Overview

HP EliteBook 1040 G3 Notebook PC
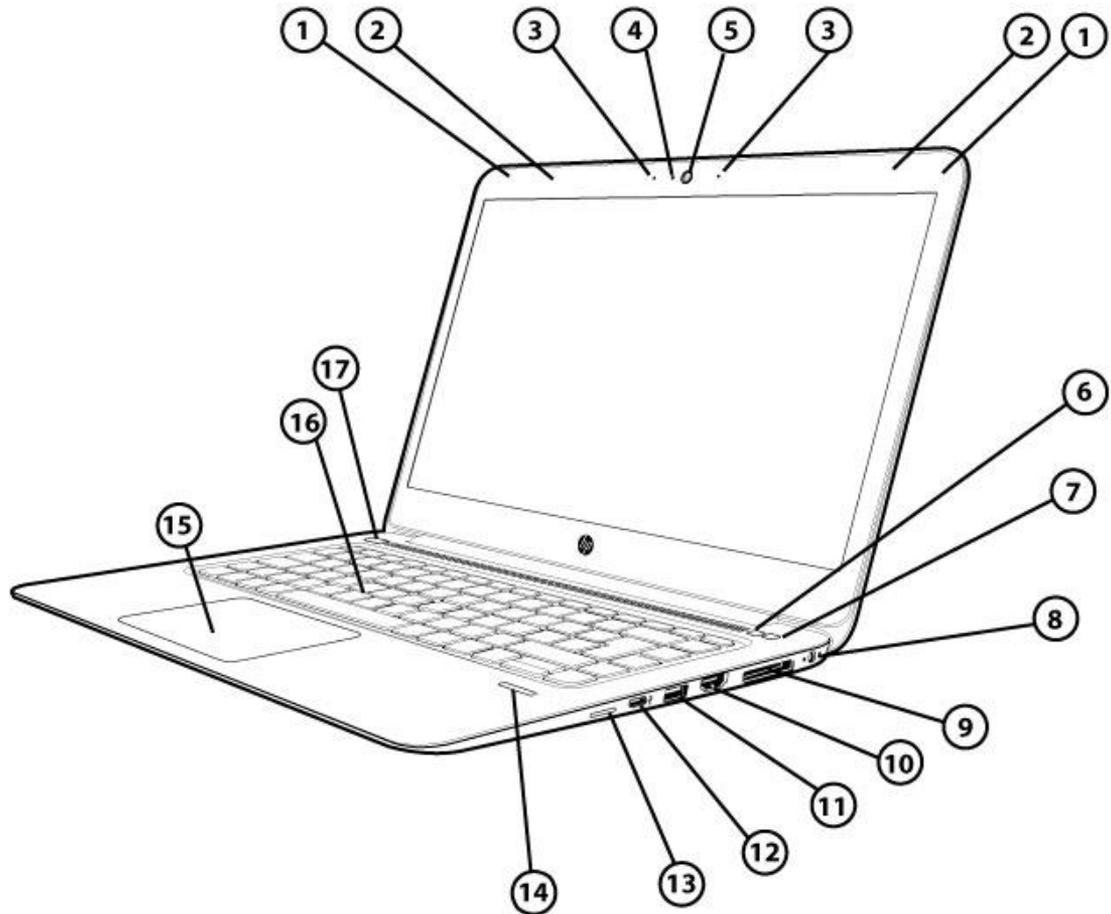
Front Side View

1. WLAN antennas (2)
2. WWAN antennas (2) (select models)
3. Internal microphones (2)
4. Webcam LED (select models)
5. Optional 720p HD webcam
6. Wireless on/off button with LED indicator
7. Speaker mute button with LED indicator
8. Power connector
9. Docking connector
10. HDMI 1.4 port
11. USB charging port
12. USB-Type C™ charging port
13. WWAN SIM with plug (Plug is removable only for units with optional WWAN
14. Fingerprint reader
15. ClickPad™
16. Backlit keys
17. Power button

Not all configuration components are available in all regions/countries.
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Overview
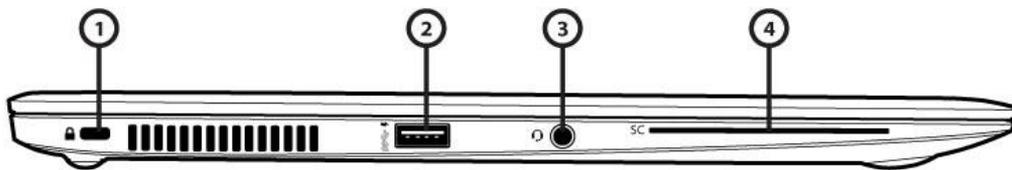
Side View

1. Security lock slot
2. USB 3.0 charging port
3. Headphone/microphone combo
4. Smart card reader

At A Glance

- Weight starting at 3.15 lbs (1.43 kg) for Non-Touch or 3.40 lbs (1.54 kg) for Touch
- Height starting at of 15.8 mm (16.5 mm with Touchscreen)
- CNC Aluminum chassis with diamond cut design, wear-resistant "meteorite" HP DuraFinish, HP DisplaySafe frame, HP DuraKeys high durability keyboard finish, aluminum alloy keyboard deck, precision aluminum drop hinge
- Choice of 6th Generation Intel® Core™ i5, i7 Processors with integrated Intel® HD Graphics
- Supports wireless LAN and wireless WAN options for connectivity on the go
- Integrated docking connector and optional HP Ultraslim Docking Station provide quick transition to a desktop setting
- Enhanced security features including HP Sure Start self-healing BIOS, HP Client Security, HP BIOSphere, and hardware security options like an HP Fingerprint Reader, optional VPro and integrated smart card reader
- Full-sized spill-resistant backlit keyboard with drain keeps you productive in low-light settings
- New Clickpad for both basic and advanced touch gestures
- 14.0" diagonal QHD (2560 x 1440) Touch, QHD (2560 x 1440) or FHD (1920 x1080) Non-Touch Displays
- HP 6-cell (45.6 WHr) Long Life battery for battery life up to 9 hours and 45 minutes
- Up to 512 GB Solid State Drives
- Up to 16 GB total system memory
- 720p HD webcam with dual-microphone array for video conferencing
- Audio by Bang & Olufsen for precise sound
- Windows 10, Windows 7 Professional 64, FreeDOS 2.0
- Designed to pass MIL STD testing[1]

1. Testing was not intended to demonstrate fitness for Department of Defense contracts 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.

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

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Overview

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

Technical Specifications

PRODUCT NAME

HP EliteBook 1040 G3 Notebook PC

OPERATING SYSTEM

Preinstalled	Windows 10 Pro 64[1]
	Windows 10 Home 64[1]
	Windows 7 Professional 64 (available through downgrade rights from Windows 10 Pro 64)[2]
	Windows 7 Professional 64[3]
	FreeDOS 2.0
Web-only Support	Widows 10 Enterprise[1]
	Windows 8.1 Enterprise 64[3]
	Windows 7 Professional 32[3]
	Windows 7 Enterprise 32[3]
	Windows 7 Enterprise 64[3]

1. Not all features are available in all editions or versions 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.microsoft.com.
2. This system is preinstalled with Windows 7 Professional software and also comes with a license and media for Windows 10 Pro software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data
3. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. See http://www.microsoft.com.

PROCESSOR

Intel® Core™ i7-6600U with Intel HD Graphics 520 (2.6 GHz, up to 3.4 GHz with Intel Turbo Boost Technology, 4 MB cache, 2 cores) [1]
Intel® Core™ i7-6500U with Intel HD Graphics 520 (2.5 GHz, up to 3.1 GHz with Intel Turbo Boost Technology, 4 MB cache, 2 cores) [1]
Intel® Core™ i5-6300U with Intel HD Graphics 520 (2.4 GHz, up to 3 GHz with Intel Turbo Boost Technology, 3 MB cache, 2 cores) [1]
Intel® Core™ i5-6200U with Intel HD Graphics 520 (2.3 GHz, up to 2.8 GHz with Intel Turbo Boost Technology, 3 MB cache, 2 cores) [1]

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.

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

CHIPSET

Integrated with processor

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Technical Specifications

GRAPHICS

Integrated:
   Intel® HD Graphics 520

DISPLAY

Non-Touch
14.0" diagonal LED-backlit FHD[1] Anti-glare SVA (1920 x 1080), 300 nits
14.0" diagonal LED-backlit FHD[1] Anti-glare SVA (1920 x 1080), 300 nits with WWAN
14.0" diagonal LED-backlit FHD[1] Anti-glare SVA (1920 x 1080), 300 nits with camera
14.0" diagonal LED-backlit FHD[1] Anti-glare SVA (1920 x 1080), 300 nits with camera and WWAN

14.0" diagonal LED-backlit QHD[1] UWVA (2560 x 1440), 340 nits
14.0" diagonal LED-backlit QHD[1] UWVA (2560 x 1440), 340 nits with WWAN
14.0" diagonal LED-backlit QHD[1] UWVA (2560 x 1440), 340 nits with camera
14.0" diagonal LED-backlit QHD[1] UWVA (2560 x 1440), 340 nits with camera and WWAN

Touch[2]
14.0" diagonal LED-backlit QHD[1] UWVA (2560 x 1440), 340 nits with camera
14.0" diagonal LED-backlit QHD[1] UWVA (2560 x 1440), 340 nits with camera and WWAN
Note: Touch panel has chemically-strengthened Corning® Gorilla® Glass 3 top cover

1. HD content required to view HD images.

External
Up to 32-bit per pixel color depth

HDMI
HDMI 1.4 (Cable not included)

Docking Station	Number of Displays supported
Optional UltraSlim Docking Station[1]	3

1. Sold separately or as an optional feature.
NOTE: Resolutions are dependent upon monitor capability, and resolution and color depth settings.

STORAGE AND DRIVES

Primary Storage

Solid State Drives
Supports M.2 (NGFF) 2280 Solid State Drive
128 GB SATA-3 TLC SSD
180 GB SATA-3 MLC SSD
180 GB SATA-3 Self-Encrypting Drive (Opal 2) MLC SSD
240 GB SATA-3 MLC SSD
256 GB PCIe-3x4 NVMe SSD
256 GB SATA-3 Self-Encrypting Drive (Opal 2) MLC SSD
256 GB SATA-3 TLC SSD
512 GB SATA-3 TLC SSD

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1. For solid state drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 16 GB (for Windows 7) and up to 30 GB (for Windows 8.1 and 10) of system disk is reserved for the system recovery software.

NOTE: Internal component upgrades such as storage are not available after factory configuration.

MEMORY

Standard
DDR4 PC4 – 2133 (Transfer rates up to 2133 MT/s)
Memory soldered down (No sockets)
Supports Dual Channel Memory

Standard memory
8192 MB Total System Memory (512 MB x 16 MB)
16384 MB Total System Memory (512 MB x 16 MB x 2)

Maximum
16 GB Total System[1]

NOTE: Internal component upgrades to memory are not available after factory configuration.
1. Maximum memory capacities assume Windows 64-bit operating systems or Linux. With Windows 32-bit operating systems, memory above 3 GB may not all be available due to system resource requirements.

NETWORKING/COMMUNICATIONS

Broadband Wireless (WWAN)
HP lt4120 Qualcomm® Snapdragon™ X5 LTE Mobile Broadband Module[1,2]
HP 3110 HSPA+ Mobile Broadband Module[1,2]

NOTE: WWAN modules are only available if preconfigured. WWAN 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.
Not available with Ubuntu.

Wireless LAN (WLAN)
 Intel® Dual Band Wireless AC-8260 802.11 a/b/g/n ac (2x2) Bluetooth® 4.2 Combo[1,2]

1. Wireless access point and Internet service is required and is not included.
    Availability of public wireless access points limited.
2. Sold separately or as an optional feature.

Communications
Intel® Ethernet Connection I218LM 10/100/1000 Ethernet, with iAMT
Optional Near Field Communication (NFC) with Secure Element [2,3]

1. The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.
2. NFC ships enabled by default on Windows 8.1 and is disabled by default on Windows 7.
3. Sold separately or as an option.

Technical Specifications

AUDIO/WEBCAM

Audio
Audio by Bang & Olufsen
Two integrated stereo speakers
Integrated dual-array microphone
Button for speaker mute; function keys for volume up and down
Headphone/Microphone combo port
Intel® Smart Sound Technology (Windows 8.1 and Windows 10)

1. Works only with Windows.

Webcam
720p HD² webcam

1. HD format (widescreen)
2. Supports videoconferencing and still image capture
3. High quality fixed focus lens
4. Video capture at various resolutions up to 1280 x 720 resolution (720p) and up to 30fps
5. M-JPEG compression supports higher frame rates for video capture and videoconferencing
6. Improved low light sensitivity
7. Improved dynamic range

1. Sold separately as an optional feature.
2. HD content required to view HD images.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard
Spill-resistant with drain
Backlit
HP Dura Keys

Buttons and Function Keys
Discrete buttons provide easy access to the following features:
F1 - Sleep
F2 - Blank
F3 -Backlit Keyboard
F4 - Display Switching
F5 - Brightness Down
F6 - Brightness Up
F7 - Blank
F8 - Volume Down
F9 - Volume Up
F10 - Mic Mute
F11 - Blank
F12 - Num Lock

TouchPad
ClickPad™
Glass with chemical etched surface
Taps enabled as default

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Gestures enabled by default
2 Finger Scrolling
2 Finger Zoom (Pinch)

SOFTWARE AND SECURITY

Preinstalled with Windows Operating System
BIOS

HP BIOSphere[1]

HP Sure Start with Dynamic Protection

HP DriveLock | HP Automatic DriveLock

HP BIOS Protection[2]

BIOS Update via Network

HP Sparekey[15]

Master Boot Record Security

Power On Authentication

Pre-Boot Security

Secure Erase[3]

Hybrid Boot

Measure Boot

Secure Boot

Pre-boot Authentication

Multi Media

Cyberlink Power DVD, BD
Cyberlink YouCam BE (Windows 7 only)

Communication

HP GPS and Location (Windows 7 only)[5]
HP Connection Manager with support for HP Mobile Connect Pro (Windows 7 only)[6]
HP Mobile Connect Pro (Windows 8.1 and Windows 10 only)[6]
Intel® Wireless Display (WiDi) Software for Windows[7]
Native Miracast Support[8]

HP Value Add Software

HP ePrint Driver[9]

HP Hotkey Support

HP Recovery Manager

HP Recovery Disc Creator

HP Registration App (Windows 8.1 only)

HP Support Assistant

HP Noise Reduction Software

3rd Party

Foxit PhantomPDF Express for HP

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Microsoft Products

Buy Office
Bing Search
Skype[10]

Manageability

HP Driver Packs[11]
HP SoftPaq Download Manager (SDM)
HP System Software Manager (SSM)[11]
HP BIOS Config Utility (BCU)[11]
HP Client Catalog[11]
HP CIK for Microsoft SCCM[11]
LANDESK Management[12]
HP Image Assistant[11]

For more information on HP Client Management Solutions refer to: http://www.hp.com/go/clientmanagement.

Client Security Software

HP Client Security

- HP Security Manager (including Credential Manager and Password Manager)
- HP Drive Lock
- HP Fingerprint Sensor
- HP Password Manager
- Absolute Persistence Module[4]
- Power On Authentication

Microsoft Security Essentials[13]
Microsoft Defender[13]

Security

Trusted Platform Module (TPM) 1.2 Embedded Security Chip (Common Criteria EAL4+ Certified or FIPS 140-2). Field upgradeable to TPM 2.0[14]
Security lock slot (Cable not included)
Fingerprint Reader
Integrated Smart Card Reader

For more information on HP Client Security Software Suite, refer to http://www.hp.com/go/clientsecurity.

1. Available only on business PCs with HP BIOS.
2. May require a manual recovery step if all copies of BIOS are compromised or deleted
3. For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.
4. 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: http://www.absolute.com/company/legal/agreements/ computrace-agreement. 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.

Technical Specifications

5. GPS access requires an unobstructed path to multiple satellites. Performance may be affected if/when used inside of buildings, bridges or heavily congested metropolitan areas. Requires separately purchased GPS navigation software available from multiple GPS applications.

6. HP Mobile Connect Pro is only available on preconfigured devices with WWAN. For geographic availability refer to http://www.hp.com/go/mobileconnect

7. Integrated Intel Wi-Di feature is available on select configurations only and requires separately purchased projector, TV or computer monitor with an integrated or external Wi-Di receiver. External Wi-Di receivers connect to the projector, TV or computer monitor via a standard HDMI cable, also sold separately.

8. 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

9. 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 http://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.

10. Skype is not offered in China.

11. Not preinstalled, however available for download at http://www.hp.com/go/clientmanagement

12. Subscription required.

13. Opt in and internet connection required for updates.

14. This product ships with TPM 1.2 with option to upgrade to TPM 2.0. Upgrade utility is expected to be available by the end of 2015 via HP Customer Support

15. Requires initial user set up.

POWER

Power Supply/AC Adapters

45W 2-prong AC Adapter
45W Smart AC Adapter
65W Smart EM AC Adapter
65W Slim Travel AC Adapter

Power cord included is 3.2 ft /1 m long.
Optional: 1.8 m long power cord (5.9 ft)

Primary Battery

HP 6-Cell (45.6 Whr) polymer long life battery

Battery Life

Up to 9 hours and 45 minutes[1]

System Standby Time

Up to TBD

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.

WEIGHTS & DIMENSIONS

Weight

Starting at 3.15 lbs (1.43 kg) for Non-Touch[1]
Starting at 3.40 lbs (1.54 kg) for Touch[1]

Technical Specifications

1. Weight varies by configuration and components.

Dimensions (w x d x h)
Non-Touch
13.27 x 9.23 x 0.62 in (Front)
33.7 x 23.45 x 1.58 cm (Front)

Touch
13.27 x 9.23 x 0.65 in (Front)
33.7 x 23.45 x 1.65 cm (Front)

PORTS/CONNECTORS

Ports
Input / Output
(2) USB 3.0 charging port
(1) USB-Type C™ charging port (15W)
(1) Docking connector
(1) HDMI 1.4
(1) Headphone/microphone combo
(1) Multi-Pin AC port (4.5mm)

Note: Cables not included.

SERVICE AND SUPPORT

HP Services offers a 1-year limited warranty. Batteries have a default one year limited warranty same as the platform. On-site service and extended coverage is also available. HP Care Pack Services[1,2] 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 Services may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc

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System Unit
TBD

Displays

14.0" diagonal LED-backlit FHD Anti-glare SVA (1920 x 1080)	**Active Area** (W x H)	308.851 (H) x 173.729 (V) mm
	Diagonal Size	14.0"
	Surface Treatment	Anti-Glare
	Contrast Ratio	500:1 (typical)
	Refresh Rate	60Hz
	Brightness	300nit (typical, @5point)
	Pixel Resolution	1920 x 1080
	Backlight	WLED
	PPI	157
	Viewing Angle	SVA 45/45/20/45
14.0" diagonal LED-backlit QHD UWVA (2560 x 1440)	**Active Area** (W x H)	309.504 (H) x 174.096 (V) mm
	Diagonal Size	14.0"
	Surface Treatment	Anti-Glare
	Contrast Ratio	600:1 (typical)
	Refresh Rate	60Hz
	Brightness	340nit (typical, @5point)
	Pixel Resolution	2560 x 1440
	Backlight	WLED
	PPI	210
	Viewing Angle	UWVA 85/85/85/85
14.0" diagonal LED-backlit QHD UWVA (2560 x 1440), 340 nits with camera- Touch	**Outline Dimensions** (W x H x D)	331.35 x 217.53 x 3.8 mm max. (w/LCD)
	Active Area	309.504 (H) x 174.096 (V) mm
	Weight	360g max (w/LCD)
	Diagonal Size	14.0"
	Touch enabled	Yes
	Contrast Ratio	600:1 (typical)
	Refresh Rate	60Hz
	Brightness	340nit (typical, @5point)
	Pixel Resolution	2560 x 1440
	Interface	eDP 1.3+PSR (4 lane)
	LCD Mode	IPS
	PPI	210
	Viewing Angle	UWVA 85/85/85/85

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

STORAGE AND DRIVES

128 GB M2 2280 SATA-3 TLC SSD	Drive Weight	0.019lb ~ 0.022lb	
	Capacity	128 GB	
	Height	0.09 in (2.3 mm)	
	Width	0.87 in (22 mm)	
	Interface	ATA-8, SATA 3.0	
	Performance	**Maximum Sequential Read**	**Maximum Sequential Write**
		Up to 540 MB/s	Up to 300 MB/s
	Logical Blocks	250069680	
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]	
	Features	DIPM; TRIM; DEVSLP	
	Security Features	ATA security	

180 GB M2 2280 SATA-3 MLC SSD	Drive Weight	0.022 lb (<10 g)	
	Capacity	180 GB	
	Height	0.09 in (2.23 mm)	
	Width	0.87 in (22 mm)	
	Interface	ATA-8, SATA 3.0, ACS-3, SATA 3.2	
	Performance	**Maximum Sequential Read**	**Maximum Sequential Write**
		Up to 540 MB/s	UP to 490 MB/s
	Logical Blocks	351651888	
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]	
	Features	DIPM; TRIM; DEVSLP	
	Security Features	ATA Security	

180 GB M2 2280 SATA-3 Self-Encrypting Drive (Opal 2) MLC SSD	Drive Weight	0.022 lb (<10 g)	
	Capacity	180 GB	
	Height	0.09 in (2.23 mm)	
	Width	0.87 in (22 mm)	
	Interface	ATA-8, SATA 3.0, ACS-3, SATA 3.2	
	Performance	**Maximum Sequential Read**	**Maximum Sequential Write**
		Up to 540 MB/s	UP to 490 MB/s
	Logical Blocks	351651888	
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]	
	Security Features	ATA Security, TCG OPAL 2.x	

240 GB M2 2280 SATA-3 MLC SSD	Drive Weight	0.022 lb (<10 g)
	Capacity	240 GB

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Technical Specifications

Height	0.14 in (3.58 mm)	
Width	0.87 in (22 mm)	
Interface	ACS–3, SATA 3.2	
Performance	**Maximum Sequential Read**	**Maximum Sequential Write**
	Up to 540 MB/s	UP to 490 MB/s
Logical Blocks	468862128	
Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]	
Features	DIPM; TRIM; DEVSLP	
Security Features	ATA Security	

256 GB M2 2280 PCIe-3x4 NVMe SSD		
Drive Weight	0.022 lb. (<10 g)	
Capacity	256 GB	
Height	0.09 in (23mm)	
Width	0.87 in (22.1mm)	
Interface	PCIe GEN3X4	
Performance	**Maximum Sequential Read**	**Maximum Sequential Write**
	Up to 2260 MB/s	Up to 1260 MB/s
Logical Blocks	500,118,192	
Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]	
Features	ATA Security; TRIM; L1.2	

256 GB M2 2280 SATA-3 Self-Encrypting Drive (Opal 2) MLC SSD		
Drive Weight	0.02 lb (<10 g)	
Capacity	256 GB	
Height	0.14 in (3.58 mm) ~ 0.09 in (2.23 mm)	
Width	0.87 in (22 mm)	
Interface	ATA-8, SATA 3.0	
Performance	**Maximum Sequential Read**	**Maximum Sequential Write**
	Up to 540 MB/s	UP to 460 MB/s
Logical Blocks	500,118,192	
Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]	
Features	DIPM; TRIM; DEVSLP	
Security Features	ATA Security; TCG Opal 2.0	

256 GB M2 2280 SATA-3 TLC SSD		
Drive Weight	0.019 lb (8.5 g) ~ 0.022 lb (10 g)	
Capacity	256 GB	
Height	0.09 in (2.3 mm)	
Width	0.87 in (22 mm)	
Interface	ATA-8, SATA 3.0	
Performance	**Maximum Sequential Read**	**Maximum Sequential Write**
	Up to 540 MB/s	Up to 455 MB/s
Logical Blocks	500118192	
Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]	

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Technical Specifications

	Features	DIPM; TRIM; DEVSLP	
	Security Features	ATA Security	

512 GB M2 2280 SATA-3 TLC SSD	Drive Weight	0.019 lb (8.5 g) ~ 0.02 lb (10 g)	
	Capacity	512 GB	
	Height	0.09 in (2.3 mm)	
	Width	0.87 in (22 mm)	
	Interface	ATA-8, SATA 3.0	
	Performance	**Maximum Sequential Read**	**Maximum Sequential Write**
		Up to 540 MB/s	UP to 500 MB/s
	Logical Blocks	1000215216	
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]	
	Features	DIPM; TRIM; DEVSLP	
	Security Features	ATA Security	

NETWORKING/COMMUNICATIONS

HP lt4120 Qualcomm® Snapdragon™ X5 LTE Mobile Broadband Module

Technology/Operating bands	LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3), 1700/2100 (Band 4), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 17 lower), 800 (Band 20), 700 (Band 28). HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4), 850 (Band 5), 900 (Band 8) MHz EV-DO: 850 (BC0), 1900 (BC1) MHz (Only work with Verizon network) 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 1xEVDO Release 0, A and B. E-GPRS: Class B, Multi-slot class 12, coding schemes CS1 - CS4 and MSC1 - MSC9
GPS	Standalone, A-GPS (MS-A, MS-B and XTRA)
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) HSPA+: 21Mbps (Download), 5.76 Mbps (Upload) CDMA 1xRTT: 153.6 kbps (Download), 153.6 kbps (Upload) EVDO Rel.A: 3.1 Mbps (Download), 1.8 Mbps (Upload) EVDO Rel.B: 14.7 Mbps (Download), 5.4Mbps (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 1xRTT/EVDO: 24dBm E-GPRS 1900/1800: 26 dBm

Not all configuration components are available in all regions/countries.
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	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)
	1xRTT/EVDO: 1,000 mA (peak); 700 mA (average)
	E-GPRS: 2,800 mA (peak); 500 mA (average)
Form Factor	M.2, 3042-S3 Key B
Weight	6.2 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 hs3110 HSPA+ Intel® Mobile Broadband Module*

Technology/Operating bands	HSPA+: 2100 (Band1), 1900 (Band 2), 1700 (Band 4), 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
GPS	Standalone, A-GPS
GPS bands	1575.42 MHz ± 1.023 MHz
Maximum data rates	HSPA+: 21.6 Mbps (Download), 5.76 Mbps (Upload)
	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, 3042-S3 Key B
Weight	6 g
Dimensions (Length x Width x Thickness)	1.65 x 1.18 x 0.09 in (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.

Intel® Dual Band Wireless AC-8260 802.11 a/b/g/n ac (2x2) Bluetooth® 4.2 Combo

Wireless LAN Standards	IEEE 802.11a

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Interoperability	IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac 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.

- WPA2 certification

- IEEE 802.11i

- Cisco Certified Extensions, all versions through CCX4 and CCX Lite

- WAPI

Network Architecture	Ad-hoc (Peer to Peer)
Models	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)

Technical Specifications

	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 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)
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

Not all configuration components are available in all regions/countries.
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	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) BLE Up to 99 ft (30 m)
Electrical Interface	USB 2.0 compliant
Bluetooth Software Supported **Link Topology**	Microsoft Windows Bluetooth Software
Electrical Interface	Point to Point, Multipoint Pico Nets up to 7 slaves
Bluetooth Software Supported **Security**	Full support of Bluetooth Security Provisions
Power Management **Certifications**	Microsoft Windows ACPI, and USB Bus Support 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 **Bluetooth Profiles Supported**	FCC (47 CFR) Part 15C, Section 15.247 & 15.249
Power Management **Certifications**	ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark 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]
Certifications **Bluetooth Profiles Supported**	Hard Copy Cable Replacement (HCRP)[1,2] Personal Area Networking Profile (PAN)[1,2] Human Interface Device Profile (HID)[1,2] Hands Free Profile (HFP) Advanced Audio Distribution Profile (A2DP) Audio Video Remote Control Profile (AVRCP)
Bluetooth V4.1/V4.2 support feature	V4.1: ESR5/6/7 compliant V4.2: ESR8 compliant, LE Secure Connection – Basic.

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POWER

45W 2-prong AC Adapter	Dimensions	95mm x 40mm mm x 26.5 mm	
	Input	90 to 265 VAC	
		Input Efficiency	'87.74% min at 115V/230V
		Input frequency range	47 to 63 Hz
		Input AC current	1.4 A at 90 VAC
	Output	Output power	45W
		DC output	19.5V
		Hold-up time	5 msec at 115 VAC input
		Output current limit	<8.0A
	Connector	2 pin/non-grounded, mates with Smart ID DC connector	
	Environmental Design	Operating temperature	32° to 95° F (0° to 35° C)
		Non-operating (storage) temperature	–4° to 185° F (–20° to 85° C)
		Altitude	0 to 16,400 ft (0 to 5,000 m)
		Humidity	20% to 95%
		Storage Humidity	10% to 95%
	EMI and Safety Certifications	CE Mark – 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.	
45W Smart AC Adapter	Dimensions Weight	3.74 x 1.57 x 1.04 in (9.5 x 4.0 x 2.65 cm) 0.386 lb (175g) max	
	Input	90 to 265 VAC	
		Input Efficiency	'87.74% min at 115V/230V
		Input frequency range	47 to 63 Hz
		Input AC current	1.4 A at 90 VAC
	Output	Output power	45W
		DC output	19.5V
		Hold-up time	5 msec at 115 VAC input
		Output current limit	<8.0A
	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 185° F (–20° to 85° C)
		Altitude	0 to 16,400 ft (0 to 5,000 m)
		Humidity	20% to 95%
		Storage Humidity	10% 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	

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

65W Smart EM AC Adapter	Dimensions	4.98 x 1.97 x 1.18 in (12.65 x 5.0 x 3.0 cm)	
	Weight	0.62 lb (290g) max	
	Input	90 to 265 VAC	
		Input Efficiency	87% min at 115 VAC
		Input frequency range	47 to 63 Hz
		Input AC current	1.7 A at 90 VAC
	Output	**Output power**	65W
		DC output	19.5V
		Hold-up time	5 msec at 115 VAC input
		Output current limit	<11.0A
	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 185° F (-20° to 85° C)
		Altitude	0 to 16,400 ft (0 to 5,000 m)
		Humidity	20% to 95%
		Storage Humidity	10% 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. * MTBF - over 200,000 hours at 25°C ambient condition.	
65W Slim Travel AC Adapter	Dimensions	120mm x 57.6mm x 16.7mm	
	Weight	0.55 lb (250g) max	
	Input	90 to 265 VAC	
		Input Efficiency	'87% min at 115V/230V
		Input frequency range	47 to 63 Hz
		Input AC current	1.7 A at 90 VAC
	Output	**Output power**	65W
		DC output	19.5V
		Hold-up time	5 msec at 115 VAC input
		Output current limit	< 11A
	Connector	3 pin/grounded, mates with Smart ID DC connector	
	Environmental Design	**Operating temperature**	32° to 95° F (0° to 35° C)
		Non-operating (storage) temperature	-4° to 185° F (-20° to 85° C)

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	Altitude	0 to 16,400 ft (0 to 5,000 m)
	Humidity	20% to 95%
	Storage Humidity	10% to 95%
EMI and Safety Certifications	*CE Mark - 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 6-Cell (45.6 Whr) polymer long life battery	**Dimensions** (H x W x L)	268mm x 108.1mm x 7.85mm	
	Weight	0.49lb+/-0.02lb (0.221kg+/-0.010kg)	
	Cells/Type	COSLIGHT CA295386HV/LISHEN SP295380SE	
	Energy	**Voltage**	11.4V
		Amp-hour capacity	4.02Ah
		Watt-hour capacity	45.6Wh
	Temperature	**Operating (Charging)**	0℃~ 45℃
		Operating (Discharging)	-10℃~ 60℃
		Non-operating	-20℃~ 60℃1 month -20℃~ 45℃3 month -20℃~ 30℃6 month
	Battery Re-Charge Time	**System in OFF or Standby Mode**	System off within 3 hours
	Fuel Gauge LED	No	
	Warranty	1 years	
	Optional Travel Battery Available	No	

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, 60Hz**	**230VAC, 50Hz**	**100VAC, 60Hz**
Normal Operation (Short idle)	8.06 W	8.13 W	8.01 W
Normal Operation (Long idle)	2.65 W	2.68 W	2.65 W
Sleep	0.37 W	0.38 W	0.37 W
Off	0.16 W	0.18 W	0.16 W

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Technical Specifications

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 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, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation (Short idle)	28 BTU/hr	28 BTU/hr	27 BTU/hr
Normal Operation (Long idle)	9 BTU/hr	9 BTU/hr	9 BTU/hr
Sleep	1 BTU/hr	1 BTU/hr	1 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	2.6	14
Fixed Disk – Random writes	2.8	18

Longevity and Upgrading This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include:

- 3 USB ports
- 1 PC card slot (type I/II)
- 1 ExpressCard/54 slot
- 1 IEEE 1394 Port
- 2 SODIMM memory slots
- Optional expansion base docking station
- 1 multi-bay II storage port
- Interchangeable HDD

Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.

Batteries 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
Battery size: 6-cell high capacity Lithium-Ion battery (optional 8 cell available)
Battery type:

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

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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 97.2% recycle-able when properly disposed of at end of life.

Packaging Materials

External:	PAPER/Corrugated	337.2 g
Internal:	PLASTIC/EPE (Expanded Polyethylene)	21.7 g
	PLASTIC/Polyester	20 g

The plastic packaging material contains at least 0% recycled content.
The corrugated paper packaging materials contains at least 80% 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)

Not all configuration components are available in all regions/countries.
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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.
Hewlett-Packard Corporate Environmental Information	For more information about HP's commitment to the environment: Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html 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)

Type	Description	Part Number
Cases	HP Business Slim Top Load (up to 14.1" x .75" thick)	H5M91AA
	HP Executive Leather Messenger (up to 14.0" x 1")	K0A31AA
	HP Slim Ultrabook Messenger (up to 15.6" x .88"/22/5mm)	F3W14AA
	HP Slim Ultrabook Top Load (up to 15.6" x .88"/22/5mm)	F3W15AA
	HP Slim Ultrabook Backpack (up to 15.6" x .88"/22/5mm)	F3W16AA
Stands	HP Adjustable Dual Monitor Stand	AW664AA#xxx
	HP Display and Notebook Stand II	E8G00AA#xxx
Docking	HP UltraSlim Docking Station	D9Y32AA
Input Devices	HP Wireless Mobile Mouse	H2L63AA
	HP X4000b Bluetooth Mouse	H3T50AA#xxx
	HP Ultra Mobile Wireless Mouse	H6F25AA
	HP USB Travel Mouse	G1K28AA
	HP Stylish Wireless KB/Mouse	H4B79AA
Adapters	USB Graphics Adapter (DBU PL)	NL571AA/AT
	HP DisplayPort to HDMI 1.4 Adapter	F3W43AA
	HP DisplayPort to DVI Adapter	F7W96AA
	HP DisplayPort to VGA Adapter	F7W97AA
	HP Dock Connector to Ethernet/VGA Adapter	G7U78AA
	HP Wireless Display Adapter	J1V25AA#xxx
Power Adapters	HP 45W Smart AC Adapter (4.5mm) (PL MP only)	H6Y88AA#xxx
	HP 65W Smart AC Adapter (4.5mm)	H6Y89AA#xxx
	HP 65W Slim AC Adapter	H6Y82AA#xxx
	HP 65W Smart Travel AC Adapter	J0E43AA#xxx
Security	HP Keyed Cable Lock 10mm	T1A62AA
Storage	HP External USB Optical Drive	F2B56AA
Monitors	HP EliteDisplay S270c	
	HP EliteDisplay E272q	K1M38AA
	HP EliteDisplay E240c	M1P04AA
	HP EliteDisplay S140u	M1P00AA
	HP EliteDisplay S240ml	G8R65AA
		F4M47AA

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Summary of Changes

Date of change	Version History		Description of change:
January 21, 2016	Version 1 to 2	Added	Environmental data

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

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