Overview

HP EliteBook x360 1030 G4



- 1. IR Camera LEDs
- 2. Internal Microphones
- 3. Webcam and IR Camera
- 4. Webcam LED
- 5. Glass Clickpad

Left

- 6. WWAN SIM (Nano)
- 7. Power Button
- 8. Audio Combo Jack
- 9. USB 3.1 Gen 1 Charging Port



Overview



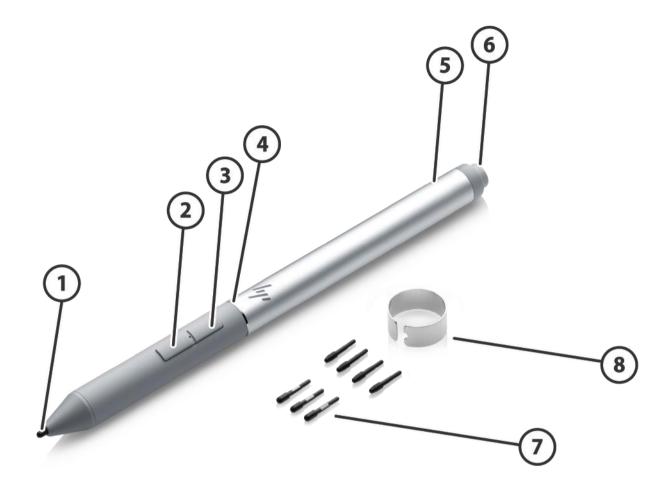
- 1. HDMI port (Cable not included)
- 2. Nano Security Lock Slot (Lock sold separately)
- 3. USB Type-C[™] with Thunderbolt[™]

Right

- 4. USB Type-C[™] with Thunderbolt[™]
- 5. Volume Up/Down
- 6. Touch Fingerprint Sensor



Overview



- 1. Tip
- 2. Erase
- 3. Select
- 4. Diamond-cut ring

- Pen
- 5. USB-C Charging Port (System AC adapter may be used to charge the pen)
- 6. BT Pairing / Application Launch
- 7. Spare Pen Tips (3 elastomer tips, 4 POM tips. POM tips are recommended for use with anti-glare panels)
- 8. Pen tip removal tool



Overview

AT A GLANCE

- All metal CNC Aluminum chassis that is .62 inches (1.58 cm) thin and with a starting weight of 2.78 lbs. (1.26 Kg)
- A 360° convertible notebook with 4 usage modes
- Choice of 8th Generation Intel[®] Core™ i7, i5 processors
- Display choices include 33.78 cm (13.3") diagonal IPS FHD touch screen or UHD touch screen. Brightness choices up to 1000 Nits. Optional Anti-glare screen available. Get added protection in open or public places with the optional HP Sure View Gen3 integrated privacy screen.
- Connectivity with 4G/LTE WWAN, WLAN, USB Type-C[™], USB Type-A, HDMI and Thunderbolt[™] Docking
- Engage teams, clients, and vendors with the crystal-clear audio by Bang & Olufsen and the high-performance HP Premium Collaboration Keyboard
- The updated optional HP Rechargeable Active Pen
- 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
- Choice of solid state drives up to 2 TB
- DDR3 Memory up to 16 GB
- Up to 18 hours¹
- Preinstalled with Windows 10 versions or FreeDOS
- Passed 19 MIL-STD 810g tests²

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 http://www.bapco.com for additional details.

2. MIL-STD-810G is conducted on select HP products. Testing is not intended to demonstrate fitness of U.S. Department of Defense (DoD) contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. 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.



PRODUCT NAME

HP EliteBook x360 1030 G4

OPERATING SYSTEM

Pı	re	in	s	ta	แ	e	d

Windows® 10 Pro 64¹ Windows® 10 Pro 64 (National Academic License)² Windows® 10 Home 64¹ Windows® 10 Home Single Language 64¹ Windows® 10 Enterprise 64 (Web Support)¹ FreeDOS

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.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[™] i7-8665U vPro[™] processor with Intel[®] UHD Graphics 620 (1.8 GHz base frequency, up to 4.8 GHz with Intel[®] Turbo Boost Technology, 8 MB L3 cache, 4 cores)^{3,4,5,6,7,8}

Intel[®] Core[™] i7-8565U with Intel[®] UHD Graphics 620 (1.8 GHz base frequency, up to 4.6 GHz with Intel[®] Turbo Boost Technology, 8 MB L3 cache, 4 cores)^{3,4,5,6}

Intel[®] Core[™] i5-8365U vPro[™] processor with Intel[®] UHD Graphics 620 Graphics (1.6 GHz base frequency, up to 4.1 GHz with Intel[®] Turbo Boost Technology, 6 MB L3 cache, 4 cores)^{3,4,5,6,7,8}

Intel[®] Core[™] i5-8265U with Intel[®] UHD Graphics 620 Graphics (1.6 GHz base frequency, up to 3.9 GHz with Intel[®] Turbo Boost Technology, 6 MB L3 cache, 4 cores)^{3,4,5,6}

Processor Family

8th Generation Intel[®] Core[™] i7 processor (i7-8565U, i7-8665U)⁶ 8th Generation Intel[®] Core[™] i5 processor (i5-8265U, i5-8365U)⁶

3. 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, branding and/or naming is not a measurement of higher performance.

4. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode. 5. Intel[®] Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost for more information.

6. 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.

7. Some functionality of vPro, such as Intel Active management technology and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications for Intel vPro technology is dependent on 3rd party software providers. Compatibility with future "virtual appliances" is yet to be determined.

8. For full Intel[®] vPro[™] functionality, Windows, a vPro supported processor, vPro enabled chipset, vPro enabled WLAN card and discrete TPM 2.0 are required. See http://Intel.com/vpro.



CHIPSET

Chipset is integrated with processor.

GRAPHICS

Integrated Intel® UHD Graphics 620⁹

Supports Support HD decode, DX12, HDMI 1.4b

9. HD content required to view HD images.

DISPLAY

Touch FHD

33.8 cm (13.3") diagonal FHD IPS eDP + PSR BrightView LED-backlit touch screen direct bonded with Corning[®] Gorilla[®] Glass 5, 400 nits, 72% NTSC (1920 x 1080)^{9,10,11}

33.8 cm (13.3") diagonal FHD IPS eDP + PSR anti-glare LED-backlit touch screen direct bonded with Corning[®] Gorilla[®] Glass 5, 400 nits, 72% NTSC (1920 x 1080)^{9,10,11}

Touch UHD

33.8 cm (13.3") diagonal 4K IPS eDP + PSR BrightView LED-backlit touch screen direct bonded with Corning[®] Gorilla[®] Glass 5, 500 nits, 72% NTSC (3840 x 2160)^{9,10,11}

Touch FHD Privacy Panel

HP Sure View Integrated Privacy Screen 33.8 cm (13.3") diagonal FHD IPS eDP + PSR BrightView LED-backlit touch screen direct bonded with Corning[®] Gorilla[®] Glass 5, 1000 nits, 72% NTSC (1920 x 1080)^{9,10,11,12,13} HP Sure View Integrated Privacy Screen 33.8 cm (13.3") diagonal FHD IPS eDP + PSR anti-glare LED-backlit touch screen direct bonded with Corning[®] Gorilla[®] Glass 5, 1000 nits, 72% NTSC (1920 x 1080)^{9,10,11,12,13}

Displays Support

Supports dual display through the dock

9. HD content required to view HD images.

10. Sold separately or as an optional feature.

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

12. HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and functions in landscape orientation.

13. Planned to be available in September 2019



STORAGE AND DRIVES

Primary M.2 Storage 2 TB PCIe[®] Gen3x4 NVMe[™] SS TLC¹⁵ 1 TB PCIe[®] Gen3x4 NVMe[™] SS TLC¹⁵ 512 GB Intel[®] PCIe[®] NVMe[™] QLC M.2 SSD with 32 GB Intel[®] Optane[™] memory H10^{14,15,16,17} 512 GB PCIe[®] Gen3x4 NVMe[™] SS TLC Opal 2¹⁵ 512 GB PCIe[®] Gen3x4 NVMe[™] SS TLC¹⁵ 512 GB PCIe[®] NVMe[™] SS Value¹⁵ 256 GB SATA-3 SED TLC Opal 2¹⁵ 256 GB PCIe[®] Gen3x4 NVMe[™] SS TLC¹⁵ 256 GB PCIe[®] NVMe[™] SS Value¹⁵ 256 GB PCIe[®] NVMe[™] SS Value¹⁵ 256 GB Intel[®] PCIe[®] NVMe[™] SS Value¹⁵ 256 GB Intel[®] PCIe[®] NVMe[™] QLC M.2 SSD with 16 GB Intel[®] Optane[™] memory H10^{15,16,17} 128 GB SATA-3 SS TLC¹⁵

14. Planned to be available in November 2019
15. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for system recovery software.
16. Intel® Optane[™] memory system acceleration does not replace or increase the DRAM in your system. Requires 8th Gen or higher Intel® Core[™] processor, BIOS version with Intel® Optane[™] supported, Windows 10 64-bit, and an Intel® Rapid Storage Technology (Intel® RST) driver.
17. Intel® Optane[™] memory H10 only for Intel® PCIe® NVMe[™] QLC M.2 SSD.

MEMORY

Maximum Memory 16 GB LPDDR3-2133 SDRAM¹⁸

Memory

16 GB LPDDR4-2133 SDRAM¹⁸ 8 GB LPDDR4-2133 SDRAM¹⁸

Memory Slots

Memory soldered down (Non accessible by customer) Supports Dual Channel Memory System runs at 2133

18. Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.

NETWORKING/COMMUNICATIONS

WLAN

Intel[®] AX200 (2x2) + BT5 Wi-Fi 6* and Bluetooth[®] 5 Combo, vPro^{™10,19*} Intel[®] AX200 (2x2) + BT5 Wi-Fi 6* and Bluetooth[®] 5 Combo, non-vPro^{™10,19}

WWAN

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Intel<sup>®</sup> XMM<sup>™</sup> 7360 LTE-Advanced<sup>20</sup>
Intel<sup>®</sup> XMM<sup>™</sup> 7560 LTE-Advanced<sup>22</sup>
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NFC

NXP NPC300 Near Field Communication module



Miracast

Native Miracast Support²¹

Ethernet

No direct Ethernet Support - Ethernet via accessories

10. Sold separately or as an optional feature.

19. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 (802.11ax) are draft 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 802.11ax devices. Only available in countries where 802.11ax is supported.

20. WWAN is an optional feature, requires factory configuration and separately purchased service contract. Check with service provider for coverage and availability in your area. 4G LTE not available on all products, in all regions.

21. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.

22. Gigabit class 4G LTE module is optional and must be configured at the factory. The full utilization of this module's Gigabit functionality is dependent on network providers' technical ability to support this network and speed. Backwards compatible to HSPA 3G technologies. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.

*For full Intel[®] vPro[™] functionality, Windows, a vPro supported processor, vPro enabled chipset, vPro enabled WLAN card and discrete TPM 2.0 are required. See http://Intel.com/vpro

AUDIO/MULTIMEDIA

Audio

Bang & Olufsen 4 Premium Stereo Speakers; 1609 x 2pcs, 1338 x 2pcs Microphones (Multi Array including World-Facing 3rd Mic) 4 Discrete Amplifiers

Camera

1080p FHD camera⁹

Webcam

IR Camera²³

Sensors

Accelerometer Magnetometer Gyroscope Ambient light sensor Hall Sensor

9. HD content required to view HD images.
 23. Internet access required.



Technical Specifications

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Premium Collaboration Keyboard Backlit, Spill-resistant, with HP Dura Keys

Pointing Device

Glass Clickpad Microsoft Precision Touchpad Default Gestures Support

Function Keys

- F1 Display Switching
- F2 Sure View (blank if not supported)
- F3 Brightness Down
- F4 Brightness up
- F5 Audio Mute
- F6 Volume Down
- F7 Volume Up
- F8 Mic Mute
- F9 Kybd Backlight
- F10 NumLock
- F11 Wireless
- F12 Calendar
- > Share/Present
- > Pick Up/Accept/ Answer/Hold
- > Hang Up/Decline/ Reject
- > Delete
- > FN key lock

Hidden Function Keys

Fn+E - Insert Fn+W - Pause

Clickpad Requirements

Glass Clickpad Microsoft Precision Touchpad Default Gestures Support FW PTP with Filter Driver



SOFTWARE AND SECURITY

Preinstalled Software

BIOS HP BIOSphere Gen5²⁴ HP Drive Lock & Automatic Drive Lock²⁵ BIOS Update via Network Master Boot Record Security Power On Authentication Secure Erase²⁶ Absolute Persistence Module²⁷ Pre-boot Authentication

Software

HP Native Miracast Support²⁸ HP Connection Optimizer HP Image Assistant HP Hotkey Support HP JumpStart HP Support Assistant²⁹ HP Noise Cancellation Software Buy Office (Sold separately)

Manageability Features

HP Driver Packs³⁰ HP System Software Manager (SSM) HP BIOS Config Utility (BCU) HP Client Catalog HP Manageability Integration Kit Gen3³¹ HP Cloud Recovery³²

Client Security Software

HP Client Security Manager Gen5³³ HP Fingerprint Sensor³⁴ HP Power On Authentication Windows Defender³⁵

Security Management

Pre-boot Authentication TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified)³⁶ USB enable/disable (via BIOS) Power-on password (via BIOS) Setup password (via BIOS) Support for chassis padlocks and cable lock devices



Technical Specifications

- HP Sure Click³⁷
- HP Sure Start Gen5³⁸
- HP Sure Run Gen2³⁹
- HP Sure Recover Gen2⁴⁰
- HP Sure Sense⁴¹

24. HP BIOSphere Gen5 is available on select HP Pro and Elite PCs. See product specifications for details. Features may vary depending on the platform and configurations.

25. HP Drive Lock & Automatic Drive Lock is not supported on NVMe drives

26. HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel[®] Optane[™].

27. 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.

28. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming. 29. HP Support Assistant requires Windows and Internet access.

30. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.

31. HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement.

32. HP Cloud Recovery is available for HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, wired network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: https://support.hp.com/us-en/document/c05115630

33. HP Client Security Manager Gen5 requires Windows and is available on the select HP Pro and Elite PCs. See product specifications for details.

34. HP Fingerprint Sensor sold separately or as an optional feature.

35. Windows Defender Opt in and internet connection required for updates.

36. Firmware TPM is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).re TPM is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).

37. HP Sure Click is available on select HP platforms and supports Microsoft Internet Explorer, Google Chrome™, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office or Adobe Acrobat are installed.

38. HP Sure Start Gen5 is available on select HP PCs with Intel processors. See product specifications for availability.39. HP Sure Run Gen2: See product specifications for availability.

40. HP Sure Recover Gen2: See product specifications for availability. Requires an open, wired network connection. Not available on platforms with multiple internal storage drives. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. HP Sure Recover (Gen1) does not support platforms with Intel[®] Optane[™].

41. HP Sure Sense requires Windows 10. See product specifications for availability.



Technical Specifications

POWER

Power Supply

65 W USB Type-C[™] adapter⁴² Supports HP Fast Charging (Up to 50% in 30 minutes)

Primary Battery

HP Long Life 4-cell, 56.2 Wh Li-ion polymer⁴³ HP Fast Charging Up to 50% in 30 minutes⁴⁴

Battery Life

Up to 18 hours (With FHD panel)⁴⁵ Up to 13 hours 30 mins (With 4K/UHD panel)

Power Cord

Duckhead power cord (C5NS), 1.0m, Sticker, Premium Black (For Hades+)⁴² Power Cord C5 Sticker, Premium 1.0m⁴²

42. Availability may vary by country.

43. Battery is internal and not replaceable by customer. Serviceable by warranty.

44. Recharges the battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.

45. 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 http://www.bapco.com for additional details.

WEIGHTS & DIMENSIONS

Weight

Starting at 2.78 lbs⁴⁶ Starting at 1.27 kg⁴⁶

Dimensions (w x d x h)

12.04 x 8.07 x 0.62 in 30.58 x 20.5 x 1.58 cm

46. Weight will vary by configuration.

PORTS/SLOTS

Ports

2 Thunderbolt[™] (USB Type-C[™] Connector, Support Power Delivery 3.0)
1 USB 3.1 Gen 1 (Charging)
1 HDMI 1.4⁴⁷
1 External Nano SIM slot for WWAN
1 Headphone/microphone combo

47. HDMI cable sold separately.



SERVICE AND SUPPORT

HP Services offers 1-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year limited warranty as the platform. Refer to http://www.hp.com/support/batterywarranty/ for additional battery information. Onsite 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.⁴⁸

48. HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit http://www.hp.com/go/cpc. 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.

ENVIRONMENTAL & INDUSTRY

Environmental Data	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 [®]		
		according to IEEE 1680	tered in the United States. Ba 0.1-2018 EPEAT®. Status registration status in your co	varies by country. See
	System Configuration		the Energy Consumption and del is based on a "Typically C	
	Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
	Normal Operation	6.02 W	6.06 W	6.08 W
	(Sort idle)			
	Normal Operation	2.58 W	2.56 W	2.65 W
	(Long idle)			
	Sleep	0.58 W	0.62 W	0.64 W
	Off	0.43 W	0.47 W	0.43 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 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, 50Hz
Normal Operation (Short idle)	21 BTU/hr	21 BTU/hr	21 BTU/hr
Normal Operation (Long idle)	9 BTU/hr	9 BTU/hr	9 BTU/hr
Sleep	2 BTU/hr	2 BTU/hr	2 BTU/hr
Off	1 BTU/hr	2 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	2.8	18
Fixed Disk – Random writes	4	33
Longevity and Upgrading	Upgradeable features and/or compon • 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 sta • 1 multi-bay II storage port • Interchangeable HDD	ly extending its useful life by several years. ents contained in the product may include: ation the warranty period and or for up to "5"
Batteries	This battery(s) in this product comply Batteries used in the product do not c Mercury greater the1ppm by weight Cadmium greater than 20ppm by weig Battery size: Not Applicable Battery type: Not Applicable	ontain:



Additional Information	Sub • This Elec • This Cali • This the • Plas per • This	s product is in compliance with the Restrictions of Haz stances (RoHS) directive - 2011/65/EC. HP product is designed to comply with the Waste Electronic Equipment (WEEE) Directive - 2002/96/EC. product is in compliance with California Proposition (fornia; Safe Drinking Water and Toxic Enforcement Ac product is in compliance with the IEEE 1680.1 (EPEA <silver> level, see www.epeat.net stics parts weighing over 25 grams used in the produc ISO11469 and ISO1043. product contains 4.8% post-consumer recycled plast product is 93.2% recycle-able when properly dispose</silver>	ctrical and 55 (State of t of 1986). T) standard at t are marked tic (by wt.)
Packaging Materials	External:	PAPER/Corrugated	341 g
	Internal:	PAPER/Molded Pulp	157 g
		PLASTIC/Polyethylene low density - LDPE	9 g
Material Usage	regulatory li http://www. • Asbestos • Certain Azo • Certain Bro plastics • Cadmium • Chlorinated • Chlorinated • Chlorinated • Halogenate • Halogenate • Lead carbo • Lead and L • Mercuric O • Nickel – f frequently h • Ozone Dep • Polybromin • Polybromin • Polybromin • Polybromin • Polybromin • Polychlorir • Polychlorir • Polychlorir • Polychlorir	ominated Flame Retardants – may not be used as flar d Hydrocarbons d Paraffins	Environment at se.pdf: me retardants in designed to be



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	HP Inc. offers end-of-life HP product return and recycling programs in many
and Recycling	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	For more information about HP's commitment to the environment:
Environmental	Global Citizenship Report
Information	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://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product _Design_ISO_14K_Certificate.pdf
	and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf



Technical Specifications

SYSTEM UNIT

Average Operating PoweWin 10Integrated GraphicsYesMax Operating PowerUMA 4 55WTemperatureOperating22* to 95°F (0* to 35°C) (not writing optical)Relative HumidityOperating22* to 95°F (0* to 35°C) (not writing optical)Relative HumidityOperating22* to 95°F (0* to 35°C) (not writing optical)ShockOperating60.5 cm s, half-sineMon-operating0.6 cm s, half-sineNon-operating1.043 grmsNon-operating3.5 grmsAttitude (unpressurized)Operating50 to 10,000 ft (-15.24 to 3,048 m)Non-operating50 to 10,000 ft (-15.24 to 3,048 m)Non-operating50 to 10,000 ft (-15.24 to 3,048 m)CertificationsULYesCertificationsULYesENERGY STAR*YesENERGY STAR*YesENERGY STAR*YesICESYesICESYesICESYesICESYesICESYesICESYesICESYesICEN OPUIDIACEYesISMIYesICEYesICEN OPUIDIACEYesICEN OPUIDIACEYesICE	Stand-Alone Power Requirements (AC Power)	Nominal Operating Voltage	AC 15V																																																																																				
Nax Operating PowerUMA < 45W		Average Operating Power	Win 10																																																																																				
TemperatureOperating32° to 95° F (0° to 35° C) (writing optical)Non-operating41° to 95° F (5° to 35° C) (writing optical)Relative HumidityOperating32° to 95° F (0° to 35° C) (writing optical)Non-operating240 G, 2 ms, half-sineShockOperating240 G, 2 ms, half-sineRandom VibrationOperating240 G, 2 ms, half-sineNon-operating3.5 grmsAltitude (unpressurized)Operating-50 to 10,000 ft (-15.24 to 3,048 m)Non-operating-50 to 10,000 ft (-15.24 to 12,192 m)Planned Industry StandardUVesCSAVesVesFCC ComplianceYesFCC ComplianceVesENERGY STAR*VesVesStataliaNot-DifferVesFCC ComplianceYesVesStataliaNotaliaVesVCI ComplianceYesJapan VCCI ComplianceYesKCYesBSMiGesCCCYesSMiSesGOSTYesGOSTYesGuid Arabia ComplianceYesSudi Arabia ComplianceYesKi ComplianceYesSMiSesGOSTYesGUSTYesSudi Arabia ComplianceYesGUSTYesSudi Arabia ComplianceYesSudi Arabia ComplianceYesSudi Arabia ComplianceYesSudi Arabia ComplianceYesSudi Arabia Complia		Integrated Graphics	Yes																																																																																				
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Yes</th><th></th><th>GOST</th><th>Yes</th></tr> <tr><th></th><th></th><th></th><th>Yes</th></tr> <tr><th>UKRSERTCOMPUTER Yes</th><th></th><th>SABS</th><th>Yes</th></tr> <tr><th></th><th></th><th>UKRSERTCOMPUTER</th><th>Yes</th></tr>		Non-operating	3.5 grms	Planned industry Standard CertificationsULYesCSAYesFCC ComplianceYesFCC ComplianceYesENERGY STAR*YesEPEAT* 2019Yes, Gold in U.S.50ICESYesAustraliaYesCCCYesJapan VCCI ComplianceYesKCYesBSMIYesCEMarking ComplianceYesBSMIYesCITYesGOSTYesGOSTYesSABSYes	Altitude (unpressurized)	Operating	-50 to 10,000 ft (-15.24 to 3,048 m)	CertificationsCSAYesFCC ComplianceYesFCC ComplianceYesENERGY STAR°Yes, Gold in U.S.50ICESYesAustraliaYesNZ A-Tick ComplianceYesICECYesJapan VCCI ComplianceYesKCYesBSMIYesCEE Marking ComplianceYesICEN OR BELUSYesICTYesICTYesGOSTYesSABSYesYesYes		Non-operating	-50 to 40,000 ft (-15.24 to 12,192 m)	FCC ComplianceYesFCC ComplianceYes<49EPEAT® 2019Yes, Gold in U.S.50ICESYesAustraliaYesNZ A-Tick ComplianceYesICCCYesJapan 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49. Configurations of the HP EliteBook x360 1030 G4 that are ENERGY STAR[®] qualified are identified as HP EliteBook x360 1030 G4 ENERGY STAR on HP websites and on http://www.energystar.gov.

50. Based on US EPEAT[®] registration according to IEEE 1680.1-2018 EPEAT[®]. Status varies by country. Visit http://www.epeat.net for more information.



DISPLAYS

Panel LCD 13.3 inch diagonal	Outline Dimensions (W x H x D)	299.76 x 177.24 max. (FPC folding included)
FHD (1920 x 1080) BrightView WLED UWVA 72% NTSC	Active Area	293.76 x 165.24
400 nits eDP 1.3+PSR Ultraslim NB bent	Weight	170 g max.
	Diagonal Size	13.3"
	Thickness	2.0mm / 4.0mm (PCB) max.
	Interface	eDP 1.3 w/ PSR (2 lane)
	Surface Treatment	BV
	Touch Enabled	No
	Contrast Ratio	800:1
	Refresh Rate	60Hz
	Brightness	400 nits
	Pixel Resolution	1920 x 1280
	Format of LCD Pixel Arrangement	RGB strip
	Backlight	LED
	Color Gamut Coverage	72% of NTSC
	Color Depth	6 bits
	Viewing Angle	UWVA 85/85/85/85



Technical Specifications

Panel LCD 13.3 inch diagonal UHD (3840 x 2160) BrightView WLED UWVA 72% NTSC	Outline Dimensions (W x H x D)	299.26 x 177.51 (FPC folding included)
	Active Area	293.76 x 165.24 mm
500 nits eDP 1.3+PSR Ultraslim NB bent	Weight	190 g max.
	Diagonal Size	13.3"
	Thickness	2.0mm / 4.0mm (PCB) max.
	Interface	eDP 1.4a PSR (4 lane)
	Surface Treatment	BV
	Touch Enabled	NO
	Contrast Ratio	1400:1
	Refresh Rate	60 Hz
	Brightness	500 nits
	Pixel Resolution	3840 x 2160 (UHD)
	Format of LCD Pixel Arrangement	RGB strip
	Backlight	LED
	Color Gamut Coverage	72% of NTSC
	Color Depth	8 bits
	Viewing Angle	UWVA 85/85/85/85

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



STORAGE

SSD 128 GB 2280 M2 SATA-3 TLC

Form Factor	M.2 2280
Capacity	128 GB
NAND Type	TLC
Height	0.09 in (2.3 mm)
Width	0.87 in (22 mm)
Weight	0.02 lb (10 g)
Interface	ATA-8, SATA 3.0
Maximum Sequential Read	540 MB/s \sim 560 MB/s
Maximum Sequential Write	500 MB/s \sim 530 MB/s
Logical Blocks	250,069,680
Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
Features	DIPM; TRIM; DEVSLP

For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB of disk is reserved for system recovery software.

SSD 1 TB 2280 PCIe-3x4	Form Factor	M.2 2280
NVMe Three Layer Cell single-sided	Capacity	1 TB
Single Statu	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	Up To 2800 MB/s
	Maximum Sequential Write	Up To 1600 MB/s
	Logical Blocks	2,000,409,264
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security (Option); TRIM; L1.2

For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB of disk is reserved for system recovery software.

SSD 256 GB 2280 M2 PCIe-3x4 SS NVMe TLC

Form Factor	M.2 2280
Capacity	256 GB
NAND Type	TLC
Height	0.09 in (2.3 mm)
Width	0.87 in (22 mm)
Weight	0.02 lb (10 g)
Interface	PCIe NVMe Gen3X4



Technical Specifications

Maximum Sequential Read	2580 MB/s~ 2600 MB/s
Maximum Sequential Write	900 MB/s~ 1000 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

For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB of disk is reserved for system recovery software.

SSD 256 GB 2280 M2 SATA-3	Form Factor	M.2 2280
Self Encrypted OPAL2 Three Layer Cell	Capacity	256 GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	ATA-8, SATA 3.0
	Maximum Sequential Read	530 MB/s ~ 560 MB/s
	Maximum Sequential Write	500 MB/s~ 530 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
For storage drives, $CP = 1$ billion but $CP = 1$ trillion but C . Actual formatted capacity is loss. Up to 20CP of disk is received for		

For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB of disk is reserved for system recovery software.

SSD 2TB 2280 PCIe-3x4	Form Factor	M.2 2280
NVMe Three Layer Cell single-sided	Capacity	2 TB
Single Slaca	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	Up To 3000 MB/s
	Maximum Sequential Write	Up To 2100 MB/s
	Logical Blocks	3,907,029,168
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security; TCG OPAL 2.0;DIPM; TRIM; DEVSLP

For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB of disk is reserved for system recovery software.

SSD 512 GB 2280 M2 PCIe-3x4 SS NVMe TLC

Technical Specifications

Form Factor	M.2 2280	
Capacity	512 GB	
NAND Type	TLC	
Height	0.09 in (2.3 mm)	
Width	0.87 in (22 mm)	
Weight	0.02 lb (10 g)	
Interface	PCIe NVMe Gen3X4	
Maximum Sequential Read	2800 MB/s~ 2900 MB/s	
Maximum Sequential Write	1000 MB/s~ 1800 MB/s	
Logical Blocks	1,000,215,215	
Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]	
Features	ATA Security (Option); TRIM; L1.2	
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For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB of disk is reserved for system recovery software.

SSD 512 GB 2280 PCIe-3x4	Form Factor	M.2 2280
NVMe Self Encrypted OPAL2 Three Layer Cell	Capacity	512 GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	2800 MB/s ~ 2900 MB/s
	Maximum Sequential Write	1000 MB/s~ 1800 MB/s
	Logical Blocks	1,000,215,215
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security (Option); TCG Opal 2.0; TRIM; L1.2

For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB of disk is reserved for system recovery software.

SSD 512 GB 2280 PCIe **NVMe Value**

Form Factor	M.2 2280
Capacity	512GB
NAND Type	TLC
Height	0.09 in (2.3 mm)
Width	0.87 in (22 mm)
Weight	0.02 lb (10 g)
Interface	PCIe NVMe Gen3X4
Maximum Sequential Read	Up To 1700 MB/s



Technical Specifications

Maximum Sequential Write	Up To 1500 MB/s
Logical Blocks	1,000,215,215
Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
Features	ATA Security; TRIM; L1.2

For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB of disk is reserved for system recovery software.

SSD 256 GB 2280 PCIe	Form Factor	M.2 2280
NVMe Value	Capacity	256 GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	Up To 1700 MB/s
	Maximum Sequential Write	Up to 1300 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

For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB of disk is reserved for system recovery software.

512 GB 2280 PCle-3x2x2	Form Factor	M.2 2280
NVMe+SSD 32GB 3D Xpoint	Capacity	512 GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	Up To 2400 MB/s
	Maximum Sequential Write	Up To 1300 MB/s
	Logical Blocks	1,000,215,215
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security, TRIM; L1.2

For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB of disk is reserved for system recovery software.



NETWORKING/COMMUNICATIONS

Intel® XMM™ 7360 LTE- Advanced CAT9 ¹	Technology/Operating bands	FDD LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3), 1700/2100 (Band 4), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 1400 (Band 11), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 17 lower), 850 (Band 18 lower), 850 (Band 19 upper), 800 (Band 20), 1400 (Band 21), 850 (Band 26), 700 (Band 28), 700 (Band 29 RX only), 2300 (Band 30), 1700/2100 (Band 66). TDD LTE: 2600 (Band 38), 1900 (Band 39), 2400 (Band 40), 2500 (Band 41). HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4), 850 (Band 5), 900 (Band 8) MHz
	Wireless protocol standards	3GPP Release 11 LTE Specification CAT.9, DL 60MHz BW throughput up to 450Mbps; UL 20MHz throughput up to 50Mbps WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification
	GPS	Standalone, A-GPS (MS-A, MS-B)
	GPS bands	1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou 1561.098 MHz
	Maximum data rates	LTE: 450 Mbps (Download), 50 Mbps (Upload) DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21Mbps (Download), 5.76 Mbps (Upload)
	Maximum output power	LTE: 23 dBm HSPA+: 23.5 dBm
	Maximum power consumption	LTE: 1,200 mA (peak); 900 mA (average) HSPA+: 1,100 mA (peak); 800 mA (average)
	Form Factor	М.2, 3042-S3 Кеу В
	Weight	5.8 g
	Dimensions (Length x Width x Thickness)	42 x 30 x 2.3 mm

1. Mobile Broadband is an optional feature and requires configuration at time of purchase. 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.

Intel® XMM™ 7360 LTE- Technology/Operating Advanced CAT9 ¹ bands	 FDD LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3), 1700/2100 (Band 4), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 1400 (Band 11), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 17 lower), 850 (Band 18 lower), 850 (Band 19 upper), 800 (Band 20), 1400 (Band 21), 850 (Band 26), 700 (Band 28), 700 (Band 29 RX only), 2300 (Band 30), 1700/2100 (Band 66). TDD LTE: 2600 (Band 38), 1900 (Band 39), 2400 (Band 40), 2500 (Band 41). HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4), 850 (Band 5), 900 (Band 8) MHz
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Technical Specifications

Wireless protocol standards	3GPP Release 11 LTE Specification CAT.9, DL 60MHz BW throughput up to 450Mbps; UL 20MHz throughput up to 50Mbps WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification
GPS	Standalone, A-GPS (MS-A, MS-B)
GPS bands	1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou 1561.098 MHz
Maximum data rates	LTE: 450 Mbps (Download), 50 Mbps (Upload) DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21Mbps (Download), 5.76 Mbps (Upload)
Maximum output power	LTE: 23 dBm HSPA+: 23.5 dBm
Maximum power consumption	LTE: 1,200 mA (peak); 900 mA (average) HSPA+: 1,100 mA (peak); 800 mA (average)
Form Factor	M.2, 3042-S3 Key B
Weight	5.8 g
Dimensions (Length x Width x Thickness)	42 x 30 x 2.3 mm

1. Mobile Broadband is an optional feature and requires configuration at time of purchase. 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.

Intel® XMM™ 7360 LTE- Advanced CAT9¹	Technology/Operating bands	FDD LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3), 1700/2100 (Band 4), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 1400 (Band 11), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 17 lower), 850 (Band 18 lower), 850 (Band 19 upper), 800 (Band 20), 1400 (Band 21), 850 (Band 26), 700 (Band 28), 700 (Band 29 RX only), 2300 (Band 30), 1700/2100 (Band 66). TDD LTE: 2600 (Band 38), 1900 (Band 39), 2400 (Band 40), 2500 (Band 41). HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4), 850 (Band 5), 900 (Band 8) MHz
	Wireless protocol standards	3GPP Release 11 LTE Specification CAT.9, DL 60MHz BW throughput up to 450Mbps; UL 20MHz throughput up to 50Mbps WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification
	GPS	Standalone, A-GPS (MS-A, MS-B)
	GPS bands	1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou 1561.098 MHz
	Maximum data rates	LTE: 450 Mbps (Download), 50 Mbps (Upload) DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21Mbps (Download), 5.76 Mbps (Upload)



Maximum output power	LTE: 23 dBm HSPA+: 23.5 dBm
Maximum power consumption	LTE: 1,200 mA (peak); 900 mA (average) HSPA+: 1,100 mA (peak); 800 mA (average)
Form Factor	M.2, 3042-S3 Key B
Weight	5.8 g
Dimensions (Length x Width x Thickness)	42 x 30 x 2.3 mm

1. 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.

Intel® XMM™ 7560 LTE- Advanced Pro DL CAT16¹	Technology/Operating bands	FDD 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 14 upper), 700 (Band 17 lower), 850 (Band 18 lower), 850 (Band 19 upper), 800 (Band 20), 1900 (Band 25), 850 (Band 26), 700 (Band 28), 700 (Band 29 RX only), 2300 (Band 30), 1700/2100 (Band 66). TDD LTE: 2600 (Band 38), 1900 (Band 39), 2400 (Band 40), 2500 (Band 41), 3500 (Band 42), 5200 (Band 46 RX only) HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4), 850 (Band 5), 900 (Band 8) MHz
	Wireless protocol standards	3GPP Release 12 LTE Specification DL-CAT.16, DL 100MHz BW throughput up to 978Mbps; UL-CAT.7 20MHz throughput up to 75Mbps WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification
	GPS	Standalone, A-GPS (MS-A, MS-B)
	GPS bands	1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou 1561.098 MHz
	Maximum data rates	LTE: 978 Mbps (Download), 75 Mbps (Upload) DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21Mbps (Download), 5.76 Mbps (Upload)
	Maximum output power	LTE: 23 dBm in all band except B41 LTE B41 HPUE = 26dBm HSPA+: 23.5 dBm
	Maximum power consumption	LTE: 1,200 mA (peak); 900 mA (average) HSPA+: 1,100 mA (peak); 800 mA (average)
	Form Factor	М.2, 3042-S3 Кеу В
	Weight	6 g
	Dimensions (Length x Width x Thickness)	42 x 30 x 2.3 mm



1. Gigabit class Category 16 4G LTE module is optional and must be configured at the factory. Module designed for up to 1 Gbps download speeds as carriers deploy 5 carrier aggregation and 100Mhz channel bandwidth, requires activation and separately purchased service contract. Backwards compatible to HSPA 3G technologies. Check with service provider for coverage and availability in your area. Connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.

Near Field	Dimensions (L x W x H)	Module 25 mm by 10 mm by 2.0 mm
Communications	Chipset	NPC300
Controller (Optional)	unifications oller (Optional) Chipset System interface NPC300 System interface I2C NFC RF standards ISO/IEC 14443 A ISO/IEC 14443 B ISO/IEC 14443 B ISO/IEC 15693 ISO/IEC 16092 ECMA-340 NFCIP-1 Target and Initiator ECMA-340 NFCIP-2 NFC Forum Support Tag Type 1, Type 2, Type3 and Type 4, NFCIP-1 and NFCIP-2 Reader (PCD-VCD) ISO/IEC 14443 A Mode(1) ISO/IEC 14443 B ISO/IEC 15693 ISO/IEC 16693 MIFARE 1K MIFARE 1K MIFARE 1K MIFARE 1K MIFARE 1K MIFARE 1K MIFARE 1C MIFARE 1K MIFARE 1K MIFARE 1K	
	NFC RF standards	ISO/IEC 14443 B ISO/IEC 15693 ISO/IEC 18092 ECMA-340 NFCIP-1 Target and Initiator
	NFC Forum Support	Tag Type 1, Type 2, Type3 and Type 4, NFCIP-1 and NFCIP-2
		ISO/IEC 14443 B ISO/IEC 15693 MIFARE 1K MIFARE 4K MIFARE DESFire FeliCa
	-	ISO/IEC 14443 B and B' MIFARE
	Frequency	13.56 MHz
	NFC Modes Supported	Reader/Writer, Peer-to-Peer
	Raw RF Data Rates	106, 212, 424, 848 kbps
	Operating temperature	0°C to 70°C
	Storage temperature	-20°C to 125°C
	Humidity	
		4.35 to 5.25 Volts
	I/O Voltage	1.8V or 3.3V
	(Booster enable, VBAT=	Power Consumption, Typical
	Polling	7.3 mA



Technical Specifications

Detected Test Tag Type 1	Total 283.8 mA Net Module 236.8 mA
Detected Test Tag Type 2	Total 288.8 mA Net Module 241.8 mA
Detected Test Tag Type 3	Total 287.7 mA Net Module 240.7 mA
Detected Test Tag Type 4	Total 282.3 mA Net Module 235.3 mA
Antenna	Antenna connector, 0.5mm pitch, 7 connector FPC. Antenna matching is external to module.



POWER

AC Adapter 65 Watt nPFC Slim USB type C Straight 1.8 m	Dimensions Weight Input	88.0 x 53.5 x 21.0 mm 220 g +/- 10 g 100 to 240 VAC Input Efficiency	Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec: 5V: 81.5% 9V: 86.7% 12V: 88.0% 15V: 89.0% 20V: 89.0%
		Input frequency range	48 ~ 63 Hz
	Output	Input AC current Output power	Max. 1.7 A at 90 VAC 5V/15W 9V/27W 12V/60W 15V/65W 20V/65W
		DC output	5V / 9V / 12V / 15V / 20V
		Hold-up time	5ms at 115 Vac input
	Connector	Output current limit USB Type-C	< 8.0A
	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 5000m)
		Humidity	20% to 95%
		Storage Humidity	10% to 95%
	EMI and Safety Certifications	standards- IEC950, EN609 UL-US, NORDICS, DENAN, E	vith LVD and EMC directives; Worldwide safety 50, UL1950, Class 1, SELV; Agency approvals- C- EN55022 Class B, FCC Class B, CISPR22 Class B, over 200,000 hours at 25°C ambient condition.
AC Adapter 65 Watt nPFC	Dimensions	74 x 74 x 28.5 mm	
USB type C Straight 1.8 m C6NS	Weight	245 g +/- 10 g	
CONS	Input	100 to 240 VAC	
		Input Efficiency Input frequency range	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 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
		varpar can cirt tillit	-0.0/1



	Connector	Non-Standard C6		
	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 5000m)	
		Humidity	5% to 95%	
		Storage Humidity	5% to 95%	
	EMI and Safety Certifications	standards- IEC950, EN609 UL-US, NORDICS, DENAN,	with LVD and EMC directives; Worldwide safety 950, UL1950, Class 1, SELV; Agency approvals- C- EN55022 Class B, FCC Class B, CISPR22 Class B, • over 200,000 hours at 25°C ambient condition.	
Battery ME 4 Cell WHr 50 Long Life -PL Fast Charge	Dimensions (H × W × L) Weight	4.0 x 96.62 x 231.8 mm (0 0.188kg (0.415 lb)	.157 x 3.804 x 9.126 inch)	
	Cells/Type	4cell Lithium-Ion Polymer cell / 385784		
	Energy	ED750 platform		
		Voltage	8.8V/7.7V	
		Amp-hour capacity	6.175Ah(min.)/6.5Ah(typ.)	
		Watt-hour capacity	47.5Wh(min.)/50Wh(typ.)	
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)	
		Operating (Discharging)	14° to 122° F (-10° to 60° C)	
	Optional Travel Battery Available	No		

COUNTRY OF ORIGIN

China



HP EliteBook x360 1030 G4

Summary of Changes

Туре	Description	Part #
Cases	HP Slim Backpack	F3W16AA
	HP Exec 15.6 Midnight Backpack	1KM16AA
	HP 14.1 Business Slim Top Load	2SC65AA
	HP 13.3 Business Sleeve	2UW00AA
	HP Executive 15.6 Midnight Top Load	1KM15AA
Docking	HP Thunderbolt Dock 120W G2	2UK37AA
	HP Thunderbolt Dock w/Combo Cable G2	3TR87AA
	HP Thunderbolt Dock w/Audio Module	3YE87AA
	HP Audio Module	3AQ21AA
	HP Thunderbolt Dock 120W Cable	3XB94AA
	HP Thunderbolt Dock Combo Cable	3XB96AA
	HP USB-C Dock G4 (Mockingjay 3.0)	3FF69AA
	HP USB-C Universal Dock	1MK33AA
	HP USB-C Universal Dock Non Flash	3DV65AA
	HP USB-C Mini Dock	1PM64AA
	HP USB-C Dock G5	5TW10AA
	HP USB-C/A Universal Dock G2	5TW13AA
	HP Elite 90W Thunderbolt 3 Dock - Test Only	1DT93AA#xxx
Input/Output	HP Slim Wireless Keyboard and Mouse	1DT93AA#xxx
	HP Slim USB Keyboard and Mouse	T6L04AA#xxx
	HP Wireless (Link-5) Keyboard	T6T83AA#xxx
	HP USB Essential Keyboard and Mouse	T6U20AA#xxx
	HP Comfort Grip Wireless Mouse	H6L29AA#xxx
	HP X4000b Bluetooth Mouse	H2L63AA#xxx
	HP 3-Button USB Laser Mouse	H3T50AA#xxx
	HP USB Travel Mouse	H4B81AA#xxx
	HP Ultra Mobile Wireless Mouse	G1K28AA#xxx
	HP Slim Bluetooth Mouse	H6F25AA#xxx
	HP Wireless Premium Mouse	F3J92AA#xxx
	HP USB Premium Mouse	1JR31AA#xxx
	HP Elite Presenter Mouse	1JR32AA#xxx
	HP Stereo 3.5mm Headset	2CE30AA#xxx
	HP Stereo USB Headset	T1A66AA#xxx
	HP Rechargeable Active Pen	T1A67AA#xxx
	HP Elite USB-C Hub	4KL69AA
	HP USB-C to USB-A Hub	Z6A00AA#xxx
	HP USB-C to DP	N9K78AA#xxx
	HP USB-C to VGA	N9K76AA#xxx
	HP USB-C to RJ45 Adapter	V7W66AA
	HP HDMI to DVI	F5A28AA#xxx
	HP HDMI to VGA	H4F02AA#xxx



Summary of Changes

	HP USB 3.0 to Gigabit Adapter	N7P47AA#xxx
Power	HP 65W USB-C Power Adapter	1HE08AA#xxx
	HP 65W USB-C Slim Power Adapter	3PN48AA
	HP USB-C Notebook Power Bank	2NA10AA
Memory	HP 4 GB DDR4-2666 SODIMM	TBD
	HP 8 GB DDR4-2666 SODIMM	TBD
	HP 16 GB DDR4-2666 SODIMM	TBD
Security	HP Nano Keyed Cable Lock (Nano Lock Slot)	1AJ39AA
	HP Nano Dual-Head Keyed Cable Lock (Standard and Nano Lock slot)	1AJ41AA
	HP Sure Key Cable Lock (Standard, Nano, Wedge Lock slot)	6UW42AA
UCC	HP Conferencing Keyboard	K8P74AA#xxx
	HP USB Collaboration Keyboard	Z9N38AA#xxx
	HP Wireless Collaboration Keyboard	Z9N39AA#xxx
	HP UC Speaker Phone	4VW02AA
	HP UC Wireless Mono Headset	W3K08AA#xxx
	HP UC Wireless Duo Headset	W3K09AA#xxx
	HP UC Wireless Duo Headset	W3K09

Summary of Changes

Date of change:	Version History:		Description of change:
August 28, 2019	v1 to v2	Added	Environmental Section
September 3, 2019	v2 to v3	Updated	Intel® Optane™

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