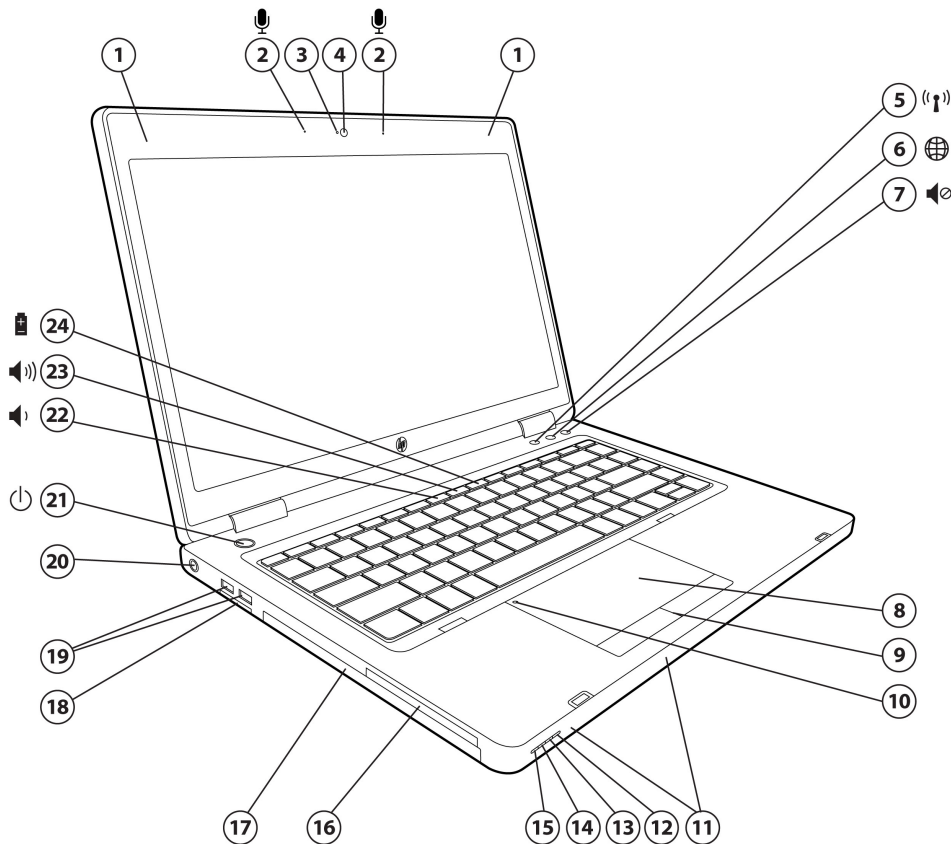


### Overview

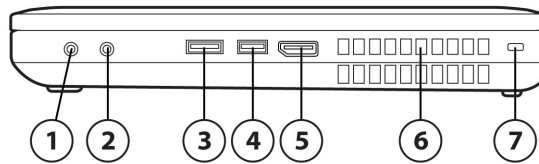


- |  |   |
|--|---|
| 1. WLAN antennas   | 13. Battery charging LED indicator                    |
| 2. Dual-microphone array*                                | 14. Power/standby LED indicator                       |
| 3. Webcam LED indicator (with optional webcam)           | 15. Wireless on/off LED indicator                     |
| 4. Optional 720p HD webcam                               | 16. ExpressCard/54 slot or optional Smart Card Reader |
| 5. Wireless on/off button with LED indicator             | 17. Upgrade Bay (optical drive, or weight saver)      |
| 6. Web browser button with LED indicator                 | 18. Secure Digital slot                               |
| 7. Volume mute button with LED indicator                 | 19. (2) USB 3.0 ports                                 |
| 8. Touchpad with scroll zone                             | 20. Power connector                                   |
| 9. Touchpad pick buttons                                 | 21. Power button with LED indicator                   |
| 10. Touchpad on/off button with LED indicator            | 22. Volume down function key                          |
| 11. Stereo speakers                                      | 23. Volume up function key                            |
| 12. Hard drive activity / HP 3D DriveGuard LED indicator | 24. HP Power Assistant function key                   |

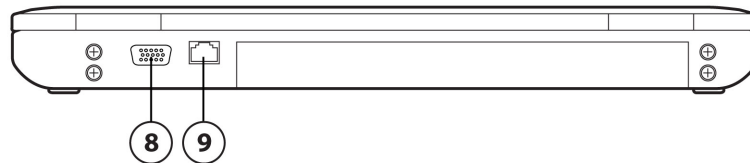
\* Models without optional webcam have single integrated microphone on left side of display panel.

### Overview

**Right View**

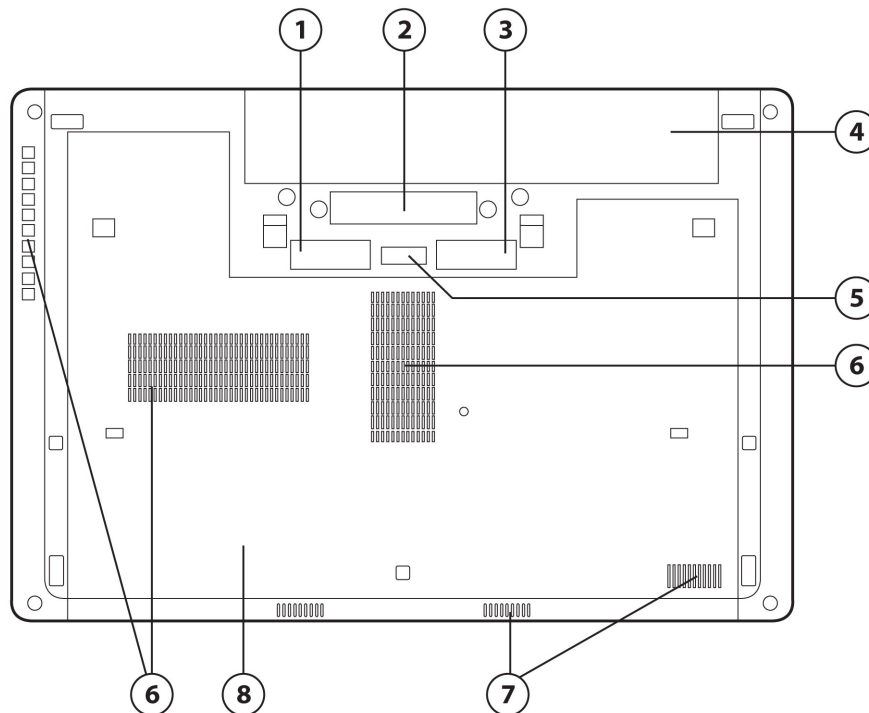


**Rear View**



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

**Bottom View**



- |                               |                                |
|-------------------------------|--------------------------------|
| 1. Battery release latch      | 5. Secondary battery connector |
| 2. Docking connector          | 6. Vents                       |
| 3. Bottom cover release latch | 7. Speakers                    |
| 4. Battery bay                | 8. Speakers                    |

### Overview

#### At A Glance

- Windows Embedded Standard 7 (WES7E 32-bit)
- 14.0-inch diagonal LED-backlit HD anti-glare (1366 x 768)
- Lightweight, professional 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
- Administrator control over read/write access to Solid State Drive and USB attached memory devices
- Weight starting at 4.78 lb (2.17 kg)
- 16 GB Solid State Drive for reliability, durability and increased battery life
- Full-sized spill-resistant keyboard with bottom-case drain, touchpad with scroll zone and gestures support, 3 discrete buttons (Web browser, WLAN on/off, and mute)
- Choice of primary battery to optimize run-time or weight: 9-cell (100 WHr) (optional) or 6-cell (55 WHr)
- Combine primary battery with optional secondary battery options (ST-09)
- Easily hot dock with the optional HP docking station
- HP Device Manager to track, configure, upgrade, clone and manage hundreds or thousands of thin clients
- Improved Quality of Experience for End User using HP Velocity
  - HP Velocity intelligently reduces network packet loss and retransmissions providing a better experience for the end user
  - HP Velocity enables IT managers to monitor network activity and optimize end-user experience
  - Available only on HP thin clients
- VGA and DisplayPort v1.1a for dual external-monitor support, including high-definition displays
- Integrated Broadcom 802.11 a/b/g/n (2x2) wireless connectivity
- Integrated Secure Digital slot and ExpressCard/54 slot
- Optional integrated DVD-ROM drive
- Optional webcam

### Features

#### OPERATING SYSTEM

**Preinstalled** Windows Embedded Standard 7 (WES7E 32-bit)

#### PROCESSOR

3<sup>rd</sup> Generation Intel® Celeron B840 (1.90 GHz, 2 MB L3 cache, 35W, 2 cores, 2 threads)

\* Dual Core is a new technology designed to improve performance of certain software products. Check with the software provider to determine suitability. Not all customers or software applications will necessarily benefit from use of this technology.

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

#### CHIPSET

Mobile Intel® HM76 Express

#### GRAPHICS

Integrated:

Intel® HD\* Graphics 4000

\*HD content required to view HD images.

#### DISPLAY

##### Internal

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

HP Privacy Filter support

##### External

Up to 32-bit per pixel color depth

##### DisplayPort v1.1a

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

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

#### STORAGE AND DRIVES

##### Solid State Drive

16 GB

#### OPTICAL DRIVES (OPTIONAL)

##### Fixed 12.7 mm SATA optical drive

DVD-ROM Drive

### Features

#### MEMORY

##### Standard

DDR3 PC3-12800 SDRAM (1600 MHz)

One SODIMM slot with a 4 GB SODIMM

**NOTE:** Maximum memory capacities assume Windows 64-bit operating systems or Linux. With Windows 32-bit operating systems, memory above 3 GB may not all be available due to system resource requirements.

#### NETWORKING/COMMUNICATIONS

##### Wireless

Secure, integrated wireless LAN options featuring support for the latest industry standards. Wireless LAN is factory configurable only.

##### Wireless LAN (WLAN)

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

##### Communications

Integrated 82579V Gigabit Network Connection (HM76)\*\*

\* Wireless use requires separately purchased service contract. Check with your local vendor for coverage area and availability in your area. Connection and speeds will vary due to location, environment, network conditions, and other factors. 4G compatibility with HSPA+ and LTE. 4G LTE is only available in the United States.

\*\* 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.

#### AUDIO/MULTIMEDIA

##### Audio

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

##### 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

### Features

#### 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 an industry standard, full-pitch key layout with desktop keyboard features, such as the isolated inverted-T cursor control keys, editing keys, both left and right control and alt keys, and 12 function keys. U.S. and International key layouts are available. Other features include an integrated numeric keypad, hotkeys for instant access to power conservation, brightness, and other features, 19 mm x 19 mm key pitch (center-to-center spacing), 2.0 mm stroke, and comfort-dished keycaps.

HP Night Light shines directly on keyboard for low-light conditions

##### Pointing Devices

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

##### Buttons and Function Keys

Discrete buttons provide easy access to the following features: wireless on/off, Web browser, and volume mute. Function keys provide control of the following features: standby mode, external display, volume down, volume up, Power Control Panel Applet, and display brightness.

#### SOFTWARE AND SECURITY

##### Preinstalled Software with Windows Embedded Standard 7 (WES7E 32-bit)

HP Device Manager

HP Velocity

##### Security

##### Standard

Security lock slot

BIOS implemented to NIST guidelines

##### Optional

HP Combo Loc

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

### Features

#### POWER

##### Power Supply

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\*

##### Primary Battery

HP 9-cell Lithium-Ion Battery (100 WHr) (optional)  
HP 6-cell Lithium-Ion Battery (55 WHr)

##### Battery Life\*\*

**9-cell (100 WHr)** Up to 15 hours and 15 minutes

**6-cell (55 WHr)** Up to 8 hours and 15 minutes

with optional Up to 19 hours and 30 minutes

HP ST09 Extended Life Notebook  
Battery

##### System Standby Time

Up to 4 weeks

\* Fast Charge Technology recharges your battery up to 90% within 90 minutes when the system is off. Fast Charge Technology does not apply to the HP Ultra Extended Life or 9-cell batteries. When the PC is powered on, charge time may increase and will vary based on the workload of the notebook PC.

\*\*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.

##### Power Conservation

Standby  
ACPI compliance

#### ENVIRONMENTAL

ENERGY STAR  
IT ECO Declaration  
EPEAT TBD 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.

#### WEIGHTS & DIMENSIONS

##### Weight

Starting at 4.78 lb (2.17 kg)

##### Dimensions (w x d x h)

13.31 x 9.11 x 1.34 in (at front) / 33.8 x 23.1 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.

### Features

#### PORTS/SLOTS

##### Ports

VGA – One  
DisplayPort – One (v1.1a)  
Stereo headphone port – One  
Stereo microphone port – One  
Power Connector – One  
Docking Connector – One  
Secondary Battery Connector – One  
RJ-45 (Ethernet) – One  
USB 3.0 – Two  
USB 2.0 – One  
eSATA/USB 2.0 combo port – One

##### Digital Media Slots

1 ExpressCard/54 slot, 1 Secure Digital slot (SD/SDHC/SDXC)

#### SERVICE AND SUPPORT

Limited 3-year and 1-year warranty options available, 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). Optional HP Care Pack Services\* are extended service contracts which go beyond your standard warranties. For more details visit: <http://www.hp.com/go/lookuptool>.

\* Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit <http://www.hp.com/go/lookuptool>

**NOTE:** Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.  
<http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp>

### Technical Specifications

#### SYSTEM UNIT

<b>Stand-Alone Power Requirements</b> (AC Power)	<b>Nominal Operating Voltage</b>	18.5 V
	<b>Average Operating Power</b>	9.14 W
	<b>Max Operating Power</b>	< 65 W
<b>Temperature</b>	<b>Operating</b>	32° to 95° F (0° to 35° C) (not writing optical) 41° to 95° F (5° to 35° C) (writing optical)
	<b>Non-operating</b>	-4° to 140° F (-20° to 60° C)
<b>Relative Humidity</b>	<b>Operating</b>	10% to 90%, non-condensing
	<b>Non-operating</b>	5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature
<b>Shock</b>	<b>Operating</b>	40 G, 2 ms, half-sine
	<b>Non-operating</b>	200 G, 2 ms, half-sine
<b>Random Vibration</b>	<b>Operating</b>	0.75 grms
	<b>Non-operating</b>	1.50 grms
<b>Altitude</b> (unpressurized)	<b>Operating</b>	-50 to 10,000 ft (-15.24 to 3,048 m)
	<b>Non-operating</b>	-50 to 40,000 ft (-15.24 to 12,192 m)
<b>Planned Industry Standard Certifications</b>	<b>UL</b>	Yes
	<b>CSA</b>	Yes
	<b>FCC Compliance</b>	Yes
	<b>ENERGY STAR®</b>	Select models*
	<b>EPEAT</b>	Registered TBD in United States**
	<b>ICES</b>	Yes
	<b>Australia / NZ A-Tick Compliance</b>	Yes
	<b>CCC</b>	Yes
	<b>Japan VCCI Compliance</b>	Yes
	<b>KC</b>	Yes
	<b>BSMI</b>	Yes
	<b>CE Marking Compliance</b>	Yes
	<b>BNCI or BELUS</b>	Yes
	<b>CIT</b>	Yes
	<b>GOST</b>	Yes
	<b>Saudi Arabian Compliance (ICCP)</b>	Yes
	<b>SABS</b>	Yes
	<b>UKRSERTCOMPUTER</b>	Yes

### Technical Specifications

\* Configurations of the HP mt40 Mobile Thin Client that are ENERGY STAR qualified are identified as HP mt40 Mobile Thin Client ENERGY STAR on HP websites and on [www.energystar.gov](http://www.energystar.gov).

\*\* EPEAT registration varies by country. See [www.epeat.net](http://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>.

### DISPLAY

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

### STORAGE AND DRIVES

#### Internal Storage

<b>16-GB Solid State Drive</b>	<b>Drive Weight</b>	50 grams	
	<b>Capacity</b>	16 GB (unformatted)	
	<b>Height</b>	100.5 mm	
	<b>Width</b>	70 mm	
	<b>Interface</b>	SATA 6 GB/s	
	<b>Performance</b>	<b>Maximum Sequential Read</b>	<b>Maximum Sequential Write</b>
		Up to 450 MB/s	Up to 350 MB/s
	<b>Logical Blocks</b>	16,383 Cylinders, 16 heads, 63 Sectors per Tracks.	
	<b>Operating Temperature</b>	32° to 158°F (0° to 70°C) [case temp]	
	<b>Features</b>	ATA Command Set ACS-2 NCQ support up to queue depth = 32 Advanced Flash Management: nCache™ - Non Volatile Write Cache	

### Technical Specifications

Support for TRIM  
Dynamic & Static Wear-leveling  
Bad Block Management  
Background Garbage Collection  
Support for Performance throttling and Power Classes

#### Internal Storage

<b>DVD-ROM Drive (optional)</b>	Access Times	Random	< 140 ms CD (typical) < 160 ms DVD (typical)
	<b>Max Data Transfer Rate</b>	24X CD-ROM 8X-DVD	
	<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	
	<b>Supported Media (write)</b>	None	
	<b>Max Media Capacity (read)</b>	8.5GB	
	<b>Transport</b>	Tray Loading	

### NETWORKING/COMMUNICATIONS

<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 8023. 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 MACSec Offload (802.3ae) Intel vPro iSCSI Boot

### Technical Specifications

<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>	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
<b>Broadcom 802.11 a/b/g/n WiFi Adapter (2x2)</b>	<b>Wireless LAN Standards</b> IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n  <b>Interoperability</b> Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Windows 7, 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 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

### Technical Specifications

<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 Connections</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)
<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.

### AUDIO/MULTIMEDIA

<b>Audio</b>	<b>SRS Premium Sound PRO</b>	
<b>Hardware</b>	<b>Implementation</b>	IDT 92HD87 High Definition CODEC
	<b>Function Key Volume Controls</b>	Volume up, volume down
	<b>Mute Key</b>	Yes
	<b>Full Duplex</b>	Yes
	<b>Microphone In</b>	Stereo
	<b>Headphone/Line Out</b>	Stereo
	<b>Integrated Microphone</b>	Yes, dual digital microphone array when equipped with optional webcam

### Technical Specifications

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

<b>Integrated Stereo Speakers</b>	<b>Power Rating</b>	2 Watts
	<b>Impedance</b>	4 ohms

### POWER

<b>HP 65W Smart AC Adapter</b>	<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
		<b>Input Efficiency</b> 87% min at 115 VAC
		<b>Input frequency range</b> 47 to 63 Hz
	<b>Output</b>	<b>Input AC current</b> 1.7 A at 90 VAC, 0.85 A at 180 VAC
		<b>Output power</b> 65W
		<b>DC output</b> 18.5V
		<b>Hold-up time</b> 5 msec at 115 VAC input
		<b>Output current limit</b> <11A, Over voltage protection- 29V max automatic shutdown
	<b>Connector</b>	3 pin/grounded, mates with interchangeable cords
	<b>Environmental Design</b>	<b>Operating temperature</b> 32° to 104° F (0° to 40° C)
		<b>Non-operating (storage) temperature</b> -4° to 149° F (-20° to 65° C)
		<b>Altitude</b> 0 to 10,000 ft (0 to 3,048 m)
		<b>Humidity</b> 20% to 80%
		<b>Storage Humidity</b> 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.

### Technical Specifications

#### HP 9-cell (100 WHr) Lithium-Ion Primary battery

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

#### HP 6-cell (55 WHr) Lithium-Ion Primary battery

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

### Technical Specifications

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

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

Type	Description	Part #
<b>Docking</b>	HP 90W Docking Station	A7E32AA#xxx
	HP 90W Docking Station TAA	A7E32AA#xxx
<b>Power</b>	HP ST09 Extended Life Notebook Battery	QK639AA
	HP CC09 Notebook Battery	QK643AA
<b>Security</b>	HP Keyed Cable Lock	BV411AA
	HP 14.0-inch Display Privacy Filter	AU100AA#xxx

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