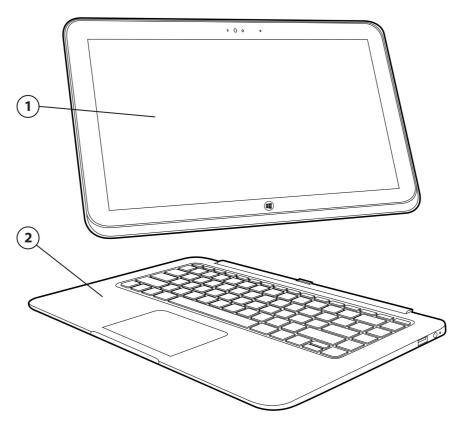
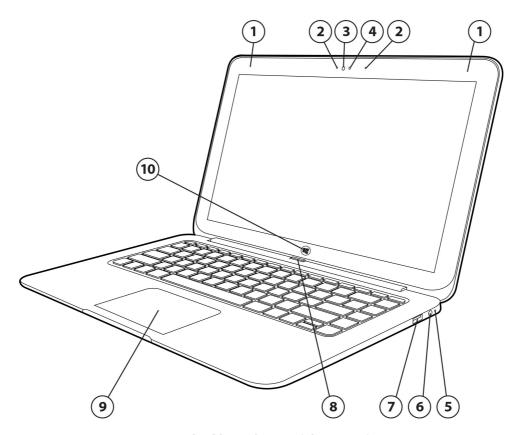
Overview



Separate Tablet and Base

- 1. 13.3" Slate Tablet
- 2. Base

Overview

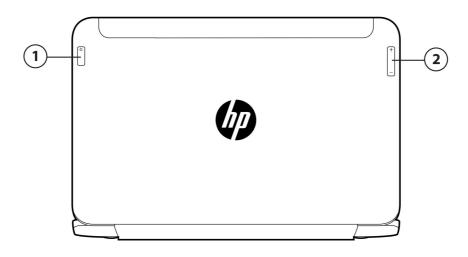


Integrated Tablet and Base, Right Front View

- 1. WLAN antennas (2)
- 2. Internal microphones (2)
- 3. Webcam
- 4. Webcam light
- 5. AC Adapter/battery light

- 6. Power connector
- 7. USB
- 8. Button to detach tablet from base
- 9. Clickpad
- 10. Windows home button

Overview



Rear View

- 1. Power button
- 2. Volume +/- button

At A Glance

- Detachable hybrid tablet combines a super sleek design with key business features and the ability to seamlessly transition between notebook or tablet with one device.
- Windows 8.1 Pro 64, Windows 8.1 ML 64 or Windows 8.1 EM 64
- Ultrabook™ compliant
- 4th generation Intel® Core™ i5-4202Y processor or 4th generation Intel® Core™ i3-4012Y processor
- Integrated Intel HD Graphics 4200
- Widescreen LED-backlit HD (1366 x 768) or FHD (1920x1080) slim 13.3" touchscreen displays that support eDP and are multitouch enabled
- 128 GB or 256 GB mSATA Solid State Drive
- 0.71 inch (18 mm) thin profile (at front)
- Weight starting at 4.39 lb (1.99 kg)
- HP Beats Audio with integrated stereo speakers, integrated dual-microphone array, HD Webcam
- Full sized backlit island-style keyboard with UV coating
- Easily hot dock with one of the optional HP docking stations
- 3-cell (33 WHr) polymer battery (tablet) and 2-cell (18 WHr) polymer battery (base)
- Clickpad w/ multi-touch gesture support image sensor
- Security includes TPM 1.2 Embedded Security Chip
- Wireless connectivity:
 - Integrated HP Mobile Broadband Module



Overview

- O Integrated 802.11 ac, a/b/g/n or b/g/n with Bluetooth 4.0 combo card
- Standard commercial 1 year warranty with upgrade available with HP Care Pack

NOTE: See important legal disclosures for all listed specs in their respective features sections.



Features

OPERATING SYSTEM

Preinstalled

Windows 8.1 Pro 64* Windows 8.1 64*

* Not all features are available in all editions of Windows 8.1. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows 8.1 functionality. See http://www.microsoft.com for details.

PROCESSOR

4th Generation Intel® Core™ i5-4202Y (1.6 GHz, 3 MB L3 cache, 2 cores)*
Up to 2.60 GHz with Intel Turbo Boost Technology**
4th Generation Intel® Core™ i3-4012Y (1.5 GHz, 3 MB L3 cache, 2 cores)*

- * 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.
- ** Intel® Turbo Boost technology requires a PC with a processor with Intel Turbo Boost capability. Intel Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.

CHIPSET

Integrated SoC PCH

GRAPHICS

Integrated: Intel HD Graphics 4200

- Support HD Decode, DX11, and HDMI
- Support PX5.0



Features

DISPLAY

Internal

13.3" diagonal HD LED (1366x768) (Slim 3.0mm) UWVA

- Supports eDP
- Touchscreen, Multitouch enabled

13.3" diagonal FHD LED (1920x1080) (Slim 3.0mm) UWVA

- Supports eDP
- Touchscreen, Multitouch enabled

External

Up to 32-bit per pixel color depth

HDMI

1.4a port supports up to 1080p, 1920 x 1080 at 60Hz

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

STORAGE AND DRIVES

Internal Storage Device*

128/256 GB mSATA 3 Solid State

* For hard drives and SSD's, GB=1 billion bytes. TB=1 trillion bytes. Actual formatted capacity is less. Up to 36GB (for Windows 8.1) of system disk is reserved for system recovery software.

MEMORY

DDR3L SDRAM (1600 MHz)

On-board

Standard 4 GB or 8 GB memory*

*While your notebook may show 4 GB or 8 GB available, up to 1 GB of this memory may not be available with a 32 bit OS due to system resource requirements.



Features

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 as an optional, factory configurable feature only. Integrated Bluetooth is also available (factory configurable only) and can be combined with any of the supported wireless LAN and wireless WAN options.

Broadband Wireless (WWAN)

HP hs3110 HSPA+ Mobile Broadband Module*,**
HP lt4112 LTE/HSPA+ Gobi 4G** Module*,**

Wireless LAN (WLAN)

Intel Dual Band Wireless-AC 7260 802.11ac (2x2) WiFi and Bluetooth 4.0 Combo*,*** Intel Dual Band Wireless-N 7260AN 802.11a/b/g/n (2x2) WiFi and Bluetooth 4.0 Combo*,***

Intel Dual Band Wireless-N 7260BN 802.11b/g/n (2x2) WiFi and Bluetooth 4.0 Combo*,***

- * Sold separately or as an optional feature.
- ** WWAN use requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available in all regions.
- ***Wireless access point and internet service required and sold separately. Availability of public wireless access points limited.

AUDIO/MULTIMEDIA

Audio

HP Beats Audio™

High Definition Beats Audio™ speakers (front facing)

Integrated Dual array Digital Microphones w/ appropriate software - beam forming, echo cancellation, noise suppression Formats: MP3, AAC, AAC+, EAAC+ OGG, MIDI

Headphone/Line-out (Beats supported) and Mic-in (combo) - Voice recognition

Webcam

Integrated HD* Webcam**

- FHD* format
- 1080p
- 2.0MP
- Supports videoconferencing and still image capture
- High quality fixed focus lens
- Video capture at various resolutions up to 1920x1080 resolution (1080p) and up to 30fps
- M-JPEG compression supports higher frame rates for video capture and videoconferencing
- Improved low light sensitivity
- Improved dynamic range



^{*}HD content required to view HD images.

^{**} Internet access required.

Features

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

The 101/102-key island-style keyboard features a full-pitch key layout with desktop keyboard features, such as editing keys, both left and right control and alt keys, and function keys. US and International key layouts are available.

Backlit Keyboard

The standard backlit keyboard for low light environments is toggled on and off with a function key.

Pointing Devices

Clickpad w/ multi-touch gesture support image sensor, on/off button with LED indicator, two-way scroll

Buttons

Power, Volume Up, Volume Down, Windows Start/Home

Sensors

Accelerometer, Gyroscope, Digital Compass, NFC*, ALS

* NFC software is not included and sold separately. Internet access required.

SOFTWARE AND SECURITY

Preinstalled Software with Windows Operating System

Browser and Toolbars

Internet Explorer 10

UI Enhancements

HP Wallpapers

Productivity

Buy Office

Windows® Live™

MovieMaker

Photo Gallery

SkyDrive

Photos and Videos

Cyberlink YouCam DE

Cyberlink Power DVD

Adobe Photoshop Lightroom 5

Adobe® Shockwave Player

Adobe Flash® Player

HP Connected Photo powered by Snapfish

Music - HP

HP Connected Music powered by Meridian* (includes UMG for Arabic and India)

* Availability of features varies by country. Streaming services may require a paid subscription. May not be compatible with all music files. Not compatible with DRM tracks. Internet access is required and not included.

Movies

Netflix

Multimedia Codecs

Dolby



Features

MPEG2

Audio Post processing

Beats Audio™

Communication

Skype

Nuance Dragon Assistant

Cloud Storage

Box.net*

HP File Viewer/Connected Drive (US only)

HP Utilities and Support

HP Online User Guide
Getting Started with Windows 8.1??
HP Registration for Windows 8.1??
HP Recovery Manager
HP Support Assistant**
HP CoolSense
ENERGY STAR® Logo
HP Utility Center
HP ePrint Driver***

*50 GB Box account available on new 2013 HP Business Desktops, Notebooks, and Tablets. Requires Box registration. Offer available to new Box users only. Offer subject to change without notice. Box app requires Windows 8 or 8.1

** Requires Windows and internet access.

***Requires an Internet connection to HP web-enabled printer and HP ePrint account registration (for a list of eligible printers, supported documents and image types and other HP ePrint details, see www.hp.com/go/eprintcenter). Requires optional broadband module. Broadband use requires separately purchased service contract. Check with service provider for coverage and availability in your area. Separately purchased data plans or usage fees may apply. Print times and connection speeds may vary.

Security

Standard

Symantec Norton Internet Securities (60 Day Subscription - BNB SMB BBY)*
Absolute Data Protect (90-day subscription)**
Intel Experience Center
TPM 1.2 Embedded Security Chip

- * Internet access required. First 60 days included. Subscription required for live updates afterwards.
- ** Absolute Data Protect agent is shipped turned off, and must be activated by customers. 90 day subscription included. Subscription and internet access required for updates after the 90 day period. Service may be limited, check with Absolute for availability outside the U.S. The optional subscription service of Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: http://www.absolute.com/company/legal/agreements/computrace-agreement.

Optional

CompuTrace*

*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.



Features

POWER

Power Supply

External 45-watt HP Smart AC Adapter Power cord included is 3.3-foot (1.0 meter) Total length including external AC adapter is TBD feet (TBD meter)

Primary Battery

Slate

HP 3-cell Polymer Battery (33 WHr)

Rase

HP 2-cell Polymer Battery (18 WHr)

Battery Life*,**

Up to 9 hours and 45 minutes combined in the tablet and Keyboard

* Testing conducted by HP consisting of full battery discharge while running a series of productivity scripts against the following applications (which may or may not be included with your particular product): Adobe® Acrobat® Reader 7.0, Adobe Illustrator® CS2, Adobe Photoshop® CS2, Apple® QuickTime® 7.1, Intervideo® WinDVD® 8, Macromedia® Flash 8, Microsoft® Office 2003 Pro, Microsoft Project 2003, and Winzip® 10.0. Prior to testing, the system was fully charged and set to display brightness of 60 nits, auto dim disabled, wireless off, suspend and hibernate disabled, and all other programs, utilities, and services not essential to running the computer system or battery life test. 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. Disclaimer to be determined when battery testing is complete.

** Battery life of 7:45 as tested in the tablet with an additional 2 hours provided by the secondary battery in the keyboard when the unit is attached.

System Standby Time

Up to TBD weeks*

* Standby time will vary depending on various factors including battery, Memory, CPU, EC and LAN chip. The maximum capacity of the battery will naturally decrease with time and usage.

ENVIRONMENTAL

Low halogen*

RFID support

WEEE compliant (Waste Electric and Electronic Equipment)

RoHS 2 Compliant

MSH/OBL compliant

E-Standby compliant

DLNA certification

Anti-theft**

California Battery Charger Energy Efficiency compliant

Skype Acceptance Test

China CEL label

^{**} Intel AT security requires a separately purchased Absolute Computrace service subscription and must be activated and



^{*} External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

Features

configured. Check with Absolute for availability in your country. Intel and HP assume no liability for lost or stolen data and/or systems or any other damages resulting therefrom. See http://www.intel.com/technology/anti-theft/

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 (Total)

Starting at 4.39 lb (1.99 kg)

Weight (Slate)

Starting at 2.18 lb (0.99 kg)

Dimensions (Total) (w x d x h)

13.39 x 9.06 x 0.72 in

340 x 230 x 18 mm

Dimensions (Slate) (w x d x h)

13.39 x 8.54 x 0.27 in

340 x 217 x 6.9 mm

NOTE: Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components. Total weight includes batteries in tablet and base, solid state drive, and 4 or 8 GB memory.

PORTS/SLOTS

Ports - Slate

Headphone/Line-out (Beats Audio™ supported) and Mic-in (combo) - Voice recognition - One Docking Connector - One

Ports - Base

USB 3.0 - Two

HDMI v1.4a - One

Docking Connector (Power + USB) - One

Digital Media Slots (Tablet only)

1 Micro Secure Digital (SD) Media Reader (Push-Push Insertion/Removal) Support both SDHC and SDXC

SERVICE AND SUPPORT

HP Services offers a 1 year standard commercial warranty; 1 year limited warranty on primary battery. On-site service and optional* HP Care Pack Services** are available to extend your protection beyond the standard warranty. For more details visit: http://www.hp.com/go/cpc.



^{*}Sold separately or as an optional feature.

^{**} 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. Consult the HP Customer Support Center for details. http://www.hp.com/go/cpc.

Technical Specifications

SYSTEM UNIT

Stand-Alone Power Nominal Operating TBD V

Requirements (AC Power) Voltage

Average Operating Power Integrated graphics: TBD W

Discrete graphics: TBD W

Max Operating Power < 45 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®** TBD*

EPEAT Registered TBD in United States**

ICES Yes Australia / Yes

NZ A-Tick Compliance

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 Yes

(ICCP)

SABS Yes **UKRSERTCOMPUTER** Yes



Technical Specifications

- * Configurations of the HP Spectre 13 x2 Pro that are ENERGY STAR qualified are identified as HP Spectre 13 x2 Pro 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.

DISPLAY

13.3-inch LED HD (1366 x 768) **Dimensions** (W x H) 11.53 x 6.49 in (29.3 x 16.5 cm)

Diagonal Size 13.3 in (33.8 cm)
Contrast Ratio* 500:1 (typical)

Refresh Rate* 60 Hz

Brightness* 200 nit (typical)

 Pixel Resolution
 Pitch
 0.215 mm

 Format
 1366 x 768

Configuration RGB Stripe

Backlight LED PPI 118 ppi

Viewing Angle ±30° Horizontal, ±10° Vertical (minimum)

30/30/20/10 (Left/Right/Down/Up) (minimum) or 45/45/35/25 (Left/Right/Down/Up) (typical)

* All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or

lower

13.3-inch LED FHD (1900 x 1080)

Dimensions (W x H) 11.53 x 6.49 in (29.3 x 16.5 cm)

Diagonal Size 13.3 in (33.8 cm)
Contrast Ratio* 500:1 (typical)

Refresh Rate* 60 Hz

Brightness* 200 nit (typical)

 Pixel Resolution
 Pitch
 0.215 mm

 Format
 1900 x 1080

Configuration RGB Stripe

Backlight LED PPI 118 ppi



Technical Specifications

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)

* All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or

lower

STORAGE AND DRIVES

Internal Storage

128 GB* 2.5-inch mSATA Solid State Drive **Drive Weight** 75 Grams **Capacity** 128 GB

Height0.276 in (7 mm)Width2.76 in (70 mm)InterfaceSATA 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

*For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. Up

to 36GB of system disk is reserved for system recovery software.

SATA 6 Gb/s 256 GB*, mSATA Solid State Drive **Drive Weight** Up to 10 Grams

Capacity 256 GB

Height Up to 0.191 in (Up to 4.85 mm)

 Width
 1.18 in (29.85 mm)

 Interface
 SATA 3 (6 Gb/s)

Performance Maximum Sequential Read Maximum Sequential Write

Up to 490 MB/s Up to 250 MB/s

Logical Blocks 500,118,192

Operating Temperature 32° to 158°F (0° to 70°C) [case temp] **Features** ATA Security; ATA-8, SATA 3.0; DIPM; TRIM

*For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. Up

to 36GB of system disk is reserved for system recovery software.



Technical Specifications

NETWORKING/COMMUNICATIONS

HP 3110 HSPA+ Mobile Broadband Module* **Technology/Operating**

Bands

CDMA/1xRTT/EvDO: 800MHz (Cell), 1900MHz (PCS)

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)

LTE: 700 MHz (Verizon, Band XIII)

Mobile Operator

Wireless Protocol

Standards

GSM/GPRS/EDGE: Class B, Multi-slot class 10 operation, coding schemes CS1 -

CS4 and MSC1 - MSC9.

Verizon (US only)

CDMA: 1xEVDO Release 0 and Release A, IS-95A, IS-95B, IS-856, IS-2000

UMTS/WCDMA: Release 99 and Release 7 LTE: Power Class III as per 3GPP TS 36.101

Wireless Parametric

Standards

Complies with 3GPP specifications Release 8 for LTE

Maximum Data Rates EvDO (Revision A) - 3.1 Mbps (Download), 1.8 Mbps (Upload)

WCDMA (DC-HSPA+) - 42Mbps (Download)

LTE (Category 3) - 100 Mbps (Download), 50Mbps (Upload)

GPS Standalone, Assisted, XTRA
GPS Bands 1575.42 MHz (± 1.023 MHz)

Maximum Output Power GSM/GPRS/EDGE: 32dBm (+/-1)

WCDMA: 24dBm (+0.7/-2.3) LTE: +23 dBm (+2.7 dBm/-1.7 dBm)

1xRTT/EvD0: +24 dBm (+0.5 dBm/-1.5 dBm)

Maximum Power Consumption

2700mA (peak)

Power Consumption,

Sleep Mode

10 mA

Power Management USB selective suspend

Integrated notebook wireless button

Antenna Type Dual high efficiency 6 band antennae with spatial diversity, mounted in the

display enclosure

Form Factor PCI-Express MiniCard, USB 2.0 interface

Weight < 10 q

Dimensions (Length x Width x Thickness)

2.01 x 1.18 x 0.18 in (51 x 30 x 4.5 mm)

Voltage, Operating 3.3v +/- 9%

Temperature, Operating -4° to 149° F (-20° to 65° C)

Temperature, Non-40° to 185° F (-40° to 85° C)

operating, 96 hours (from MIL-STD 202 Method 108)

Humidity, Non-operating 85% relative humidity for 48 hours @ 185° F (85° C) (non-condensing)



Technical Specifications

LED Activity LED Off - Radio Off;

Solid LED On - Radio On

* Mobile Broadband is an optional feature sold separately or as an add-on feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors.

HP lt4112 LTE/HSPA+ Gobi 4G Module*

Technology/Operating

bands

LTE FDD all bands with diversity: 2100 MHz (Band I), 1900 MHz (Band II), 1800 MHz (Band III), 850 MHz (Band V), 2600 MHz (Band VII), 900 MHz (Band VIII),

800 MHz (Band XX, DD800)

WCDMA/HSDPA/HSUPA/HSPA+ all bands with diversity: 2100 MHz (Band I),

1900 MHz (Band II), 800 MHz (Band V), 900 MHz (Band VIII)

GSM/GPRS/EDGE: 1900 MHz (Band II), 1800 MHz (Band III), 850 MHz (Band V),

900 MHz (Band VIII)

Wireless protocol

standards

3GPP Release 8 LTE Specification

WCDMA R99, 3GPP Release 5, 6 and 7 UMTS Specification

Wireless parametric

standards

Complies with 3GPP specifications Release 8 for LTE

Maximum data rates LTE (Category 3): 100 Mbps (Download), 50Mbps (Upload)

> DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21.6 Mbps (Download), 5.76 Mbps (Upload) EDGE: 236.8 kbps (Download), 236.8 kbps (Upload) GPRS: 85.6 kbps(Download), 85.6 kbps (Upload)

GPS Standalone

GPS bands 1575.42 MHz (± 1.023 MHz), GLONASS 1596-1607MHz

Maximum output power LTE: +23 dBm (+/- 2 dBm)

> WCDMA: +23.5 dBm (+/- 1 dBm) GPRS Band II, III: +29.5 dBm (+/- 1 dBm) GPRS Band V, VIII: +32.5 dBm (+/- 1 dBm) EGPRS Band II, III: +26.5 dBM (+/-1.5 dBm) EGPRS Band V, VIII: +27.5 dBM (+/-1.5 dBm) LTE: 1,200 mA (peak); <900 mA (average)

Maximum power consumption

WCDMA: 1,100 mA (peak); <800 mA (average) EGPRS: 2,800 mA (peak); <700 mA (average)

Power consumption,

sleep mode

3 mA

Power management

USB selective suspend, Integrated notebook wireless button

Antenna type

Dual high efficiency multi-band antennae with spatial diversity

Form Factor M.2, USB 2.0 interface

Weight 6 g

Dimensions (Length x

42 mm × 30 mm × 2.3 mm

Width x Thickness)

Voltage, Operating

3.135 V to 4.4 V (3.3 V +1.1V/-0.165V)

Temperature, operating

14° to 131° F (-10° to 55° C)

(from TIA/EIA/IS-98-D)



Technical Specifications

Temperature, non--40° to 185° F (-40° to 85° C)

operating, 96 hours (from MIL-STD 202 Method 108)

Humidity, non-operating 95% relative humidity for 48 hours @ 185° F (85° C) (non-condensing)

LED Off - Radio Off; Solid LED On - Radio On **LED** activity

* 4G LTE not available on all products, in all regions. Mobile broadband use requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors.

Intel Dual Band Wireless- Wireless LAN Standards* N 7260AN 802.11 a/b/q/n (2x2) WiFi + Bluetooth 4.0 **Combo Adaptor**

IEEE 802.11a

IEEE 802.11b IEEE 802.11q IEEE 802.11n

Interoperability Wi-Fi certified

*Wireless access point and internet service required. Availability of public

wireless access points limited.

Cisco Compatible Extensions Program compliant with Microsoft Windows 7, Windows Vista and XP (details at: http://www.hp.com/go/notebooks/WLAN)

802.11b/g/n **Frequency Band** 2.402 - 2.482 GHz

> 802.11a/n 4.9 - 4.95 GHz (Japan)

> > 5.15 - 5.25 GHz 5.25 - 5.35 GHz 5.47 - 5.725 GHz 5.825 - 5.850 GHz

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: card will support rates for NSS=1 and NSS=2 for RX and TX for 20 and 40 MHz channels. Short and long guard interval shall be supported.

Modulation **Direct Sequence Spread Spectrum**

CCK, BPSK, QPSK, 16-QAM, 64-QAM

Security¹ IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode

only

AES-CCMP: 128 bit in hardware

802.1x authentication

WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.

WPA2 certification

IEEE 802.11i

Cisco Certified Extensions, all versions through CCX4 and CCX Lite

Sub-channels Multinational support with frequency bands and channels compliant to local

regulations.

Network Architecture Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required) Models

Technical Specifications

Roaming IEEE 802.11 compliant roaming between band Access Points

Output Power² • 2.4G: +13.5dBm minimum

• 5G: +12dBm minimum

Power Consumption Transmit: 2.0 Watts

Receive: 1.6 Watts

Idle mode³: 250 mW (WLAN Associated) Idle mode: 100 mW (WLAN unassociated)

Radio off: 75 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

Receiver Sensitivity⁴ 802.11g:-90 dBm (6 Mbps), -89 dBm (9 Mbps), -87 dBm (12 Mbps), -85 dBm

(18 Mbps), -82 dBm (24 Mbps), -79 dBm (36 Mbps), -76 dBm (48 Mbps), -74

dBm (54 Mbps)

802.11b:-95 dBm (1 Mbps), -93 dBm (2 Mbps), -91 dBm (5.5 Mbps), -88 dBm

(11 Mbps)

802.11g:-90 dBm (6 Mbps), -89 dBm (9 Mbps), -87 dBm (12 Mbps), -85 dBm (18 Mbps), -82 dBm (24 Mbps), -79 dBm (36 Mbps), -76 dBm (48 Mbps), -74

dBm (54 Mbps)

802.11n:-69 dBm (150 Mbps), -66 dBm (300 Mbps)

Antenna Connections 2 U.FL type connectors (output impedance of 50 ± 2 ohms)

Form Factor PCI-Express Half-MiniCard

Dimensions 0.12 x 1.06 x 1.18 in (3.1 x 26.8 x 30.0 mm)

Weight 3.1q

Operating Voltage 3.3v +/- 9%

Operating 14° to 158° F (-10° to 70° C) **Temperature**

-40° to 176° F (-40° to 80° C) Non-operating

Humidity 10% to 90% (non-condensing) Operating

> 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.

- 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.

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)

2402 to 2480 MHz Frequency Band



Technical Specifications

Number of Available

Channels

79 (1 MHz) available channels

Data Rates and

3 Mbps data rate; throughput up to 2.17 Mbps

Throughput 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 to 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 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

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



Technical Specifications

AC 7260 802.11 ac (2x2)
WiFi + BT 4.0 combo
Adapter

Intel Dual Band Wireless- Wireless LAN Standards* IEEE 802.11a

IEEE 802.11b IEEE 802.11g IEEE 802.11n

IEEE 802.11ac**

Interoperability Wi-Fi certified

*Wireless access point and internet service required. Availability of public

wireless access points limited.

**The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN

devices.

Frequency Band 802.11b/g/n

• 2.402 - 2.482 GHz

802.11a/n

4.9 - 4.95 GHz (Japan)

• 5.15 - 5.25 GHz

• 5.25 - 5.35 GHz

• 5.47 - 5.725 GHz

• 5.825 - 5.850 GHz

• 2.402 - 2.482 GHz

Data Rates ● 802.11b: 1, 2, 5.5, 11 Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)

802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, and 80MHz)

Modulation Direct Sequence Spread Spectrum

BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM

Security¹

• IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode

only

• AES-CCMP: 128 bit in hardware

802.1x authentication

• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.

WPA2 certification

• IEEE 802.11i

Cisco Certified Extensions, all versions through CCX4 and CCX Lite

WAPI

Network Architecture

Models

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points



Technical Specifications

Output Power² • 2.4G: +13.5dBm minimum

• 5G: +12dBm minimum

 Maximum output power must be able to achieve modular regulatory certification with notebooks that have antennas >20cm from the user

and peak gain of +3dBi at 2.4GHz and +4dBi at 5GHz

Power Consumption Transmit: 2.0 W (max)

Receive: 1.6 W (max)

Idle mode (PSP): 250 mW (WLAN Associated) Idle mode: 100 mW (WLAN unassociated)

Radio disabled: 75 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

Receiver Sensitivity³ 802.11b:-95 dBm (1 Mbps), -93 dBm (2 Mbps), -91 dBm (5.5 Mbps), -88 dBm

(11 Mbps)

802.11a/g:-90 dBm (6 Mbps), -89 dBm (9 Mbps), -87 dBm (12 Mbps), -85 dBm (18 Mbps), -82 dBm (24 Mbps), -79 dBm (36 Mbps), -76 dBm (48 Mbps), -74

dBm (54 Mbps)

802.11n:-69 dBm (72.2 Mbps), -66 dBm (300 Mbps)

Antenna type High efficiency antenna with spatial diversity, mounted in the display

enclosure

Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications

Form Factor PCI-Express Half-MiniCard

Dimensions 0.19 x 1.06 x 1.18 in (4.75 x 26.8 x 30 mm)

Weight 3.1g

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

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).

Bluetooth Specification

V4.0 High Speed, V2.1+EDR, backwards compatible with V1.1, 1.2 and 2.0

Number of Available

79 (1 MHz) available channels

Channels



Technical Specifications

Data Rates and Throughput 3 Mbps data rate; throughput up to 2.17 Mbps

Synchronous Connection Oriented links up to 3, 64 kbps, voice channels

Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric or

1306.9 kbps symmetric

Transmit Power -6 dBm to 4 dBm (Bluetooth Class II)

Receiver Sensitivity Better than -80 dBM at 0.1 % raw bit error rate

Power Consumption Peak (Tx) 330 mW

Peak (Rx) 230 mW Sleep <17 mW

Antenna Internally integrated within module

Range Up to 33 ft (10 m)

Electrical Interface USB 2.0 compliant

Microsoft Windows Plug and Play compliant

Bluetooth Software

Power Management

Supported

Broadcom Bluetooth for Windows
Microsoft Windows Bluetooth Software

Link TopologyPoint to Point, Multipoint Pico Nets up to 7 slavesSecurityFull support of Bluetooth Security Provisions

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

Bluetooth Profiles Supported

Generic Access Profile (GAP)

Service Discovery Application Profile (SDAP)

Serial Port Profile (SPP)

Dial_Up Networking Profile (DUN)
Generic Object Exchange Profile (GOEP)

Object Push Profile (OPP)
File Transfer Profile (FTP)
Synchronization Profile (SYNC)
Hard Copy Cable Replacement (HCRP)
Personal Area Networking Profile (PAN)
Human Interface Device Profile (HID)

Generic Audio/Video Distribution Profile (GAVDP) Advanced Audio/Video Distribution Profile (A2DP)

FAX Profile (FAX)

Basic Imaging Profile (BIP) Headset Profile (HSP) Hands Free Profile (HFP) Basic Printing Profile (BPP) VDP (Video Distribution Profile)

AVRCP (Audio Video Remote Control Profile)



Technical Specifications

N 7260BN 802.11 a/b/q/ WiFi + BT 4.0 combo Adapter

Intel Dual Band Wireless- Wireless LAN Standards* IEEE 802.11b

IEEE 802.11g IEEE 802.11n

Interoperability Wi-Fi certified

*Wireless access point and internet service required. Availability of public

wireless access points limited.

Cisco Compatible Extensions Program compliant with Microsoft Windows 7, Windows Vista and XP (details at: http://www.hp.com/go/notebooks/WLAN)

Frequency Band 802.11b/g/n 2.402 - 2.482 GHz

Antenna Structure 2 transmit; 2 receive (2x2) **Data Rates** 802.11b: 1, 2, 5.5, 11 Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11n: card will support rates for NSS=1 and NSS=2 for RX and TX for 20 and 40 MHz channels. Short and long guard interval shall be supported.

Modulation **Direct Sequence Spread Spectrum**

CCK, BPSK, QPSK, 16-QAM, 64-QAM

Security¹ • IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode

only

AES-CCMP: 128 bit in hardware

802.1x authentication

WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.

 WPA2 certification IEEE 802.11i

Cisco Certified Extensions, all versions through CCX4 and CCX Lite

WAPI

Sub-channels Multinational support with frequency bands and channels compliant to local

regulations.

Network Architecture

Models

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between band Access Points

Output Power²

Receiver Sensitivity⁴

2.4G: +13.5dBm minimum

Power Consumption Transmit: 2.0 Watts

Receive: 1.6 Watts

Idle mode³: 250 mW (WLAN Associated) Idle mode: 100 mW (WLAN unassociated)

Radio off: 75 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

802.11g:-90 dBm (6 Mbps), -89 dBm (9 Mbps), -87 dBm (12 Mbps), -85 dBm (18 Mbps), -82 dBm (24 Mbps), -79 dBm (36 Mbps), -76 dBm (48 Mbps), -74

dBm (54 Mbps)

802.11b:-95 dBm (1 Mbps), -93 dBm (2 Mbps), -91 dBm (5.5 Mbps), -88 dBm

(11 Mbps)



Technical Specifications

802.11n:-69 dBm (150 Mbps), -66 dBm (300 Mbps)

Antenna Connections 2 U.FL type connectors (output impedance of 50 ± 2 ohms)

Form Factor PCI-Express Half-MiniCard

Dimensions 0.12 x 1.06 x 1.18 in (3.1 x 26.8 x 30.0 mm)

Weight 3.1q

Operating Voltage 3.3v +/- 9%

Temperature Operating 14° to 158° F (-10° to 70° C)

-40° to 176° F (-40° to 80° C) Non-operating

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 Amber - 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.

Bluetooth Specification

V4.0 High Speed, V2.1+EDR, backwards compatible with V1.1, 1.2 and 2.0

Number of Available

Channels

79 (1 MHz) available channels

Data Rates and

3 Mbps data rate; throughput up to 2.17 Mbps

Throughput

Synchronous Connection Oriented links up to 3, 64 kbps, voice channels

Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric or

1306.9 kbps symmetric

Transmit Power -6 dBm to 4 dBm (Bluetooth Class II)

Receiver Sensitivity Better than -80 dBM at 0.1 % raw bit error rate

Power Consumption Peak (Tx) 330 mW

Peak (Rx) 230 mW Sleep <17 mW

Antenna Internally integrated within module

Range Up to 33 ft (10 m) **Electrical Interface** USB 2.0 compliant

Microsoft Windows Plug and Play compliant

Bluetooth Software

Broadcom Bluetooth for Windows Supported Microsoft Windows Bluetooth Software

Link Topology Point to Point, Multipoint Pico Nets up to 7 slaves



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

Bluetooth Profiles

Supported

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Service Discovery Application Profile (SDAP)

Serial Port Profile (SPP)
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Object Push Profile (OPP)
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Hard Copy Cable Replacement (HCRP)
Personal Area Networking Profile (PAN)

Human Interface Device Profile (HID)
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Advanced Audio/Video Distribution Profile (GAVDP)

Advanced Audio/Video Distribution Profile (A2DP)

FAX Profile (FAX)

Basic Imaging Profile (BIP) Headset Profile (HSP) Hands Free Profile (HFP) Basic Printing Profile (BPP) VDP (Video Distribution Profile)

AVRCP (Audio Video Remote Control Profile)

AUDIO/MULTIMEDIA

Audio

Hardware Implementation IDT92HD99 High Definition CODEC

Function Key Volume

Controls

Volume up, volume down, and mute

Full DuplexYesMicrophone InStereoHeadphone/Line OutStereo

Integrated Microphone Yes, dual digital microphone array



^{*} Wireless access point and internet service required. Availability of public wireless access points limited.

Technical Specifications

Audio Output Quality Frequency Response 20 Hz - 20 kHz

Signal to Noise Ratio >85 dB

Total Harmonic Distortion 0.01%

Noise Floor -110 dB

Play/Record Sampling 8 kHz - 48kHz

Rate(s)

DAC 16, 20 or 24-bit **ADC** 16 or 20-bit

Internal Stereo Speaker Power Rating 2 Watts

Impedance 4 ohms

POWER

HP 45W Smart AC Adapter Dimensions 3.78 x 1.95 x 0.88 in (9.6 x 4.95 x 2.24 cm)

Input 90 to 265 VAC

Input Efficiency 87% min at 115 VAC

Input frequency range 47 to 63 Hz

Input AC current 1.4 A at 90 VAC and maximum load

Output Output power 45W

DC output 19.5V

Hold-up time 5 msec at 115 VAC input

Output current limit <8A, Over voltage protection- 29V max automatic

shutdown

Connector 3 pin/grounded, mates with interchangeable cords

Environmental Design Operating 32° to 95° F (0° to 35° C)

temperature

Non-operating (storage) -4° to 121° F (-20° to 85° C)

temperature

Altitude 0 to 16,405 ft (0 to 5,000 m)

Humidity 0% to 95%
Storage Humidity 0% to 95%

Storage Humidity 0% to 95%

EMI and Safety 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; Reliability - failure rate of less than 0.1% annually within

the first three years of operation.



Technical Specifications

HP 2-cell Polymer Battery Dimensions (h x w x l)

(18 WHr)

294.0 x 130.8 x 3.43 (not including WTB connector)

294.0 x 148.30 x 3.43 (including WTB connector)

Weight (max) < 185 q

Cells/Type 2-cell Polymer

TBD Energy Voltage

> **TBD Amp-hour capacity**

18 WHr **Watt-hour capacity**

Operating (Charging) **Temperature** 32° to 113° F (0° to 45° C)

> Operating (Discharging) 14° to 140° F (-10° to 60° C)

> -4° to 140° F (-20° to 60° C) **Non-operating**

Battery

Re-Charge Time Mode

System in OFF or Standby TBD hours

TBD hours (depending on system power System ON

consumption)

Fuel Gauge LED TBD Warranty 1 year

HP 3-cell Polymer Battery Dimensions (h x w x l)

(33 WHr)

268.0 x 119.0 x 4.25 mm (not including screw holes)

284.2 x 134.9 x 4.25 mm (including screw holes)

Weight (max) < 190 g

Cells/Type 3-cell Polymer

TBD Energy Voltage

> **Amp-hour capacity TBD**

Watt-hour capacity 33 WHr

Temperature Operating (Charging) 32° to 113° F (0° to 45° C)

> 14° to 140° F (-10° to 60° C) Operating (Discharging)

> Non-operating -4° to 140° F (-20° to 60° C)

System in OFF or Standby TBD hours **Battery**

Mode Re-Charge Time

> System ON TBD hours (depending on system power

> > consumption)

Fuel Gauge LED TBD Warranty 1 year

ENVIRONMENTAL

TBD

COUNTRY OF ORIGIN

TBD



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

Туре	Description	Part #
Cases	HP Business Slim Top Load (up to 14.1" x .75" thick)	H5M91AA
Docking	HP USB 2.0 Port Replicator	H1L07AA#xxx
	HP USB 3.0 Port Replicator	H1L08AA#xxx
Input/Output	HP Stylish Wireless KB/Mouse	H4B79AA
	HP USB Ethernet Adapter	XZ613AA#ABA
	HDMI to VGA Adapter	H2L54AA#xxx
Power	HP 45W Smart AC Adapter 4.5mm	H6Y88AA#xxx
Storage - External Storage	HP External USB Optical Drive	F2B56AA

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