Features
HP EliteBook x360 1030 G2 PC
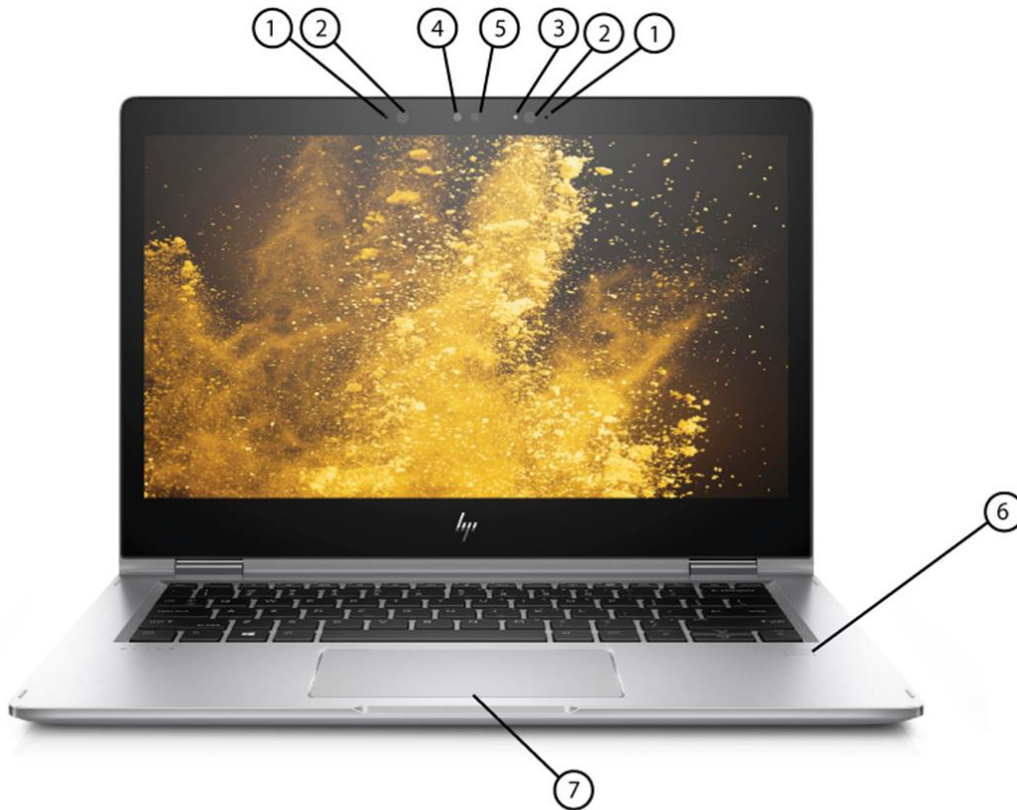
Front

1. Internal microphones (2)
2. IR emitters(2)
3. Webcam LED
4. Webcam
5. IR camera
6. Touch Fingerprint sensor
7. Glass Clickpad

Not all configuration components are available in all regions/countries.
Americas – HP EliteBook X360 1030 G2 PC – Aug 23, 2018- c05351903

Page 1

QuickSpecs
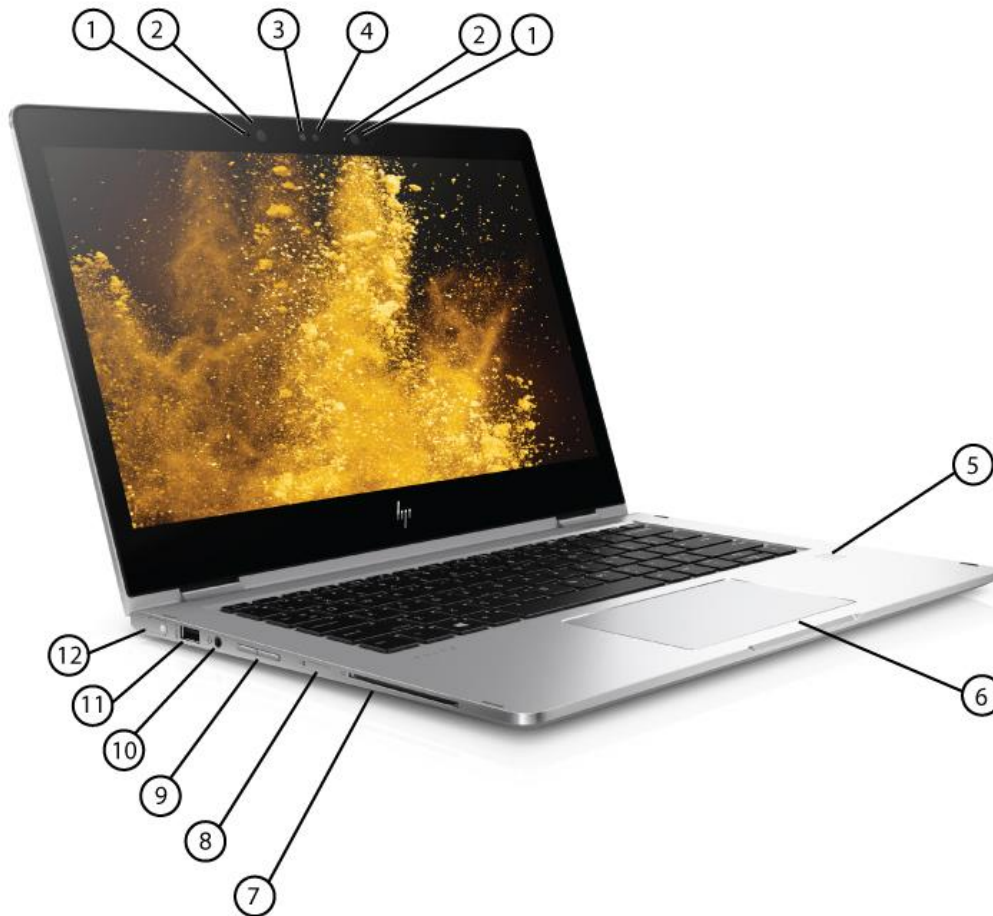
Features

Right
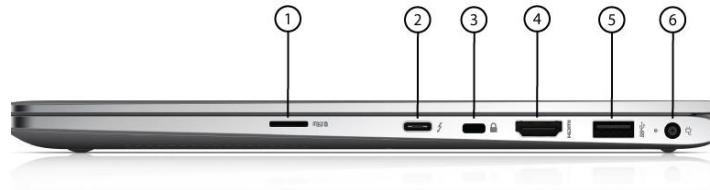
1. Internal microphones (2)
2. IR emitters(2)
3. Webcam
4. IR camera
5. Touch Fingerprint sensor
6. Glass Clickpad

7. Smart card reader
8. WWAN SIM
9. Volume up/ down
10. Audio combo jack
11. USB 3.1 Gen 1 (charging)
12. Power button

Not all configuration components are available in all regions/countries.
Americas – HP EliteBook X360 1030 G2 PC – Aug 23, 2018- c05351903

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QuickSpecs

Features

1. Micro SD slot
2. USB Type-C™ with Thunderbolt™
3. Security lock slot

Left

4. HDMI port
5. USB 3.1 Gen 1
6. Power connector

Conferencing Keyboard

Not all configuration components are available in all regions/countries.
Americas – HP EliteBook X360 1030 G2 PC – Aug 23, 2018- c05351903

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Features

Tent to play
Your favorite games
and apps at your
fingertips

Laptop to work
Get your work on,
be productive

Conference to collaborate
Bring life to meetings

Stand (media) to watch
Perfect for movies and Skype8
video chats

Tablet to go
Ultra- slim and lighy, so it´s easy to
stay connected on-the-go

Not all configuration components are available in all regions/countries.
Americas – HP EliteBook X360 1030 G2 PC – Aug 23, 2018- c05351903

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QuickSpecs

Features
At A Glance

- Pre-installed with Windows 10 editions
- All metal CNC Al chassis that is .59 inches (1.49 cm) thin
- Pending MIL STD 810G tests [1]
- Powered by 7th Generation Intel® Core™ processors
- Choice of SSD storage drives up to 1 TB, including PCIe NVMe
- Weight starting at 2.82 lbs (1.28 kg)
- Connect without dongles using full size ports including USB, USB-C™, and HDMI 1.4 for connecting to high-resolution displays
- Large ClickPad with gestures support
- Never forget your password with your choice of simple authentication methods, including the IR camera for face recognition and Touch Fingerprint Sensor for Windows Hello (requires Windows 10), as well as the integrated Smart Card Reader
- Optional full size HP Active Pen with App Launch, designed with Wacom technology
- HP 720p HD webcam, dual array microphones, and integrated premium stereo speakers for video audio and conferencing
- Engage teams, clients, and vendors with the crystal-clear audio by Bang & Olufsen and the high-performance HP Premium Collaboration Keyboard

1. MIL STD 810G testing is pending and is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Damage under the MIL STD test conditions or any accidental damage requires an optional HP Accidental Damage Protection Care Pack.

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

Not all configuration components are available in all regions/countries.
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QuickSpecs

Features

PRODUCT NAME

HP EliteBook x360 1030 G2 PC

OPERATING SYSTEM

Preinstalled
Windows 10 Pro 64[1]
Windows 10 Pro 64 (National Academic only)[2]
Windows 10 Home 64[1]
Windows 10 Home Single Language 64[1]

Web supported
Windows 10 Enterprise 64[1]

NOTE: In accordance with Microsoft's support policy, HP does not support the Windows® 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows® 8 or Windows 7 drivers on http://www.support.hp.com

1. Not all features are available in all editions or versions of Windows of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com/.

2. Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see https://aka.ms/ProEducation for Windows 10 Pro Education feature information.

PROCESSORS

Intel® Core™ i5-7200U with Intel HD Graphics 620 (2.5 GHz, up to 3.1 GHz with Intel Turbo Boost Technology, 3 MB cache, 2 cores)
Intel® Core™ i5-7300U with Intel HD Graphics 620 (2.6 GHz, up to 3.5 GHz with Intel Turbo Boost Technology, 3 MB cache, 2 cores)
Intel® Core™ i7-7600U with Intel HD Graphics 620 (2.8 GHz, up to 3.9 GHz with Intel Turbo Boost Technology, 4 MB cache, 2 cores)

NOTE: In accordance with Microsoft's support policy, HP does not support the Windows® 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows® 8 or Windows 7 drivers on http://www.support.hp.com

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

1. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering is not a measurement of higher performance. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering is not a measurement of higher performance.

QuickSpecs

Features

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated
Intel® HD[1] Graphics 620 with shared video memory

1. HD content required to view HD images.

DISPLAY

Internal
33.8 cm (13.3") diagonal FHD UWVA ultra slim touch screen (1920 x 1080) with Corning® Gorilla® Glass[1]
33.8 cm (13.3") diagonal UHD UWVA ultra slim touch screen (3840 x 2160) with Corning® Gorilla® Glass[1,3]

HP Sure View Integrated Privacy Screen
33.8 cm (13.3") diagonal FHD UWVA ultra slim eDP touch screen (1920 x 1080) with Corning® Gorilla® Glass[1,4]

External
TBD

HDMI
Port support resolutions up to 4096 x 2304 external resolution @ 60Hz

Displays support
Supports dual display through the dock
Supports 3 independent displays if used with optional HP Elite Thunderbolt 3 dock[2]
Supports 2 4k independent displays if used with optional HP Elite Thunderbolt 3 dock[2]

1. HD content required to view HD images.
2. HDMI cable sold separately.
3. Planned to be available in March 2017.
4. Planned to be available in April 2017.

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

Optional Docking Solutions[1]
HP Elite Thunderbolt 3 Dock
HP Executive Travel Hub

1. Sold separately or as an optional feature.

Not all configuration components are available in all regions/countries.
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QuickSpecs

Features
STORAGE AND DRIVES

Primary Storage[1]
1TB PCIe Gen3x4 NVMe Solid State TLC
Supports M.2 SS/DS 2280 Solid State Drive
128 GB SATA-3 Value Solid State Drive
256 GB SATA-3 Solid State Drive TLC (Opal2)
360 GB Solid State Drive PCIe NVMe (Planned to be available March 2017)
512 GB SATA-3 Solid State Drive TLC (FIPS) (Planned to be available March 2017)
256 GB PCIe Gen3x4 NVMe Solid State Drive TLC
512 GB PCIe Gen3x4 NVMe Solid State Drive TLC

1. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 MB (for Windows 10) is reserved for system recovery software.

MEMORY

Standard
Memory soldered down
DDR4 – 2133 (Transfer rates up to 2133 MT/s)
Supports Dual Channel Memory
On board (Customer non-accessible)

Configurations
4 GB (i5 only)
8 GB
16 GB

Maximum
16 GB DDR4-2133 SDRAM

NETWORKING/COMMUNICATIONS

Broadband Wireless (WWAN)[1,2,3]
HP lt4132 LTE/HSPA+ 4G Mobile Broadband Module
HP hs3210 HSPA Mobile Broadband
HP lt4120 Qualcomm® Snapdragon™ X5 LTE Mobile Broadband Module

Wireless LAN (WLAN) [1,2]
Intel® Dual Band 802. 11a/b/g/n/ac (2x2) and Bluetooth® 4.2 Combo (non-vPro)
Intel® Dual Band 802. 11a/b/g/n/ac (2x2) and Bluetooth® 4.2 Combo (vPro)

WPAN
Bluetooth® 4.2 supported via Combo card

Communications
Optional Near Field Communication (NFC)[2]
Compatible with Miracast-certified devices[4]

Features

1. Wireless access point and Internet service required and sold separately. 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.
2. Sold separately or as an optional feature.
3. Mobile Broadband requires separately purchased service contract and factory configuration. 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 on all products, and in all regions. Not available in the US or Canada.
4. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming media players that also support Miracast. You can use Miracast to share what you're doing on your PC and present a slide show. For more information: http://windows.microsoft.com/en-us/windows-8/project-wireless-screen-miracast

AUDIO/MULTIMEDIA

Audio
Audio by Bang & Olufsen
Four integrated premium stereo speakers
Dual microphone array

Camera
IR/RGB camera (standard on all models)
720p HD webcam[1,2]

1. Internet /network access required to collaborate.
2. HD content required to view HD images.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard
Full size
HP Premium Collaboration Keyboard
Backlit
DuraKeys
Spill-resistant

Function Keys
F1 - Blank
F2 - Brightness Down
F3 - Brightness Up
F4 - Display Switch
F5 - Speaker Mute
F6 - Volume Down
F7 - Volume Up
F8 - Mic Mute
F9 - Kybd Backlight
F10 - NumLock
F11 - Wireless

Not all configuration components are available in all regions/countries.
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Features

F12 – Calendar
>
> Present/Share
> Call Answer
> Call End
 > Delete

ClickPad
ClickPad (Glass Cover)
Taps enabled as default
Gestures enabled by default

SOFTWARE AND SECURITY

Preinstalled Software
HP BIOSphere[1]
HP Sure Start Gen3[10]
HP DriveLock | HP Automatic DriveLock
BIOS Update via Network
Master Boot Record Security
Power On Authentication
Secure Erase[2]
Pre-boot Authentication

Communication
HP Mobile Connect Pro[3]
Native Miracast Support[4]

HP Value Add Software
HP ePrint Driver +JetAdvantage[5]
HP Hotkey Support
HP Support Assistant
HP Jumpstart
HP Noise Cancellation Software

Manageability
HP Driver Packs[6]
HP SoftPaq Download Manager (SDM)
HP System Software Manager (SSM)[6]
HP BIOS Config Utility (BCU)[6]
HP Client Catalog[6]
HP Manageability Integration Kit for Microsoft SCCM[6]
HP Image Assistant[6]
LANDESK Management[7]
For more information on HP Client Management Solutions refer to: http://www.hp.com/go/clientmanagement.

Microsoft Products
Buy Office

Not all configuration components are available in all regions/countries.
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Features

Bing Search
Skype[8]

Security
HP Client Security
- HP Security Manager (including Credential Manager and Password Manager)
- HP Drive Lock
- HP Touch Fingerprint Sensor
- HP Password Manager
- Absolute Persistence Module[9]
- Power On Authentication
Microsoft Defender
TPM 1.2/2.0
Security lock slot[11]
Smart Card Reader
Supports IR "Hello" facial recognition via Windows 10

1. Available only on business PCs with HP BIOS.
2. For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.
3. HP Mobile Connect is only available on preconfigured devices with WWAN. For geographic availability refer to www.hp.com/go/mobileconnect
4. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming media players that also support Miracast. You can use Miracast to share what you're doing on your PC and present a slide show. For more information: http://windows.microsoft.com/en-us/windows-8/project-wireless-screen-miracast
5. 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.
6. Not preinstalled, however available for download at http://www.hp.com/go/clientmanagement
7. Subscription required.
8. Skype is not offered in China.
9. Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: https://www.absolute.com/en/about/legal/agreements/absolute. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
10. Available on HP EliteBook products equipped with Intel® 7th generation processors
11. Cable not included.

POWER

Power Supply[1]
HP 65W Smart AC adapter
HP 65W EM Smart AC adapter
HP 65W Smart USB Type-C™ AC adapter

1. Availability may vary by country.

Primary Battery

Not all configuration components are available in all regions/countries.
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QuickSpecs

Features

HP Long Life 3 cell, 57 Wh Li-on polymer
Supports battery fast charge

NOTE: Battery is internal and not replaceable by customer.

Power Cord
TBD

Battery life[1]
Up to 16 hours 30 minutes (FHD)
Up to 9 hours 30 minutes (UHD)

1. Windows 10 MM14 battery life will vary depending on various factors including 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 www.bapco.com for additional details

System Standby Time
250 hours

WEIGHTS & DIMENSIONS

Weight[1]
Weight starting at 2.82 lbs (1.28 kg)

1. Weight varies by configuration and components.

Dimensions (w x d x h)
31.69 x 21.85 x 1.49 cm
12.48 x 8.6 x .59 in

PORTS/SLOTS

Ports

1 USB Type-C™ with Thunderbolt™
2 USB 3.1 Gen 1 (1 charging)
1 HDMI 1.4
1 external micro SIM
1 AC power
1 Headphone/microphone combo jack

Slots
Micro-SD Card Reader
Smart Card Reader

NOTE: All cables are sold separately.

Features

SERVICE AND SUPPORT

HP Services offers 3-year and 1-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/cpc.

1. Sold separately or as an optional feature.
2. 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. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/cpc.

Not all configuration components are available in all regions/countries.
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DISPLAYS

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

33.8 cm (13.3") diagonal FHD UWVA ultra slim touch screen (1920 x 1080) with Corning® Gorilla® Glass	**Outline Dimensions** (W x H x D)	300.56 x 187.57 (max.) x2.2 (max) mm	
	Active Area	293.76 x 165.24 mm	
	Weight	160g max.	
	Diagonal Size	13.3"	
	Surface Treatment	BV	
	Touch enabled	Yes	
	Contrast Ratio	800:1 (typ - BV)	
	Refresh Rate	60Hz	
	Brightness	300 nit typ (Panel Only)	
	Pixel Resolution	**Format**	1920 x 1080 (FHD)
		Configuration	RGB
	Color Gamut Coverage	72%	
	Interface	eDP 1.3 w/ PSR	
	LCD Mode	IPS/FFS/AHVA	
	PPI	166	
	Viewing Angle	UWVA 85/85/85/85	
33.8 cm (13.3") diagonal UHD UWVA ultra slim touch screen (3840 x 2160) with Corning® Gorilla® Glass	**Outline Dimensions** (W x H x D)	299.76 x 187.17 (max.) x 2.2(max.) mm	
	Active Area	293.76 x 165.24 mm	
	Weight	190g max. (TBD)	
	Diagonal Size	13.3"	
	Surface Treatment	BV	
	Touch enabled	Yes	
	Contrast Ratio	1400:1 (typ) - BV	
	Refresh Rate	60Hz	
	Brightness	340nits typ (Panel Only)	
	Pixel Resolution	**Format**	3840 x 2160 (UHD)
		Configuration	RGB
	Color Gamut Coverage	72%	
	Interface	eDP 1.3 PSR	
	LCD Mode	IPS/FFS/AHVA	

Not all configuration components are available in all regions/countries.
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PPI	331		
Viewing Angle	UWVA 85/85/85/85		

STORAGE AND DRIVES

128 GB SATA-3 Value Solid State Drive	**Drive Weight**	0.01 lb (6 g) ~ 0.02 lb (10 g)	
	Capacity	128 GB	
	Height	0.09 in (2.3 mm)	
	Width	0.87 in (22 mm)	
	Interface	ATA-8, SATA 3.0	
	Performance	**Sequential Read (Up to MB/s)**	**Sequential Write (Up to MB/s)**
		515-535 MB/s	136-515 MB/s
	Logical Blocks	250,069,680	
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]	
	Features	DIPM; TRIM; DEVSLP	

256 GB SATA-3 TLC Self-Encrypting Solid State Drive (Opal 2)	**Drive Weight**	M.2 2280	
	Capacity	256 GB	
	Height	0.09 in (2.3 mm)	
	Width	0.87 in (22 mm)	
	Interface	ATA-8, SATA 3.0	
	Performance	**Sequential Read (Up to MB/s)**	**Sequential Write (Up to MB/s)**
		515-530 MB/s	490-515 MB/s
	Logical Blocks	500,118,192	
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]	
	Features	ATA Security; TCG Opal 2.0; DIPM; TRIM; DEVSLP	

256 GB PCIe Gen3x4 NVMe TLC Solid State Drive	**Drive Weight**	M.2 2280	
	Capacity	256 GB	
	Height	0.09 in (2.3 mm)	
	Width	0.87 in (22 mm)	
	Interface	PCIe NVMe Gen3X4	
	Performance	**Sequential Read (Up to MB/s)**	**Sequential Write (Up to MB/s)**
		1800-2600 MB/s	600-900 MB/s
	Logical Blocks	500,118,192	
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]	
	Features	ATA Security (Option); TRIM; L1.2	

Not all configuration components are available in all regions/countries.
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512 GB PCIe Gen3x4 NVMe TLC Solid State Drive	Drive Weight	M.2 2280	
	Capacity	512 GB	
	Height	0.09 in (2.3 mm)	
	Width	0.87 in (22 mm)	
	Interface	PCIe NVMe Gen3X4	
	Performance	**Sequential Read (Up to MB/s)**	**Sequential Write (Up to MB/s)**
		1580-2600 MB/s	300-1400 MB/s
	Logical Blocks	1,000,215,216	
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]	
	Features	ATA Security (Option); TRIM; L1.2	

NETWORKING/COMMUNICATIONS

HP lt4132 LTE/HSPA+ 4G Mobile Broadband Module

Technology/Operating bands   LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3) MHz,

850 (Band 5), 2600 (Band 7), 900 (Band 8) MHz,

800 (Band 20), 700 (Band 28) MHz.

HSPA+: 2100 (Band 1), 1900 (Band 2), 850 (Band 5), 900 (Band 8) MHz

E-GPRS: 1900 (Band 2), 1800 (Band 3), 850 (Band 5), 900 (Band 8) MHz

Wireless protocol standards   3GPP Release 10 LTE Specification CAT.4, 20MHz BW
WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification

E-GPRS: Class B, Multi-slot class 12, coding schemes CS1 - CS4

and MSC1 - MSC9

GPS   Standalone, A-GPS (MS-B and LTO)

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

Maximum data rates   LTE: 150 Mbps (Download), 50 Mbps (Upload)

DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload)

Not all configuration components are available in all regions/countries.
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	HSPA+: 21Mbps (Download), 5.76 Mbps (Upload)
	EDGE: 236.8 kbps (Download), 236.8 kbps (Upload)
	GPRS: 85.6 kbps(Download), 85.6 kbps (Upload)
Maximum output power	LTE: 23 dBm
	HSPA+: 23.5 dBm
	E-GPRS 1900/1800: 26 dBm
	E-GPRS 900/850: 27 dBm
	GPRS 1900/1800: 29.5 dBm
	GPRS 900/850: 32.5 dBm
Maximum power consumption	LTE: 1,200 mA (peak); 900 mA (average)
	HSPA+: 1,100 mA (peak); 800 mA (average)
	E-GPRS: 2,600 mA (peak); 500 mA (average)
Form Factor	M.2, 3042-S3 Key B
Weight	6 g
Dimensions (Length x Width x Thickness)	42 x 30 x 2.3 mm

* Mobile Broadband is an optional 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. 4G LTE not available on all products or in all countries.

HP hs3210 HSPA+ Mobile Broadband Module*

Technology/Operating bands	HSPA+: 2100 (Band1), 1900 (Band 2), 850 (Band 5), 900 (Band 8) MHz E-GPRS: 1900 (Band 2), 1800 (Band 3), 850 MHz (Band 5), 900 (Band 8) MHz
Wireless protocol standards	WCDMA R99, 3GPP Release 5, 6 and 7 UMTS Specification
	E-GPRS: Class B, Multi-slot class 33, coding schemes CS1 - CS4 and MSC1 - MSC9
Maximum data rates	HSPA+: 21.6 Mbps (Download), 5.76 Mbps (Upload)

Not all configuration components are available in all regions/countries.
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	E-GPRS: 296 kbps (Download), 236.8 kbps (Upload)
	GPRS: 107 kbps (Download), 85.6 kbps (Upload)
Maximum output power	HSPA+: 24 dBm
	E-GPRS 1800/1900: 26 dBm
	E-GPRS 850/900: 27 dBm
	GPRS 1800/1900: 30 dBm
	GPRS 850/900: 33 dBm
Maximum power consumption	HSPA+: 1,100 mA (peak); 800 mA (average)
	E-GPRS: 2,800 mA (peak); 700 mA (average)
Form Factor	M.2, 2242-S3 Key B
Weight	6 g
Dimensions (Length x Width x Thickness)	1.65 x 8.66 x 0.09 in (42 x 22 x 2.38 mm)

* Mobile Broadband is an optional 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.

Intel® Dual Band 802. 11a/b/g/n/ac (2x2) and Bluetooth® 4.2 Combo

Wireless LAN Standards	IEEE 802.11a
	IEEE 802.11b
	IEEE 802.11g
	IEEE 802.11n
	IEEE 802.11ac
	IEEE 802.11ac Wave 2 MU-MIMO
Interoperability	Wi-Fi certified
Frequency Band	802.11b/g/n

- 2.402 – 2.482 GHz
  Note: The FCC has declared as of January 1, 2015 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.

802.11a/n

Not all configuration components are available in all regions/countries.
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	• 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
	Note: Indonesia no support this band)
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, 80MHz, and 160 MHz)
Modulation	Direct Sequence Spread Spectrum
	BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
Security[1]	• 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
Output Power[2]	• 802.11b : +16dBm minimum
	• 802.11g : +14dBm minimum
	• 802.11a : +14dBm minimum
	• 802.11n HT20(2.4GHz) : +14dBm minimum
	• 802.11n HT40(2.4GHz) : +12dBm minimum
	• 802.11n HT20(5GHz) : +14dBm minimum
	• 802.11n HT40(5GHz) : +12dBm minimum
Power Consumption	Transmit: 2.0 W (max)
	Receive: 1.6 W (max)
	Idle mode (PSP): 180 mW (WLAN Associated)
	Idle mode: 50 mW (WLAN unassociated)
	Connect Standby: 10 mW (WLAN+BT)

Not all configuration components are available in all regions/countries.
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Radio disabled: 5 mW

Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
Receiver Sensitivity[3]	802.11b, 1Mbps : -94dBm maximum
	802.11b, 11Mbps : -86dBm maximum
	802.11g, 6Mbps : -88dBm maximum
	802.11g, 54Mbps : -74dBm maximum
	802.11a, 6Mbps : -88dBm maximum
	802.11a, 54Mbps : -74dBm maximum
	802.11n, MCS07 : -69dBm maximum
	802.11n, MCS15 : -66dBm maximum
	802.11ac, 1SS, MCS-0 : -86dBm maximum
	802.11ac, 1SS, MCS-9 : -61dBm maximum
	802.11ac, 2SS, MCS-0 : -83dBm maximum
	802.11ac, 2SS, MCS-9 : -58dBm maximum
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 M.2 MiniCard
Dimensions	Type 2230 : 2.3 x 22.0 x 30.0 mm
	Or Type 1630 : 2.3 x 16.0 x 30.0 mm
Weight	Type 2230 : 2.8g
	Or
	Type 1630 : 2g
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)

Not all configuration components are available in all regions/countries.
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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; LED White − 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).

HP Integrated Module with Bluetooth 4.0/4.1/4.2 Wireless Technology

Bluetooth Specification	4.0/4.1/4.2 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available Channels	Legacy : 0~79 (1 MHz/CH)
	BLE : 0~39 (2 MHz/CH)
Data Rates and Throughput	Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps
	BLE : 1 Mbps data rate; throughput up to 0.2 Mbps
	Legacy : Synchronous Connection Oriented links up to 3, 64 kbps, voice channels
	Legacy : Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)
Transmit Power	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 4 dBm for BR and EDR.

Receiver Sensitivity

Legacy

Modulation	0.01% BER	0.001% BER
GFSK	-80 dBm	-70 dBm
π/4-DQPSK	-80 dBm	-70 dBm
8DPSK	-80 dBm	-70 dBm

Power Consumption	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 17 mW
Range	Legacy Up to 33 ft (10 m)

Not all configuration components are available in all regions/countries.
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	BLE Up to 99 ft (30 m)
Electrical Interface	USB 2.0 compliant
Bluetooth Software Supported	Microsoft Windows Bluetooth Software
Link Topology	
Electrical Interface	Point to Point, Multipoint Pico Nets up to 7 slaves
Bluetooth Software Supported	Full support of Bluetooth Security Provisions
Security	
Power Management	Microsoft Windows ACPI, and USB Bus Support
Certifications	Self-configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff
Security	All necessary regulatory approvals for supported countries, including:
Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.249
Bluetooth Profiles Supported	
Power Management	ETS 300 328, ETS 300 826
Certifications	Low Voltage Directive IEC950
	UL, CSA, and CE Mark
Certifications **Bluetooth Profiles Supported**	Serial Port Profile (SPP)[1,2] Service Discovery Application Profile (SDAP) Dial-Up Networking (DUN)[1,1] Generic Object Exchange Profile (GOEP)[1,2] Object Push Profile (OPP)[1,2] Hard Copy Cable Replacement (HCRP)[1,2] Personal Area Networking Profile (PAN)[1,0] Human Interface Device Profile (HID)[1,0] Hands Free Profile (HFP) [1.5/1.6] Advanced Audio Distribution Profile (A2DP) [1.3] Audio Video Remote Control Profile (AVRCP) [1.3/1.4]
Bluetooth V4.1/V4.2 support feature	V4.1: ESR5/6/7 compliant

Not all configuration components are available in all regions/countries.
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V4.2: ESR8 compliant, LE Secure Connection – Basic.

Intel® Dual Band 802. 11a/b/g/n/ac (2x2) and Bluetooth® 4.2 Combo

Wireless LAN Standards	IEEE 802.11a
	IEEE 802.11b
	IEEE 802.11g
	IEEE 802.11n
	IEEE 802.11ac
Interoperability	Wi-Fi certified
Frequency Band	802.11b/g/n

- 2.402 – 2.482 GHz
  Note: The FCC has declared as of January 1, 2015 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.

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
  Note: Indonesia no support this band)

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
Security[1]	- 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.

Not all configuration components are available in all regions/countries.
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	- 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
Output Power[2]	- 802.11b : +16dBm minimum - 802.11g : +14dBm minimum - 802.11a : +14dBm minimum - 802.11n HT20(2.4GHz) : +14dBm minimum - 802.11n HT40(2.4GHz) : +12dBm minimum - 802.11n HT20(5GHz) : +14dBm minimum - 802.11n HT40(5GHz) : +12dBm minimum
Power Consumption	Transmit: 2.0 W (max) Receive: 1.6 W (max) Idle mode (PSP): 180 mW (WLAN Associated) Idle mode: 50 mW (WLAN unassociated) Connect Standby: 10 mW (WLAN+BT) Radio disabled: 5 mW
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
Receiver Sensitivity[3]	802.11b, 1Mbps : -94dBm maximum 802.11b, 11Mbps : -86dBm maximum 802.11g, 6Mbps : -88dBm maximum 802.11g, 54Mbps : -74dBm maximum 802.11a, 6Mbps : -88dBm maximum 802.11a, 54Mbps : -74dBm maximum 802.11n, MCS07 : -69dBm maximum 802.11n, MCS15 : -66dBm maximum 802.11ac, 1SS, MCS-0 : -86dBm maximum

Not all configuration components are available in all regions/countries.
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802.11ac, 1SS, MCS-9 : -61dBm maximum

802.11ac, 2SS, MCS-0 : -83dBm maximum

802.11ac, 2SS, MCS-9 : -58dBm maximum

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 M.2 MiniCard
Dimensions	Type 2230 : 2.3 x 22.0 x 30.0 mm
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	Or
	Type 1630 : 2g
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; LED White − Radio ON	

4. Check latest software/driver release for updates on supported security features.
5. Maximum output power may vary by country according to local regulations.
6. 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).

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Bluetooth Specification	4.0/4.1/4.2 Compliant
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Number of Available Channels	Legacy : 0~79 (1 MHz/CH)

Not all configuration components are available in all regions/countries.
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BLE : 0~39 (2 MHz/CH)

Data Rates and Throughput

Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps

BLE : 1 Mbps data rate; throughput up to 0.2 Mbps

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

Legacy : Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

Transmit Power

The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 4 dBm for BR and EDR.

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Modulation	0.01% BER	0.001% BER
GFSK	-80 dBm	-70 dBm
π/4-DQPSK	-80 dBm	-70 dBm
8DPSK	-80 dBm	-70 dBm

Power Consumption

Peak (Tx) 330 mW
Peak (Rx) 230 mW
Selective Suspend 17 mW

Range

Legacy Up to 33 ft (10 m)

BLE Up to 99 ft (30 m)

Electrical Interface

USB 2.0 compliant

Bluetooth Software Supported

Microsoft Windows Bluetooth Software

Link Topology

Electrical Interface

Point to Point, Multipoint Pico Nets up to 7 slaves

Bluetooth Software Supported

Full support of Bluetooth Security Provisions

Security

Power Management

Microsoft Windows ACPI, and USB Bus Support

Certifications

Self-configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff

Security

All necessary regulatory approvals for supported countries, including:

Not all configuration components are available in all regions/countries.
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Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.249	
Bluetooth Profiles Supported		
Power Management	ETS 300 328, ETS 300 826	
Certifications	Low Voltage Directive IEC950	
	UL, CSA, and CE Mark	
	Serial Port Profile (SPP)[1,2]	
	Service Discovery Application Profile (SDAP)	
	Dial-Up Networking (DUN)[1,1]	
	Generic Object Exchange Profile (GOEP)[1,2]	
	Object Push Profile (OPP)[1,2]	
Certifications	Hard Copy Cable Replacement (HCRP)[1,2]	
	Personal Area Networking Profile (PAN)[1,0]	
Bluetooth Profiles Supported	Human Interface Device Profile (HID)[1,0]	
	Hands Free Profile (HFP) [1.5/1.6]	
	Advanced Audio Distribution Profile (A2DP) [1.3]	
	Audio Video Remote Control Profile (AVRCP) [1.3/1.4]	

Bluetooth V4.1/V4.2 support feature	V4.1: ESR5/6/7 compliant
	V4.2: ESR8 compliant, LE Secure Connection – Basic.

POWER

HP 65W Smart AC adapter	Dimensions	107.0x47.0x30.0mm	
	Weight	250g +/- 10g	
	Input		
		Input Efficiency	88.0 % at 115 Vac and 89.0 % at 230Vac
		Input frequency range	47 ~ 63 Hz
		Input AC current	Max. 1.7 A at 90 Vac
	Output	Output power	65W
		DC output	19.5V

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	Hold-up time	5ms at 115 Vac input
	Output current limit	<11.0A
Connector	C6 (3pin/with grounded, with Smart ID DC connector)	
Environmental Design	**Operating temperature**	32ºF to 95ºF (0ºto 35ºC)
	Non-operating (storage) temperature	-4ºF to 185ºF (-20ºto 85ºC)
	Altitude	0 to 16,400 ft (0 to 5000m)
	Humidity	20% to 95%
	Storage Humidity	10% to 95%
EMI and Safety Certifications	Eg: *CE Mark - full compliance with LVD and EMC directives * Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. * MTBF - over 200,000 hours at 25°C ambient condition.	

HP 65W EM Smart AC adapter	**Dimensions**	127.0x51.0x30.0mm
	Weight	350g +/- 10g
	Input	
	Input Efficiency	88.0 % at 115 Vac and 89.0 % at 230Vac
	Input frequency range	47 ~ 63 Hz
	Input AC current	Max. 1.7 A at 90 Vac
Output	**Output power**	65W
	DC output	19.5V
	Hold-up time	5ms at 115 Vac input
	Output current limit	<11.0A
Connector	C6 (3pin/with grounded, with Smart ID DC connector)	
Environmental Design	**Operating temperature**	32ºF to 95ºF (0ºto 35ºC)
	Non-operating (storage) temperature	-4ºF to 185ºF (-20ºto 85ºC)
	Altitude	0 to 16,400 ft (0 to 5000m)
	Humidity	20% to 95%
	Storage Humidity	10% to 95%
EMI and Safety Certifications	Eg: *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	

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Class B, CISPR22 Class B, CCC, NOM-1 NYCE.
* MTBF - over 200,000 hours at 25°C ambient condition.

HP 65W Smart USB Type-C™ AC adapter	**Dimensions**	74x74x28.5mm	
	Weight	245g +/- 10g	
	Input		
		Input Efficiency	81.5% min at 115 Vac/ 230Vac @ 5V/3A 86.7% min at 115 Vac/ 230Vac @ 9V/3A 88% min at 115 Vac/ 230Vac @ 10V/5A 88% min at 115 Vac/ 230Vac @ 12V/5A 89% min at 115 Vac/ 230Vac @ 15V/4.33A 89% min at 115 Vac/ 230Vac @ 20V/3.25A
		Input frequency range	47 ~ 63 Hz
		Input AC current	1.7 A at 90 VAC and maximum load
	Output	**Output power**	65W
		DC output	5V/9V/10V/12V/15V/20V
		Hold-up time	5ms at 115 Vac input
		Output current limit	<8.0A
	Connector	USB Type C	
	Environmental Design	**Operating temperature**	32ºF to 95ºF (0º to 35ºC)
		Non-operating (storage) temperature	-4ºF to 185ºF (-20º to 85ºC)
		Altitude	0 to 16,400 ft (0 to 5000m)
		Humidity	5% to 95%
		Storage Humidity	5% to 95%
	EMI and Safety Certifications	Eg: *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 100,000 hours at 25°C ambient condition.	

HP Long Life 3 cell, 57 Wh Li-on polymer	**Dimensions** (H x W x L)	6.3mm x 110.05mm x 259.8mm	
	Weight	250g	
	Cells/Type	3cell Lithium-Ion	
	Energy	**Voltage**	11.55V
		Amp-hour capacity	4935mAh
		Watt-hour Capacity	57Whr
	Temperature	**Operating (Charging)**	32˚ to 113˚ F (0˚ to 45˚ C)

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		Operating (Discharging)
		14˚ to 122˚ F(-10˚ to 60˚ C)
	Non-operating	-4˚ to 122˚ F (-20˚ to 60˚ C)
Battery Re-Charge Time	**System in OFF mode or Standby**	< 5 hours
	System ON	Need system side power/EE confirm
Fuel Gauge LED		No
Optional Travel Battery Available		N/A

ENVIRONMENTAL

Eco-Label Certifications & declarations	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:

- IT ECO declaration
- US ENERGY STAR®
- EPEAT◻ Gold registered in the United States. See http://www.epeat.net for registration status in your country.

System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a "Typically Configured Notebook".

Energy Consumption (in accordance with US ENERGY STAR® test method)	**115VAC, 50Hz**	**230VAC, 50Hz**	**100VAC, 50Hz**
Normal Operation (Short idle)	7.50 W	7.33 W	7.38 W
Normal Operation (Long idle)	3.17 W	3.24 W	3.22 W
Sleep	0.46 W	0.48 W	0.46 W
Off	0.25 W	0.28 W	0.25 W

Note:

Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then

Not all configuration components are available in all regions/countries.
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energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.

Heat Dissipation*	115VAC, 50Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation (Short idle)	26 BTU/hr	25 BTU/hr	25 BTU/hr
Normal Operation (Long idle)	11 BTU/hr	11 BTU/hr	11 BTU/hr
Sleep	2 BTU/hr	2 BTU/hr	2 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr

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

Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L_{WAd}, bels)	Sound Pressure (L_{pAm}, decibels)
Typically Configured – Idle	2.5	15
Fixed Disk – Random writes	3.0	30
Batteries	This battery(s) in this product comply with EU Directive 2006/66/EC	

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

Batteries used in the product do not contain:
    Mercury greater the1ppm by weight
    Cadmium greater than 20ppm by weight

Battery size: CR2032 (coin cell)
Battery type: Lithium

Not all configuration components are available in all regions/countries.
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QuickSpecs

Additional Information	• This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC.
	• This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC.
	• This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).
	• This product is in compliance with the IEEE 1680 (EPEAT) standard at the gold level, see www.epeat.net
	• Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.
	• This product contains 0% post-consumer recycled plastic (by wt.)
	• This product is 95.0% recycle-able when properly disposed of at end of life.

Packaging Materials

External:	PAPER/Corrugated	363 g
Internal:	PLASTIC/Expanded Polyethylene - EPE	42 g
	PLASTIC/Polyethylene low density - LDPE	15 g
	PLASTIC/Polypropylene - PP	3 g

The plastic packaging material contains at least 0% recycled content.
The corrugated paper packaging materials contains at least 96% recycled content.

Material Usage

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants – may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

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

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

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

HP, Inc. Corporate Environmental Information

For more information about HP's commitment to the environment:

Global Citizenship Report
    http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html
Eco-label certifications
    http://www8.hp.com/us/en/hp-information/environment/ecolabels.html
 ISO 14001 certificates:

    http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842

    and

    http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

COUNTRY OF ORIGIN

China

Not all configuration components are available in all regions/countries.
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Options and Accessories (Sold separately and availability may vary by country.)

Category	Description	Part Number
Cases	HP Business Slim Top Load	H5M91AA
	HP Business Backpack	H5M90AA
Docking	HP USB-C Travel Dock	T0K29AA#xxx
	HP Hot Desk Stand	W3Z73AA
	HP Hot Desk Stand Monitor Arm	W3Z74AA
Input/Output	HP Active Pen with App Launch	T4Z24AA
	HP USB-C to RJ45	V7W66AA#xxx
	HP USB to Gigabit RJ45 Adapter	N7P47AA#xxx
	HP USB-C to VGA Adapter	N9K76AA
	HP USB-C to HDMI Adapter	N9K77AA
	HP USB-C to DisplayPort Adapter	N9K78AA
	HP Stereo 3.5mm Headset	T1A66AA
	HP Stereo USB Headset	T1A67AA
	HP Comfort Grip Wireless Mouse	H2L63AA
	HP Slim USB Keyboard and Mouse	T6T83AA
	HP Wireless (Link-5) Keyboard	T6U20AA
	HP USB Optical Travel mouse	G2K28AA
Power	HP 65W Smart AC Power Adapter (4.5mm)	H6Y89AA#xxx
Storage	HP External USB Optical Drive	F2B56AA
Security	HP Keyed Cable Lock 10mm	T1A62AA
	HP Dual Head Keyed Cable Lock	T1A64AA
UCC	HP Conferencing Keyboard	K8P74AA#xxx
	HP Speaker Phone	K7V16AA
	HP Wired Headset	K7V17AA
Displays	HP S270c 27" Curved Monitor	K1M38AA#ABA
	HP E230t 23" Touch Monitor	W2Z50AA#ABA

Not all configuration components are available in all regions/countries.
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