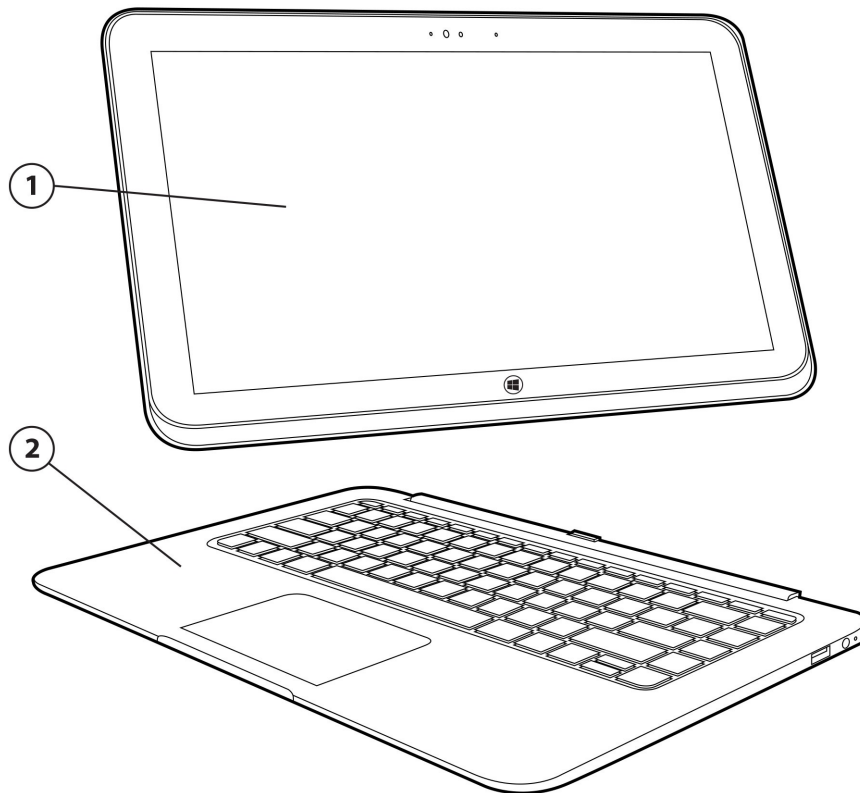


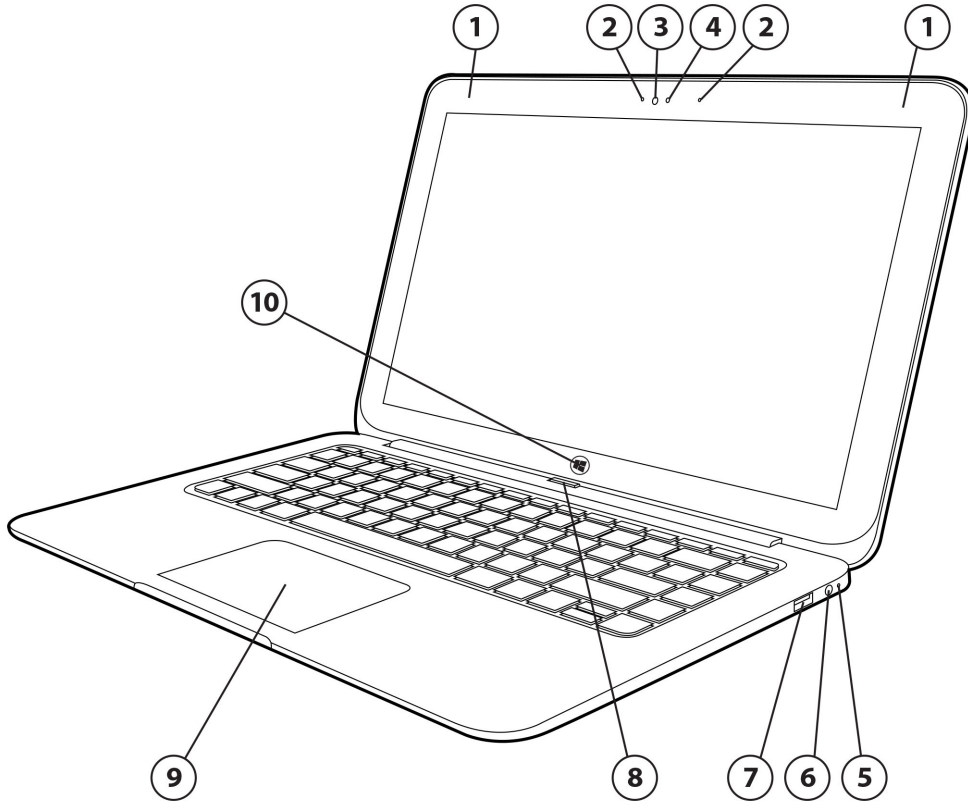
Overview



Separate Tablet and Base

1. 13.3" Slate Tablet
2. Base

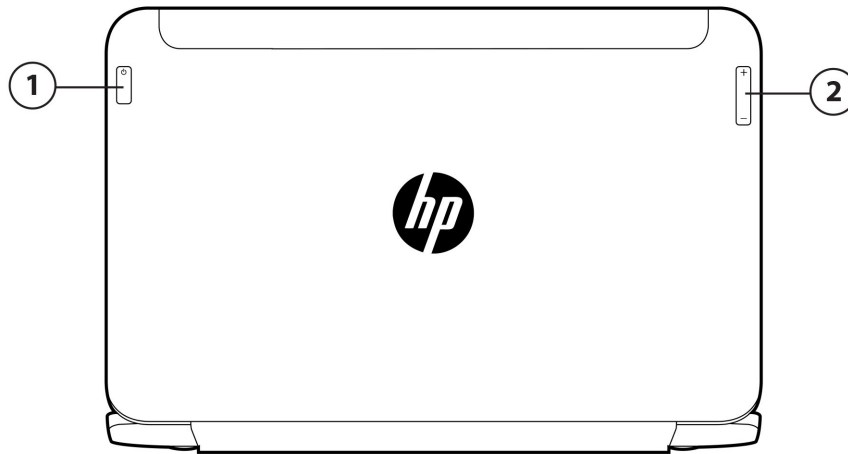
Overview



Integrated Tablet and Base, Right Front View

- | | |
|-----------------------------|--------------------------------------|
| 1. WLAN antennas (2) | 6. Power connector |
| 2. Internal microphones (2) | 7. Power connector |
| 3. Webcam | 8. Button to detach tablet from base |
| 4. Webcam light | 9. Clickpad |
| 5. AC Adapter/battery light | 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 multi-touch 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

- 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*
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* 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 4096 MB memory*

*While your notebook may show 4GB available, up to 1GB 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*,***

* 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)

Base

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

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

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

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 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 Requirements (AC Power)	Nominal Operating Voltage	TBD V
	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 / 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
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) <i>* All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower</i>
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STORAGE AND DRIVES

Internal Storage

128 GB* 2.5-inch mSATA 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
		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	<p>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)</p>
	Mobile Operator	Verizon (US only)
	Wireless Protocol Standards	<p>GSM/GPRS/EDGE: Class B, Multi-slot class 10 operation, coding schemes CS1 - CS4 and MSC1 - MSC9. 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</p>
	Wireless Parametric Standards	Complies with 3GPP specifications Release 8 for LTE
	Maximum Data Rates	<p>EvDO (Revision A) - 3.1 Mbps (Download), 1.8 Mbps (Upload) WCDMA (DC-HSPA+) - 42Mbps (Download) LTE (Category 3) - 100 Mbps (Download), 50Mbps (Upload)</p>
	GPS	Standalone, Assisted, XTRA
	GPS Bands	1575.42 MHz (± 1.023 MHz)
	Maximum Output Power	<p>GSM/GPRS/EDGE: 32dBm (+/-1) WCDMA: 24dBm (+0.7/-2.3) LTE: +23 dBm (+2.7 dBm/-1.7 dBm) 1xRTT/EvDO: +24 dBm (+0.5 dBm/-1.5 dBm)</p>
	Maximum Power Consumption	2700mA (peak)
	Power Consumption, Sleep Mode	10 mA
	Power Management	<p>USB selective suspend Integrated notebook wireless button</p>
	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 g
	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-operating, 96 hours (from MIL-STD 202 Method 108)	-40° to 185° F (-40° to 85° C)
	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 It4112 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 (\pm 1.023 MHz), GLONASS 1596-1607MHz
	Maximum output power	LTE: +23 dBm (\pm - 2 dBm) WCDMA: +23.5 dBm (\pm - 1 dBm) GPRS Band II, III: +29.5 dBm (\pm - 1 dBm) GPRS Band V, VIII: +32.5 dBm (\pm - 1 dBm) EGPRS Band II, III: +26.5 dBm (\pm -1.5 dBm) EGPRS Band V, VIII: +27.5 dBm (\pm -1.5 dBm)
	Maximum power consumption	LTE: 1,200 mA (peak); <900 mA (average) 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 Width x Thickness)	42 mm x 30 mm x 2.3 mm
	Voltage, Operating	3.135 V to 4.4 V (3.3 V +1.1V/-0.165V)
	Temperature, operating (from TIA/EIA/IS-98-D)	14° to 131° F (-10° to 55° C)

Technical Specifications

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

* 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-N 7260AN 802.11 a/b/g/n (2x2) WiFi + Bluetooth 4.0 Combo Adaptor	Wireless LAN Standards*	IEEE 802.11a 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.
	Frequency Band	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 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	<ul style="list-style-type: none"> • 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)

Technical Specifications

Roaming	IEEE 802.11 compliant roaming between band Access Points	
Output Power²	<ul style="list-style-type: none"> • 2.4G: +13.5dBm minimum • 5G: +12dBm minimum 	
Power Consumption	Transmit: 2.0 Watts Receive: 1.6 Watts Idle mode ³ : 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	3.1g	
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	
	<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. 	
	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	

Technical Specifications

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 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

Intel Dual Band Wireless-AC 7260 802.11 ac (2x2) WiFi + BT 4.0 combo Adapter	Wireless LAN Standards*	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac**
	Interoperability	Wi-Fi certified <i>*Wireless access point and internet service required. Availability of public wireless access points limited.</i> <i>**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.</i>
	Frequency Band	802.11b/g/n <ul style="list-style-type: none">● 2.402 - 2.482 GHz 802.11a/n <ul style="list-style-type: none">● 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	<ul style="list-style-type: none">● 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	<ul style="list-style-type: none">● 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	<ul style="list-style-type: none">● 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 Channels 79 (1 MHz) available 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 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	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

Intel Dual Band Wireless-N 7260BN 802.11 a/b/g/WiFi + BT 4.0 combo Adapter	Wireless LAN Standards*	IEEE 802.11b IEEE 802.11g IEEE 802.11n
	Interoperability	Wi-Fi certified
		<i>*Wireless access point and internet service required. Availability of public wireless access points limited.</i>
		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	<ul style="list-style-type: none"> ● 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	<ul style="list-style-type: none"> ● 2.4G: +13.5dBm minimum
	Power Consumption	Transmit: 2.0 Watts Receive: 1.6 Watts Idle mode ³ : 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)

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	3.1g
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 Amber - 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.
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 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 Supported	Broadcom Bluetooth for Windows
	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	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)

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

AUDIO/MULTIMEDIA

Audio

Hardware	Implementation	IDT92HD99 High Definition CODEC
	Function Key Volume Controls	Volume up, volume down, and mute
	Full Duplex	Yes
	Microphone In	Stereo
	Headphone/Line Out	Stereo
	Integrated Microphone	Yes, dual digital microphone array

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 Rate(s)	8 kHz - 48kHz
	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	Input	90 to 265 VAC	
		Input Efficiency	87% min at 115 VAC	
		Input frequency range	47 to 63 Hz	
	Output	Input AC current	1.4 A at 90 VAC and maximum load	
		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 temperature	32° to 95° F (0° to 35° C)	
		Non-operating (storage) temperature	-4° to 121° F (-20° to 85° C)	
		Altitude	0 to 16,405 ft (0 to 5,000 m)	
		Humidity	0% to 95%	
		Storage Humidity	0% to 95%	
EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives; Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE; Reliability - failure rate of less than 0.1% annually within the first three years of operation.			

Technical Specifications

HP 2-cell Polymer Battery (18 WHr)	Dimensions (h x w x l)	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 g
	Cells/Type	2-cell Polymer
	Energy	Voltage TBD
		Amp-hour capacity TBD
		Watt-hour capacity 18 WHr
	Temperature	Operating (Charging) 32° to 113° F (0° to 45° C)
		Operating (Discharging) 14° to 140° F (-10° to 60° C)
		Non-operating -4° to 140° F (-20° to 60° C)
	Battery Re-Charge Time	System in OFF or Standby Mode TBD hours
		System ON TBD hours (depending on system power consumption)
	Fuel Gauge LED	TBD
	Warranty	1 year

HP 3-cell Polymer Battery (33 WHr)	Dimensions (h x w x l)	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
	Energy	Voltage TBD
		Amp-hour capacity TBD
		Watt-hour capacity 33 WHr
	Temperature	Operating (Charging) 32° to 113° F (0° to 45° C)
		Operating (Discharging) 14° to 140° F (-10° to 60° C)
		Non-operating -4° to 140° F (-20° to 60° C)
	Battery Re-Charge Time	System in OFF or Standby Mode TBD hours
		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)

Type	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	H6V88AA#xxx
Storage - External Storage	HP External USB Optical Drive	F2B56AA

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