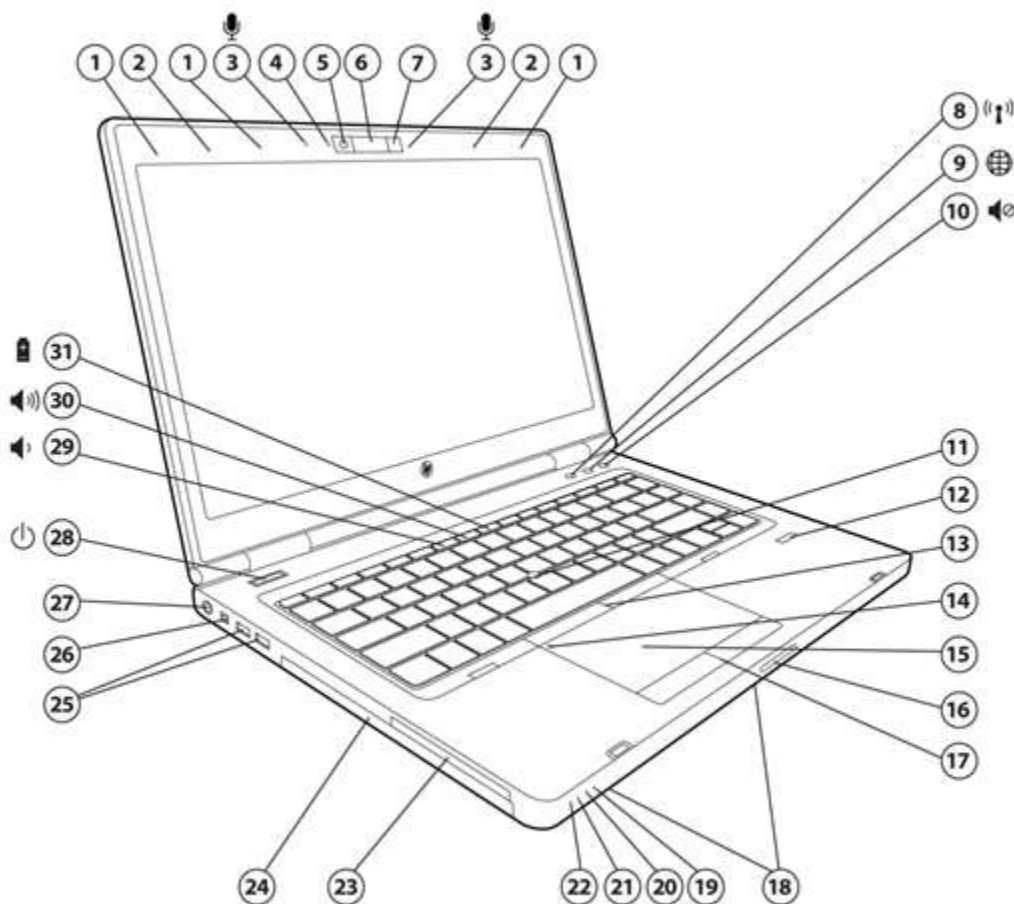


QuickSpecs

HP EliteBook 8470p Notebook PC HP EliteBook 8570p Notebook PC Intel Embargo until June 3rd

Overview

HP EliteBook 8470p Notebook PC



- | | |
|--|--|
| 1. WLAN antennas (3) | 17. Touchpad pick buttons |
| 2. WWAN antennas | 18. Stereo speakers (see bottom view) |
| 3. Dual-microphone array | 19. Hard drive activity / HP 3D DriveGuard LED indicator |
| 4. Webcam LED indicator (with optional webcam) | 20. Battery charging LED indicator |
| 5. Optional 720p HD webcam | 21. Power/standby LED indicator |
| 6. HP Night Light on button | 22. Wireless on/off LED indicator |
| 7. HP Night Light | 23. ExpressCard/54 slot |
| 8. Wireless on/off button with LED indicator | 24. Upgrade Bay (optical drive, second hard drive or weight saver) |
| 9. HP Web Browser button with LED indicator | 25. (2) USB 3.0 ports |
| 10. Volume mute button with LED indicator | 26. 1394a port |
| 11. Pointstick | 27. Power connector |
| 12. Optional HP Fingerprint Sensor | 28. Power button with LED indicator |
| 13. Pointstick pick buttons | 29. Volume down function key |
| 14. Touchpad on/off button with LED indicator | 30. Volume up function key |
| 15. Touchpad with scroll zone | 31. HP Power Assistant function key |

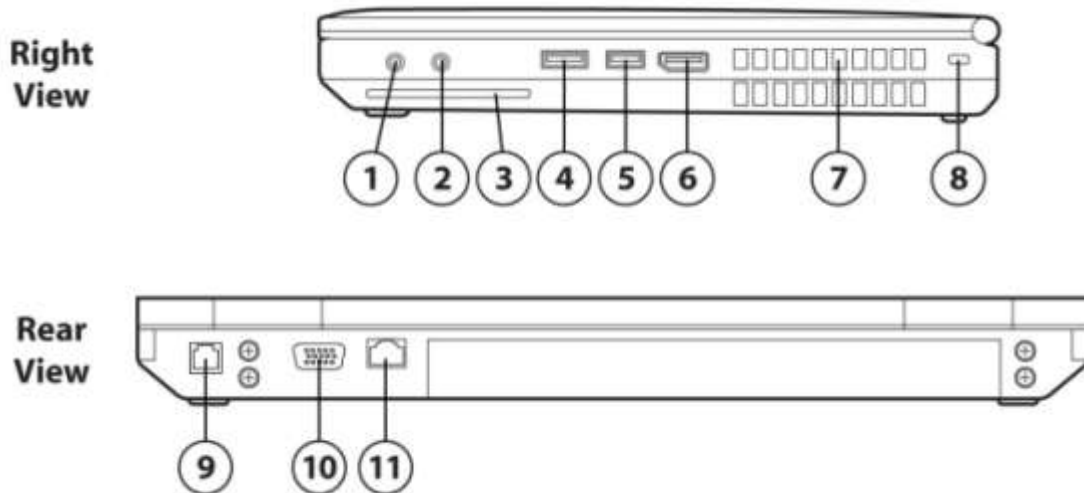


QuickSpecs

HP EliteBook 8470p Notebook PC HP EliteBook 8570p Notebook PC Intel Embargo until June 3rd

Overview

16. Display release latch



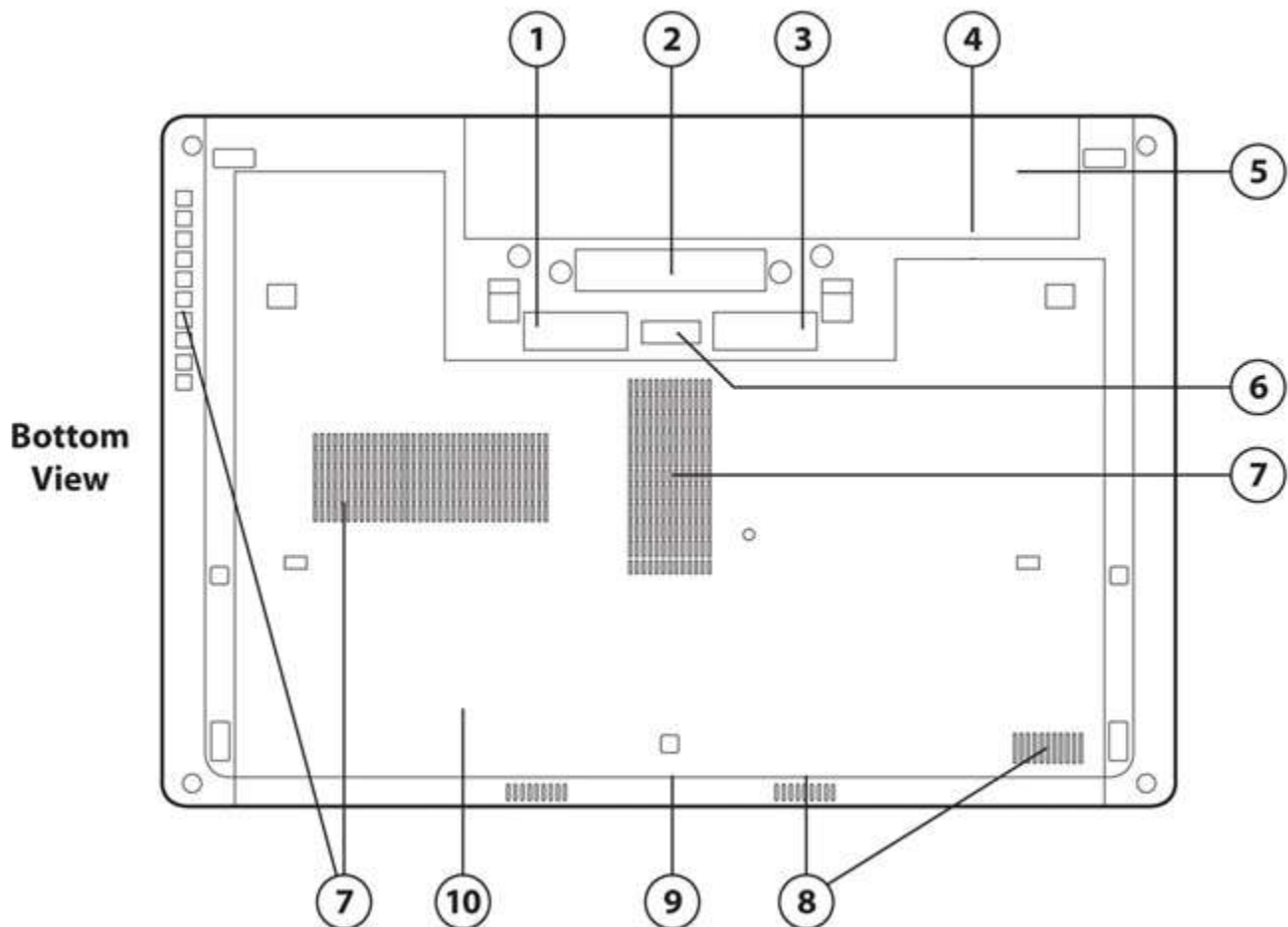
- | | |
|---------------------------------|------------------------------------|
| 1. Stereo headphone/line out | 7. Vents |
| 2. Stereo microphone/line in | 8. Security lock slot |
| 3. Integrated Smart Card reader | 9. RJ-11/modem port (optional) |
| 4. eSATA/USB 2.0 combo port | 10. VGA/external monitor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



QuickSpecs

HP EliteBook 8470p Notebook PC
HP EliteBook 8570p Notebook PC
Intel Embargo until June 3rd

Overview



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

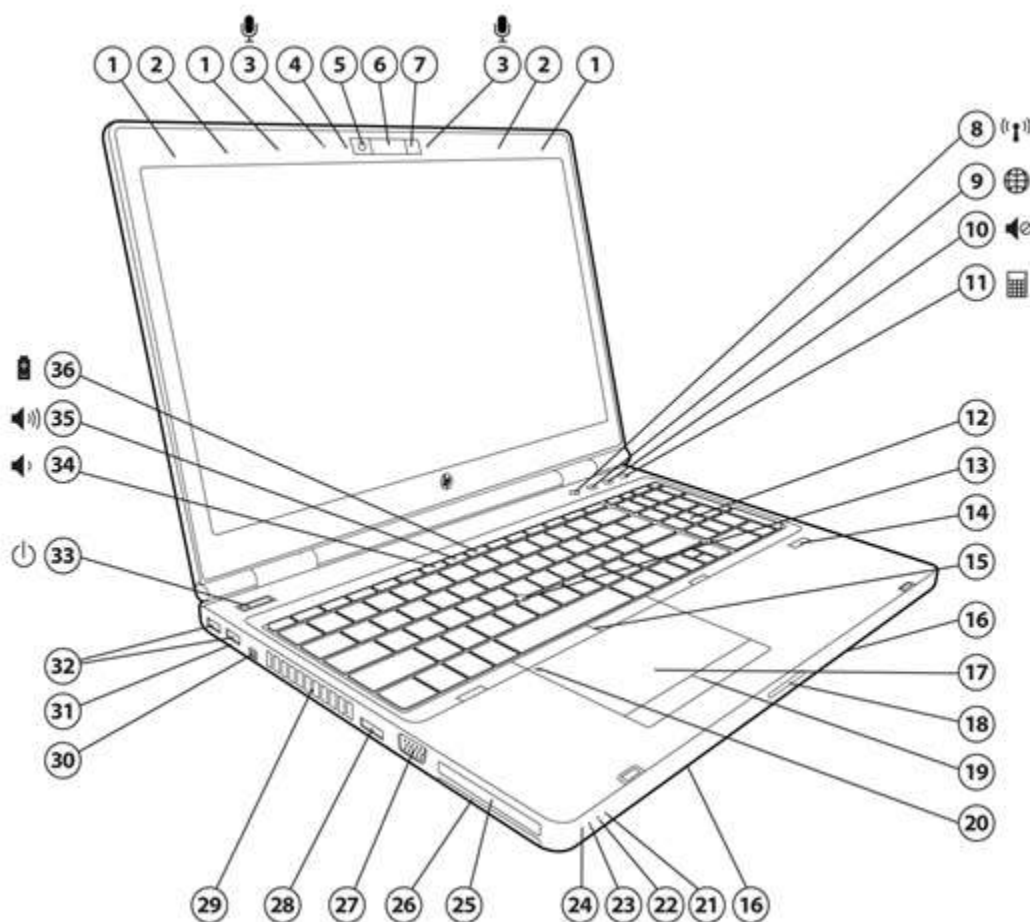


QuickSpecs

HP EliteBook 8470p Notebook PC HP EliteBook 8570p Notebook PC Intel Embargo until June 3rd

Overview

HP EliteBook 8570p Notebook PC

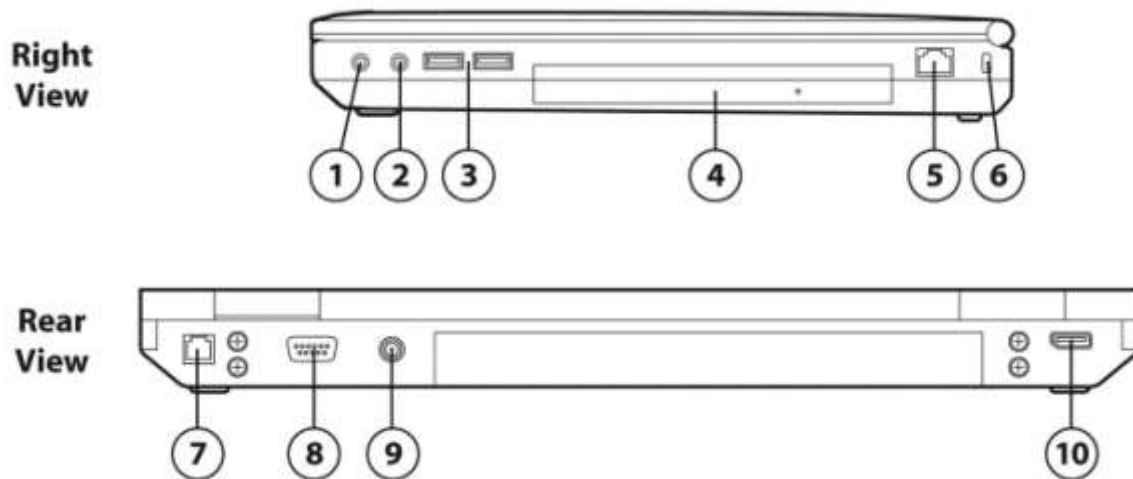


- | | | |
|--|--|-------------------------------------|
| 1. WLAN antennas (3) | 13. Pointstick | 25. ExpressCard/54 slot |
| 2. WWAN antennas | 14. Optional HP Fingerprint Sensor | 26. Smart Card Reader |
| 3. Dual-microphone array | 15. Pointstick pick buttons | 27. VGA/external monitor connector |
| 4. Webcam LED indicator (with optional webcam) | 16. Stereo speakers | 28. eSATA/USB 2.0 combo port |
| 5. Optional 720p HD webcam | 17. Display release latch | 29. Vent |
| 6. HP Night Light on button | 18. Touchpad pick buttons | 30. 1394a port |
| 7. HP Night Light | 19. Touchpad with scroll zone | 31. Secure Digital/MMC slot |
| 8. Wireless on/off button with LED indicator | 20. Touchpad on/off light | 32. (2) USB 2.0 ports* |
| 9. HP Web Browser button with LED indicator | 21. Hard drive activity / HP 3D DriveGuard LED indicator | 33. Power button with LED indicator |
| 10. Volume mute button with LED indicator | 22. Battery charging LED indicator | 34. Volume down function key |
| 11. Calculator button with LED indicator | 23. Power/standby LED indicator | 35. Volume up function key |



Overview

12. Numeric keypad 24. Wireless on/off LED indicator 36. HP Power Assistant function key
* USB 2.0 port on right is a charging port.

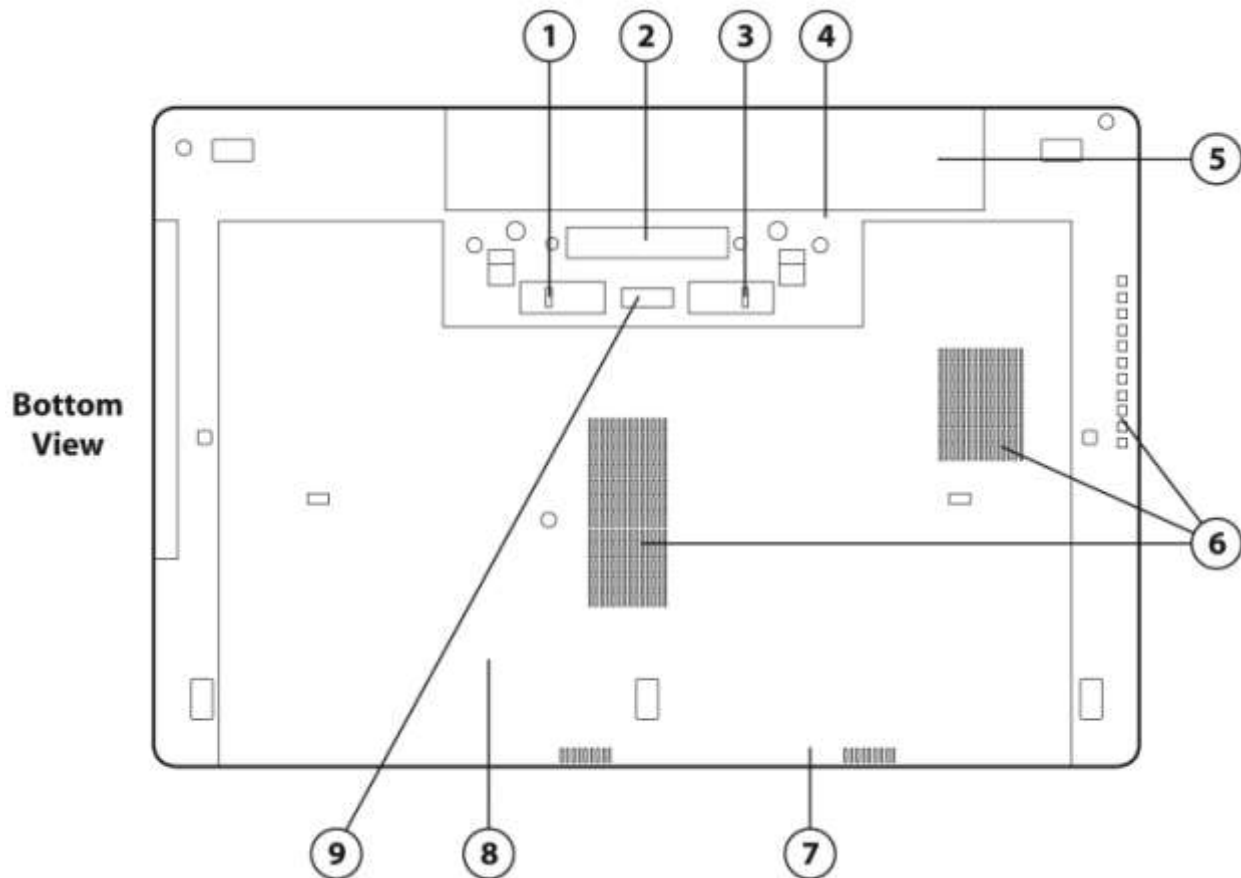


- | | |
|---|--------------------------------|
| 1. Stereo headphone/line out | 6. Security lock slot |
| 2. Stereo microphone/line in | 7. RJ-11/modem port (optional) |
| 3. (2) USB 3.0 ports | 8. Serial port |
| 4. Upgrade Bay (optical drive, second hard drive or weight saver) | 9. Power connector |
| 5. RJ-45/Ethernet port | 10. DisplayPort |

QuickSpecs

HP EliteBook 8470p Notebook PC
HP EliteBook 8570p Notebook PC
Intel Embargo until June 3rd

Overview



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



Overview

AT A GLANCE

- Genuine Windows 7 versions or FreeDOS
- Aluminum display enclosure, magnesium-reinforced chassis, wear-resistant platinum-colored HP DuraFinish, HP DisplaySafe frame, precision aluminum-alloy hinges, cast titanium-alloy display latches, keyboard in full aluminum deck, and chemically strengthened glass touchpad; designed to meet the military standard Mil-Std-810G for vibration, dust, altitude, and high temperature operation
- Choice 3rd Generation Intel® Core™ i7 Quad-Core with Turbo Boost Technology; 3rd Generation Intel Core™ i7 and i5 Dual-Core with Turbo Boost Technology
- Intel Core i7 with vPro and Core i5 with vPro technology (optional)
- AMD Radeon™ HD 7570M discrete graphics with 1 GB dedicated GDDR5 video memory or integrated Intel® HD Graphics 4000
- Widescreen LED-backlit display
 - HP EliteBook 8470p: 14.0-inch diagonal HD or HD+
 - HP EliteBook 8570p: 15.6-inch diagonal HD, HD+ wide viewing angle, or FHD wide viewing angle
- Easily hot dock with one of the optional HP docking stations
- DisplayPort for high resolution support
- SRS Premium Sound PRO optimized for high fidelity audio
- Choice of primary battery to optimize run-time or weight: 9-cell (100 WHr), 6-cell (62 WHr), or 6-cell (55 WHr) HP Long Life Battery)
- Combine primary battery with optional secondary battery options
- Touchpad with scroll zone and pointstick; 8570p features a numeric keypad and calculator button
- Standard ExpressCard slot and integrated Smart Card Reader for strong security authentication
- 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 the energy usage of the PC and up to four select HP external monitors, and report workforce power consumption.
- Flexible wireless connectivity options:
 - Optional integrated HP hs2350 HSPA+ Mobile Broadband Module connects to both HSPA and HSPA+ (UMTS) networks and provides GPS functionality
 - Optional integrated HP un2430 EV-DO/HSDPA Mobile Broadband Module (Gobi™ 3000)
 - Integrated Intel Centrino® 802.11 a/b/g/n 3x3 and 2x2, 802.11 a/b/g/n 2x2, or b/g/n 1x1 (8570p only) wireless LAN module
 - Bluetooth® v4.0+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, 500 GB 7200 rpm Self Encrypting Drive (SED) (8570p only), 128 GB Solid State Drive (8570p only), 180 GB Solid State Drive (available starting June 2012), or 256 GB SED Solid State Drive (8570p only),
- BFR/PVC-free*, ENERGY STAR qualified (with Microsoft OS) and EPEAT Gold registered in the U.S. (with Microsoft OS). EPEAT status varies by country- please see 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



QuickSpecs

HP EliteBook 8470p Notebook PC
HP EliteBook 8570p Notebook PC
Intel Embargo until June 3rd

Overview

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 component: ATT SIM card, are not BFR/PVC-free.



Features

OPERATING SYSTEM

Preinstalled

Genuine Windows® 7 Professional 32*
Genuine Windows 7 Professional 64*
Genuine Windows 7 Home Premium 32*(8470p, select countries)
Genuine Windows 7 Home Premium 64*(select countries)
Genuine Windows 7 Home Basic 32* (select countries)
FreeDOS

Supported

Genuine Windows 7 Enterprise 32*
Genuine Windows 7 Enterprise 64*
Genuine Windows 7 Ultimate 32*
Genuine Windows 7 Ultimate 64*
Genuine Windows XP Professional 32

Certified

SUSE Linux Enterprise Desktop 11

* Not all features are available in all editions of Windows 7. This system may require upgraded and/or separately purchased hardware to take full advantage of Windows 7 functionality. See <http://www.microsoft.com/windows/windows-7/> for details.

PROCESSOR

- 3rd Generation Intel® Core™ i7-3720QM (2.60 GHz, 6 MB L3 cache, 45W, 4 cores)* (8570p only)
Up to 3.60 GHz with Intel Turbo Boost Technology
- 3rd Generation Intel® Core™ i7-3610QM (2.30 GHz, 6 MB L3 cache, 45W, 4 cores)* (8570p only)
Up to 3.30 GHz with Intel Turbo Boost Technology
- 3rd Generation Intel® Core™ i7-3520M (2.90 GHz, 4 MB L3 cache, 35W, 2 cores)*
Up to 3.60 GHz with Intel Turbo Boost Technology
- 3rd Generation Intel® Core™ i5-3360M (2.80 GHz, 3 MB L3 cache, 35W, 2 cores)*
Up to 3.50 GHz with Intel Turbo Boost Technology
- 3rd Generation Intel® Core™ i5-3320M (2.60 GHz, 3 MB L3 cache, 35W, 2 cores)*
Up to 3.30 GHz with Intel Turbo Boost Technology
- 3rd Generation Intel® Core™ i5-3210M (2.50 GHz, 3 MB L3 cache, 35W, 2 cores)* (8570p only)
Up to 3.10 GHz with Intel Turbo Boost Technology

* Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. 64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel® 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Intel's numbering is not a measurement of higher performance.

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



Features

CHIPSET

Mobile Intel QM77 Express (vPro support)

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 or Ultimate-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.

GRAPHICS

Integrated:

Intel HD Graphics 4000

Discrete:

AMD Radeon™ HD 7570M, with 1 GB dedicated GDDR5 video memory

DISPLAY

HP EliteBook 8470p:

Internal

14.0" diagonal LED-backlit HD 16:9 widescreen anti-glare (1366 x 768)

14.0" diagonal LED-backlit HD+ 16:9 widescreen anti-glare (1600 x 900)

HP Privacy Filter support

External

Up to 32-bit per pixel color depth

DisplayPort

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

VGA

Port supports resolutions up to 2048 x 1536 at 75 Hz, and lower resolutions at up to 100 Hz



Features

DVI-D (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

HP EliteBook 8570p:

Internal

15.6" diagonal LED-backlit HD 16:9 anti-glare (1366 x 768)
15.6" diagonal LED-backlit HD+ 16:9 WVA anti-glare (1600 x 900)
15.6" diagonal LED-backlit FHD WVA anti-glare (1920 x 1080)

HP Privacy Filter support

External

Up to 32-bit per pixel color depth

DisplayPort

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

VGA

Port supports resolutions up to 2048 x 1536 at 75 Hz, and lower resolutions at up to 100 Hz

DVI-D (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

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

STORAGE AND DRIVES

Primary Storage Bay

Hard Drives

320/500/750 GB 7200 rpm SMART SATA II
500 GB 7200 rpm SMART SATA II Self Encrypting Drive (8570p only)

HP 3D DriveGuard (Windows only)

The hard drive is mounted directly to the notebook frame, reducing the transmission of shock to the hard drive.

Solid State Drive

SATA 6 Gb/s 128 GB Solid State (8570p only)
SATA 6 Gb/s 180 GB Solid State (Available starting June 2012)*
SATA 6 Gb/s 256 GB SED Solid State

* Not offered in Brazil.

NOTE: Up to 19 GB is reserved for the system recovery software.

OPTICAL DRIVES

Fixed 12.7 mm SATA optical drive



Features

Blu-ray ROM DVD+/-RW SuperMulti DL Drive (8570p only)

DVD+/-RW SuperMulti DL Drive

DVD-ROM Drive

Second hard drive

500 GB 7200 rpm SMART SATA II Hard Drive

Weight saver

MEMORY

Standard

DDR3 PC3-12800 SDRAM (1600 MHz)

Two SODIMM slots supporting dual-channel memory

Standard memory up to 8192 MB (2 GB, 4 GB, and 8 GB SODIMMs)

Maximum

Upgradeable to 16384 MB with optional 8192 MB SODIMMs in slots 1 and 2

Dual-channel

Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory slots.

NOTE: Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed. With Windows Starter 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.

NETWORKING/COMMUNICATIONS

Wireless

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. Wireless LAN and integrated Bluetooth are also available (both are factory configurable only) and can be combined with any of the supported wireless WAN options.

Broadband Wireless (WWAN)

HP hs2350 HSPA+ Mobile Broadband Module

HP un2430 EV-DO/HSDPA Mobile Broadband Module (Gobi™ 3000)

Integrated wireless LAN options

Intel Centrino Ultimate-N 6300 802.11a/b/g/n (3x3)

Intel Centrino Advanced-N 6205 802.11a/b/g/n (2x2)

802.11 a/b/g/n WiFi Adapter (2x2)

802.11 b/g/n WiFi Adapter (1x1) (8570p only)

HP Integrated Module with Bluetooth 4.0+ EDR Wireless Technology

Communications

Integrated Intel 82579LM Gigabit* Network Connection (vPro configurations)



Features

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.

AUDIO/MULTIMEDIA

Audio

SRS Premium Sound PRO™

Integrated stereo speakers

Integrated dual-microphone array

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

Stereo headphone port

Stereo microphone port

Webcam

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

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

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 EliteBook 8570p includes a separate numeric keypad.

Pointing Devices

Touchpad with on/off button, two-way scroll, gestures, two pick buttons

Pointstick with two additional pointstick buttons (for a total of four)

Buttons and Function Keys



Features

Discrete buttons provide easy access to the following features: wireless on/off, Web browser, and volume mute. The HP EliteBook 8570p also features a calculator button. Function keys provide control of the following features: standby mode, external display, volume down, volume up, HP Power Assistant, and display brightness.

SOFTWARE AND SECURITY

Preinstalled Software with Windows Operating System

HP Connection Manager
HP Hotkey Support
HP Power Assistant
HP ProtectTools for Central Management
HP ProtectTools Security Manager
HP Recovery Manager
HP Support Assistant
HP Webcam Software (select models)
Adobe Flash Player
Corel WinDVD (select models)
Microsoft® Office Starter: reduced-functionality Word and Excel® only, with advertising. No PowerPoint® or Outlook®.
Buy Office 2010 to use the full-featured software.*
Microsoft Security Essentials
PDF Complete Corporate Edition
Roxio MyDVD Business 2010 (select models)
Roxio Secure Burn (select models)
Skype ready (Internet access required)
WinZip Basic

NOTE: 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 19 GB of the hard drive is reserved for the system recovery software. Support in Windows Operating System only.

* 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>.

Security

Standard

HP Disk Sanitizer
HP ProtectTools
HP Spare Key (requires initial user setup)
Central Management for HP ProtectTools
Credential Manager for HP ProtectTools
Drive Encryption for HP ProtectTools
Enhanced Pre-Boot Security
Face Recognition for HP ProtectTools



Features

File Sanitizer for HP ProtectTools
Microsoft Security Essentials
TPM Embedded Security Chip 1.2
Smart Card Reader
Security lock slot

Optional

Computrace anti-theft software (requires a subscription)
Intel Anti-Theft Technology (requires a Computrace subscription)
HP Fingerprint Sensor
HP Privacy Filter

NOTE: Computrace agent is shipped turned off, and must be activated by customers when they purchase a subscription. Subscriptions can be purchased for terms ranging from one to five years. Service is limited, check with Absolute for availability outside the U.S.

For more information on HP security solutions refer to: <http://www.hp.com/go/security>.

POWER

Power Supply

Models with discrete graphics and models with integrated graphics with quad-core processor:

External 90W HP Smart AC Adapter

Models with integrated graphics with dual-core processor:

External 65W HP 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 (not supported on 9-cell primary or secondary batteries)

Primary Battery

HP 9-cell Lithium-Ion Battery (100 WHr)

HP 6-cell Lithium-Ion Battery (62 WHr)

HP 6-cell HP Long Life Lithium-Ion Battery (55 WHr)

Secondary Battery

HP Extended Life Notebook Battery (9-cell /73 WHr)

HP Ultra Extended Life Notebook Battery (9-cell /100 WHr)

Battery Life*

HP EliteBook 8470p**

9-cell (100 WHr) TBD

6-cell (62 WHr) Up to 9 hours and 15 minutes

with optional TBD

HP ST09 Extended Life



QuickSpecs

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Features

Notebook Battery
with optional TBD
HP BB09 Ultra Extended Life
Notebook Battery

HP EliteBook 8570p**

9-cell (100 WHr)

6-cell (62 WHr) Up to 8 hours and 15 minutes

with optional TBD
HP ST09 Extended Life
Notebook Battery
with optional TBD
HP BB09 Ultra Extended Life
Notebook Battery

System Standby Time

Up to TBD week

*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 <http://www.bapco.com/products/mobilemark2007> for additional details.

** Configurations with integrated graphics.

NOTE: Fast Charge recharges your battery up to 90% within 90 minutes when the system is off. Please note that 9-cell batteries do not support Fast Charge.

Power Conservation

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

ENVIRONMENTAL

ENERGY STAR qualified (with Microsoft OS)

IT ECO Declaration

EPEAT Gold where HP registers commercial notebook products. See <http://www.epeat.net> for registration status in your country.

NOTE: 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.



Features

WEIGHTS & DIMENSIONS

8470p

Weight

Starting at 4.56 lb (2.07 kg) without optical drive; 4.95 lb (2.25 kg) with DVD-ROM drive

Dimensions (w x d x h)

13.31 x 9.11 x 1.25 in (at front)

33.8 x 23.1 x 3.4 cm (at front)

8570p

Weight

Starting at 6.01 lb (2.73 kg) without optical drive; 6.27 lb (2.85 kg) with DVD-ROM drive

Dimensions (w x d x h)

14.72 x 9.86 x 1.34 in (at front)

37.4 x 25.1 x 3.4 cm (at front)

NOTE: Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components. Weight includes 6-cell battery, hard drive, 1 GB memory, and no optical drive. Weight varies by configuration and components.

PORTS/SLOTS

Ports

8470p

VGA – One

DisplayPort – One (UMA: v1.1a; discrete: v1.2)

Stereo microphone port – One

Stereo headphone port – One

Power Connector – One

Secondary Battery Connector – One

Docking Connector – One

RJ-45 (Ethernet) – One

RJ-11 (Modem) – One

1394a – One

USB 3.0 – Two

USB 2.0 charging port – One

eSATA/USB 2.0 combo port – One

8570p



QuickSpecs

HP EliteBook 8470p Notebook PC
HP EliteBook 8570p Notebook PC
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Features

VGA – One
DisplayPort – One (UMA: v1.1a; discrete: v1.2)
Stereo microphone port – One
Stereo headphone port – One
Power Connector – One
Secondary Battery Connector – One
Docking Connector – One
RJ-45 (Ethernet) – One
RJ-11 (Modem) – One
1394a – One
USB 3.0 – Two
USB 2.0 – One
USB 2.0 charging port – One
eSATA/USB 2.0 combo port – One
Serial port – One

Digital Media Slots

1 ExpressCard/54 slot
1 SD/MMC slot (supported media include: SD, SDHC, SDXC, MMC, MMC+)

SERVICE AND SUPPORT

HP Services offers limited 3 year and 1 year warranty options depending on country; 1-year limited warranty on primary battery; 3-year limited warranty on HP Long Life Battery (only available with 3-year platform warranty). 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/services/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 EliteBook 8470p Notebook PC
HP EliteBook 8570p Notebook PC
Intel Embargo until June 3rd

Technical Specifications

SYSTEM UNIT

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
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	40 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 (Microsoft OS)*
	EPEAT	Registered Gold in United States**
	ICES	Yes
	Australia / NZ A-Tick Compliance	Yes
	CCC	Yes
	Japan VCCI Compliance	Yes
	KC	Yes
	BSMI	Yes
	CE Marking Compliance	Yes
	BNCI or BELUS	Yes
	CIT	Yes
	GOST	Yes
	Saudi Arabian Compliance (ICCP)	Yes
	SABS	Yes



QuickSpecs

HP EliteBook 8470p Notebook PC HP EliteBook 8570p Notebook PC Intel Embargo until June 3rd

Technical Specifications

UKRSERTCOMPUTER Yes

* Configurations of the HP EliteBook 8470p and HP EliteBook 8570p that are ENERGY STAR qualified are identified as HP 8470p ENERGY STAR and HP 8570p ENERGY STAR on HP websites and on www.energystar.gov.

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

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

DISPLAYS

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)

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



QuickSpecs

HP EliteBook 8470p Notebook PC HP EliteBook 8570p Notebook PC Intel Embargo until June 3rd

Technical Specifications

	PPI	131 ppi
	Viewing Angle	30/30/20/10 (Left/Right/Down/Up) (minimum)
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)
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)
15.6-inch LED FHD	Dimensions (W x H)	13.54 x 7.59 in (34.4 x 19.4 cm)



QuickSpecs

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Technical Specifications

WVA (1920 x 1080) anti-glare	Diagonal Size	15.6 in (39.6 cm)
	Surface Treatment	Anti-glare
	Contrast Ratio	300 :1 (min)
	Refresh Rate	60 Hz
	Brightness	220 nits (Typ)
	Pixel Resolution	Pitch 0.179mm x 0.179mm
		Format 1920 x 1080
		Configuration RGB Stripe
	Backlight	White LED
	PPI	142 ppi
	Viewing Angle	±60° Horizontal, ± 50° Vertical (minimum) or ±70° Horizontal, ±60° Vertical (typical)

STORAGE AND DRIVES

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	Synchronous 300 MB/s (Drive Capability) (maximum)
	Seek Time (typical reads, including settling)	Single Track 1.5 ms
		Average 11 ms
		Maximum 22 ms
	Rotational Speed	7200 rpm
500 GB 7200 rpm SATA Hard Drive	Logical Blocks	1,465,149,168
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]
	Features	ATA Security
	Drive Weight	0.25 lbs (115g)
	Capacity	500 GB
	Height	0.37 in (9.5 mm)



QuickSpecs

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Technical Specifications

500 GB 7200 rpm SMART SATA II Self Encrypting Drive	Width	2.75 in (70 mm)
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ
	Transfer Rate	Synchronous 300 MB/s (Drive Capability) (maximum)
	Seek Time (typical reads, including settling)	Single Track 1.5 ms Average 11 ms Maximum 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
	Drive Weight	0.25 lbs (115g)
	Capacity	500 GB
	Height	0.37 in (9.5 mm)
	Width	2.50 in (63.5 mm)
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s
	Transfer Rate	Synchronous 300 MB/s (Drive Capability) (maximum)
	Seek Time (typical reads, including settling)	Single Track 1 ms Average 12 ms Maximum 20 ms
320 GB 7200 rpm SATA Hard Drive	Rotational Speed	7200 rpm
	Logical Blocks	976,773,168
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]
	Features	ATA Security
	Drive Weight	0.25 lbs (115 g)
	Capacity	320 GB
	Height	0.37 in (9.5 mm)
	Width	2.75 in (70 mm)



QuickSpecs

HP EliteBook 8470p Notebook PC
HP EliteBook 8570p Notebook PC
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Technical Specifications

Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ	
Transfer Rate	Synchronous	300 MB/s (Drive Capability) (maximum)
Seek Time (typical reads, including settling)	Single Track	1.5 ms
	Average	11 ms
	Maximum	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	

256 GB 2.5-inch SATA SED Solid State Drive

Drive Weight	75 Grams	
Capacity	256 GB	
Height	0.276 in (7 mm)	
Width	2.76 in (70 mm)	
Interface	SATA Gen 2	
Performance	Maximum Sequential Read	Maximum Sequential Write
	250 MB/s	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	

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	Maximum Sequential Read	Maximum Sequential Write



QuickSpecs

HP EliteBook 8470p Notebook PC HP EliteBook 8570p Notebook PC Intel Embargo until June 3rd

Technical Specifications

		250 MB/s	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			
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	
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	



QuickSpecs

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Technical Specifications

	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	
Blu-ray ROM DVD+/- Access Times RW SuperMulti DL Drive	Random	<190 ms CD-ROM (typical)
		< 180ms DVD-ROM (typical)
		<230 ms BD-ROM (typical)
Max Data Transfer Rate	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	



QuickSpecs

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Technical Specifications

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, BD-ROM, BD-R, BD-RE
Supported Media (write)	CD-R, CD-RW, DVD+R, DVD+R DL, DVD+RW, DVD-R, DVD-R DL, DVD-RW, DVD-RAM
Max Media Capacity (read)	50.0 GB
Max Media Capacity (write)	8.5GB
Transport	Tray Loading

SECURITY

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

NETWORKING/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
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Technical Specifications

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



QuickSpecs

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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) Optional symbol rates: 2800, 3429 Asymmetric Symbol rates Synchronous primary channel data signaling rates: 3600, 31200 Automatic rate re-negotiation V.34 V.32bis V.32 V.23 V.22bis V.22 V.21 Bell 212A Bell 103J
	Fax Mode Capabilities	TIA/EIA-578-B (Class 1) T.30, T.4 (Group 3) V.17 V.29 V.27ter V.21 Channel 2 T.31
	Command Set	V.250 (Partial) TIA-602



QuickSpecs

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Technical Specifications

		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
HP un2430 EV-DO/HSDPA Mobile Broadband Module (Gobi™ 3000)	Technology/Operating Bands	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)
	Wireless Protocol Standards	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
	Wireless Parametric Standards	Meets or exceeds TIA/EIA IS-98-D
	Maximum Data Rates	UMTS (HSPA) - 14.4 Mbps (Download), 5.76Mbps (Upload) CDMA (EVDO Release A) - 3.1 Mbps (Download), 1.8Mbps (Upload)
	GPS	Standalone GPS enabled gpsOneXTRATM™
	GPS Bands	L1 - 1575.42 MHz
	Maximum Output Power	GSM/GPRS/EDGE: 32dBm (+/-1) WCDMA: 24dBm (+0.7/-2.3) CDMA: 24dBm (+0.7/-2)
	Maximum Power Consumption	2750mA (peak); 1100mA (average)
	Power Consumption, Idle Not Connected	20 mA
	Power Management	USB selective suspend Integrated notebook wireless button



QuickSpecs

HP EliteBook 8470p Notebook PC HP EliteBook 8570p Notebook PC Intel Embargo until June 3rd

Technical Specifications

HP hs2350 HSPA+ Mobile Broadband Module	Antenna Type	Dual high efficiency 5 band antennae with spatial diversity, mounted in the display enclosure
	Form Factor	PCI-Express MiniCard, USB 2.0 interface
	Weight	11.5 g
	Dimensions (Length x Width x Thickness)	2.01 x 1.18 x 0.18 in (51 x 30 x 5 mm)
	Voltage, Operating	3.3v +/- 10%
	Temperature, Operating (from TIA/EIA/IS-98-D)	-22° to 158° F (-30° to 70° C) (full RF performance) -22° to 167° F (-30° to 75° C) (reduced RF performance)
	Temperature, Non-operating, 96 hours (from MIL-STD 202 Method 108)	-40° to 185° F (-40° to 85° C)
	Humidity, Non-operating	95% relative humidity for 48 hours @ 185° F (85° C) (non-condensing)
	Configuration Utilities	HP Connection Manager
	LED Activity	LED Off - Radio Off; Solid LED On - Radio On
	Technology/Operating Bands	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), 900MHz(UTRA FDD Band VIII), 850 MHz (UTRA FDD Band V)
	Wireless Protocol Standards	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 Complies with 3GPP specifications
	Wireless Parametric Standards	
	Maximum Data Rates	UMTS (HSPA) – 21 Mbps (Download), 5.76Mbps (Upload)
	GPS	Standalone, A-GPS (Internet- and Network assisted)
	GPS Bands	1575.42 MHz (± 1.023 MHz)
	Maximum Output Power	GSM/EDGE GSM850 & GSM900 bands GPRS: +33 dBm ± 2 dBm (class 4) EGPRS: +27 dBm ± 3 dBm (class E2)



QuickSpecs

HP EliteBook 8470p Notebook PC HP EliteBook 8570p Notebook PC Intel Embargo until June 3rd

Technical Specifications

		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)
	Maximum Power Consumption	2000mA (peak); 600mA (average)
	Power Consumption, Sleep Mode	5 mA
	Power Management	USB selective suspend Integrated notebook wireless button
	Antenna Type	Dual high efficiency 5 band antennae with spatial diversity, mounted in the display enclosure
	Form Factor	PCI-Express MiniCard, USB 2.0 interface
	Weight	< 12 g
	Dimensions (Length x Width x Thickness)	2.01 x 1.18 x 0.18 in (51 x 30 x 5 mm)
	Voltage, Operating Temperature, Operating Temperature, Non-operating, 96 hours (from MIL-STD 202 Method 108)	3.3v \pm 9% 14° to 149° F (–10° to 65° C) (full RF performance) 14° to 167° F (–10° to 75° C) (reduced RF performance) –22° to 185° F (–30° to 85° C)
	Humidity, Non-operating	85% relative humidity for 48 hours @ 185° F (85° C) (non-condensing)
	Configuration	HP Connection Manager
	Utilities	
	LED Activity	LED Off – Radio Off; Solid LED On – Radio On
Intel Centrino Advanced-N 6205 (2x2)	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n*
	Interoperability	Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Windows 7, Windows Vista and XP (details at: http://www.hp.com/go/notebooks/WLAN)
	Frequency Band	2.4 GHz and 5 GHz



QuickSpecs

HP EliteBook 8470p Notebook PC HP EliteBook 8570p Notebook PC Intel Embargo until June 3rd

Technical Specifications

Antenna Structure	2 transmit; 2 receive (2x2)
Data Rates	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
Modulation	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM
Security¹	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) ²	17 dBm max
Power Consumption	Transmit: 2.3 Watts (max, with two spatial streams) Receive: 1 Watt (max with two spatial streams) Idle mode ³ : 35 mW (average) Radio off: 20 mW (max)
Power Management	ACPI compliant power management 802.11 compliant power saving mode
Receiver Sensitivity⁴	54 Mbps: -76 dBm, 6 Mbps: -92 dBm
Antenna Connections	2 U.FL type connectors, 50 ohm nominal impedance



QuickSpecs

HP EliteBook 8470p Notebook PC HP EliteBook 8570p Notebook PC Intel Embargo until June 3rd

Technical Specifications

Form Factor	PCI-Express Half-MiniCard	
Weight	0.0075 lb (3.4 g)	
Dimensions	0.12 x 1.06 x 1.18 in (3.1 x 26.8 x 30.0 mm)	
Operating Voltage	3.3V +/- 9%	
Temperature	Operating	32° to 176° F (0° to 80° C)
	Non-operating	-40° to 176° F (-40° to 80° C)
Humidity	Operating	10% to 90% (non-condensing)
	Non-operating	5% to 90% (non-condensing)
Altitude	Operating	0 to 10,000 ft (3,048 m)
	Non-operating	0 to 50,000 ft (15,240 m)
LED Activity	LED Off - Radio OFF; Solid LED On - Radio ON	
	<ol style="list-style-type: none">1. Check latest software/driver release for updates on supported security features.2. Maximum output power may vary by country according to local regulations.3. In Power Save Polling mode and on battery power.4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CCK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).5. WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows XP. WLAN may also be compatible with certain third-party software supplicants. WLAN supplier IHV extensions required for Cisco Compatible Extensions support for Microsoft Windows Vista.	
Wireless LAN	IEEE 802.11a	
Standards	IEEE 802.11b	
	IEEE 802.11g	
	IEEE 802.11n	
Interoperability	Wi-Fi certified	
	Cisco Compatible Extensions Program compliant with Microsoft Windows 7, Windows Vista and XP (details at: http://www.hp.com/go/notebooks/WLAN)	
Frequency Band	2.4 GHz and 5GHz	
Antenna Structure	3 transmit; 3 receive (3x3)	
Data Rates	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: many possible data rates, ranging from 6 Mbps to 450 Mbps, depending on the combination of Bandwidth, Modulation Coding Scheme, and Guard Interval used, as defined in IEEE 802.11n specification	



QuickSpecs

HP EliteBook 8470p Notebook PC HP EliteBook 8570p Notebook PC Intel Embargo until June 3rd

Technical Specifications

Modulation	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM
Security¹	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 Access Points
Output Power (for CCK and OFDM) ²	17 dBm max
Power Consumption	Transmit: 2.4 Watts (max, with three spatial streams) Receive: 1.4 Watts (max with three spatial streams) Idle mode ³ : 35 mW (average) Radio off: 20 mW (max)
Power Management	ACPI compliant power management 802.11 compliant power saving mode
Receiver Sensitivity⁴	54 Mbps: -76 dBm, 6 Mbps: -92 dBm
Antenna Connections	3 U.FL type connectors, 50 ohm nominal impedance
Form Factor	PCI-Express Half-MiniCard
Weight	0.0075 lb (3.4 g)
Dimensions	0.12 x 1.06 x 1.18 in (3.1 x 26.8 x 30.0 mm)
Operating Voltage	3.3V +/- 9%



QuickSpecs

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Technical Specifications

Temperature	Operating	32° to 176° F (0° to 80° C)
	Non-operating	-40° to 176° F (-40° to 80° C)
Humidity	Operating	10% to 90% (non-condensing)
	Non-operating	5% to 90% (non-condensing)
Altitude	Operating	0 to 10,000 ft (3,048 m)
	Non-operating	0 to 50,000 ft (15,240 m)
LED Activity	LED Off - Radio OFF; Solid LED On - Radio ON	

1. Check latest software/driver release for updates on supported security features.
2. Maximum output power may vary by country according to local regulations.
3. In Power Save Polling mode and on battery power.
4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (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.

802.11a/b/g/n WiFi Adapter (2x2)	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n
	Interoperability	Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Windows 7, Windows Vista and XP (details at: http://www.hp.com/go/notebooks/WLAN)
	Frequency Band	2.4 GHz and 5 GHz
	Data Rates	802.11b: 1, 2, 5.5, 11 Mbps 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: 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
	Frequency Support	20 MHz: 2.4 GHz and 5 GHz bands 40 MHz: 2.4 GHz and 5 GHz bands
	Modulation	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM
	Security¹	Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES, 802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST.



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	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 access points	
Output Power (for CCK) ²	17 dBm , nominal	
Output Power (for OFDM; power varies by data rate) ²	15 dBm , nominal	
Power Consumption	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)	
Power Management	ACPI compliant power management 802.11 compliant power saving mode	
Receiver Sensitivity ³	270 Mbps: -61dBm, , 54 Mbps: -72 dBm, 11 Mbps: -85 dBm , 1 Mbps: -92 dBm	
Antenna type	High efficiency dual band antenna with spatial diversity, mounted in the display enclosure	
Form Factor	PCI-Express Half-MiniCard	
Weight	0.013 lb (6 g)	
Dimensions	0.19 x 1.06 x 1.18 in (4.75 x 26.8 x 30 mm)	
Operating Voltage	3.3v +/- 10%	
Temperature	Operating	14° to 149° F (-10° to 65° C)
	Non-operating	-40° to 176° F (-40° to 80° C)
Humidity	Operating	10% to 90% (non-condensing)
	Non-operating	5% to 95% (non-condensing)
Altitude	Operating	0 to 10,000 ft (3,048 m)
	Non-operating	0 to 50,000 ft (15,240 m)
LED Activity	LED Off - Radio OFF; Solid LED On - Radio ON	

1. [Check latest software/driver release for updates on supported security features.](#)



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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.

802.11 b/g/n WiFi Adapter (1x1)	Wireless LAN Standards	IEEE 802.11b IEEE 802.11g IEEE 802.11n
	Interoperability	Wi-Fi certified
	Frequency Band	2.4 GHz
	Data Rates	802.11b: 1, 2, 5.5, 11 Mbps
		802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
		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
	Security¹	DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM
		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.
	Sub-channels	Multinational support with frequency bands and channels compliant to local regulations.
	Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK
	Network Architecture	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
	Models	
	Roaming	IEEE 802.11 compliant roaming between access points
	Output²	13.5 dBm, nominal
	Power Consumption	Transmit: 2.0 W (max)
		Receive: 1.6 W (max)
		Associated to Access Point, Idle: 250 mW nominal
		Wireless Button Off: 100 mW nominal
	Power Management	Radio disabled: 75 mW nominal
		ACPI compliant power management
		802.11 compliant power saving mode
	Receiver Sensitivity³	72.2 Mbps: -70 dbm, 54 Mbps: -74 dBm, 11 Mbps: -88 dBm , 1 Mbps: -95 dBm
	Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure



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Technical Specifications

Form Factor	PCI-Express Half-MiniCard 1.2
Weight	0.013 lb (6 g)
Dimensions	0.19 x 1.06 x 1.18 in (4.75 x 26.8 x 30 mm)
Operating Voltage	3.3v +/- 9%
Temperature	Operating 14° to 158° F (-10° to 70° C) Non-operating -40° to 176° F (-40° to 80° C)
Humidity	Operating 10% to 90% (non-condensing) Non-operating 5% to 95% (non-condensing)
Altitude	Operating 0 to 10,000 ft (3,048 m) Non-operating 0 to 50,000 ft (15,240 m)
LED Activity	LED Off – Radio OFF; Solid LED On – Radio ON
	<ol style="list-style-type: none">1. Check latest software/driver release for updates on supported security features.2. Maximum output power may vary by country according to local regulations.3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).
HP Integrated Module with Bluetooth 4.0+EDR Wireless Technology	Bluetooth Specification 4.0+EDR Compliant
	Dimensions 1.18 x 0.26 x 0.13 in (30 x 6.5 x 3.25 mm)
	Frequency Band 2402 to 2480 MHz
	Number of Available Channels 79 (1 MHz) available channels
	Data Rates and Throughput 3 Mbps data rate; throughput up to 2.17 Mbps Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric or 1306.9 kbps symmetric
	Transmit Power -1.5 dBm to 4 dBm (Bluetooth Class II)
	Receiver Sensitivity Better than -20 dBm at 0.1 % raw bit error rate
	Power Consumption Peak (Tx) 264 mW Peak (Rx) 231 mW Sleep <1 mW
	Antenna Internally integrated within module
	Range Up 33 ft (10 m)
	Electrical Interface USB 2.0 compliant Microsoft Windows Plug and Play compliant
	Bluetooth Software Supported Broadcom Bluetooth for Windows Microsoft Windows Bluetooth Software
	Link Topology Point to Point, Multipoint Pico Nets up to 7 slaves



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Technical Specifications

Security	Full support of Bluetooth Security Provisions
Power Management	Microsoft Windows ACPI, and USB Bus Support Self configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff
Certifications	All necessary regulatory approvals for supported countries, including: FCC (47 CFR) Part 15C, Section 15.247 & 15.249 ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark
Temperature	Operating -14° to 158° F (-10° to 70° C) Non-operating -40° to 212° F (-40° to 100° C)
Humidity	Operating 0% to 90% Non-operating 0% to 95%
Altitude	Operating 15,000 ft (4,572 m) Non-operating 40,000 ft (12,192 m)
Bluetooth Profiles Supported	Serial Port Profile (SPP) ¹ Service Discovery Application Profile (SDAP) Dial-Up Networking (DUN) ^{1,2} Generic Object Exchange Profile (GOEP) ^{1,2} Object Push Profile (OPP) ^{1,2} File Transfer Profile (FTP) Synchronization Profile (SYNC) Hard Copy Cable Replacement (HCRP) ^{1,2} Personal Area Networking Profile (PAN) ^{1,2} Human Interface Device Profile (HID) ^{1,2} FAX Profile (FAX) Basic Imaging Profile (BIP) ² 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

AUDIO/MULTIMEDIA

Hardware	Implementation	IDT 92HD87 High Definition CODEC
	Touch-Sensitive	Volume up, volume down, and mute



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Technical Specifications

Audio Output Quality	Volume Controls	
	Full Duplex	Yes
	Microphone In	Stereo
	Headphone/Line Out	Stereo
	Integrated Microphone	Yes, dual digital microphone array when equipped with optional webcam
	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
	Power Rating	2 Watts
	Impedance	4 Ohms
Integrated Stereo Speakers		

POWER

HP 90W Smart AC Adapter (discrete configurations and configurations with integrated graphics with quad-core processor)	Dimensions	5.00 x 1.97 x 1.1 in (12.7 x 5.0 x 2.9 cm)	
		0.82 lb (370 g)	
		100 to 240 VAC	
		Input Efficiency	87% min at 115 VAC
	Weight	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
	Input	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



QuickSpecs

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Technical Specifications

	Connector	3 pin/grounded, mates with interchangeable cords
	Environmental Design	Operating temperature 32° to 104° F (0° to 40° C) Non-operating (storage) temperature -4° to 149° F (-20° to 65° C) Altitude 0 to 10,000 ft (0 to 3,048 m) Humidity 20% to 80% Storage Humidity 10% to 90%
	EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives; Worldwide safety standards - IEC60950, EN60950, UL60950, Class 1, 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 (Configurations with integrated graphics with dual-core processor)	Dimensions	4.17 x 1.85 x 1.1 in (10.6 x 4.7 x 2.8 cm)
	Weight	0.62 lb (280 g)
	Input	100 to 240 VAC Input Efficiency 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
	Output	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
	Connector	3 pin/grounded, mates with interchangeable cords
	Environmental Design	Operating temperature 32° to 104° F (0° to 40° C) Non-operating (storage) temperature -4° to 149° F (-20° to 65° C) Altitude 0 to 10,000 ft (0 to 3,048 m) Humidity 20% to 80% Storage Humidity 10% to 90%
	EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives; Worldwide safety standards - IEC60950, EN60950, UL60950, Class 1, 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 9-cell (100 WHr) Dimensions (H x W x D) 0.8 x 2.4 x 8.1 in (2 x 6.6 x 20.5cm)



QuickSpecs

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Technical Specifications

Lithium-Ion Primary L) battery

Weight (max)	1.1 lb, (.488 kg)
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
Compatible with optional Travel Battery	Yes

HP 6-cell (62 WHr) Lithium-Ion Primary L) battery

Dimensions (H x W x L)	0.8 x 2.0 x 8.3 in (2.0 x 5.1 x 21.1 cm)
Weight (max)	0.72 lb (0.325 kg)
Cells/Type	6-cell Lithium-Ion
Energy	Watt-hour capacity 62Wh
Temperature	Operating (Charging) 32° to 113° F (0° to 45° C) Operating (Discharging) 14° to 140° F (-10° to 60° C) Non-operating -4° to 140° F (-20° to 60° C)
Battery Re-Charge Time	System in OFF or Standby Mode 2.5 hours
Warranty	1 year
Compatible with optional Travel Battery	Yes



QuickSpecs

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Technical Specifications

HP 6-cell (55 WHr) Long Life 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)	.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	
	Compatible with optional Travel Battery	Yes	
Optional HP BB09 Ultra Extended Life Notebook Battery (secondary 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	



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Technical Specifications

Optional HP ST09 Extended Life Notebook Battery ("Travel Battery") (secondary battery)	Warranty	1 year
	Dockable	No
	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	
Dockable	Yes	

ENVIRONMENTAL TBD

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: ENERGY STAR qualified (with Microsoft OS) IT ECO declaration EPEAT Gold with a Microsoft OS where HP registers commercial notebook products. See http://www.epeat.net for registration status in your country.
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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



Technical Specifications

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>



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Options and Accessories (sold separately and availability may vary by country)

Type	Description	Part #
Cases	HP Professional Slim Top Load Case	AY530AA
	HP Professional Series Backpack	AT887AA
	HP Deluxe 4 Wheel Roller	XW576AA
Docking	HP Display and Notebook Stand	AW662AA
	HP Dual Hinge Notebook Stand	AW661AA
	HP Adjustable Dual Display Stand	AW664AA
	HP 90W Docking Station	A7E32AA#xxx
	HP 120W Advanced Docking Station	A7E36AA#xxx
Input/Output – Mice	HP 2.4 GHz Wireless Optical Mobile Mouse	LX732AA
	HP Wireless Mobile Mouse	H2L63AA
	USB Keyboard & Mouse Bundle	RC465AA#xxx
Adapters	HP 90W Slim Adapter	BT796AA#xxx
	HP 90W Smart AC/Auto/Air Combo Adapter	AJ652AA#xxx
Storage - External Storage	HP Mobile USB DVDRW	A2U57AA
	SATA Upgrade Bay 500 GB 7200 rpm Hard Drive	AU097AA
Batteries	HP CC06XL Long Life Notebook Battery	QK642AA
	HP CC09 Notebook Battery	QK643AA
	HP ST09 Extended Life Notebook Battery	QK639AA
	HP BB09 Ultra Extended Life Notebook Battery	QK640AA
Health and Education	HP 20-Notebook Managed Charging Cart	QL489AA
	HP 20-Notebook Charging Cart	QL488AA
	HP 30-Notebook Managed Charging Cart	QL490AA
	HP Pocket Whiteboard	A0X37AA
Security	HP Keyed Cable Lock	BV411AA
	HP Docking Station Cable Lock	AU656AA



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