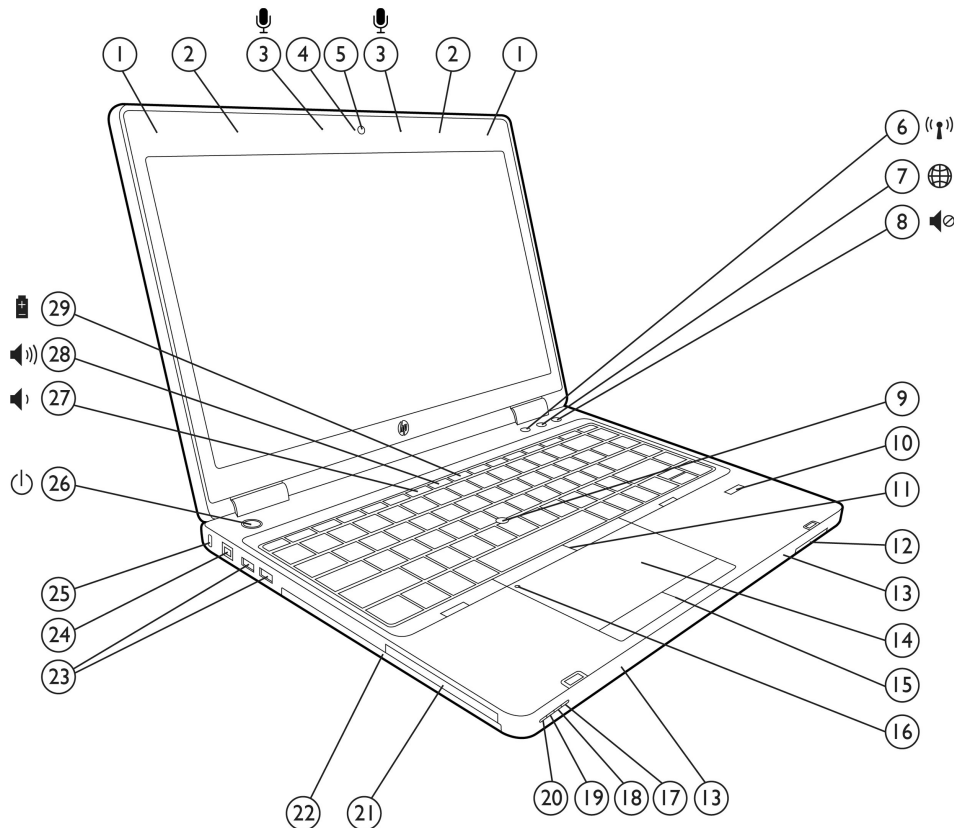


# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Overview



1. WLAN antennas
2. WWAN antennas (select models)
3. Dual-microphone array\*
4. Webcam LED indicator (with optional webcam)
5. Optional 720p HD webcam
6. Wireless on/off button with LED indicator
7. HP QuickWeb button with LED indicator
8. Volume mute button with LED indicator
9. Optional pointstick
10. Optional HP Fingerprint Sensor
11. Pointstick pick buttons (with optional pointstick)
12. Secure Digital/MMC slot
13. Stereo speakers
14. Touchpad with scroll zone
15. Touchpad pick buttons
16. Touchpad on/off button with LED indicator
17. Hard drive activity / HP 3D DriveGuard LED indicator
18. Battery charging LED indicator
19. Power/standby LED indicator
20. Wireless on/off LED indicator
21. ExpressCard/54 slot or optional Smart Card Reader
22. Upgrade Bay (optical drive, second hard drive or weight saver)
23. (2) USB 2.0 ports
24. RJ-45/Ethernet port
25. Security lock slot
26. Power button with LED indicator
27. Volume down function key
28. Volume up function key
29. HP Power Assistant function key

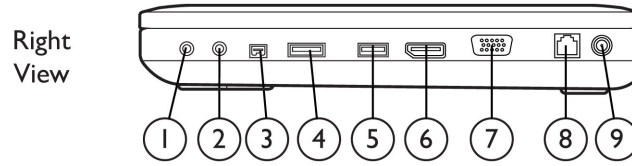
\* Models without optional webcam have single integrated microphone on left side of display panel.



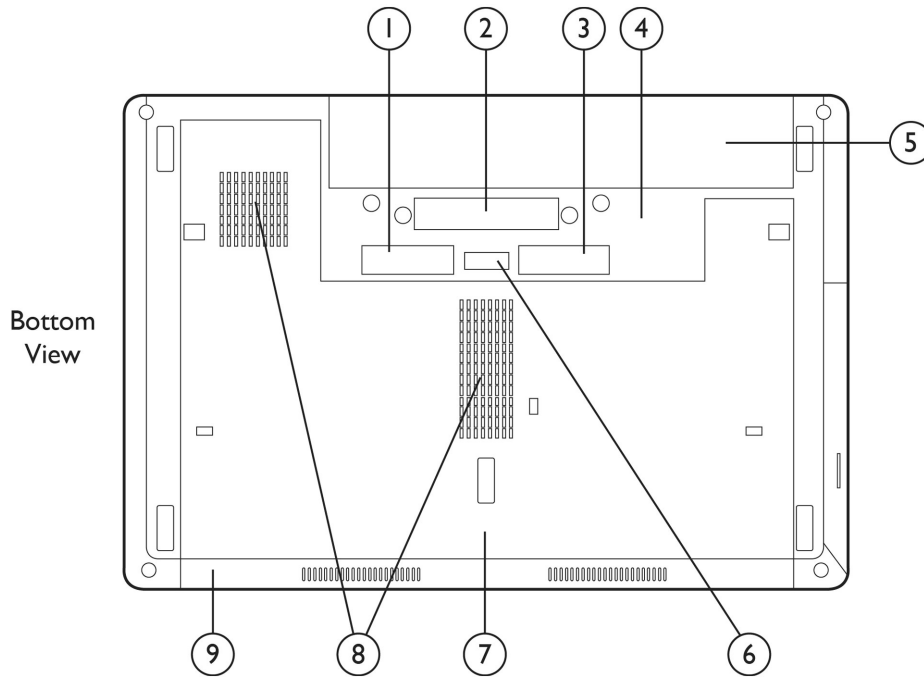
# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Overview



1. Stereo headphone/line out
2. Stereo microphone/line in
3. 1394a port
4. eSATA/USB 2.0 combo port
5. (1) USB 2.0 port
6. DisplayPort
7. VGA/external monitor connector
8. RJ-11/modem port
9. Power connector



1. Battery release latch
2. Docking connector
3. Bottom cover release latch
4. SIM slot for WWAN (select models)
5. Battery bay
6. Secondary battery connector
7. Hard drive, memory, and wireless compartments under bottom cover
8. Vents
9. Bluetooth module compartment

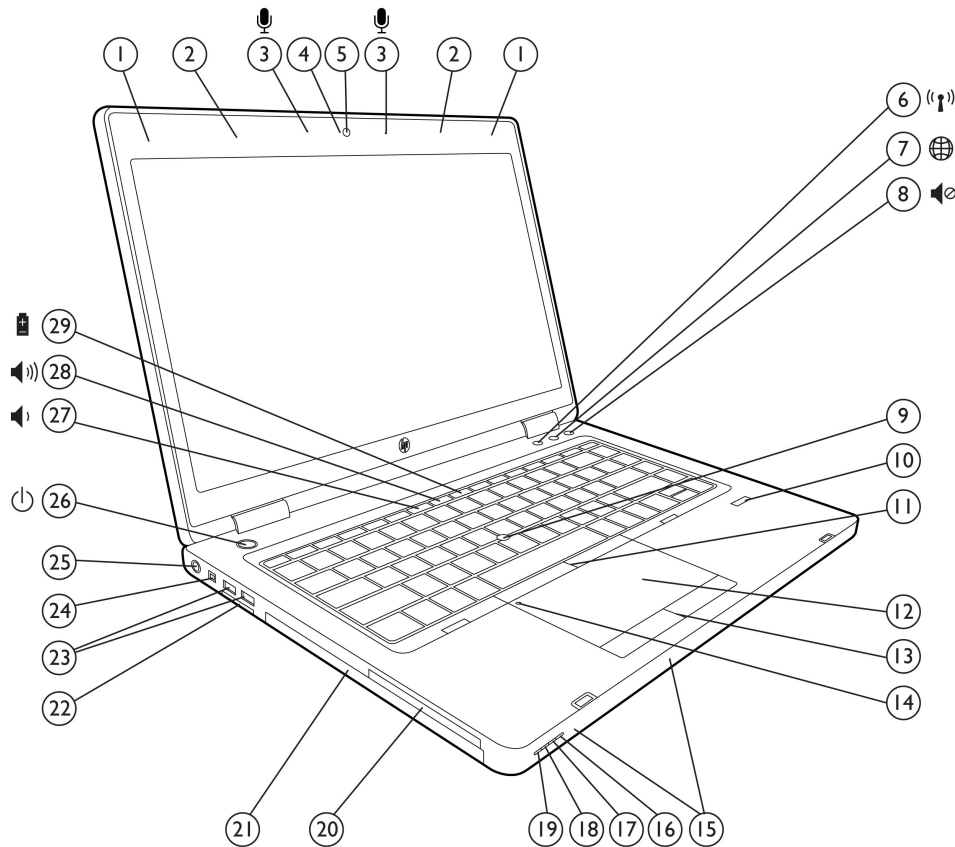
## HP ProBook 6460b Notebook PC



# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

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13. Touchpad pick buttons
14. Touchpad on/off button with LED indicator
15. Stereo speakers
16. Hard drive activity / HP 3D DriveGuard LED indicator
17. Battery charging LED indicator
18. Power/standby LED indicator
19. Wireless on/off LED indicator
20. ExpressCard/54 slot or optional Smart Card Reader
21. Upgrade Bay (optical drive, second hard drive or weight saver)
22. Secure Digital/MMC slot
23. (2) USB 2.0 ports
24. 1394a port
25. Power connector
26. Power button with LED indicator
27. Volume down function key
28. Volume up function key
29. HP Power Assistant function key

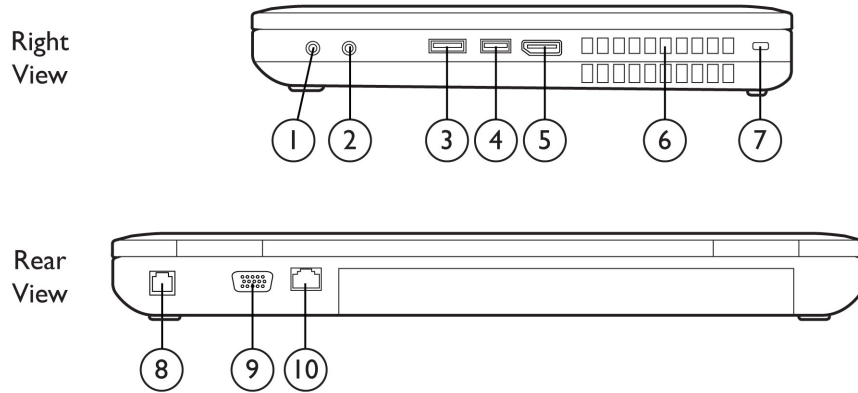
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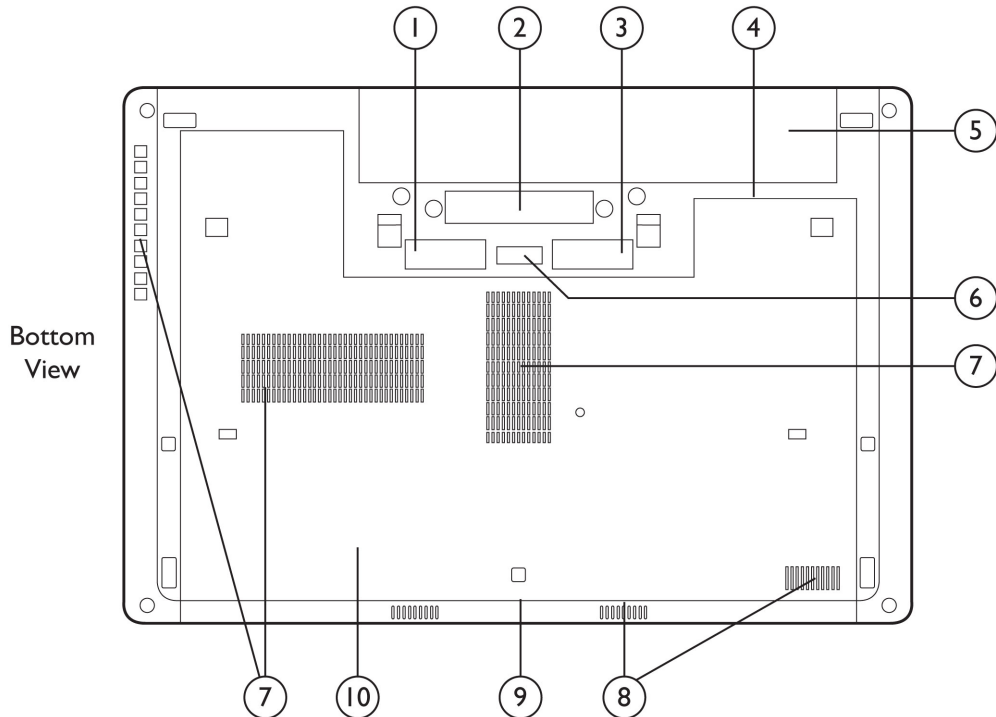
# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Overview



- |                              |                                   |
|------------------------------|-----------------------------------|
| 1. Stereo headphone/line out | 6. Vents                          |
| 2. Stereo microphone/line in | 7. Security lock slot             |
| 3. eSATA/USB 2.0 combo port  | 8. RJ-11/modem port               |
| 4. (1) USB 2.0 port          | 9. VGA/external monitor connector |
| 5. DisplayPort               | 10. RJ-45/Ethernet port           |

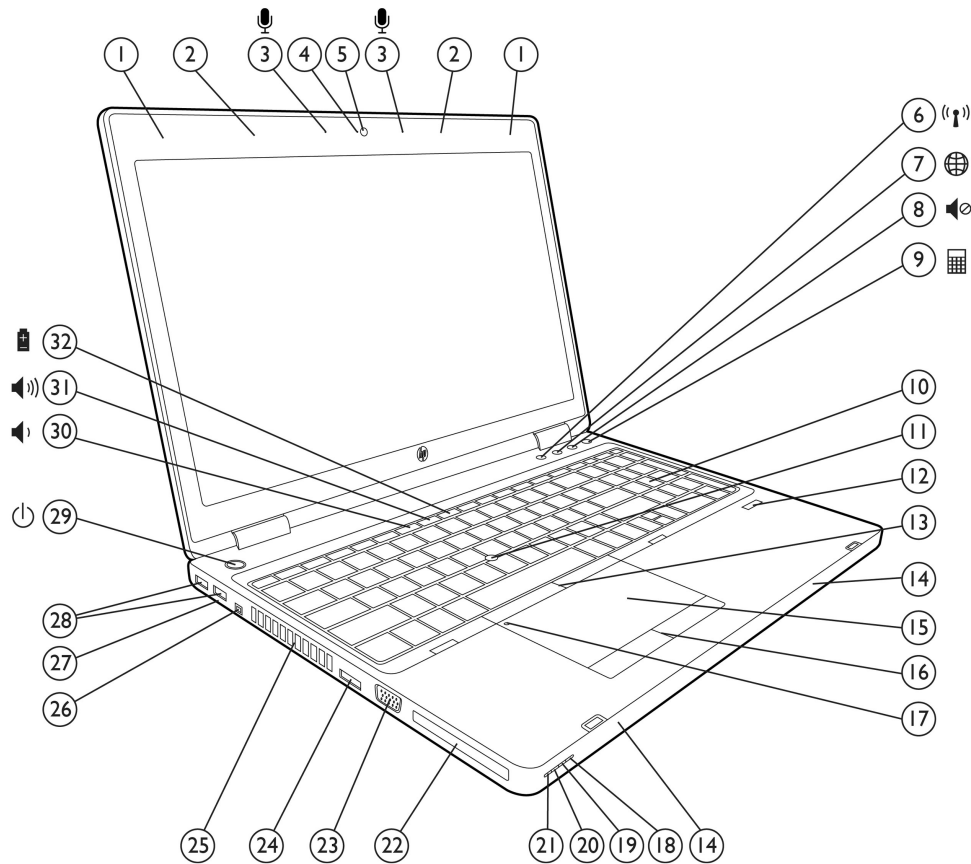


- |                                      |  |
|--------------------------------------|--|
| 1. Battery release latch             | 7. Vents   |
| 2. Docking connector                 | 8. Speakers  |
| 3. Bottom cover release latch        | 9. Bluetooth module compartment                                      |
| 4. SIM slot for WWAN (select models) | 10. Hard drive, memory, and wireless compartments under bottom cover |
| 5. Battery bay                       |  |
| 6. Secondary battery connector       |  |



## Overview

### HP ProBook 6560b Notebook PC



1. WLAN antennas
2. WWAN antennas (select models)
3. Dual-microphone array\*
4. Webcam LED indicator (with optional webcam)
5. Optional 720p HD webcam
6. Wireless on/off button with LED indicator
7. HP QuickWeb button with LED indicator
8. Volume mute button with LED indicator
9. Calculator button with LED indicator
10. Numeric keypad
11. Optional pointstick
12. Optional HP Fingerprint Sensor
13. Pointstick pick buttons (with optional pointstick)
14. Stereo speakers
15. Touchpad with scroll zone
16. Touchpad pick buttons
17. TouchPad on/off light
18. Hard drive activity / HP 3D DriveGuard LED indicator
19. Battery charging LED indicator
20. Power/standby LED indicator
21. Wireless on/off LED indicator
22. ExpressCard/54 slot or optional Smart Card Reader
23. VGA/external monitor connector
24. eSATA/USB 2.0 combo port
25. Vent
26. 1394a port
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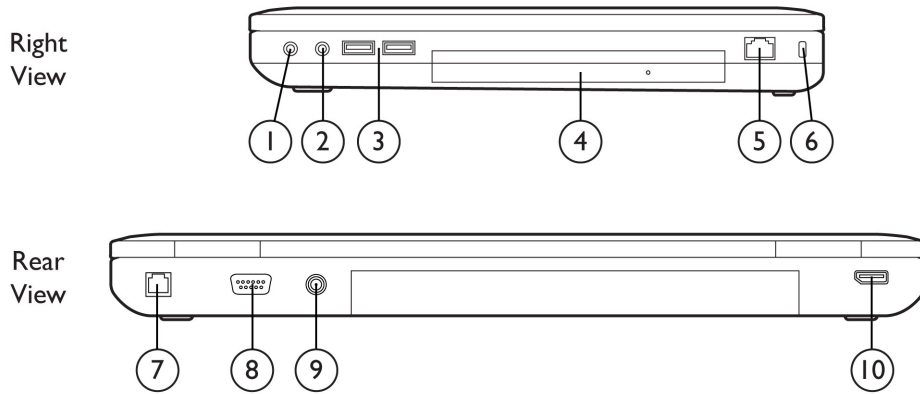
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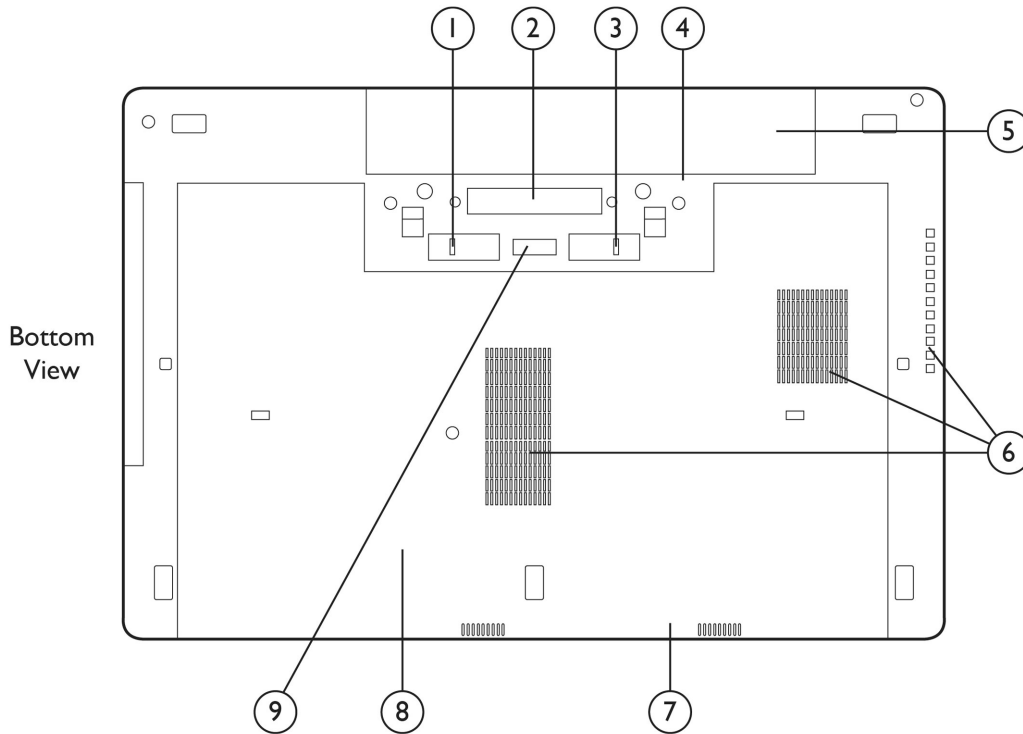
# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Overview



- |   |                       |
|---|-----------------------|
| 1. Stereo headphone/line out  | 6. Security lock slot |
| 2. Stereo microphone/line in  | 7. RJ-11/modem port   |
| 3. (2) USB 2.0 ports  | 8. Serial port        |
| 4. Upgrade Bay (optical drive or second hard drive or weight saver) | 9. Power connector    |
| 5. RJ-45/Ethernet port  | 10. DisplayPort       |



- |                               |   |
|-------------------------------|---|
| 1. Battery release latch      | 6. Vents  |
| 2. Docking connector          | 7. Bluetooth module compartment                                     |
| 3. Bottom cover release latch | 8. Hard drive, memory, and wireless compartments under bottom cover |



## Overview

4. SIM slot for WWAN (select models)
5. Battery bay
9. Secondary battery connector

## At A Glance

- Genuine Windows 7 versions, Genuine Windows Vista Basic, SuSE Linux Enterprise Desktop 11, or FreeDOS
- All new design with bead-blast aluminum display enclosure, magnesium-reinforced chassis, wear-resistant tungsten-colored HP DuraFinish, HP DisplaySafe frame, precision latches, and keyboard in full aluminum deck
- Choice of 2nd generation Intel® Core™ i7, i5 and i3 dual-core processors, or Celeron® processor
- Intel Core i7 with vPro and Core i5 with vPro technology (optional)
- AMD Radeon™ HD 6470M discrete graphics with 512 MB dedicated video memory (HP 6460b and 6560b only) or integrated Intel HD Graphics 3000 (Intel HD Graphics on Celeron configurations)
- AMD Eyefinity Technology for advanced multi-monitor support (HP 6460b and 6560b only)
- Widescreen LED-backlit display
  - HP ProBook 6360b: 13.3-inch diagonal HD
  - HP ProBook 6460b: 14.0-inch diagonal HD or HD+
  - HP ProBook 6560b: 15.6-inch diagonal HD or HD+ WVA
- Easily hot dock with one of the optional HP docking stations
- Choice of primary battery to optimize run-time or weight: 9-cell (100 WHr), 6-cell (55 WHr), or 3-cell (31 WHr)
- Touchpad with scroll zone; optional pointstick
- Security features including HP ProtectTools, with central management across HP and non-HP client PCs
- HP Power Assistant allows you to conserve power, stretch battery run-time, accurately monitor your reported power need, and report workforce power consumption.
- Flexible wireless connectivity options:
  - Optional integrated HP hs2340 HSPA+ Mobile Broadband Module connects to both HSPA and HSPA+ (UMTS) networks and provides GPS functionality
  - Optional integrated HP un2430 EV-DO/HSPA Mobile Broadband Module (Gobi 3000) (availability expected May, 2011)
  - Integrated Intel Centrino® 802.11 a/b/g/n or b/g/n, or Broadcom 802.11 a/b/g/n or b/g/n wireless LAN module
  - Bluetooth® v2.1 +EDR
- Upgrade Bay for optical drive, optional second hard drive, or weight saver
- Choice of 7200 rpm user-removable hard drive up to 750 GB with HP 3D DriveGuard protection, or 128/160 GB Solid State Drive
- BFR/PVC-free\*, ENERGY STAR® qualified,\*\* and EPEAT Gold registered in the U.S. EPEAT status varies by country—please see [epeat.net](http://epeat.net).

\* Meeting the industry definition of 'BFR/PVC-free' per the iNEMI Position Statement on "Low Halogen" Electronics. Plastic parts incorporated into the chassis generally contain < 1000 ppm (0.1%) of bromine or chlorine. Printed circuit board and substrate laminates generally contain < 1500 ppm (0.15%) of total bromine and chlorine. Service parts after purchase may not be BFR/PVC-free. External accessories, including power supplies, power cords, and peripherals as well as the following customer-configurable internal components: ATT SIM card are not BFR/PVC-free.

\*\*Microsoft Windows is required for ENERGY STAR qualification.



## Standard Features (availability may vary by country)

### Processors

#### 2<sup>nd</sup> Generation Intel Core i7 Processors

Intel Core i7-2620M Processor (2.70 GHz, 4 MB L3 cache, 2 cores/4 threads, 35W)\*  
Up to 3.40 GHz with Intel Turbo Boost Technology

#### 2<sup>nd</sup> Generation Intel Core i5 Processors

Intel Core i5-2540M Processor (2.60 GHz, 3 MB L3 cache, 2 cores/4 threads, 35W)\*  
Up to 3.30 GHz with Intel Turbo Boost Technology

Intel Core i5-2520M Processor (2.50 GHz, 3 MB L3 cache, 2 cores/4 threads, 35W)\*  
Up to 3.20 GHz with Intel Turbo Boost Technology

Intel Core i5-2410M Processor (2.30 GHz, 3 MB L3 cache, 2 cores/4 threads, 35W)\* †  
Up to 2.90 GHz with Intel Turbo Boost Technology

#### 2<sup>nd</sup> Generation Intel Core i3 Processors

Intel Core i3-2330M Processor (2.20 GHz, 3 MB L3 cache, 2 cores/4 threads, 35W)\* †

Intel Core i3-2310M Processor (2.10 GHz, 3 MB L3 cache, 2 cores/4 threads, 35W)\* †

#### Intel Celeron Processor

Intel B810 Processor (1.60GHz, 2MB L3 Cache, 2 threads, 35W)\*

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

† Not available with vPro.

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

### Operating System

#### Preinstalled

Genuine Windows 7 Professional 32\*  
Genuine Windows 7 Professional 64\*  
Genuine Windows 7 Home Premium 32\*  
Genuine Windows 7 Home Premium 64\*  
Genuine Windows 7 Home Basic 32\* (select countries)  
Genuine Windows 7 Starter\* (select countries and configurations)  
SuSE Linux Enterprise Desktop 11  
FreeDOS

#### Supported

Genuine Windows 7 Enterprise 32\*  
Genuine Windows 7 Enterprise 64\*  
Genuine Windows 7 Ultimate 32\*  
Genuine Windows 7 Ultimate 64\*  
Genuine Windows Vista Enterprise 32\*\*  
Genuine Windows Vista Enterprise 64\*\*  
Genuine Windows Vista Business 32\*\*  
Genuine Windows Vista Business 64\*\*  
Genuine Windows Vista Basic 32\*\*†  
Genuine Windows XP Professional 32

#### Certified

SuSE Linux Enterprise Desktop 11

\* System may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality. See <http://www.microsoft.com/windows/windows-7/> for details.

\*\* Certain Windows Vista product features require advanced or additional hardware. See: <http://www.microsoft.com/windowsvista/getready/hardwarereqs.aspx> and <http://www.microsoft.com/windowsvista/getready/capable.aspx> for details. Windows Vista Upgrade





## Standard Features (availability may vary by country)

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 Home Basic will not be a configuration choice after 9/30/11.

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### Chipset

Mobile Intel QM67 Express Chipset (vPro configurations with select processors)  
Mobile Intel HM65 Express Chipset (non-vPro configurations)

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### Intel Core i5 with vPro/Core i7 with vPro technology capable

Intel Core i5 with vPro and Core i7 with vPro technology is a selectable feature that is available on units configured with select processors, an Intel Centrino® Advanced-N WLAN module and a preinstalled Windows operating system. It provides advances in remote manageability, security, energy efficient performance, and wireless connectivity. Intel Active Management Technology 7.0 (iAMT) 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 network, 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 Core i5 with vPro/Core i7 with vPro technology, such as Intel Active Management technology and Intel Virtualization technology, requires additional third- party software in order to run. Availability of future "virtual appliances" applications for Intel Core i5 with vPro/Core i7 with vPro technology is dependent on third- party software providers. Compatibility with future "virtual appliances" is yet to be determined.

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### Graphics

Models with discrete graphics (HP 6460b and HP 6560b only):

AMD Radeon™ HD 6470M with 512 MB dedicated DDR3 video memory  
Microsoft DirectX 11 (Shader Model 5.0) and OpenGL 4.0 capable  
AMD Eyefinity Technology supports up to four independent displays  
when using an HP Advanced Docking station

Models with integrated graphics:

Intel HD Graphics 3000  
Microsoft DirectX 10.1 (Shader Model 4.1) and OpenGL 3.0 capable

**NOTE:** Intel HD Graphics for configurations with Celeron processor



# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Standard Features (availability may vary by country)

Display	Internal	HP ProBook 6360b: 13.3-inch diagonal LED-backlit HD anti-glare (1366 x 768 resolution)  HP ProBook 6460b: 14.0-inch diagonal LED-backlit HD anti-glare (1366 x 768 resolution) 14.0-inch diagonal LED-backlit HD+ anti-glare (1600 x 900 resolution)  HP ProBook 6560b: 15.6-inch diagonal LED-backlit HD anti-glare (1366 x 768 resolution) 15.6-inch diagonal LED-backlit HD+ WVA anti-glare (1600 x 900 resolution)
	External	HP Privacy Filter support Up to 32-bit per pixel color depth <b>DisplayPort</b> supports resolutions up to 2560 x 1600, 30-bit color depth at 60 Hz, and full HD (1920 x 1080) monitors, 24-bit color depth at 120 Hz <b>VGA</b> port supports resolutions up to 2048 x 1536 at 75 Hz, and lower resolutions at up to 100 Hz <b>DVI-D</b> (single link) video signal available through DVI port in optional HP Docking Station (sold separately) supports resolutions up to 1600 x 1200 at both full and reduced blanking, and 1920 x 1200 at reduced blanking <b>NOTE:</b> Resolutions are dependent upon monitor capability, and resolution and color depth settings.

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Memory	Standard	DDR3 PC3-10600 SDRAM (1333 MHz) Two SODIMM slots supporting dual-channel memory 2 GB, 4 GB, and 8 GB SODIMMs
	Maximum Dual-channel	Upgradeable to 16 GB with 8 GB SODIMMs in slots 1 and 2 Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory slots.  <b>NOTE:</b> Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed. Full availability of 4 GB or more of memory requires a Windows 64-bit operating system 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.

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## Standard Features (availability may vary by country)

### Communications

Integrated Intel 82579LM Gigabit\* Network Connection (vPro configurations)  
Integrated Intel 82579V Gigabit\* Network Connection (non- vPro configurations)  
56K V.92 modem\*\*

\* The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility 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.

\*\* 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 and wireless WAN options featuring support for the latest industry standards. Broadband Wireless (WWAN) requires a Windows operating system and is available in select countries as a standard, factory configurable feature only. Integrated Bluetooth is also available (factory configurable only) and can be combined with any of the supported wireless LAN and wireless WAN options.

**Mobile Broadband options** Two 850/900/1575/1700/1800/1900/2100 MHz antennas integrated in the top of the display panel support current and future WWAN technologies.  
**NOTE:** Separately purchased mobile network operator service is required.

**HP hs2340 HSPA+ Mobile Broadband Module** Integrated mobile broadband module that provides connectivity to both HSPA and HSPA+ (UMTS) networks. It also provides standalone, Internet and network assisted GPS functionality for various mapping applications and security applications such as Computrace Pro for HP ProtectTools.

**HP un2430 EV-DO/HSPA Mobile Broadband Module** (availability expected May, 2011) Integrated mobile broadband module with Gobi global mobile Internet technology that provides connectivity to both CDMA (EVDO) and UMTS (HSPA) networks. It also provides GPS functionality for various mapping applications and security applications such as Computrace LoJack Pro Premium for HP ProtectTools.

**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  
Dual antennas integrated in the display enclosure

**Intel Centrino Advanced-N 6205 (2x2)** Integrated support for 802.11 a, b, g, and n\*  
2 transmit, 2 receive antennas  
Up to 300 mbps data rate

**Intel Centrino Wireless-N 1000 (1x2)** Integrated support for 802.11 b, g, and n\*  
1 transmit, 2 receive antennas  
Up to 300 mbps data rate

**Broadcom 43224AGN 802.11a/b/g/n WiFi Adapter** Integrated support for 802.11 a, b, g, and n  
Up to 300 mbps data rate



## Standard Features (availability may vary by country)

**Broadcom 4313GN 802.11b/g/n WiFi Adapter** Integrated support for 802.11 b, g, and n  
Up to 72 mbps data rate

**HP Integrated Module with Bluetooth 2.1 +EDR Wireless Technology** Bluetooth Specification v2.1 +EDR compliant  
Works with a wide range of Bluetooth devices

*\*Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.*

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### Keyboard

The HP spill-resistant keyboard is designed using a thin layer of Mylar film under the keyboard and a drain system that funnels fluid through a hole in the bottom of the notebook. This minimizes the risk of damage to sensitive components underneath. The 101/102-key compatible keyboard features a 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, 12 function keys, and 19.05 x 19.05 mm key pitch (center-to-center spacing). U.S. and International key layouts are available. Other features include hot keys for instant access to power conservation and brightness. The HP ProBook 6560b includes a separate numeric keypad.

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### Launch Buttons and Function Keys

Separate launch buttons provide easy access to the following features: wireless on/off, HP QuickWeb, and volume mute. The HP ProBook 6560b also features a calculator launch button. Function keys provide control of the following features: standby mode, external display, volume down, volume up, HP Power Assistant, and display brightness.

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### Pointing device

Touchpad with on/off button, two-way scroll, gestures, two pick buttons  
Optional pointstick with two additional pointstick buttons (for a total of four)

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### Expansion card slots

**ExpressCard/54 slot** Supports ExpressCard/54 and ExpressCard/34  
or

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

**Secure Digital/MMC slot** Supports SD (Secure Digital), SDHC, SDXC, MMC (MultiMedia Card), and MMC+

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# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Standard Features (availability may vary by country)

Internal Storage	Hard drives	250/320/500/750 GB 7200 rpm SMART SATA II 320 GB 7200 rpm SMART SATA II Self Encrypting Drive
	<b>NOTE:</b> These hard drives are customer removable and will withstand multiple insertion/removal cycles. Up to 10 GB is reserved for the system recovery software.	
	HP 3D DriveGuard (Windows only)	The hard drive is mounted directly to the notebook frame, reducing the transmission of shock to 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.
	Solid State Drive	128/160 GB
Upgrade Bay	Fixed 12.7 mm SATA optical drive	Blu-ray ROM DVD+/-RW SuperMulti DL Drive DVD+/-RW SuperMulti DL Drive DVD-ROM Drive
	Second hard drive Weight saver	500 GB 7200 rpm SMART SATA II Hard Drive
Interfaces	ExpressCard/54 slot	One (or optional Smart Card Reader)
	External monitor	Two – (1) DisplayPort, (1) 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	Three on HP 6360b and HP 6460b; four on HP 6560b
	eSATA/USB 2.0 combo	One
	Serial port	One (HP ProBook 6560b only)
	Docking connector	One
Secondary battery connector	One	



## Standard Features (availability may vary by country)

### Audio/Visual

SRS Premium Sound™

Integrated stereo speakers

Integrated microphone (dual-microphone array when equipped with optional webcam)

Button for volume mute; function keys for volume up and down

Stereo headphone/line out

Stereo microphone/line in

Optional 720p HD webcam

- HD format (widescreen)
- Supports videoconferencing and still image capture
- High quality fixed focus lens
- Video capture at various resolutions up to 1280x720 resolution (720p) and up to 30fps
- M-JPEG compression supports higher frame rates for video capture and videoconferencing
- Improved low light sensitivity
- Improved dynamic range

### Software

**Preinstalled software with Windows operating system**

HP Recovery Manager

HP Support Assistant

HP ProtectTools Security Manager

HP ProtectTools for Central Management

HP Hotkey Support

HP QuickWeb

HP Power Assistant

HP Connection Manager 4.0

HP DayStarter

Microsoft Office 2010 preloaded (purchase of a Product

Key required to activate a full Office 2010 suite)\*

Norton Internet Security 2011\*\*

PDF Complete Special Edition\*\*\*

Intervideo WinDVD - DVD Player (select models)

Roxio Burn Secure (select models)

Roxio MyDVD 10 SE (select models)

HP Webcam Software (select models)

Skype

**Additional software available from the web**

HP SoftPaq Download Manager

\* Microsoft Office 2010 Preloaded includes reduced functionality versions of Word and Excel. Purchase of Product Key required to activate full Office 2010 suite available at participating resellers/retailers and <http://www.office.com>.

\*\* Norton Internet Security 2011 includes 60 days of complimentary live updates; subscription required for live updates thereafter. Internet access required to receive updates.

\*\*\* PDF Complete Special Edition 60 day trial; purchase license afterwards for full functionality.



## Standard Features (availability may vary by country)

**HP Recovery Manager** Models shipped with Windows 7 or Windows Vista include 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 20 GB of the hard drive is reserved for the system recovery software.

### Security

#### Standard Features

HP ProtectTools Security Manager (standard modules include)

- Credential Manager
- Computrace\* Pro
- Device Access Manager
- Drive Encryption
- Face Recognition (webcam configurations only)
- File Sanitizer
- Privacy Manager
- Embedded Security

Enhanced Pre-Boot Security (Multiuser / Multifactor)

HP SpareKey

One-Step Logon

TPM 1.2 Embedded Security Chip\*\*

HP Disk Sanitizer

Security lock slot

Support for Intel AT\*\*\*

#### Optional Features

##### Smart Card Reader

(replaces ExpressCard/54 slot)

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

##### HP Fingerprint Sensor

Enhanced sensor scans the fingerprint to uniquely identify and authenticate a person.

##### HP Privacy Filter

Narrows viewing area so that screen data is visible only to persons directly in front of the monitor.

##### Computrace\* Pro for HP ProtectTools with GPS Tracking

Subscription based security solution providing the ability to track, initiate physical recovery, conduct asset management, and perform remote data delete by utilizing GPS technology. GPS functionality requires HP Mobile Broadband Module.

\* The Computrace agent is shipped turned off, and must be activated by customers when they purchase a subscription with terms ranging from one to five years.

\*\* 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/products/security>.

\*\*\* Intel AT security requires a separately purchased Absolute Computrace service subscription and must be activated and configured. Check with Absolute for availability in your country. Intel and HP assume no liability for lost or stolen data and/or systems or any other damages resulting therefrom. See <http://www.intel.com/technology/anti-theft/>



## Standard Features (availability may vary by country)

### HP ProtectTools Security Manager with Central Management

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. The following modules are available on the hard drive (also downloadable from the web) and can be configured in Software Setup:

- Credential Manager for HP ProtectTools
- Device Access Manager for HP ProtectTools
- Drive Encryption for HP ProtectTools
- Face Recognition with Bluetooth Verification
- File Sanitizer for HP ProtectTools
- Privacy Manager for HP ProtectTools (Chat & Sign)
- Embedded Security for HP ProtectTools
- Computrace Pro for HP ProtectTools

HP ProtectTools is now capable of being centrally managed from a single control point. HP ProtectTools is management ready out of the box, in partnership with Digital Persona, and provides features that customers expect from a centrally managed security solution, such as user provisioning, credential reset, and system and network revocation. Central Management is available in two feature levels:

- Digital Persona Pro Enterprise: Designed for environments with Active Directory. For large businesses, as well as smaller businesses utilizing an active directory based infrastructure. Gives IT Managers the ability to create role based security policies, provision users, and create login policies based on passwords, biometrics or smart cards. Management features also include remote credential recovery in case the user forgets the password, loses the smart card, or cannot use the fingerprint reader for any reason. In addition, advanced auditing capabilities are also built in.
- Digital Persona Workgroup Manager: Designed for environments without Active Directory. This option can be used by smaller businesses as well as workgroups within large organizations. Workgroup Manager offers features similar to Digital Persona Pro Enterprise, but without active directory integration. Workgroup activation is built into HP ProtectTools, and activation of up to 5 seats is completely free.

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### Power Supply

Models with discrete graphics or quad-core processor:

External 90-watt Smart AC adapter

Models with integrated graphics and without quad-core processor:

External 65-watt Smart AC adapter

Power cord included is 6-foot (1.8 meter).

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. HP Fast Charge does not apply to the 9-cell primary battery, HP ST09 Extended Life Notebook Battery, or HP BB09 Ultra Extended Life Notebook Battery.





## Standard Features (availability may vary by country)

<b>Battery</b>	<b>Primary battery</b>	HP 9-cell (100 WHr) Li-Ion battery HP 6-cell (55 WHr) Li-Ion battery HP 3-cell (31 WHr) Li-Ion battery
	<b>Optional HP Long Life Battery</b>	HP Long Life 6-cell (55 WHr) Battery (3-year warranty) HP Long Life 6-cell (51 WHr) Battery (1-year warranty)
	<b>Optional HP ST09 Extended Life Notebook Battery</b>	9-cell (73 WHr) Li-Ion battery
	<b>Optional HP BB09 Ultra Extended Life Notebook Battery</b>	9-cell (100 WHr) Li-Ion battery

<b>Battery Life</b>	<b>HP ProBook 6360b</b>	
	9-cell (100 WHr)	Up to 13 hours and 45 minutes
	6-cell (55 WHr)	Up to 7 hours and 15 minutes
	with optional HP ST09 Extended Life Notebook Battery	Up to 17 hours and 45 minutes
	with optional HP BB09 Ultra Extended Life Notebook Battery	Up to 22 hours
	3-cell (31 WHr)	Up to 4 hours
	<b>HP ProBook 6460b*</b>	
	6-cell (55 WHr)	Up to 7 hours and 15 minutes
	with optional HP ST09 Extended Life Notebook Battery	Up to 20 hours and 45 minutes
	with optional HP BB09 Ultra Extended Life Notebook Battery	Up to TBD hours and TBD minutes
	9-cell (100 WHr)	Up to 13 hours and 15 minutes
	3-cell (31 WHr)	Up to 3 hours and 45 minutes
	<b>HP ProBook 6560b*</b>	
	6-cell (55 WHr)	Up to 6 hours and 45 minutes
	with optional HP ST09 Extended Life Notebook Battery	Up to 15 hours and 15 minutes
with optional HP BB09 Ultra Extended Life Notebook Battery	Up to 19 hours	
9-cell (100 WHr)	Up to 12 hours	
3-cell (31 WHr)	Up to 3 hours and 15 minutes	



# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

Standard Features (availability may vary by country)

\* Configurations with integrated graphics.

**NOTE:** Battery life will vary depending on the product model, configuration, loaded applications, features, use, wireless functionality and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See MobileMark07 battery benchmark [www.bapco.com/products/mobilemark2007](http://www.bapco.com/products/mobilemark2007) for additional details.

**System Standby Time** Up to 1 week

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**Power Conservation** AMD PowerPlay technology (models with discrete graphics)  
Hibernation  
Standby  
ACPI compliance

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**Docking and Stands** HP 90W Docking Station  
HP 120W Advanced Docking Station  
HP USB 2.0 Docking Station  
HP Essential USB 2.0 Port Replicator  
HP LAN and USB Travel Hub

**NOTE:** Some HP Docking stations may not support every feature of some HP Notebook models. Please refer to the individual docking station documentation for specific information about supported features.

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**Service and Support** HP Services offers limited 3-year, 1-year and 90-day warranty options depending on country. 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>.



# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

Options (availability may vary by country)

**NOTE:** Options/capabilities listed in the QuickSpecs represent those capabilities available through Base Units or Build to Order configurations. The various product features and capabilities will vary in terms of configurable vs. aftermarket options (AMOs). There may be options and capabilities available through CTO that are not available as AMOs.

<b>Memory</b>	HP 1 GB (DDR3 1333 MHz) SODIMM	AT911AA#xxx
	HP 2 GB (DDR3 1333 MHz) SODIMM	AT912AA#xxx
	HP 4 GB (DDR3 1333 MHz) SODIMM	AT913AA#xxx
	HP 8 GB (DDR3 1333 MHz) SODIMM	QP013AA#xxx

<b>Storage</b>	HP 250 GB Pocket Media Drive	FE477AA
	HP Mobile USB DVD	XQ543AA
	HP Mobile USB DVDRW	BU516AA
	HP Upgrade Bay SATA 500 GB 7200 rpm Hard Drive	LX733AA#xxx
	HP Primary SATA 500 GB 7200 rpm Hard Drive	AU098AA#xxx
	HP Upgrade Bay DL DVD+/-RW	LZ835AA

<b>Expansion Solutions</b>	HP 90W Docking Station	VB041AA#xxx
	HP 120W Advanced Docking Station	NZ222AA#xxx
	HP USB 2.0 Docking Station	AY052AA#xxx
	HP Essential USB 2.0 Port Replicator	AQ731AA#xxx
	HP LAN and USB Travel Hub	BM868AA#xxx
	HP Display & Notebook Stand	AW662AA#xxx
	HP Adjustable Display Stand	AW663AA#xxx
	HP Adjustable Dual Display Stand	AW664AA#xxx

<b>Power</b>	HP ST09 Extended Life Notebook Battery	QK639AA
	HP BB09 Ultra Extended Life Notebook Battery	QK640AA
	HP CC06XL Long Life Notebook Battery	QK642AA
	HP CC09 Notebook Battery	QK643AA
	HP 90W Smart AC Adapter	ED495AA#xxx
	HP 90W Smart AC/Auto/Air Combo Adapter	AJ652AA#xxx
	HP 90W Smart Auto/Truck Adapter	ED493AA
	HP 65W Slim Adapter	AX727AA#xxx
	HP 90W Slim Adapter	BT796AA#xxx

<b>Carrying Cases</b>	HP Basic Carrying Case	AJ078AA
	HP Business Nylon Case	BP848AA
	HP Professional Slim Top Load Case	AY530AA



# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

Options (availability may vary by country)

<b>Security</b>	HP Notebook Combo Lock	AY475AA#xxx
	HP Keyed Cable Lock	BV411AA
	HP 13.3-inch Display Privacy Filter	AU649AA#xxx
	HP 14.0-inch Display Privacy Filter	AU100AA#xxx
	HP 15.6-inch Display Privacy Filter	AU103AA#xxx

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<b>Input/Output Devices</b>	HP USB Optical Travel Mouse	RH304AA
	HP USB/PS2 Optical 2-Button Scroll Mouse	DC369A
	HP USB Keyboard & Mouse Bundle	RC465AA#xxx
	HP Notebook Projection Companion	AX325AA#xxx



## Technical Specifications

System Unit	Dimensions (HxWxD)	HP ProBook 6360b: 1.32 in (at front) x 12.68 in x 8.66 in 33.7 mm (at front) x 322 mm x 220 mm
		HP ProBook 6460b: 1.34 in (at front) x 13.31 in x 9.11 in 34.0 mm (at front) x 338 mm x 231.3 mm
		HP ProBook 6560b: 1.35 in (at front) x 14.72 in x 9.86 in 34.3 mm (at front) x 374 mm x 250.5 mm
	Weight	HP ProBook 6360b: Starting at 4.19 lb (1.90 kg) with hard drive, weight saver (no optical drive), and 3-cell battery Starting at 4.46 lb (2.02 kg) with hard drive optical drive, and 3-cell battery Starting at 4.65 lb (2.11 kg) with hard drive optical drive, and 6-cell battery Starting at 5.45 lb (2.47 kg) with hard drive optical drive, and 9-cell battery
		HP ProBook 6460b: Starting at 4.48 lb (2.03 kg) with SSD, weight saver (no optical drive), and 3-cell battery Starting at 4.78 lb (2.17 kg) with hard drive, optical drive, and 3-cell battery Starting at 4.78 lb (2.17 kg) with SSD, weight saver (no optical drive), and 6-cell battery Starting at 5.09 lb (2.31 kg) with hard drive, optical drive, and 6-cell battery Starting at 5.14 lb (2.33 kg) with SSD, weight saver (no optical drive), and 9-cell battery Starting at 5.45 lb (2.47 kg) with hard drive, optical drive, and 9-cell battery
		HP ProBook 6560b: Starting at 5.50 lb (2.50 kg) with hard drive, weight saver (no optical drive), and 3-cell battery Starting at 5.76 lb (2.62 kg) with hard drive, optical drive, and 3-cell battery

**NOTE:** Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components. Weight includes 3-cell battery and WLAN.

Stand-Alone Power Requirements (AC Power)	Nominal Operating Voltage	18.5 V
	Average Operating Power	Integrated graphics: TBD W Discrete graphics: TBD W
	Max Operating Power	< 65 W or < 90 W



# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Technical Specifications

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)
Planned Industry Standard Certifications	UL	Yes
	CSA	Yes
	FCC Compliance	Yes
	ENERGY STAR®	Select models**
	EPEAT	Gold***
	ICES	Yes
	Australia / NZ A-Tick Compliance	Yes
	CCC	Yes
	Japan VCCI Compliance	Yes
	KCC	Yes
	BSMI	Yes
CE Marking Compliance	Yes	

\* At temperatures above 86° F (30° C), the Intel Core i3-2310M Processor may not run at maximum clock speed.

\*\* Configurations of the HP ProBook 6360b, HP ProBook 6460b and HP ProBook 6560b that are ENERGY STAR qualified are identified as HP ProBook 6360b ENERGY STAR, HP ProBook 6460b ENERGY STAR and HP ProBook 6560b ENERGY STAR on HP websites and on [www.energystar.gov](http://www.energystar.gov).

\*\*\* EPEAT Registered Gold in U.S. EPEAT registration varies by country. See [www.epeat.net](http://www.epeat.net) for registration status by country.

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

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Audio                      SRS Premium Sound

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# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Technical Specifications

Hardware	Implementation	IDT 92HD87 High Definition CODEC
	Touch-Sensitive Volume Controls	Volume up, volume down, and mute
	Full Duplex	Yes
	Microphone In	Stereo
	Headphone/Line Out	Stereo
	Integrated Microphone	Yes, dual digital microphone array when equipped with optional webcam

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

Integrated Stereo Speakers	Power Rating	2 Watts
	Impedance	4 Ohms

## Power

HP 90W Smart AC Adapter	Dimensions	5.00 x 1.97 x 1.1 in (12.7 x 5.0 x 2.9 cm)		
	Weight	0.82 lb (370 g)		
	Input	Input	100 to 240 VAC	
		Input Efficiency	87% min at 115 VAC	
		Input frequency range	47 to 63 Hz	
		Input AC current	1.5 A at 90 VAC, 0.75 A at 180 VAC PFC Version	
			2.4 A at 90 VAC, 1.2 A at 180 VAC NON PFC Version	
	Output	Output power	90W	
		DC output	19.0V	
		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)		



# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Technical Specifications

	Humidity	20% to 80%
	Storage Humidity	10% to 90%
<b>EMI and Safety Certifications</b>	CE Mark - full compliance with LVD and EMC directives; Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE; MTBF- over 200,000 hours at 25°C ambient condition.	

### HP 65W Smart AC Adapter

<b>Dimensions</b>	4.17 x 1.85 x 1.1 in (10.6 x 4.7 x 2.8 cm)	
<b>Weight</b>	0.62 lb (280 g)	
<b>Input</b>	100 to 240 VAC	
	Input Efficiency	87% 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
<b>Output</b>	Output power	65W
	DC output	18.5V
	Hold-up time	5 msec at 115 VAC input
	Output current limit	<11A, Over voltage protection- 29V max automatic shutdown
<b>Connector</b>	3 pin/grounded, mates with interchangeable cords	
<b>Environmental Design</b>	Operating temperature	32° to 104° F (0° to 40° C)
	Non-operating (storage) temperature	-4° to 149° F (-20° to 65° C)
	Altitude	0 to 10,000 ft (0 to 3,048 m)
	Humidity	20% to 80%
	Storage Humidity	10% to 90%
<b>EMI and Safety Certifications</b>	CE Mark - full compliance with LVD and EMC directives; Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE; MTBF - over 200,000 hours at 25°C ambient condition.	





# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Technical Specifications

Optional HP BB09 Ultra Extended Life Notebook Battery	Dimensions (H x W x L)	1.2 x 5.9 x 11.4 in (3x15x29cm)	
	Weight (max)	1.5lb, (.682kg)	
	Cells/Type	Lithium-Ion	
	Energy	Voltage	11.25V
		Amp-hour capacity	8.85Ah
		Watt-hour capacity	100Wh
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)
		Operating (Discharging)	14° to 122° F (-10° to 50° C)
		Non-operating	-4° to 122° F (-20° to 50° C)
	Battery Re-Charge Time	System in OFF or Standby Mode	3.5 to 5 hours
		System ON	4 to 7 hours
Fuel Gauge LED	Yes		
Warranty	1 year		
Optional Travel Battery Available	NA		

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Optional HP ST09 Extended Life Notebook Battery	Dimensions (H x W x L)	1.2 x 6.1 x 12 in (3x15.5x30.5cm)	
	Weight (max)	1.2lb, (.550kg)	
	Cells/Type	Lithium-Ion Polymer	
	Energy	Voltage	11.1V
		Amp-hour capacity	6.6Ah
		Watt-hour capacity	73Wh
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)
		Operating (Discharging)	14° to 122° F (-10° to 50° C)
		Non-operating	-4° to 122° F (-20° to 50° C)
	Battery Re-Charge Time	System in OFF or Standby Mode	3.5 to 5 hours
		System ON	4 to 7 hours
Fuel Gauge LED	Yes		
Warranty	1 year		
Optional Travel Battery Available	NA		

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# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Technical Specifications

Optional HP 6-cell (55 WHr) Long Life Battery	Dimensions (H x W x L)	0.8 x 1.8 x 8.0in (2.0 x 4.7 x 20.5cm)		
	Weight (max)	.72lb, (.323kg)		
	Cells/Type	Lithium-Ion		
	Energy	Voltage	10.8V	
		Amp-hour capacity	5.1Ah	
		Watt-hour capacity	55Wh	
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)	
		Operating (Discharging)	14° to 122° F (-10° to 50° C)	
		Non-operating	-4° to 122° F (-20° to 50° C)	
	Battery Re-Charge Time	System in OFF or Standby Mode	2.5 hours	
		System ON	3 to 5 hours	
Fuel Gauge LED	No			
Warranty	3 years			
Optional Travel Battery Available	Yes			

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HP 9-cell (100 WHr) Lithium-Ion Primary battery	Dimensions (H x W x L)	0.8 x 2.4 x 8.1in (2 x 6.6 x 20.5cm)		
	Weight (max)	1.1lb, (.488kg)		
	Cells/Type	Lithium-Ion		
	Energy	Voltage	11.25V	
		Amp-hour capacity	8.85Ah	
		Watt-hour capacity	100Wh	
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)	
		Operating (Discharging)	14° to 122° F (-10° to 50° C)	
		Non-operating	-4° to 122° F (-20° to 50° C)	
	Battery Re-Charge Time	System in OFF or Standby Mode	3.5 to 5 hours	
		System ON	4 to 7 hours	
Fuel Gauge LED	No			
Warranty	1 year			
Optional Travel Battery Available	Yes			

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# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Technical Specifications

HP 6-cell (55 WHr) Lithium-Ion Primary battery	Dimensions (H x W x L)	0.8 x 1.8 x 8.0in (2.0 x 4.7 x 20.5cm)		
	Weight (max)	.70lb, (.313kg)		
	Cells/Type	Lithium-Ion		
	Energy	Voltage	10.8V	
		Amp-hour capacity	5.1Ah	
		Watt-hour capacity	55Wh	
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)	
		Operating (Discharging)	14° to 122° F (-10° to 50° C)	
		Non-operating	-4° to 122° F (-20° to 50° C)	
	Battery Re-Charge Time	System in OFF or Standby Mode	2.5 hours	
		System ON	3 to 5 hours	
	Fuel Gauge LED	No		
	Warranty	1 year		
Optional Travel Battery Available	Yes			

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HP 3-cell (31 WHr) Lithium-Ion Primary battery	Dimensions (H x W x L)	0.8 x 1.8 x 8.0in (2.0 x 4.7 x 20.5cm)		
	Weight (max)	0.47lb, (.210kg)		
	Cells/Type	Lithium-Ion		
	Energy	Voltage	11.1V	
		Amp-hour capacity	2.8Ah	
		Watt-hour capacity	31Wh	
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)	
		Operating (Discharging)	14° to 122° F (-10° to 50° C)	
		Non-operating	-4° to 122° F (-20° to 50° C)	
	Battery Re-Charge Time	System in OFF or Standby Mode	2.5 hours	
		System ON	3 to 5 hours	
	Fuel Gauge LED	No		
	Warranty	1 year		
Optional Travel Battery Available	Yes			

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## Displays

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# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Technical Specifications

15.6-inch LED HD (1366 x 768) anti-glare	Dimensions (W x H)	13.54 x 7.59 in (34.4 x 19.4 cm)		
	Diagonal Size	15.6 in (39.6cm)		
	Surface Treatment	Anti-glare		
	Contrast Ratio	300:1 (typical)		
	Refresh Rate	60 Hz		
	Brightness	200 nit (typical)		
	Pixel Resolution	Pitch	0.252 mm	
		Format	1366 x 768	
		Configuration	RGB Stripe	
	Backlight	LED		
PPI	100 ppi			
Viewing Angle	±30° Horizontal, ±10° Vertical (minimum) 30/30/20/10 (Left/Right/Down/Up) (minimum) or 45/45/35/25 (Left/Right/Down/Up) (typical)			

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15.6-inch LED HD+ WVA (1600 x 900) anti-glare	Dimensions (W x H)	13.54 x 7.59 in (34.4 x 19.4 cm)		
	Diagonal Size	15.6 in (39.6cm)		
	Surface Treatment	Anti-glare		
	Contrast Ratio	300:1 (typical)		
	Refresh Rate	60 Hz		
	Brightness	200 nit (typical)		
	Pixel Resolution	Pitch	0.215 mm	
		Format	1600 x 900	
		Configuration	RGB Stripe	
	Backlight	LED		
PPI	118 ppi			
Viewing Angle	±60° Horizontal, ± 50° Vertical (minimum) or ±70° Horizontal, ±60° Vertical (typical)			

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# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Technical Specifications

14.0-inch LED HD (1366 x 768) anti-glare	Dimensions (W x H)	12.74 x 7.56 in (32.4 x 19.2 cm)	
	Diagonal Size	14.0 in (35.6cm)	
	Surface Treatment	Anti-glare	
	Contrast Ratio	400:1 (typical)	
	Refresh Rate	60 Hz	
	Brightness	200 nit (typical)	
	Pixel Resolution	Pitch	0.227 mm
		Format	1366 x 768
		Configuration	RGB Stripe
	Backlight	LED	
PPI	112 ppi		
Viewing Angle	±30° Horizontal, ±10° Vertical (minimum) 30/30/20/10 (Left/Right/Down/Up) (minimum) or 45/45/35/25 (Left/Right/Down/Up) (typical)		

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14.0-inch LED HD+ (1600 x 900) anti-glare	Dimensions (W x H)	12.74 x 7.56 in (32.4 cm x 19.2 cm)	
	Diagonal Size	14.0 in (35.6cm)	
	Surface Treatment	Anti-glare	
	Contrast Ratio	300 (min)	
	Refresh Rate	60 Hz	
	Brightness	200 nits (typ)	
	Pixel Resolution	Pitch	0.1935mm
		Format	1600 x 900
		Configuration	RGB Stripe
	Backlight	LED	
PPI	131 ppi		
Viewing Angle	30/30/20/10 (Left/Right/Down/Up) (minimum)		

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## Technical Specifications

13.3-inch LED HD (1366 x 768) anti-glare	Dimensions (W x H)	11.53 x 6.49 in (29.3 x 16.5 cm)	
	Diagonal Size	13.3 in (33.8cm)	
	Surface Treatment	Anti-glare	
	Contrast Ratio	400:1 (typical)	
	Refresh Rate	60 Hz	
	Brightness	200 nit (typical)	
	Pixel Resolution	Pitch	0.215 mm
		Format	1366 x 768
		Configuration	RGB Stripe
	Backlight	LED	
	PPI	118 ppi	
	Viewing Angle	$\pm 30^\circ$ Horizontal, $\pm 10^\circ$ Vertical (minimum)	
		30/30/20/10 (Left/Right/Down/Up) (minimum) or 45/45/35/25 (Left/Right/Down/Up) (typical)	

## Internal Storage

750 GB 7200 rpm SATA Hard Drive	Drive Weight	0.25 lbs (115g)	
	Capacity	750 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ	
	Transfer Rate	<b>Synchronous</b> (maximum)	300 MB/s (Drive Capability)
	Seek Time (typical reads, including settling)	<b>Single Track</b>	1.5 ms
		<b>Average</b>	11 ms
		<b>Maximum</b>	22 ms
	Rotational Speed	7200 rpm	
	Logical Blocks	1,465,149,168	
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]	
	Features	ATA Security	



# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Technical Specifications

500 GB 7200 rpm SATA Hard Drive	Drive Weight	0.25 lbs (115g)	
	Capacity	500 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ	
	Transfer Rate	<b>Synchronous</b> (maximum) 300 MB/s (Drive Capability)	
	Seek Time (typical reads, including settling)	<b>Single Track</b>	1.5 ms
		<b>Average</b>	11 ms
		<b>Maximum</b>	22 ms
	Rotational Speed	7200 rpm	
	Logical Blocks	976,773,168	
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]	
Features	ATA Security		

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320 GB 7200 rpm SATA Hard Drive	Drive Weight	0.25 lbs (115 g)	
	Capacity	320 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ	
	Transfer Rate	<b>Synchronous</b> (maximum) 300 MB/s (Drive Capability)	
	Seek Time (typical reads, including settling)	<b>Single Track</b>	1.5 ms
		<b>Average</b>	11 ms
		<b>Maximum</b>	22 ms
	Rotational Speed	7200 rpm	
	Logical Blocks	625,142,448	
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]	
Features	ATA Security		

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# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Technical Specifications

250 GB 7200 rpm SATA Hard Drive	Drive Weight	0.25 lbs (115g)	
	Capacity	250 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ	
	Transfer Rate	<b>Synchronous (maximum)</b>	300 MB/s (Drive Capability)
	Seek Time (typical reads, including settling)	<b>Single Track</b>	1.5 ms
		<b>Average</b>	11 ms
		<b>Maximum</b>	22 ms
	Rotational Speed	7200 rpm	
	Logical Blocks	488,397,168	
Operating Temperature	32° to 140° F (0° to 60° C) [case temp]		
Features	ATA Security		

160 GB 2.5-inch SATA Solid State Drive	Drive Weight	78 Grams			
	Capacity	160 GB			
	Height	0.276 in (7 mm)			
	Width	2.76 in (70 mm)			
	Interface	SATA Gen 2			
	Performance	<b>Maximum Sequential Read</b>	250 MB/s	<b>Maximum Sequential Write</b>	100 MB/s
		Logical Blocks	312,581,808		
	Operating Temperature	32° to 158°F (0° to 70°C) [case temp]			
Features	ATA Security; ATA-7; SATA 2.6; DIPM; TRIM				

128 GB 2.5-inch SATA Solid State Drive	Drive Weight	75 Grams			
	Capacity	128 GB			
	Height	0.276 in (7 mm)			
	Width	2.76 in (70 mm)			
	Interface	SATA Gen 2			
	Performance	<b>Maximum Sequential Read</b>	250 MB/s	<b>Maximum Sequential Write</b>	140 MB/s
		Logical Blocks	250,069,680		
	Operating Temperature	32° to 158°F (0° to 70°C) [case temp]			
Features	ATA Security; ATA-7; SATA 2.6; DIPM; TRIM				

## Optical Drives





# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Technical Specifications

DVD-ROM Drive	Access Times	Random	< 140 ms CD (typical) < 160 ms DVD (typical)
	Max Data Transfer Rate	24X CD-ROM 8X-DVD	
	Transfer Mode	UDMA Mode 5	
	Interface	Gen 1 SATA	
	Supported Media (read)	CD-DA, 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)	None	
	Max Media Capacity (read)	8.5GB	
	Transport	Tray Loading	

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DVD+/-RW SuperMulti DL Drive	Access Times	Random	< 140ms CD (typical) < 160 ms DVD (typical)
	Max Data Transfer Rate	24X CD-ROM 8X DVD 24X CD-R 24X CD-RW 8X DVD+R 8X DVD+RW 8X DVD-R 6X DVD-RW 6X - DVD+R Dual Layer 6X - DVD-R Dual Layer 5X DVD-RAM	
	Transfer Mode	UDMA Mode 5	
	Interface	Gen 1 SATA	
	Supported Media (read)	CD-DA, 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, DVD+R DL, DVD-R DL	
	Max Media Capacity (read)	8.5 GB	
	Max Media Capacity (write)	8.5 GB	
	Transport	Tray Loading	

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# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Technical Specifications

<b>Blu-ray ROM DVD+/-RW SuperMulti DL Drive</b>	Random	< 190 ms CD-ROM (typical) < 180ms DVD-ROM (typical) < 230 ms BD-ROM (typical)
<b>Max Data Transfer Rate</b>	24X CD-ROM 8X DVD-ROM 24X CD-R 16X CD-RW 8X DVD+R 8X DVD+RW 8X DVD-R 6X DVD-RW 4X - DVD+R Dual Layer 4X - DVD-R Dual Layer 5X DVD-RAM 6X BD-ROM	
<b>Transfer Mode</b>	UDMA Mode 5	
<b>Interface</b>	Gen 1 SATA	
<b>Supported Media (read)</b>	CD-DA, , CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD-RW, DVD+R, DVD+RW. DVD-RAM, BD-ROM, BD-R, BD-RE	
<b>Supported Media (write)</b>	CD-R, CD-RW, DVD+R, DVD+R DL, DVD+RW, DVD-R, DVD-R DL, DVD-RW, DVD-RAM	
<b>Max Media Capacity (read)</b>	50.0 GB	
<b>Max Media Capacity (write)</b>	8.5GB	
<b>Transport</b>	Tray Loading	

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## Security

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## Technical Specifications

HP Fingerprint Sensor (optional)	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 Advanced Power Management
	High-Rate Image Capture	Up to 240 image frames /sec
	ESD Resistance	IEC 61000-4-2 Level 4 (±15KV)
	Detection Matrix	192 x 16 Pixels 9.7 mm x 0.81 mm 500 ppi High-Resolution Images

## Communications

Intel® 82579LM Gigabit Network Connection	Ethernet Features	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14) 100 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 802.3ab; IEEE 802.3. Clauses 40) 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 802.1q VLAN support IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3az EEE(Energy Efficient Ethernet) Jumbo Frame 9K Auto MDI/MDIX Crossover cable detection
	Power Management	ACPI compliant - multiple power modes Energy Detect Low Power Mode(Green Ethernet)
	Performance Features	TCP/IP/UDP Checksum Offload (configurable) Protocol Offload( ARP & NS) Large send offload and Giant send offload Receiving Side Scaling MACSec Offload (802.3ae) Intel vPro iSCSI Boot
	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 Virtual Cable Doctor for Ethernet cable status



## Technical Specifications

<b>Interface</b>	PCI Express 1.1 x1 to fully support ASPM L0s/L1 and CLKREQ. <b>NOTE:</b> Intel 82579 PCIe interface is not PCIe compliant. It operates at half of PCIe specification V1.1 (2.5GT/S) speed.
<b>NIC Device Driver Name</b>	Intel 82579LM/82579V Ethernet Network Connection

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<b>Intel® 82579V Gigabit Network Connection</b>	<b>Ethernet Features</b>	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14) 100 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 802.3ab; IEEE 802.3 clauses 40) 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 802.1q VLAN support IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3az EEE(Energy Efficient Ethernet) Jumbo Frame 9K Auto MDI/MDIX Crossover cable detection
	<b>Power Management</b>	ACPI compliant - multiple power modes Energy Detect Low Power Mode(Green Ethernet)
	<b>Performance Features</b>	TCP/IP/UDP Checksum Offload (configurable) Protocol Offload( ARP & NS) Large send offload and Giant send offload Receiving Side Scaling
	<b>Manageability</b>	Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite Virtual Cable Doctor for Ethernet cable status
	<b>Interface</b>	Intel PCI Express-Base 1.1 x1 to fully support ASPM L0s/L1 and CLKREQ <b>NOTE:</b> Intel 82579 PCIe interface is not PCIe compliant. It operators at half of PCIe specification V1.1 (2.5GT/S) speed.
	<b>NIC Device Driver Name</b>	Intel 82579LM/82579V Ethernet Network Connection

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## Technical Specifications

V.92 56K Data/Fax Modem	Form Factor	MDC 1.5 Daughtercard
	Power Management Support	APM Revision 1.2, ACPI
	Approvals/Certifications	UL, CSA, NEMKO, CCIB, Industry Canada, FCC Part 68, CTR21, FCC Part 15 Class B, Canadian ICES-003 Class B, C.I.S.P.R.22, Australian ACA, CE Mark, Other Countries
	Data Mode Capabilities	V.92 data V.8bis V.80 V44, V.42bis, MNP5 (Compression) V.42 (LAPM, MNP2-4) (Error Correction) <b>Optional symbol rates:</b> 2800, 3429 Asymmetric Symbol rates <b>Synchronous primary channel data signaling rates:</b> 3600, 31200 Automatic rate re-negotiation V.34 V.32bis V.32 V.23 V.22bis V.22 V.21 Bell 212A Bell 103J
	Fax Mode Capabilities	TIA/EIA-578-B (Class 1) T.30, T.4 (Group 3) V.17 V.29 V.27ter V.21 Channel 2 T.31
	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



# QuickSpecs

HP ProBook 6360b Notebook PC  
HP ProBook 6460b Notebook PC  
HP ProBook 6560b Notebook PC

## Technical Specifications

<b>HP un2430 EV-DO/HSPA Mobile Broadband Module</b>	<b>Technology/Operating Bands</b>	GSM/GPRS/EDGE: 850MHz(Cell), 900MHz(EGSM), 1800MHz(DCS), 1900MHz (PCS) UMTS/WCDMA with receive diversity: 2100MHz (UTRA FDD Band I), 1900MHz (UTRA FDD Band II), AWS (UTRA FDD Band IV), 900MHz(UTRA FDD Band VIII), 850MHz (UTRA FDD Band V) 1xEVDO/1xRTT with receive diversity: 850MHz (Band Class0-Cell), 1900MHz (Band Class1-PCS)
	<b>Wireless Protocol Standards</b>	GSM/GPRS/EDGE: Class A, Multi-slot class 10 operation, coding schemes CS1 - CS4 and MSC1 - MSC9. UMTS/WCDMA: Release 99 and Release 6 CDMA: 1xEVDO Release 0 and Release A, IS-95A, IS-95B, IS-856, IS-2000
	<b>Wireless Parametric Standards</b>	Meets or exceeds TIA/EIA IS-98-D
	<b>Maximum Data Rates</b>	UMTS (HSPA) - 14.4 Mbps (Download ), 5.76Mbps (Upload) CDMA (EVDO Release A) - 3.1 Mbps (Download), 1.8Mbps (Upload)
	<b>GPS</b>	Standalone GPS enabled gpsOneXTRATM™
	<b>GPS Bands</b>	L1 - 1575.42 MHz
	<b>Maximum Output Power</b>	GSM/GPRS/EDGE: 32dBm (+/-1) WCDMA: 24dBm (+0.7/-2.3) CDMA: 24dBm (+0.7/-2)
	<b>Maximum Power Consumption</b>	2750mA (peak); 1100mA (average)
	<b>Power Consumption, Idle Not Connected</b>	20 mA
	<b>Power Management</b>	USB selective suspend Integrated notebook wireless button
	<b>Antenna Type</b>	Dual high efficiency 5 band antennae with spatial diversity, mounted in the display enclosure
	<b>Form Factor</b>	PCI-Express MiniCard, USB 2.0 interface
	<b>Weight</b>	11.5 g
	<b>Dimensions (Length x Width x Thickness)</b>	2.01 x 1.18 x 0.18 in (51 x 30 x 5 mm)
	<b>Voltage, Operating</b>	3.3v +/- 10%
	<b>Temperature, Operating (from TIA/EIA/IS-98-D)</b>	-22° to 158° F (-30° to 70° C) (full RF performance) -22° to 167° F (-30° to 75° C) (reduced RF performance)
	<b>Temperature, Non-operating, 96 hours (from MIL-STD 202 Method 108)</b>	-40° to 185° F (-40° to 85° C)
	<b>Humidity, Non-operating</b>	95% relative humidity for 48 hours @ 185° F (85° C) (non-condensing)
	<b>Configuration Utilities</b>	HP Connection Manager
	<b>LED Activity</b>	LED Off - Radio Off; Solid LED On - Radio On

HP hs2340 HSPA+

**Technology/Operating** GSM/GPRS/EDGE: 850MHz(Cell), 900MHz(EGSM), 1800MHz(DCS),



## Technical Specifications

<b>Mobile Broadband Module</b>	<b>Bands</b>	1900MHz (PCS) UMTS/WCDMA with receive diversity: 2100MHz (UTRA FDD Band I), 1900MHz (UTRA FDD Band II), 900MHz(UTRA FDD Band VIII), 850 MHz (UTRA FDD Band V)
	<b>Wireless Protocol Standards</b>	GSM/GPRS/EDGE: Class B, Multi-slot class 10 operation, coding schemes CS1 - CS4 and MSC1 - MSC9. UMTS/WCDMA: Release 99 and Release 7 Advanced Receiver Type 3i
	<b>Wireless Parametric Standards</b>	Complies with 3GPP specifications
	<b>Maximum Data Rates</b>	UMTS (HSPA) - 21 Mbps (Download ), 5.76Mbps (Upload)
	<b>GPS</b>	Standalone, A-GPS (Internet- and Network assisted)
	<b>GPS Bands</b>	1575.42 MHz ( $\pm$ 1.023 MHz)
	<b>Maximum Output Power</b>	GSM/EDGE GSM850 & GSM900 bands GPRS: +33 dBm $\pm$ 2 dBm (class 4) EGPRS: +27 dBm $\pm$ 3 dBm (class E2)  DCS1800 & PCS1900 bands GPRS: +30 dBm $\pm$ 2 dBm (class 1) EGPRS: +26 dBm +4 / -3 dBm (class E2)  UMTS UTRA FDD Bands +24 dBm +4 / -3 dBm (class 3)
	<b>Maximum Power Consumption</b>	2000mA (peak); 600mA (average)
	<b>Power Consumption, Sleep Mode</b>	5 mA
	<b>Power Management</b>	USB selective suspend Integrated notebook wireless button
	<b>Antenna Type</b>	Dual high efficiency 5 band antennae with spatial diversity, mounted in the display enclosure
	<b>Form Factor</b>	PCI-Express MiniCard, USB 2.0 interface
	<b>Weight</b>	< 12 g
	<b>Dimensions (Length x Width x Thickness)</b>	2.01 x 1.18 x 0.18 in (51 x 30 x 5 mm)
	<b>Voltage, Operating</b>	3.3v +/- 9%
	<b>Temperature, Operating</b>	14° to 149° F (-10° to 65° C) (full RF performance) 14° to 167° F (-10° to 75° C) (reduced RF performance)
	<b>Temperature, Non-operating, 96 hours (from MIL-STD 202 Method 108)</b>	-22° to 185° F (-30° to 85° C)
	<b>Humidity, Non-operating</b>	85% relative humidity for 48 hours @ 185° F (85° C) (non-condensing)
	<b>Configuration Utilities</b>	HP Connection Manager



## Technical Specifications

### LED Activity

LED Off - Radio Off;  
Solid LED On - Radio On

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Intel Centrino Wireless-N 1000	Wireless LAN Standards	IEEE 802.11b IEEE 802.11g IEEE 802.11n*
		* In countries where 802.11n is not allowed, this capability is not enabled.
	Interoperability	Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Windows Vista and XP (details at: <a href="http://www.hp.com/go/notebooks/WLAN">http://www.hp.com/go/notebooks/WLAN</a> )
	Frequency Band	2.4 GHz
	Antenna Structure	1 transmit; 2 receive (1x2)
	Data Rates	802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: many 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 specification
	Modulation	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM
	Security <sup>1</sup>	Authentication: WPA and WPA2, 802.1x (EAP_TLS, TTLS, PEAP, LEAP, EAP-FAST)  Authentication Protocols: PAP, CHAP, TLS, GTC, MS-CHAP, MS-CHAPv2  Encryption: 64 and 128-bit WEP, AES-CCMP, CKIP, TKIP  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.
	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 2.4GHz band Access Points
	Output Power (for CCK and OFDM) <sup>2</sup>	15 dBm typical
	Power Consumption	Transmit: 1.4 Watts (average, with one spatial streams) Receive: 1.3 Watts (average with two receive chains) Idle mode <sup>3</sup> : 30 mW (average) Radio off: 20 mW (max)
	Power Management	ACPI compliant power management 802.11 compliant power saving mode
	Receiver Sensitivity <sup>4</sup>	54 Mbps: -74 dBm, 6 Mbps: -91 dBm
	Antenna Connections	2 U.FL type connectors, 50 ohm nominal impedance
	Form Factor	PCI-Express Half-MiniCard





## Technical Specifications

<b>Weight</b>	0.0075 lb (3.4 g)
<b>Dimensions</b>	0.12 x 1.06 x 1.18 in (3.1 x 26.8 x 30.0 mm)
<b>Operating Voltage</b>	3.3V +/- 9%
<b>Temperature</b>	Operating 32° to 176° F (0° to 80° C) Non-operating -40° to 176° F (-40° to 80° C)
<b>Humidity</b>	Operating 10% to 90% (non-condensing) Non-operating 5% to 90% (non-condensing)
<b>Altitude</b>	Operating 0 to 10,000 ft (3,048 m) Non-operating 0 to 50,000 ft (15,240 m)
<b>LED Activity</b>	LED Off - Radio OFF; Solid LED On - Radio ON
	<ol style="list-style-type: none"><li>1. Check latest software/driver release for updates on supported security features.</li><li>2. Maximum output power may vary by country according to local regulations.</li><li>3. In Power Save Polling mode and on battery power.</li><li>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).</li><li>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.</li></ol>

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<b>Intel Centrino Advanced-N 6205</b>	<b>Wireless LAN Standards</b>	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n*  * In countries where 802.11n is not allowed, this capability is not enabled.
	<b>Interoperability</b>	Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Windows Vista and XP (details at: <a href="http://www.hp.com/go/notebooks/WLAN">http://www.hp.com/go/notebooks/WLAN</a> )
	<b>Frequency Band</b>	2.4 GHz and 5GHz
	<b>Antenna Structure</b>	2 transmit; 2 receive (2x2)
	<b>Data Rates</b>	802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: 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 specification
	<b>Modulation</b>	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM
	<b>Security<sup>1</sup></b>	Authentication: WPA and WPA2, 802.1x (EAP_TLS, TTLS, PEAP, LEAP, EAP-FAST)  Authentication Protocols: PAP, CHAP, TLS, GTC, MS-CHAP, MS-CHAPv2  Encryption: 64 and 128-bit WEP, AES-CCMP, CKIP, TKIP  Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program



## Technical Specifications

	Version 4) with Microsoft Windows Vista and XP only.
<b>Sub-channels</b>	Multinational support with frequency bands and channels compliant to local regulations.
<b>Media Access Protocol</b>	CSMA/CA (Collision Avoidance) with ACK
<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
<b>Roaming</b>	IEEE 802.11 compliant roaming between 2.4GHz band Access Points
<b>Output Power</b> (for CCK and OFDM) <sup>2</sup>	17 dBm max
<b>Power Consumption</b>	Transmit: 2.3 Watts (max, with two spatial streams) Receive: 1 Watt (max with two spatial streams) Idle mode <sup>3</sup> : 35 mW (average) Radio off: 20 mW (max)
<b>Power Management</b>	ACPI compliant power management 802.11 compliant power saving mode
<b>Receiver Sensitivity</b> <sup>4</sup>	54 Mbps: -76 dBm, 6 Mbps: -92 dBm
<b>Antenna Connections</b>	2 U.FL type connectors, 50 ohm nominal impedance
<b>Form Factor</b>	PCI-Express Half-MiniCard
<b>Weight</b>	0.0075 lb (3.4 g)
<b>Dimensions</b>	0.12 x 1.06 x 1.18 in (3.1 x 26.8 x 30.0 mm)
<b>Operating Voltage</b>	3.3V +/- 9%
<b>Temperature</b>	Operating 32° to 176° F (0° to 80° C) Non-operating -40° to 176° F (-40° to 80° C)
<b>Humidity</b>	Operating 10% to 90% (non-condensing) Non-operating 5% to 90% (non-condensing)
<b>Altitude</b>	Operating 0 to 10,000 ft (3,048 m) Non-operating 0 to 50,000 ft (15,240 m)
<b>LED Activity</b>	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 (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 43224AGN  
802.11a/b/g/n  
WiFi Adapter

<b>Wireless LAN Standards</b>	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n*
<b>Interoperability</b>	Wi-Fi certified (802.11abg only) Cisco Compatible Extensions Program compliant (802.11abg only) with Microsoft Windows Vista and XP (details at: <a href="http://www.hp.com/go/notebooks/WLAN">http://www.hp.com/go/notebooks/WLAN</a> )



## Technical Specifications

<b>Frequency Band</b>	2.4 GHz and 5 GHz
<b>Data Rates</b>	802.11b: 1, 2, 5.5, 11 Mbps 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: 6, 6.5, 9, 12, 13, 13.5, 18, 19.5, 24, 26, 27, 36, 39, 40.5, 48, 52, 54, 58.5, 65, 78, 81, 104, 108, 117, 121.5, 130, 135, 162, 216, 243, 270, 300 Mbps
<b>Frequency Support</b>	20 MHz: 2.4 GHz and 5 GHz bands 40 MHz: 2.4 GHz and 5 GHz bands
<b>Modulation</b>	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM
<b>Security<sup>1</sup></b>	Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES, 802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST.  Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program Version 4) with Microsoft Windows Vista and XP only.
<b>Sub-channels</b>	Multinational support with frequency bands and channels compliant to local regulations.
<b>Media Access Protocol</b>	CSMA/CA (Collision Avoidance) with ACK
<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
<b>Roaming</b>	IEEE 802.11 compliant roaming between access points
<b>Output Power (for CCK)<sup>2</sup></b>	17 dBm , nominal
<b>Output Power (for OFDM; power varies by data rate)<sup>2</sup></b>	15 dBm , nominal
<b>Power Consumption</b>	Idle associated: 250 mW Idle unassociated: 150 mW Transmit/Receive 20 MHz channel: 2.0 W (max) Transmit/Receive 40 MHz channel: 2.0 W (max)
<b>Power Management</b>	ACPI compliant power management 802.11 compliant power saving mode
<b>Receiver Sensitivity<sup>3</sup></b>	270 Mbps: -61dBm, , 54 Mbps: -72 dBm, 11 Mbps: -85 dBm , 1 Mbps: -92 dBm
<b>Antenna type</b>	High efficiency dual band antenna with spatial diversity, mounted in the display enclosure
<b>Form Factor</b>	PCI-Express Half-MiniCard
<b>Weight</b>	0.013 lb (6 g)
<b>Dimensions</b>	0.19 x 1.06 x 1.18 in (4.75 x 26.8 x 30 mm)
<b>Operating Voltage</b>	3.3v +/- 10%
<b>Temperature</b>	Operating 14° to 149° F (-10° to 65° C) Non-operating -40° to 176° F (-40° to 80° C)
<b>Humidity</b>	Operating 10% to 90% (non-condensing) Non-operating 5% to 95% (non-condensing)



## Technical Specifications

<b>Altitude</b>	Operating	0 to 10,000 ft (3,048 m)
	Non-operating	0 to 50,000 ft (15,240 m)
<b>LED Activity</b>	LED Off - Radio OFF; Solid LED On - Radio ON	
	<ol style="list-style-type: none"><li>1. Check latest software/driver release for updates on supported security features.</li><li>2. Maximum output power may vary by country according to local regulations.</li><li>3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CCK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).</li><li>4. WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows XP. WLAN may also be compatible with certain third-party software supplicants. WLAN supplier IHV extensions required for Cisco Compatible Extensions support for Microsoft Windows Vista.</li></ol>	

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<b>Broadcom 4313GN 802.11b/g/n WiFi Adapter</b>	<b>Wireless LAN Standards</b>	IEEE 802.11b IEEE 802.11g IEEE 802.11n
	<b>Interoperability</b>	Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Win7, Vista and XP (details at: <a href="http://www.hp.com/go/notebooks/WLAN">http://www.hp.com/go/notebooks/WLAN</a> )
	<b>Frequency Band</b>	2.4 GHz
	<b>Data Rates</b>	802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: 6.5, 7.2, 13, 14.4, 19.5, 21.7, 26, 28.9, 39, 43.3, 52, 57.8, 58.5, 65, 72.2Mbps
	<b>Frequency Support</b>	20 MHz: 2.4 GHz bands
	<b>Modulation</b>	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM
	<b>Security<sup>1</sup></b>	Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES, 802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST.  Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program Version 4) with Microsoft Windows Vista and XP only.
	<b>Sub-channels</b>	Multinational support with frequency bands and channels compliant to local regulations.
	<b>Media Access Protocol</b>	CSMA/CA (Collision Avoidance) with ACK
	<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
	<b>Roaming</b>	IEEE 802.11 compliant roaming between access points
	<b>Output Power (for CCK)<sup>2</sup></b>	17 dBm , nominal
<b>Output Power (for OFDM; power varies by data rate)<sup>2</sup></b>	15 dBm , nominal	
<b>Power Consumption</b>	Idle associated: 250 mW avg (CLKREQ enabled) Idle unassociated: 425 mW avg Transmit/Receive 20 MHz channel: 5.5 W (max)	



## Technical Specifications

<b>Power Management</b>	ACPI compliant power management 802.11 compliant power saving mode
<b>Receiver Sensitivity<sup>3</sup></b>	72.2 Mbps: -71 dBm
<b>Antenna type</b>	High efficiency dual band antenna with spatial diversity, usually mounted in the display enclosure
<b>Form Factor</b>	PCI-Express Half-MiniCard
<b>Weight</b>	0.013 lb (6 g)
<b>Dimensions</b>	0.19 x 1.06 x 1.18 in (4.75 x 26.8 x 30 mm)
<b>Operating Voltage</b>	3.3v +/- 10%
<b>Temperature</b>	Operating 14° to 149° F (-10° to 65° C) Non-operating -40° to 176° F (-40° to 80° C)
<b>Humidity</b>	Operating 10% to 90% (non-condensing) Non-operating 5% to 95% (non-condensing)
<b>Altitude</b>	Operating 0 to 10,000 ft (3,048 m) Non-operating 0 to 50,000 ft (15,240 m)
<b>LED Activity</b>	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. 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 and Win7.

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<b>HP Integrated Module with Bluetooth 2.1+EDR Wireless Technology</b>	<b>Bluetooth Specification</b>	2.1+EDR Compliant
	<b>Dimensions</b>	1.18 x 0.26 x 0.13 in (30 x 6.5 x 3.25 mm)
	<b>Frequency Band</b>	2402 to 2480 MHz
	<b>Number of Available Channels</b>	79 (1 MHz) available channels
	<b>Data Rates and Throughput</b>	3 Mbps data rate; throughput up to 2.17 Mbps Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric or 1306.9 kbps symmetric
	<b>Transmit Power</b>	-6 dBm to 4 dBm (Bluetooth Class II)
	<b>Receiver Sensitivity</b>	Better than -80 dBm at 0.1 % raw bit error rate
	<b>Power Consumption</b>	Peak (Tx) 264 mW Peak (Rx) 231 mW Sleep <1 mW
	<b>Antenna</b>	Internally integrated within module
	<b>Range</b>	Up 33 ft (10 m)
	<b>Electrical Interface</b>	USB 2.0 compliant Microsoft Windows Plug and Play compliant



## Technical Specifications

<b>Bluetooth Software Supported</b>	Broadcom Bluetooth for Windows Microsoft Windows Bluetooth Software
<b>Link Topology</b>	Point to Point, Multipoint Pico Nets up to 7 slaves
<b>Security</b>	Full support of Bluetooth Security Provisions
<b>Power Management</b>	Microsoft Windows ACPI, and USB Bus Support Self configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff
<b>Certifications</b>	All necessary regulatory approvals for supported countries, including: FCC (47 CFR) Part 15C, Section 15.247 & 15.249 ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark
<b>Temperature</b>	Operating -4° to 158° F (-20° to 70° C) Non-operating -40° to 176° F (-40° to 80° C)
<b>Humidity</b>	Operating 10% to 90% Non-operating 5% to 95%
<b>Altitude</b>	Operating 15,000 ft (4,572 m) Non-operating 40,000 ft (12,192 m)
<b>Bluetooth Profiles Supported</b>	Serial Port Profile (SPP) <sup>1</sup> Service Discovery Application Profile (SDAP) Dial-Up Networking (DUN) <sup>1,2</sup> Generic Object Exchange Profile (GOEP) <sup>1,2</sup> Object Push Profile (OPP) <sup>1,2</sup> File Transfer Profile (FTP) Synchronization Profile (SYNC) Hard Copy Cable Replacement (HCRP) <sup>1,2</sup> Personal Area Networking Profile (PAN) <sup>1,2</sup> Human Interface Device Profile (HID) <sup>1,2,3</sup> FAX Profile (FAX) Basic Imaging Profile (BIP) <sup>2</sup> Headset Profile (HSP) Hands Free Profile (HFP) Advanced Audio Distribution Profile (A2DP)

1. indicates the profile is supported by Microsoft Windows XP SP2
2. indicates the profile is part of Windows Vista



## Technical Specifications

**Environmental Data**      **Eco-Label Certifications**      This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

- US Energy star
- IT ECO declaration
- EPEAT – Gold

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

### HP ProBook 6360b Notebook PC

Energy Consumption	115 VAC	230 VAC	100 VAC
Normal Operation	8.35 W	8.95 W	8.33 W
Sleep (Energy Star low power mode)	1.08 W	1.24 W	1.07 W
Off	0.65 W	0.77 W	0.64 W

Heat Dissipation*	115 VAC	230 VAC	100 VAC
Normal Operation	28.5 BTU/hr	30.6 BTU/hr	28.4 BTU/hr
Sleep	4 BTU/hr	4.2 BTU/hr	4 BTU/hr
Off	2.2 BTU/hr	3 BTU/hr	2.1 BTU/hr

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

### Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)

System Fan Off	Sound Power (LWA <sub>d</sub> , bels)	Sound Pressure (LpAm, decibels)
Idle	3.2	27.5
Fixed Disk (random writes)	3.3	28.0

System fan is usually off except when charging the battery

**Batteries**      This battery(s) in this product comply with EU Directive 2006/66/EC

Batteries used in the product do not contain:

- Mercury greater the 5ppm by weight
- Cadmium greater than 10ppm by weight

The battery type and chemistry used in the product is:  
 CR2032 (coin cell), Li-ion  
 6-cell high capacity Lithium-Ion battery (optional 8 cell available)

**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.



## Technical Specifications

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](http://www.epeat.net)

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

This product contains 0% post consumer recycled plastic (by wt.)

This product is greater than 91.7% recycle-able when properly disposed of at end of life.

### Packaging Materials

- External:
  - Corrugated – 509 g
- Internal:
  - Polypropylene low-density – 6 g
  - Molded Pulp – 198 g
- The Corrugated Carton packaging material is made from 80% recycled content.
- The Paper / Cardboard packaging material is made from 80% recycled content.
- The Polyethylene low density packaging material is made from 80% recycled content

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

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





## Technical Specifications

### HP ProBook 6460b Notebook PC

<b>Energy Consumption</b>	115 VAC	230 VAC	100 VAC
Normal Operation	11.57 W	12.11 W	11.45 W
Sleep (Energy Star low power mode)	1.23 W	1.31 W	1.14 W
Off	0.56 W	0.62 W	0.51 W

<b>Heat Dissipation*</b>	115 VAC	230 VAC	100 VAC
Normal Operation	40 BTU/hr	41 BTU/hr	39 BTU/hr
Sleep	4 BTU/hr	4 BTU/hr	4 BTU/hr
Off	2 BTU/hr	2 BTU/hr	2 BTU/hr

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

### Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)

System Fan Off	Sound Power (LWAd, bels)	Sound Pressure (LpAm, decibels)
Idle	3.3	26.7
Fixed Disk (random writes)	3.4	30.2

System fan is usually off except when charging the battery

**Batteries** This battery(s) in this product comply with EU Directive 2006/66/EC

Batteries used in the product do not contain:

- Mercury greater the 5ppm by weight
- Cadmium greater than 10ppm by weight

The battery type and chemistry used in the product is:

CR2032 (coin cell), Li-ion  
6-cell high capacity Lithium-Ion battery (optional 8 cell available)

### 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](http://www.epeat.net)

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



This product contains 0% post consumer recycled plastic (by wt.)

This product is greater than 95.1% recycle-able when properly disposed of at end of life.

### Packaging Materials

- External:
  - Corrugated Paper – 500 g
  - CANON bags-several layers – 5 g
- Internal:
  - Polypropylene – 15 g
  - Molded Pulp – 180 g
- The Corrugated Paper packaging material is made from 80% recycled content.
- The CANON bags-several layers packaging material is made from 80% recycled content.
- The Polypropylene packaging material is made from 80% recycled content.
- The Molded Pulp packaging material is made from 80% recycled content.

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

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



## Technical Specifications

### HP ProBook 6560b Notebook PC

Energy Consumption	115 VAC	230 VAC	100 VAC
Normal Operation	9.71 W	9.81 W	9.65 W
Sleep (Energy Star low power mode)	0.81 W	0.90 W	0.80 W
Off	0.56 W	0.64 W	0.55 W

Heat Dissipation*	115 VAC	230 VAC	100 VAC
Normal Operation	33.4 BTU/hr	33.5 BTU/hr	33 BTU/hr
Sleep	3 BTU/hr	3 BTU/hr	3 BTU/hr
Off	2 BTU/hr	2 BTU/hr	2 BTU/hr

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

### Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)

System Fan Off	Sound Power (LWAd, bels)	Sound Pressure (LpAm, decibels)
Idle	2.9	24
Fixed Disk (random writes)	3.8	32

System fan is usually off except when charging the battery

**Batteries** This battery(s) in this product comply with EU Directive 2006/66/EC

Batteries used in the product do not contain:

- Mercury greater the 5ppm by weight
- Cadmium greater than 10ppm by weight

The battery type and chemistry used in the product is:  
CR2032 (coin cell), Li-ion  
6-cell high capacity Lithium-Ion battery (optional 8 cell available)

### 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](http://www.epeat.net)

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



## Technical Specifications

This product contains 0% post consumer recycled plastic (by wt.)

This product is greater than 95.2% recycle-able when properly disposed of at end of life.

### Packaging Materials

- External:
  - Corrugated carton – 375 g
  - Paper/cardboard – 310 g
- Internal:
  - Polyethylene low density solid – 22 g
- The Corrugated cartonr packaging material is made from 80% recycled content.
- The Paper/Cardboard- packaging material is made from 80% recycled content.
- The Polyethylene low density solid packaging material is made from 80% 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](http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html)):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants - may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates



## Technical Specifications

- Lead and Lead compounds
- Mercuric Oxide Batteries
- 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)
- Nickel finishes that release greater than 0.5 micrograms/cm<sup>2</sup>/week, measured according to EN 1811:1998, are not used on any product surface designed to be frequently handled or touched by users.

### 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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