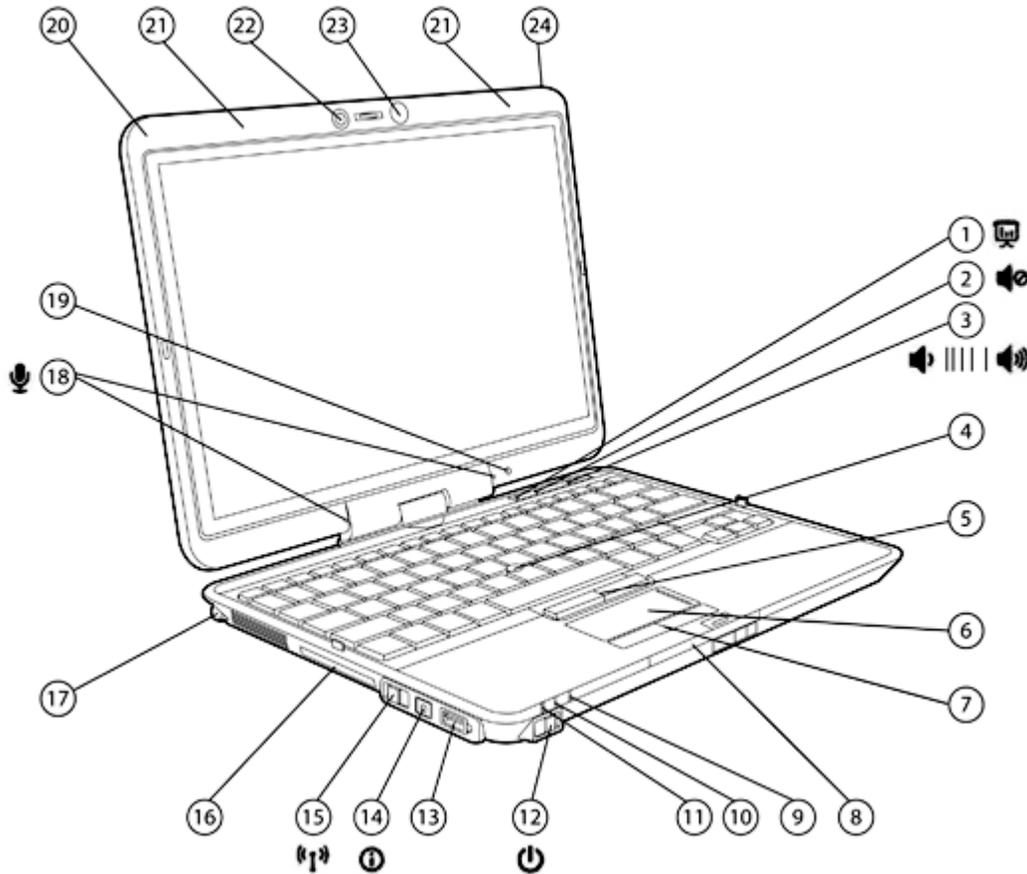


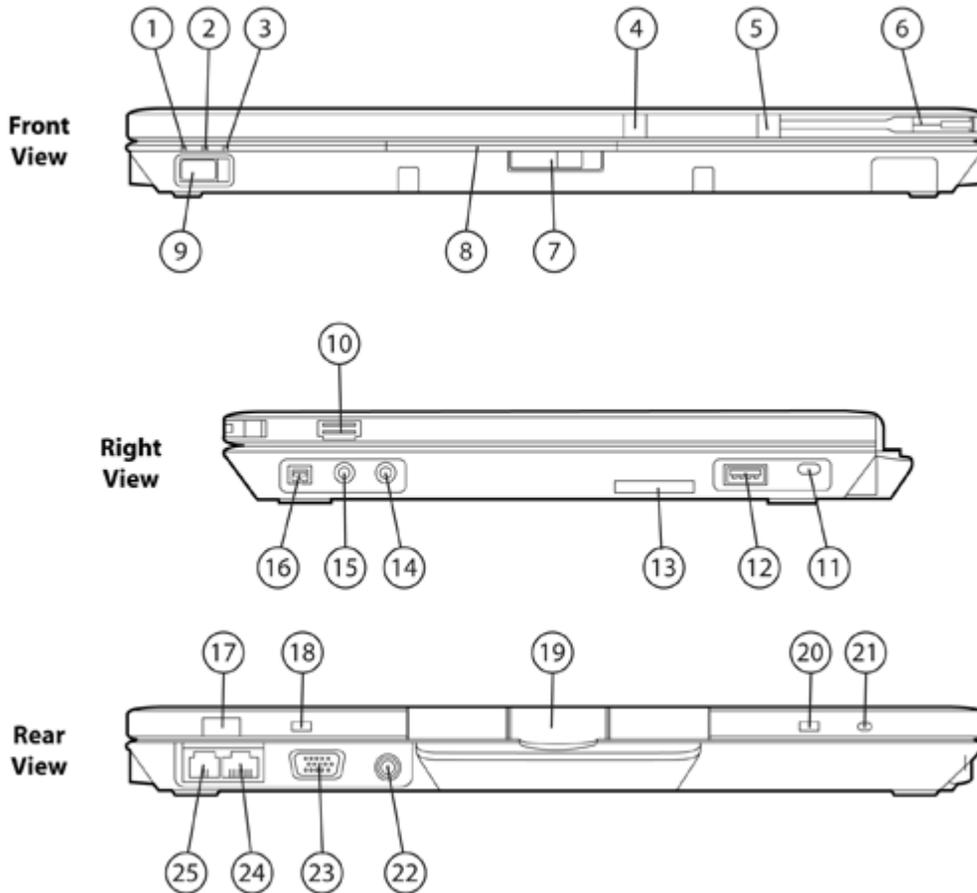
Overview

**HP recommends
Windows Vista® Business**



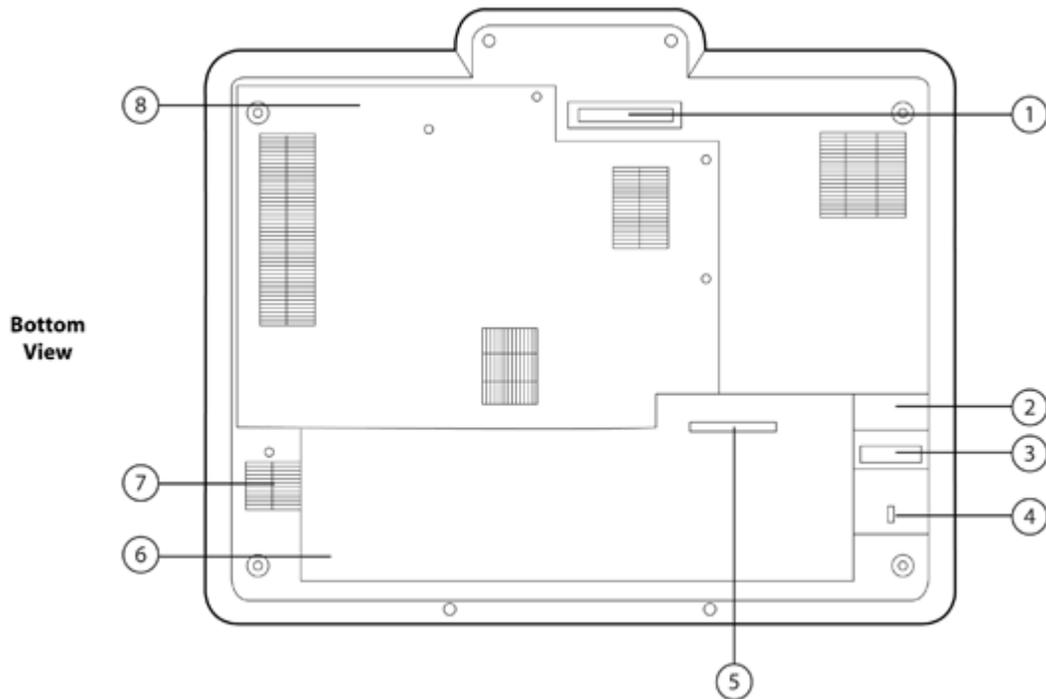
- | | |
|---|---|
| 1. HP Presentation button with LED indicator | 13. USB 2.0 port (powered) |
| 2. Volume mute button with LED indicator | 14. HP Info / HP QuickLook button |
| 3. Volume scroll zone with up/down LED indicators | 15. Wireless on/off with LED |
| 4. Pointstick | 16. ExpressCard/54 slot or Smart Card Reader |
| 5. Pointstick buttons | 17. Pen holder |
| 6. Touchpad with scroll zone | 18. Dual-microphone array |
| 7. Touchpad buttons | 19. Ambient light sensor |
| 8. Business card slot | 20. Internal WWAN antenna |
| 9. Hard drive / optical drive activity / HP 3D DriveGuard LED | 21. Two internal WLAN antennas |
| 10. Battery charging LED | 22. Optional 2 MP webcam with LED (select models) |
| 11. Power/standby LED | 23. HP Night Light |
| 12. Power on/off | 24. External WWAN antenna |

Overview



- | | |
|---|---|
| 1. Power/standby LED | 14. Stereo microphone in |
| 2. Battery charging LED | 15. Stereo headphone/line out |
| 3. Hard drive activity / HP 3D DriveGuard LED | 16. 1394a port |
| 4. HP Night Light button | 17. Jog dial |
| 5. External WWAN antenna button | 18. Esc button |
| 6. External WWAN antenna | 19. Convertible Hinge |
| 7. Display release latch | 20. Rotate button |
| 8. Business Card slot | 21. Windows security button (ctl-alt-del) |
| 9. Power on/off | 22. Power connector |
| 10. HP Fingerprint Sensor | 23. VGA/external monitor connector |
| 11. Kensington Lock slot | 24. RJ-45/Ethernet port |
| 12. USB 2.0 port | 25. RJ-11/modem port |
| 13. Secure Digital (SD) slot | |

Overview



- | | |
|-------------------------------------|--|
| 1. Docking connector | 5. Battery charge level indicator |
| 2. Battery release latch | 6. Battery bay |
| 3. Secondary battery connector | 7. Speaker |
| 4. Secondary battery connector door | 8. Hard drive, memory, WLAN, WWAN module compartment |

NOTE: On models with the optional WWAN module, the SIM card slot is located under the battery.

At A Glance

- Genuine Windows Vista Business 32, Genuine Windows Vista Business with downgrade to Windows XP Tablet Edition custom installed, Genuine Windows Vista Ultimate 32, or FreeDOS
- Convertible tablet design starting at 3.74 lb/1.70 kg and 1.11-inch/28.2 mm thin
- Business Rugged – designed to meet the military standard Mil-Std-810F for shock, vibration, sand and dust, humidity, altitude, and high temperature operation*
- 12.1-inch diagonal Illumi-Lite WXGA ultra wide-viewing angle display with Digitizer, Ambient Light Sensor, and optional Outdoor View
- Intel® Core™2 Duo Low Voltage processor or Intel Core™2 Duo Ultra Low Voltage processor
- Dual pointing device and jog dial
- Connectors for HP 2700 Ultra-Slim Expansion Base and HP 2700 Ultra-Slim Battery
- Up to 120-GB 5400 rpm, user-removable hard drive protected by HP 3D DriveGuard
- Flexible wireless connectivity options:
 - Integrated 802.11 a/b/g/draft-n, a/b/g, or b/g wireless LAN module
 - Bluetooth®
- Enhanced security features including HP ProtectTools, HP SpareKey, HP Fingerprint Sensor, TPM 1.2 Embedded Security Chip**, and optional Smart Card Reader
- Optional integrated camera
- HP QuickLook 2 for instant access to email, calendar, and contact information
- HP Night Light

Overview

- Full magnesium alloy chassis, chemically-strengthened glass over display, HP DuraKeys and HP DuraFinish
- ExpressCard/54 slot
- Intel® Centrino® 2 with vPro™ technology capable
- Up to 8 GB of 800 MHz DDR2 SDRAM supported, dual channel memory support
- Touch-sensitive controls
- Integrated Intel Gigabit Network Connection (10/100/1000 NIC)
- Secure Digital (SD) slot

* Testing was not intended to demonstrate fitness for DOD contracts requirements or for military use. Test results are not a guarantee of future performance under these test conditions.

** TPM module disabled where use is restricted by law; for example, Russia and China.

Standard Features

Processors

Intel Core 2 Duo LV Processor SL9400 (1.86 GHz, 6 MB L2 cache, 1066 MHz FSB)*
Intel Core 2 Duo LV Processor SL9300 (1.60 GHz, 6 MB L2 cache, 1066 MHz FSB)*
Intel Core 2 Duo ULV Processor SU9300 (1.20 GHz, 3 MB L2 cache, 800 MHz FSB)*

* 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 Business with downgrade to Windows XP Tablet Edition custom installed*†
Genuine Windows Vista Ultimate 32*
FreeDOS

Supported

Genuine Windows Vista Enterprise 32*
Genuine Windows Vista Enterprise 64*

Certified

SuSE Linux Enterprise Desktop 10

* Certain Windows Vista product features require advanced or additional hardware. See: <http://www.microsoft.com/windowsvista/getready/hardwarereqs.msp#> and <http://www.microsoft.com/windowsvista/getready/capable.msp#> 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>.

† Windows Vista Business disk may be included for future upgrade if desired. To qualify for this downgrade an end user must be a business (including governmental or educational institutions) and is expected to order at least 25 customer systems with the same custom image.

Chipset

Mobile Intel GS45 Express Chipset ICH9M-Enhanced

Intel Centrino 2 with vPro technology capable

Intel Centrino 2 with vPro technology is a selectable feature that is available on units configured with an Intel WiFi Link 5100. 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.

NOTE: Some functionality of Intel Centrino 2 and vPro technology, such as Intel Active Management technology and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future “virtual appliances” applications for Centrino 2 and vPro technology is dependant on 3rd party software providers. Compatibility with future “virtual appliances” and Microsoft Windows Vista operating system is yet to be determined.

Standard Features

Business Rugged

Meets the military standard Mil-Std-810F* for:

- Shock: Method 515.5 Proc. I (Functional)
- Vibration: Method 514.5, Proc I, Cat. 20 & 24
- High Temperature: Method 501.4, Proc I & II (140°F/60°C operational)
- Sand and Dust: Method 510.4, Proc. I (Blowing Dust)
- Humidity: Method 507.4 (95% relative humidity)
- Altitude: Method 500.4 Low Pressure, Proc. I & II (15,000 feet operational)

* Testing was not intended to demonstrate fitness for DOD contracts requirements or for military use. Test results are not a guarantee of future performance under these test conditions.

Graphics

Mobile Intel Graphics Media Accelerator 4500MHD, up to 384 MB of shared system memory
Microsoft DirectX 10 (Shader 4.0) and OpenGL 2.0 capable

Display

Internal

12.1-inch diagonal Illumi-Lite WXGA UWVA anti-glare with Digitizer (1280 × 800 resolution)
Ambient light sensor
Optional Outdoor View*

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.

* A display with optional Outdoor View is a 12.1-inch diagonal WXGA UWVA anti-glare display with Digitizer that provides enhanced viewable improvements:

- 12% increase in front of screen display brightness with no loss of battery life
- Up to 235% increase in contrast, resulting in better viewability, at wide viewing angles
- 25% less specular reflections in bright light
- 91% less diffuse reflections in bright light
- 67% more contrast in bright sunlight

NOTE: This data is based on typical measurements by the display manufacturer. Actual measurements may vary from panel to panel.

Standard Features

Memory	Standard	800 MHz DDR2 SDRAM; two slots supporting dual channel memory 1024 MB, 2048 MB, 4096 MB, or 8192 MB
	Maximum	Upgradeable to 8192 MB with 4096 MB SODIMMs in slots 1 and 2
	Dual-channel	Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory slots.

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. Availability of 4 GB or more of memory requires Windows Vista Business 64-bit or Linux. With Windows 32-bit operating systems, memory above 3 GB may not all be available due to system resource requirements.

Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC)* 56K V.92 modem** <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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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.
All 802.11 integrated wireless LAN options	Wi-Fi CERTIFIED* Cisco Compatible Extensions support 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 Two antennas integrated in the display enclosure
Intel WiFi Link 5100	Integrated support for 802.11 a, b g, and n draft 2.0* Up to 300 mbps data rate
Broadcom 4322AGN 802.11a/b/g/draft-n Wi-Fi Adapter	Integrated support for 802.11a, b, g, and n draft 2.0* Up to 300 mbps data rate
Broadcom 4312G 802.11b/g WiFi Adapter	Integrated support for 802.11 b and g Up to 54 mbps data rate
HP Integrated Module with Bluetooth Wireless Technology	Bluetooth Specification v2.0 compliant Works with a wide range of Bluetooth devices

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), 2.0-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 Presentation button, Volume mute button, and Volume scroll zone

Pointing device

Dual pointing (Touchpad with scroll zone and Pointstick, each with two pick buttons)
Digital Eraser Pen with tether and clip

Expansion card slots

ExpressCard/54 slot

Supports ExpressCard/54 and ExpressCard/34

or

Optional Integrated Smart Card Reader

(replaces ExpressCard slot)

Compatible with ISO 7816 compliant Smart Cards
PC/SC interface support

Secure Digital slot

Supports SD (Secure Digital), MultiMediaCard

Storage

Internal Storage Device

80/120 GB 5400 rpm 1.8" SMART SATA II Hard Drive
80 GB Solid State Drive (available 4Q08)

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

HP 3D DriveGuard

The hard drive is mounted to the notebook frame, reducing the transmission of shock away from the hard drive. Uses three-axis digital motion detection with intelligent sensitivity to help protect the hard drive during normal use from shock and vibration. The digital accelerometer temporarily halts all data transfer and parks the hard drive when abrupt motion is detected.

External Optical Drives

Via optional HP 2700 Ultra-Slim Expansion Base:
7mm DVD+/-RW SuperMulti Drive

Via optional HP External MultiBay II (9.5-mm):
MultiBay II DVD-ROM Drive
MultiBay II DVD+/-RW SuperMulti DL Drive

Second Hard Drive

Via optional HP External MultiBay II (9.5-mm):
MultiBay II 80-GB 5400 rpm Hard Drive

Standard Features

Interfaces

ExpressCard/54 slot	Supports ExpressCard/54 and ExpressCard/34
Smart Card Reader	Optional (replaces ExpressCard/54 slot)
External monitor	One – VGA
1394a	One
Stereo microphone in	One
Stereo headphone/line out	One
Power connector	One
RJ-11/modem	One
RJ-45/Ethernet	One
USB 2.0	Two (including one powered USB 2.0 port to support HP External MultiBay II)
Docking connector	For HP 2700 Ultra-Slim Expansion Base
Secondary battery connector	For HP 2700 Ultra-Slim Battery
LED status indicators	Thirteen

Audio/Visual

High Definition Audio support w/24-bit DAC
Integrated mono speaker
Integrated dual-microphone array
Touch-sensitive controls for volume up, volume down, and mute
Stereo headphone/line out
Stereo microphone in

Optional 2 MP Webcam with Business Card Reader Software

- Supports videoconferencing and still image capture
- Large image sensor for excellent color matching and good low light sensitivity
- Up to 30 frames/sec
- AutoMacro focus lens
- Video capture at VGA, 1.3 Mpixel, and 2 Mpixel resolutions
- 16-bit true color (camera sensors output YCrCb format among others)

Standard Features

Software

Preinstalled software with Windows Vista or Windows XP

HP Recovery Manager (Vista only)
HP Help and Support Center
HP QuickLook 2
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)
PDF Complete Special Edition
Intervideo WinDVD – DVD Player
Roxio Creator Business (for optional DVD+/-RW and DVD/CD-RW drives)
McAfee Total Protection*
Microsoft Windows Live Messenger (select models)
HP Webcam Software
MS OneNote

Additional software available from the web

HP SoftPaq Download Manager
HP Client Manager Software
HP Client Management Solutions
Java Card Security for HP ProtectTools

* 60 day trial period for McAfee Total Protection for Small Business software. Internet access required to receive updates. First update included. Subscription required for updates thereafter.

HP Recovery Manager

Each Vista unit is shipped with HP Recovery Manager. HP Recovery Manager enables fast recovery of the factory preinstalled image if the system becomes corrupted or if important system files are accidentally deleted. Up to 10 GB of the hard drive is reserved for the system recovery software.

SMBIOS Version 2.4

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

Standard Features

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
- File Sanitizer for HP ProtectTools
- Set-up Wizard for HP ProtectTools
- Privacy Manager for HP ProtectTools (Chat & Sign)
- Embedded Security for HP ProtectTools
- Java Card Security for HP ProtectTools

Security

Standard Features

HP ProtectTools Security Manager
Enhanced Pre-Boot Security
HP SpareKey
One-Step Logon
HP Fingerprint Sensor
Integrated Smart Card Reader
Configuration Control Hardware
Memory Change Alert
Ownership Tag
Setup Password
Power-On Password
TPM 1.2 Embedded Security Chip*
TPM Enhanced DriveLock*
HP Disk Sanitizer
HP 3D DriveGuard
Kensington Lock Slot
Support for Computrace / LoJack for Laptops (must be purchased separately)

Optional Features

Smart Card Reader Compatible with ISO 7816 compliant Smart Cards
(replaces ExpressCard/54 slot) PC/SC interface support

* 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>.

Power Supply

External 65-watt Smart AC adapter, 6-foot (1.8-meter) power cord included.
Total length including external AC adapter is 12 feet (3.66 meter).
HP Fast Charge*

* HP Fast Charge recharges your battery up to 90% within 90 minutes when the system is off. Fast Charge does not apply to the optional HP 2700 Ultra-Slim Battery.

Battery

Primary Battery

6-cell (44 WHr) high capacity Lithium-Ion with fuel gauge LEDs

Standard Features

Battery Life

	Intel Core 2 Duo ULV Processor	Intel Core 2 Duo LV Processor
Primary Battery	Up to 6 hours and 30 minutes	Up to 6 hours and 15 minutes
Primary Battery and Optional HP 2700 Ultra-Slim Battery	Up to 15 hours	Up to 14 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.

System Standby Time

Up to 1 week

Power Conservation

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

Docking (optional)

HP 2700 Ultra-Slim Expansion Base with 7mm DVD+/-RW SuperMulti Drive

This optional expansion base includes connectors for (4) USB 2.0 ports, VGA, RJ-45 Ethernet pass thru, Stereo microphone in, stereo headphone out, and DC-in.

NOTE: The physical S-Video TV Out connector on the expansion base is not supported by the HP EliteBook 2730p Notebook PC.

Service and Support

HP Services offers limited 3-year, 1-year and 90-day warranty options depending on country; 1-year limited warranty on primary battery and digital eraser pen. On-site service and warranty upgrades are also available. HP Care Pack Services extend service contracts beyond the standard warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: <http://www.hp.com/go/lookuptool>. Additional HP Care Pack Services information by product is available at: <http://www.hp.com/hps/carepack>.

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)

HP's Global Product Offer includes Global Series Preconfigured (GS-P) and Configurable (GS-C) products. GPO delivers globally consistent products, services, and solutions with End-of-Life (EOL) transition management. These products reduce IT complexity, lower management costs, increase productivity, and simplify product transitions.

Standard Features

2730p FW401AW#ABA (English) FW401AW#ABC(Fr CAN) Global SKU (see exceptions below) NOTE: Components may vary based on local regulatory requirements.	Processor	Intel Core 2 Duo LV Processor SL9400 (1.86 GHz, 6 MB L2 cache, 1066 MHz FSB)
	Intel Centrino 2 with vPro technology	Enabled
	Operating System	Genuine Windows Vista Business 32 with Office Ready
	System Memory	2048 MB 800 MHz DDR2 (1 DIMM)
	Hard Drive	120 GB 5400 rpm 1.8" SMART SATA II
	Display	12.1-inch diagonal Illumi-Lite WXGA UWVA anti-glare with Digitizer
	Graphics	Mobile Intel GMA 4500MHD
	Webcam	No
	Audio	ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone
	Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 56K V.92 modem
	Integrated Wireless	Intel WiFi Link 5100 (802.11 a/b/g/n draft 2.0)
	Integrated Security	Drive Encryption for HP ProtectTools HP Fingerprint Sensor TPM 1.2*
	Pointing Device	Dual pointing devices (Touchpad and Pointstick) Digital eraser pen
	Battery	6-cell (44 WHr) Lithium-Ion
Power	External 65W adapter	
Warranty	3/3/0 or 3/3/3 depending on country	

* TPM module disabled where use is restricted by law; for example, Russia and China.

2730p NQ088AW#ABA (English) NQ088AW#ABC (Fr CAN) Global SKU (see exceptions below) NOTE: Components may vary based on local regulatory requirements.	Processor	Intel Core 2 Duo LV Processor SL9400 (1.86 GHz, 6 MB L2 cache, 1066 MHz FSB)
	Intel Centrino 2 with vPro technology	Enabled
	Operating System	Genuine Windows Vista Business 32 with Office Ready
	System Memory	2048 MB 800 MHz DDR2 (1 DIMM)
	Hard Drive	120 GB 5400 rpm 1.8" SMART SATA II
	Display	12.1-inch diagonal Illumi-Lite WXGA UWVA anti-glare with Digitizer
	Graphics	Mobile Intel GMA 4500MHD
	Webcam	No
	Audio	ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone
	Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 56K V.92 modem
	Integrated Wireless	Intel WiFi Link 5100 (802.11 a/b/g/n draft 2.0)

Standard Features

Integrated Security	Drive Encryption for HP ProtectTools HP Fingerprint Sensor TPM 1.2*
Pointing Device	Dual pointing devices (Touchpad and Pointstick) Digital eraser pen
Battery	6-cell (44 WHr) Lithium-Ion
Power	External 65W adapter
Warranty	3/3/0 or 3/3/3 depending on country

* TPM module disabled where use is restricted by law; for example, Russia and China.

2730p KS034UT#ABA (English) KS034UT#ABC (Fr CAN) Smart Buy	Processor	Intel® Core™2 Duo Processor SU9300 (ULV 1.20 GHz, 800 MHz FSB, 3 MB L2 cache)
	Intel Centrino 2 with vPro technology	Enabled
	Operating System	Genuine Windows Vista® Business with downgrade to Windows XP Professional custom installed w/MS Office (Trial)
	System Memory	1024MB 800MHz DDR2 SDRAM (1 DIMM)
	Hard Drive	80GB 5400rpm SATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 × 800)
	Graphics	Mobile Intel® Graphics Media Accelerator 4500MHD, up to 384 MB of shared memory
	Webcam	No
	Audio	ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone
	Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 56K V.92 modem
	Integrated Wireless	Intel® WiFi Link 5100AGN (802.11a/b/g/draft-n)
	Integrated Security	Drive Encryption for HP ProtectTools HP Fingerprint Sensor TPM 1.2*
	Pointing Device	Dual pointing devices (Touchpad and Pointstick) Digital eraser pen
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Power	External 65W adapter
	EPEAT	Gold
	Warranty	Limited 3 year standard parts and labour warranty

* TPM module disabled where use is restricted by law; for example, Russia and China.

Standard Features

2730p KS036UT#ABA (English) KS036UT#ABC (Fr CAN) Smart Buy	Processor	Intel® Core™2 Duo Processor SL9300 (ULV 1.60 GHz, 1066 MHz FSB, 6 MB L2 cache)
	Intel Centrino 2 with vPro technology	Enabled
	Operating System	Genuine Windows Vista® Business with downgrade to Windows XP Professional custom installed w/MS Office (Trial)
	System Memory	2048MB 800MHz DDR2 SDRAM (1 DIMM)
	Hard Drive	120GB 5400rpm SATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 × 800)
	Graphics	Mobile Intel® Graphics Media Accelerator 4500MHD, up to 384 MB of shared memory
	Webcam	No
	Audio	ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone
	Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 56K V.92 modem
	Integrated Wireless	Intel® WiFi Link 5100AGN (802.11a/b/g/draft-n) HP Integrated Module with Bluetooth® Wireless Technology
	Integrated Security	Drive Encryption for HP ProtectTools HP Fingerprint Sensor TPM 1.2*
	Pointing Device	Dual pointing devices (Touchpad and Pointstick) Digital eraser pen
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Power	External 65W adapter
	EPEAT	Gold
	Warranty	Limited 3 year standard parts and labour warranty

* TPM module disabled where use is restricted by law; for example, Russia and China.

Standard Features

2730p KS096UT#ABA (English) KS096UT#ABC (Fr CAN) Smart Buy	Processor	Intel® Core™2 Duo Processor SL9400 (ULV 1.86 GHz, 1066 MHz FSB, 6 MB L2 cache)
	Intel Centrino 2 with vPro technology	Enabled
	Operating System	Genuine Windows Vista® Business with downgrade to Windows XP Professional custom installed w/MS Office (Trial)
	System Memory	3072MB 800MHz DDR2 SDRAM (2 DIMM)
	Hard Drive	120GB 5400rpm SATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 × 800), Web Camera
	Graphics	Mobile Intel® Graphics Media Accelerator 4500MHD, up to 384 MB of shared memory
	Webcam	Yes
	Audio	ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone
	Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 56K V.92 modem
	Integrated Wireless	Intel® WiFi Link 5100AGN (802.11a/b/g/draft-n) HP Integrated Module with Bluetooth® Wireless Technology
	Integrated Security	Drive Encryption for HP ProtectTools HP Fingerprint Sensor TPM 1.2*
	Pointing Device	Dual pointing devices (Touchpad and Pointstick) Digital eraser pen
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Power	External 65W adapter
	EPEAT	Gold
	Warranty	Limited 3 year standard parts and labour warranty

* TPM module disabled where use is restricted by law; for example, Russia and China.

Standard Features

2730p FW401AW#ABA (English) FW401AW#ABC (Fr CAN)	Processor	Intel® Core™2 Duo Processor SL9400 (ULV 1.86 GHz, 1066 MHz FSB, 6 MB L2 cache)
	Intel Centrino 2 with vPro technology	Enabled
	Operating System	Genuine Windows Vista® Business w/MS Office (Trial)
	System Memory	2048MB 800MHz DDR2 SDRAM (1 DIMM)
	Hard Drive	120GB 5400rpm SATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 × 800)
	Graphics	Mobile Intel® Graphics Media Accelerator 4500MHD, up to 384 MB of shared memory
	Webcam	No
	Audio	ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone
	Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 56K V.92 modem
	Integrated Wireless	Intel® WiFi Link 5100AGN (802.11 a/b/g/draft-n) HP Integrated Module with Bluetooth® Wireless Technology
	Integrated Security	Drive Encryption for HP ProtectTools HP Fingerprint Sensor TPM 1.2*
	Pointing Device	Dual pointing devices (Touchpad and Pointstick) Digital eraser pen
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Power	External 65W adapter
	EPEAT	Gold
	Warranty	Limited 3 year standard parts and labour warranty

* TPM module disabled where use is restricted by law; for example, Russia and China.

Standard Features

2730p KS098UA#ABA (English) KS098UA#ABC (Fr CAN)	Processor	Intel® Core™2 Duo Processor SL9300 (ULV 1.60 GHz, 1066 MHz FSB, 6 MB L2 cache)
	Intel Centrino 2 with vPro technology	Enabled
	Operating System	Genuine Windows Vista® Business with downgrade to Windows XP Professional custom installed w/MS Office (Trial)
	System Memory	2048MB 800MHz DDR2 SDRAM (1 DIMM)
	Hard Drive	80GB 5400rpm SATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 × 800), Web Camera
	Graphics	Mobile Intel® Graphics Media Accelerator 4500MHD, up to 384 MB of shared memory
	Webcam	Yes
	Audio	ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone
	Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 56K V.92 modem
	Integrated Wireless	Intel® WiFi Link 5100AGN (802.11a/b/g/draft-n) HP Integrated Module with Bluetooth® Wireless Technology
	Integrated Security	Drive Encryption for HP ProtectTools HP Fingerprint Sensor TPM 1.2*
	Pointing Device	Dual pointing devices (Touchpad and Pointstick) Digital eraser pen
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Power	External 65W adapter
	EPEAT	Gold
	Warranty	Limited 3 year standard parts and labour warranty

* TPM module disabled where use is restricted by law; for example, Russia and China.

Standard Features

2730p KS099UA#ABA (English) KS099UA#ABC (Fr CAN)	Processor	Intel® Core™2 Duo Processor SL9400 (ULV 1.86 GHz, 1066 MHz FSB, 6 MB L2 cache)
	Intel Centrino 2 with vPro technology	Enabled
	Operating System	Genuine Windows Vista® Business with downgrade to Windows XP Professional custom installed w/MS Office (Trial)
	System Memory	4096MB 800MHz DDR2 SDRAM (2 DIMM)
	Hard Drive	120GB 5400rpm SATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 × 800), Outdoor View, Web Camera
	Graphics	Mobile Intel® Graphics Media Accelerator 4500MHD, up to 384 MB of shared memory
	Webcam	Yes
	Audio	ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone
	Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 56K V.92 modem
	Integrated Wireless	Intel® WiFi Link 5100AGN (802.11 a/b/g/draft-n) HP Integrated Module with Bluetooth® Wireless Technology
	Integrated Security	Drive Encryption for HP ProtectTools HP Fingerprint Sensor TPM 1.2*
	Pointing Device	Dual pointing devices (Touchpad and Pointstick) Digital eraser pen
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Power	External 65W adapter
	EPEAT	Gold
	Warranty	Limited 3 year standard parts and labour warranty

* TPM module disabled where use is restricted by law; for example, Russia and China.

Standard Features

2730p KS122UT#ABA (English) KS122UT#ABC (Fr CAN) Smart Buy	Processor	Intel® Core™2 Duo Processor SL9400 (ULV 1.86 GHz, 1066 MHz FSB, 6 MB L2 cache)
	Intel Centrino 2 with vPro technology	Enabled
	Operating System	Genuine Windows Vista® Business with downgrade to Windows XP Professional custom installed w/MS Office (Trial)
	System Memory	3072MB 800MHz DDR2 SDRAM (2 DIMM)
	Hard Drive	80GB SSD SATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 × 800), Web Camera
	Graphics	Mobile Intel® Graphics Media Accelerator 4500MHD, up to 384 MB of shared memory
	Webcam	Yes
	Audio	ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone
	Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 56K V.92 modem
	Integrated Wireless	Intel® WiFi Link 5100AGN (802.11a/b/g/draft-n) HP Integrated Module with Bluetooth® Wireless Technology
	Integrated Security	Drive Encryption for HP ProtectTools HP Fingerprint Sensor TPM 1.2*
	Pointing Device	Dual pointing devices (Touchpad and Pointstick) Digital eraser pen
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Power	External 65W adapter
	EPEAT	Gold
	Warranty	Limited 3 year standard parts and labour warranty

* TPM module disabled where use is restricted by law; for example, Russia and China.

Options

Memory	HP 1 GB (DDR2 800 MHz) SODIMM	KT292AA
	HP 2 GB (DDR2 800 MHz) SODIMM	KT293AA
	HP 4 GB (DDR2 800 MHz) SODIMM	KT294AA
Storage	HP Notebooks USB Diskette Drive	DC361B
	HP USB 250 GB 5400 rpm Hard Drive	FE477AA
MultiBay II Storage (9.5-mm) NOTE: Requires HP Advanced Docking Station or HP External MultiBay II	HP MultiBay II DVD-ROM Drive	PA849A
	HP MultiBay II DVD+/-RW SuperMulti DL Drive	PA851A
Expansion Solutions	HP 2700 Ultra-Slim Expansion Base with 7mm DVD+/-RW SuperMulti Drive	GD229AA#ABA
	HP External MultiBay II	PA509A#ABA
Power	HP 2700 Ultra-Slim Battery	RX932AA
	HP 65W Smart AC Adapter	ED494AA#ABA
	HP 90W Smart Auto Adapter	AJ652AA#ABA
	HP 65W AC/Auto/Air Combo Smart Adapter	ED993AA#ABA
	HP 6-Cell Li-Ion Primary Battery	AH547AA
	HP 1-bay Battery Charging Station	RW635AA#ABA
	HP 5-bay Battery Charging Station	RW636AA#ABA
Battery Adapter Kit	RW641AA	
Carrying Cases	HP Basic Carrying Case	AJ078AA
	HP Value Nylon Case	RR314AA
	HP Universal Nylon Case	RR315AA
	HP Executive Leather Case	RR316AA
	HP Deluxe Nylon Backpack	RR317AA
	HP Deluxe Roller Case	GD405AA
Security	HP ExpressCard Smart Card Reader with Java Card	AJ451AA
	HP ProtectTools Java Card – 10 units	EL348AA
	HP/Kensington MicroSaver Security Lock	PC766A

Options

Input/Output Devices	HP Tablet PC Tether/Eraser Pen	PL800A
	HP USB Keyboard & Mouse Bundle	RC465AA#ABA
	HP USB/PS2 Optical 2-Button Scroll Mouse	DC369A
	HP USB Optical Travel Mouse	RH304AA

Memory

800-MHz DDR2 SDRAM

Two DIMM slots supporting dual channel memory

DIMM sizes supported: 1024 MB, 2048 MB, and 4096 MB

- Standard Memory**
- 1024 MB (1024 MB x 1)
 - 2048 MB (2048 MB x 1 or 1024 MB x 2)
 - 4096 MB (4096 MB x 1 or 2048 MB x 2)
 - 8192 MB (4096 MB x 2)

Optional Memory Upgrades

Support for up to 8192 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
3072 MB	2048 MB	1024 MB
4096 MB	2048 MB	2048 MB
8192 MB	4096 MB	4096 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. Availability of 4 GB or more of memory requires Windows Vista Business 64-bit or Linux. With Windows 32-bit operating systems, memory above 3 GB may not all be available due to system resource requirements.

Memory Upgrades	HP 1 GB (DDR2 800 MHz) SODIMM	KT292AA
	HP 2 GB (DDR2 800 MHz) SODIMM	KT293AA
	HP 4 GB (DDR2 800 MHz) SODIMM	KT293AA

Storage

Internal Storage Device

Hard Drives (1.8" SMART SATA II)

80 GB 5400 rpm

120 GB 5400 rpm

- or -

Solid State Drive

80 GB Solid State Drive (available 4Q08)

Quantity Supported

One

One

One

Drive Bay

Dedicated hard drive bay

Dedicated hard drive bay

Dedicated hard drive bay

Optical Drive Support

External Optical Drives

7mm DVD+/-RW SuperMulti Drive

MultiBay II DVD-ROM Drive

MultiBay II DVD+/-RW SuperMulti DL Drive

Quantity Supported

One

One

Optional Expansion Unit

HP 2700 Ultra-Slim Expansion Base

HP External MultiBay II

Technical Specifications

System Unit	Dimensions (HxWxD)	1.11 in (at front) x 11.42 in x 8.35 in 28.2 mm (at front) x 290 mm x 212 mm
	Weight	Starting from 3.74 lb (1.70 kg)
	NOTE: Height varies depending upon where on the notebook the measurement is made. Starting weight includes 6-cell battery, hard drive, 1 GB memory, 802.11 wireless communications module. Weight varies by configuration and components.	
	Stand-Alone Power Requirements (AC Power)	Nominal Operating Voltage 18.5 V Average Operating Power TBD 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® Yes* EPEAT Gold** 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

Technical Specifications

UKRSERTCOMPUTER Yes

* Configurations of the HP EliteBook 2730p that are ENERGY STAR qualified are identified as HP EliteBook 2730p ENERGY STAR on HP websites and on www.energystar.gov.

** EPEAT registration varies by country. See www.epeat.net for registration status by country. EPEAT status listed above applies to U.S.

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

HP 65W Smart 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
	Output	Input AC current	1.7 A at 90 VAC, 0.85 A at 180 VAC
		Output power 65W	65W
		DC output	18.5V
		Hold-up time	5 msec at 115 VAC input
		Output current limit	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.		

Technical Specifications

6-Cell (44 WHr) Lithium-Ion battery	Dimensions (H x W x L)	0.5 x 2.5 x 8.25 in (1.3 x 6.4 x 21.0 cm)	
	Weight	0.62 Lb (0.282 kg)	
	Cells/Type	6-cell Lithium-Ion	
	Energy	Watt-hour Capacity	44 WHr
	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)
		HP Fast Charge Technology	Charges the battery up to 90% within 90 minutes when system is OFF

Displays

12.1-inch Illumi-Lite WXGA UWVA, anti-glare with Digitizer	Active Area (W x H)	10.3 x 6.4 in (26.1 x 16.3 cm)	
	Diagonal Size	12.1 in (30.7 cm)	
	Surface Treatment	Anti-glare	
	Contrast Ratio	300:1 (typical)	
	Refresh Rate	60 Hz	
	Brightness	200 nit (typical)	
	Pixel Resolution	Pitch	0.204 mm
		Format	1280 x 800
		Configuration	RGB Stripe
	Backlight	LED	
PPI	125		
Viewing Angle	±75° Horizontal, ±75° Vertical (minimum)		

Technical Specifications

12.1-inch Illumi-Lite WXGA UWVA. anti-glare with Digitizer and Outdoor View	Active Area (W x H)	10.3 x 6.4 in (26.1 x 16.3 cm)		
	Diagonal Size	12.1 in (30.7 cm)		
	Surface Treatment	Anti-glare		
	Contrast Ratio	500:1 (typical)		
	Refresh Rate	60 Hz		
	Brightness	200 nit (typical)		
	Pixel Resolution	Pitch	0.204 mm	
		Format	1280 x 800	
		Configuration	RGB Stripe	
	Backlight	LED		
PPI	125			
Viewing Angle	±75° Horizontal, ±75° Vertical (minimum) ±80° Horizontal, ±80° Vertical (typical)			

Internal Storage

120 GB 5400 rpm 1.8" SATA Hard Drive	Drive Weight	0.13 lb (62 g)		
	Capacity	120 GB		
	Height	0.31 in (8 mm)		
	Width	2.12 in (54 mm)		
	Interface	ATA-8, SATA 2.5, 1.5 Gb/s		
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)	
	Seek Time (typical reads, including settling)	Single Track	3 ms	
		Average	15 ms	
		Maximum	26 ms	
	Rotational Speed	5400 rpm		
Logical Blocks	234,441,648			
Operating Temperature	32° to 140° F (0° to 60° C) [case temp]			
Features	ATA Security			

Technical Specifications

80 GB 5400 rpm 1.8" SATA Hard Drive

Drive Weight	0.13 lb (62 g)
Capacity	80 GB
Height	0.31 in (8 mm)
Width	2.12 in (54 mm)
Interface	ATA-8, SATA 2.5, 1.5 Gb/s
Transfer Rate	Synchronous (maximum) 100 MB/s (Drive Capability)
Seek Time (typical reads, including settling)	Single Track 3 ms
	Average 15 ms
	Maximum 26 ms
Rotational Speed	5400 rpm
Logical Blocks	156,301,488
Operating Temperature	32° to 140° F (0° to 60° C) [case temp]
Features	ATA Security

80 GB 1.8" SATA Solid State Drive (Available 4Q 08)

Weight	0.08 lb (35 g)
Capacity	80 GB
Height	0.19 in (5 mm)
Width	2.12 in (54 mm)
Interface	ATA-8 / SATA 2.6
Performance	Maximum Sequential Read 250 MB/s
	Maximum Sequential Write 70 MB/s
Logical Blocks	156,301,488
Operating Temperature	32° to 158° F (0° to 70° C) [case temp]
Features	ATA Security

Optical Drives

Technical Specifications

7mm DVD+/-RW SuperMulti Drive	Access Times	Random	<180 ms CD (typical) <200 ms DVD (typical)
	Max Data Transfer Rate	24X CD-ROM	Up to 3,600 KB/s
		8X DVD	Up to 10,800 KB/s
		16X CD-R	Up to 2,400 KB/s
		16X CD-RW	Up to 2,400 KB/s
		8X DVD+R	Up to 10,800 KB/s
		4X DVD+RW	Up to 5,400 KB/s
		8X DVD-R	Up to 10,800 KB/s
		4X DVD-RW	Up to 5,400 KB/s
		3X DVD-RAM	Up to 6,750 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. DVD-RAM		
Supported Media (write)	CD-R, CD-RW, DVD+R, DVD+RW, DVD-R, DVD-RW, DVD-RAM		
Max Media Capacity (read)	8.5 GB		
Max Media Capacity (write)	4.7 GB		
Transport	Tray Loading		

DVD-ROM Drive	Dimensions	0.37 x 5.51 x 5.04 in (0.95 x 14.0 x 12.8 cm)	
	Weight	0.34 lb (155 g)	
	Access Times	Random	<120 ms CD (typical) <200 ms DVD (typical)
	Max Data Transfer Rate	24X-CD-ROM	Up to 3,600 KB/s
		8X-DVD	Up to 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)	8.5 GB	
	Transport	Tray Loading	

Technical Specifications

DVD+/-RW SuperMulti DL Drive	Dimensions	0.37 x 5.51 x 5.04 in (0.95 x 14.0 x 12.8 cm)		
	Weight	0.45 lb (205 g)		
	Access Times	Random	<150 ms CD (typical)	
			<125 ms DVD (typical)	
	Max Data Transfer Rate	24X CD-ROM	Up to 3,600 KB/s	
		8X DVD	Up to 10,800 KB/s	
		24X CD-R	Up to 3,600 KB/s	
		10X CD-RW	Up to 1,500 KB/s	
		4X DVD+R	Up to 5,400 KB/s	
		2.4X DVD+RW	Up to 3,240 KB/s	
		4X DVD-R	Up to 5,400 KB/s	
		2X DVD-RW	Up to 2,700 KB/s	
	2X DVD-RAM	Up to 2,700 KB/s		
	Transfer Mode	Multiword DMA Mode 2		
	Interface	EIDE		
Supported Media (read)	CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD-RW, DVD+R, DVD+RW, DVD-RAM			
Supported Media (write)	CD-R, CD-RW, DVD+R, DVD+RW, DVD-R, DVD-RW, DVD-RAM			
Max Media Capacity (read)	8.5 GB			
Max Media Capacity (write)	8.5 GB			
Transport	Tray Loading			

Security

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

Audio

Technical Specifications

Hardware	Implementation	ADI1984A High Definition CODEC
	Touch-Sensitive Volume Controls	Volume up, volume down, and mute
	Full Duplex	Yes
	Sound Blaster Pro compatible	Yes
	Microphone In	Stereo
	Headphone/Line Out	Stereo

Integrated Mono Speakers	Power Rating	2 Watts
	Impedance	4 Ohms

Communications

Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 82567LM	Ethernet Features	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)
	Power Management	ACPI compliant -- multiple power modes Situation-sensitive features reduce power consumption
	Performance Features	TCP/IP/UDP Checksum Offload (configurable)
	Manageability	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)
	Interface	PCI Express x1
	NIC Device Driver Name	Intel 82567 Gigabit Network Connection

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 WiFi Link 5100	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n (draft 2.0)
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Technical Specifications

Interoperability	<p>Wi-Fi certified (802.11 abg only) Cisco Compatible Extensions Program compliant (802.11 abg only) with Microsoft Windows Vista 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)</p>	
Frequency Band	2.4 GHz and 5 GHz	
Antenna Structure	1 transmit; 2 receive (1x2)	
Data Rates	<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>	
Modulation	<p>Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM</p>	
Security¹	<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 Vista and XP only.</p>	
Sub-channels	Multinational support with frequency bands and channels compliant to local regulations.	
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK	
Network Architecture Models	<p>Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)</p>	
Roaming	IEEE 802.11 compliant roaming between access points	
Output Power (for CCK)²	15 dBm	
Output Power (for OFDM; power varies by data rate)²	15 dBm	
Power Consumption	<p>Transmit: 2.3 Watts (average, with one spatial streams) Receive: 1.9 Watts (average with two receive chains) Idle mode³: 30 mW (average) Radio off: 20 mW (max)</p>	
Power Management	<p>ACPI compliant power management 802.11 compliant power saving mode</p>	
Receiver Sensitivity⁴	300 Mbps: -68 dBm, 54 Mbps: -74 dBm, 6 Mbps: -90 dBm	
Antenna Connections	3 U.FL type connectors, 50 ohm nominal impedance	
Range	<p>802.11 a – Typical (@6 Mbps)</p> <p>802.11 b – Typical (@1 Mbps)</p> <p>802.11 g – Typical (@1 Mbps)</p>	<p>600 feet – Outdoor Open Area 150 feet – Indoor, Office environment</p> <p>1200 feet – Outdoor Open Area 300 feet – Indoor, Office environment</p> <p>1200 feet – Outdoor Open Area 300 feet – Indoor, Office environment</p>
Form Factor	PCI-Express MiniCard	

Technical Specifications

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 Utility⁵	Microsoft Windows XP Choice of Configuration Utility: <ul style="list-style-type: none">• Microsoft Windows XP Wireless Network Connection Manager• Intel PROSet for Microsoft Windows XP (required for Cisco Compatible Extensions support) Microsoft Windows Vista <ul style="list-style-type: none">• Microsoft Windows Vista Wireless Network Connection Manager.• Intel IHV extensions for Windows Vista available to support Cisco Compatible Extensions.
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 and on battery power.4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CCK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).5. WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows XP. WLAN may also be compatible with certain third-party software supplicants. WLAN supplier IHV extensions required for Cisco Compatible Extensions support for Microsoft Windows Vista.

Broadcom 4322AGN 802.11a/b/g/draft-n WiFi Adapter	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n (draft 2.0)
	Interoperability	Wi-Fi certified (802.11abg only) Cisco Compatible Extensions Program compliant (802.11abg only) with Microsoft Windows Vista 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

Technical Specifications

Temperature	Operating	14° to 149° F (–10° to 65° 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 Utility⁴	Microsoft Windows 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● Broadcom IHV extensions for Windows Vista available to support Cisco Compatible Extensions.
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. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CCK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).4. WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows XP. WLAN may also be compatible with certain third-party software supplicants. WLAN supplier IHV extensions required for Cisco Compatible Extensions support for Microsoft Windows Vista.

**Broadcom 4312G
802.11b/g WiFi Adapter**

Wireless LAN Standards	IEEE 802.11b IEEE 802.11g
Interoperability	Wi-Fi certified (802.11abg only) Cisco Compatible Extensions Program compliant (802.11abg only) with Microsoft Windows Vista 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
Data Rates	802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
Modulation	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM
Security¹	Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES, 802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST. Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program Version 4) with Microsoft Windows Vista and XP only.

Technical Specifications

Sub-channels	Multinational support with frequency bands and channels compliant to local regulations.	
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK	
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)	
Roaming	IEEE 802.11 compliant roaming between access points	
Output Power (for CCK)²	17 dBm	
Output Power (for OFDM; power varies by data rate)²	15 dBm	
Power Consumption	Idle associated: 250 mW Idle unassociated: 150 mW Transmit: 2.0 W (max) Receive: 2.0 W (max)	
Power Management	ACPI compliant power management 802.11 compliant power saving mode	
Receiver Sensitivity³	54 Mbps: -71 dBm, 11 Mbps: -85 dBm , 1 Mbps: -95 dBm	
Antenna type	High efficiency dual band antenna with spatial diversity, mounted in the display enclosure	
Range	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	0.026 lb (12 g)	
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	14° to 149° F (–10° to 65° 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 Utility⁴	Microsoft Windows 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● Broadcom IHV extensions for Windows Vista available to support Cisco Compatible Extensions.	
LED Activity	LED Off – Radio OFF; Solid LED On – Radio ON	

Technical Specifications

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

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
	OS Support	Microsoft Windows XP Professional and Home Microsoft 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

Technical Specifications

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

Eco 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 Energy Star
- Taiwan Green Mark
- IT ECO declaration
- EPEAT - GOLD

System Configuration

The configuration used for the Energy Consumption and Declared Noise Emissions data for the Convertible Mini tower Desktop model is based on a "Typically Configured Notebook"

Energy Consumption	115 VAC	230 VAC	100 VAC
Normal Operation	9.48 W	9.86 W	9.46 W
Sleep (Energy Star low power mode)	1.59 W	1.67 W	1.59 W
Off	0.76 W	0.76 W	0.72 W
Heat Dissipation*	115 VAC	230 VAC	100 VAC
Normal Operation	32 BTU/hr	34 BTU/hr	32 BTU/hr
Sleep	5 BTU/hr	6 BTU/hr	5 BTU/hr

Technical Specifications

Off

3 BTU/hr

3 BTU/hr

3 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)

System Fan Off	Sound Power (LWAd, bels)	Sound Pressure (LpAm, decibels)
Idle	2.6	18
Fixed Disk (random writes)	3.2	20

System fan is usually off except when charging the battery

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
6-Cell High capacity Lithium-Ion battery

Additional information:

This product is in compliance with the 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.

This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).

This product is in compliance with the IEEE 1680 (EPEAT) standard at the GOLD level, see: www.epeat.net

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.

Technical Specifications

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

This product is greater than 96.6% recycle-able when properly disposed of at end of life.

Packaging Materials

- External:
 - Polyethylene low density 13 g
 - Corrugated carton 236 g
- Internal:
 - Corrugated 280 g
- The Polyethylene low density packaging material is made from 100% recycled content.
- The corrugated carton packaging material contains at least 80% recycled content.
- The corrugated packaging material contains at least 100% 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
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes

Technical Specifications

- 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

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: <http://www.hp.com/go/reuse-recycle> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/recyclers>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

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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