Overview

EliteBook x360 1040 G5



Right

- 1. Touch fingerprint sensor
- 2. Volume up/down
- 3. USB Type-C™ with Thunderbolt™

- 4. USB Type-C™ with Thunderbolt™
- 5. HDMI port (Cable not included)
- 6. USB 3.1 Gen 1 charging port



Overview



Left

- 1. Internal microphones
- 2. IR/FHD Cameras
- 3. Webcam LED
- 4. Glass clickpad
- WWAN SIM (Nano)

- 6. Nano Security lock slot (Lock sold separately)
- 7. Power button
- 8. Audio combo jack
- 9. USB 3.1 Gen 1 charging port



Overview

At a Glance

- All metal CNC Aluminum chassis that is .67 inches (1.69 cm) thin and with a starting weight of 2.99 lbs (1.36 Kg)³
- A 360° convertible notebook with 4 usage modes Laptop mode, Tablet mode, Tent mode, and Media mode.
- Choice of 8th Generation Intel® Core™ i5, i7 Processors with integrated Intel® HD 620 Graphics
- Display choices include 35.56 m (14.0") diagonal IPS FHD touch screen or UHD touch screen. Brightness choices up to 700 Nits. Optional Anti-glare screen available. Get added protection in open or public places with the optional HP Sure View integrated privacy screen. Ambient Light Sensor (ALS) standard.
- Ultimate connectivity with 4G/LTE WWAN (up to Cat16), WLAN, USB Type-C™, USB Type-A (2), HDMI, and Thunderbolt™
 Docking
- Innovative world-facing third mic improves inbound ambient noise cancellation
- Engage teams, clients, and vendors with the crystal-clear audio by Bang & Olufsen and the high-performance HP Premium Collaboration Keyboard
- The new 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
- DDR4 Memory up to 32 GB
- Up to 17 hours of battery life1
- Preinstalled with Windows 10 versions
- Passed MIL-STD 810g testing²
- Instant on/instant off with Modern Connected Standby
- 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.
- 2. MIL-STD 810G testing is pending and is conducted on select HP products. Testing is not intended to demonstrate fitness of U.S. Department of Defense 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
- 3. Weight will vary by configuration.

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



Technical Specifications

PRODUCT NAME

HP EliteBook x360 1040 G5 Notebook PC

OPERATING SYSTEMS

Preinstalled Windows 10 Pro 64 – HP recommends Windows 10 Pro¹

Windows 10 Pro 64 (National Academic only)1,2

Windows 10 Home 64¹

Windows 10 Home Single Language 641

FreeDOS 2.0

- 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™ i7-8650U vPro™ processor with Intel® UHD graphics 620 (1.9 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores)^{3,4,5,6}

Intel® Core™ i7-8550U with Intel® UHD graphics 620 (1.8 GHz base frequency, up to 4 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores)^{3,4,5,6}

Intel® Core™ i5-8350U vPro™ processor with Intel® UHD Graphics 620 (1.7 GHz base frequency, up to 3.6 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores)^{3,4,5,6}

Intel® Core™ i5-8250U with Intel® UHD Graphics 620 (1.6 GHz base frequency, up to 3.4 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores)^{3,4,5,6}

Processor Family

8th Generation Intel® Core™ i7 processor (i7-8650U and i7-8550U models)⁶
8th Generation Intel® Core™ i5 processor (i5-8350U and i5-8250U models)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 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.



Technical Specifications

CHIPSET

Integrated with processor

GRAPHICS

Integrated

Intel® UHD graphics 6207

7. HD content required to view HD images.

DISPLAY

Touch UHD (4K)

35.56 cm (14") diagonal 4K IPS eDP + PSR BrightView WLED-backlit touch screen direct bonded with Corning® Gorilla® Glass 5, 500 cd/m², 72% NTSC for WWAN (3840 x 2160)^{7,8,10}

Touch FHD Privacy Panel

HP Sure View Integrated Privacy Screen 35.56 cm (14") diagonal FHD IPS eDP + PSR anti-glare LED-backlit touch screen direct bonded with Corning® Gorilla® Glass 5, 700 cd/m², 72% NTSC (1920 x 1080)^{7,8,9,10}

HP Sure View Integrated Privacy Screen 35.56 cm (14") diagonal FHD IPS eDP + PSR LED-backlit touch screen direct bonded with Corning® Gorilla® Glass 5, 700 cd/m², 72% NTSC for WWAN (1920 x 1080)^{7,8,9,10}

HP Sure View Integrated Privacy Screen 35.56 cm (14") diagonal FHD IPS eDP + PSR LED-backlit touch screen direct bonded with Corning® Gorilla® Glass 5, 700 cd/m², 72% NTSC (1920 x 1080)^{7,8,9,10}

Touch FHD

35.56 cm (14") diagonal FHD IPS eDP + PSR anti-glare LED-backlit touch screen direct bonded with Corning® Gorilla® Glass 5, 400 cd/m², 72% NTSC for WWAN (1920 x 1080)^{7,8,10}

35.56 cm (14") diagonal FHD IPS eDP + PSR anti-glare LED-backlit touch screen direct bonded with Corning® Gorilla® Glass 5, 400 cd/m². 72% NTSC (1920 x 1080)^{7,8,10}

35.56 cm (14") diagonal FHD IPS eDP + PSR BrightView WLED-backlit touch screen direct bonded with Corning® Gorilla® Glass 5, 400 cd/m², 72% NTSC for WWAN (1920 x 1080)^{7,8,10}

35.56 cm (14") diagonal FHD IPS eDP + PSR BrightView WLED-backlit touch screen direct bonded with Corning® Gorilla® Glass 5, 400 cd/m 2 , 72% NTSC (1920 x 1080) 7,8,10

Display Size

35.56 cm (14")

- 7. HD content required to view HD images.
- 8. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 9. HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and functions in landscape orientation.
- 10. Sold separately or as an optional feature.



Technical Specifications

STORAGE AND DRIVES

Primary M.2 Storage

2 TB PCIe® Gen3x4 NVMe[™] SS TLC ¹¹
1 TB PCIe® Gen3x4 NVMe[™] SS TLC ¹¹
512 GB PCIe® Gen3x4 NVMe[™] SS TLC Opal 2 ¹¹
512 GB PCIe® Gen3x4 NVMe[™] SS TLC ¹¹
256 GB SATA-3 SED TLC Opal 2 ¹¹
256 GB PCIe® Gen3x4 NVMe[™] SS TLC ¹¹
256 GB PCIe® NVMe[™] SS Value ¹¹
128 GB SATA-3 SS TLC ^{11,12}
118 GB PCIe® Gen3x2 NVMe[™] SS (Intel® Optane[™]) ^{11,12,13}

- 11. 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.
- 12. Not available with eMMC Base Units.

13. Intel® Optane™ SSD is sold separately. Intel® Optane™ SSD system acceleration does not replace or increase the DRAM in your system. Available for HP commercial desktops and notebooks and for select HP workstations and requires a SATA HDD, 7th Gen or higher Intel® Core™ processor or Intel® Xeon® processor E3-1200 V6 product family or higher, BIOS version with Intel® Optane™ supported, Windows 10 version 1703 or higher, M.2 type 2280-S1-B-M connector on a PCH Remapped PCIe Controller and Lanes in a x2 or x4 configuration with B-M keys that meet NVMe™ Spec 1.1, and an Intel® Rapid Storage Technology (Intel® RST) 15.5 driver.

MEMORY

32 GB DDR4-2400 SDRAM 16 GB DDR4-2400 SDRAM 8 GB DDR4-2400 SDRAM

Maximum Memory

32 GB DDR4-2400 SDRAM

Memory Slots

Runs at 2400 under Memory soldered down (Customer non-accessible) Supports Dual Channel Memory for 16 GB & 32 GB, Single Channel Memory for 8 GB

NETWORKING/COMMUNICATIONS

Broadband Wireless (WWAN)

WLAN

Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, vPro™ 10,14 Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, non-vPro™ 10,14

Support for Miracast ¹⁶
Supports WLAN/LAN /WWAN switching
Support HP Connection Optimizer with Wi-Fi® Load balancing



Technical Specifications

Support for DYNAMIC WiFi SAR in BIOS

WWAN

HP lt4132 LTE/HSPA+ 4G, Mobile Broadband Module Cat 4 ^{10,15} Intel® XMM™ 7360 LTE-Advanced^{10,15,17} Intel® XMM™ 7560 LTE-Advanced^{10,15,17}

NFC

NXP NPC300 Near Field Communication Module

Ethernet

No direct Ethernet Support - Ethernet via accessories

- 10. Sold separately or as an optional feature.
- 14. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN devices.
- 15. WWAN module is optional, must be configured at the factory and requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.
- 16. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
- 17. 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.

AUDIO/MULTIMEDIA

Audio

Bang & Olufsen 4 Premium Stereo Speakers; 1609 x 2pcs, 4013 x 2pcs Microphones (Multi Array including World-Facing 3rd Mic) 4 Discrete Amplifiers

Camera

1080p FHD camera 7

Webcam

IR Camera 18

Sensors

Accelerometer Magnetometer Gyroscope Ambient light sensor Hall Sensor

7. HD content required to view HD images.

18. Internet access required.



Technical Specifications

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

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

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+R = Break

Fn+S = Sys Rq

Fn+C = Scroll Lock

Fn+E = Insert

Fn+W = Pause

Clickpad Requirements

Glass Clickpad

Microsoft Precision Touchpad Default Gestures Support

FW PTP with Filter Driver

Hybrid Mode Support

SOFTWARE AND SECURITY

Preinstalled Software

BIOS

HP BIOSphere Gen4 19

HP Drive Lock & Automatic Drive Lock

BIOS Update via Network

Master Boot Record Security

Power On Authentication

Secure Erase 20

Absolute Persistence Module 21

Pre-boot Authentication



Technical Specifications

HP Wireless Wakeup

Software

HP Native Miracast Support 16

HP LAN-Wireless Protection

HP Velocity

HP Collaboration Keyboard Software

HP ePrint Driver + JetAdvantage 22

HP Hotkey Support - CMIT

HP Recovery Manager

HP Jumpstart

HP Support Assistant 23

HP Noise Cancellation Software

Buy Office (sold separately)

Manageability Features

HP Driver Packs 24

HP System Software Manager (SSM)

HP BIOS Config Utility (BCU)

HP Client Catalog

HP Manageability Integration Kit Gen2 25

Ivanti Management Suite 26

Client Security Software

HP Client Security Suite Gen4 ²⁷ including:

HP Security Manager ²⁸ (including Credential Manager, HP Password Manager, HP Spare Key)

HP Fingerprint Sensor

HP Device Access Manager

HP Power On Authentication

Microsoft Defender 29

Security Management

Secure Erase 20

TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified)

SATA 0.1 port disablement (viaBIOS)

RAID configurations 31

Serial, USB enable/disable (viaBIOS)

Power-on password (viaBIOS)

Setup password (viaBIOS)

Support for chassis padlocks and cable lock devices

Integrated hood sensor

HP Sure Click 32

HP Sure Start Gen4 30

HP Sure Run 33

HP Sure Recover 34

- 16. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
- 19. HP BIOSphere Gen4 features may vary depending on the PC platform and configurations requires 8th Gen Intel® processors.
- 20. Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method.

21. 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



Technical Specifications

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.

- 22. HP ePrint Driver 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 Print times and connection speeds may vary.
- 23. HP Support Assistant requires Windows and Internet access.
- 24. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement
- 25. HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement
- 26. Ivanti Management Suite subscription required.
- 27. HP Client Security Manager Gen4 requires Windows and Intel® or AMD 8th generation processors.
- 28. HP Password Manager requires Internet Explorer or Chrome or FireFox. Some websites and applications may not be supported. User may need to enable or allow the add-on / extension in the internet browser.
- 29. Microsoft Defender Opt in and internet connection required for updates.
- 30. HP Sure Start Gen4 is available on HP Elite and HP Pro 600 products equipped with 8th generation Intel® or AMD processors.
- 31. RAID configuration is optional and does require a second hard drive.
- 32. HP Sure Click is available on most HP PCs and supports Microsoft® Internet Explorer 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.
- 33. HP Sure Run is available on HP Elite products equipped with 8th generation Intel® or AMD® processors.
- 34. HP Sure Recover is available on HP Elite PCs with 8th generation Intel® or AMD processors and requires an open, wired network connection. Not available on platforms with multiple internal storage drives, Intel® Optane™. You must back up important files, data, photos, videos, etc. before use to avoid loss of data.



Technical Specifications

POWER

Power Supply

65 W USB Type-C[™] adapter ³⁵
Supports HP Fast Charging (Up to 50% in 30 minutes) ³⁷

Primary Battery

HP Long Life 4-cell, 56.2 Wh Li-ion polymer 36 100%; Supports HP Fast Charging (Up to 50% in 30 minutes) 37

Power Cord

Duckhead power cord (C5NS), 1.0 m, Sticker, Premium Black (For Hades+) 35

Battery Life

Up to 17 hours (With FHD panel)³⁸ Up to 11 hours 15 mins (With 4K panel)³⁸

- 35. Availability may vary by country.
- 36. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 37. 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.
- 38. 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.



Technical Specifications

WEIGHTS & DIMENSIONS

Weight

Starting at 2.99 lb ³⁹ Starting at 1.35 kg ³⁹

Dimensions (w x d x h)

12.65 x 8.46 x 0.66 in 32.14 x 21.5 x 1.69 cm

39. Weight will vary by configuration.

PORTS/SLOTS

2 Thunderbolt™ (USB Type-C™ connector)⁴⁰

2 USB 3.1 Gen 1 (charging)

1 HDMI 1.4

1 External Nano SIM slot for WWAN41

1 headphone-out

40. Cables are not included.

41. Available on configurations with WWAN.

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/cpc⁴²

42. 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

HP ELITEBOOK X360 1040 G5

Eco-Label Certifications	This product has received or is in the process of being certified to the following approvals and may			
& declarations	be labeled with one or more of these marks:			
	•IT ECO declaration			
	•US ENERGY STAR®			
	•EPEAT® Gold registered in the United States. Based on US EPEAT® registration according to IEEE			
	1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information.			
	•TCO or TCO Certified Edge			
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.			



Technical Specifications

Energy Consumption			
(in accordance with US			
ENERGY STAR® test	11EVAC 60U-	220046 504-	10000 504-
method) Normal Operation	115VAC, 60Hz 230VAC, 5		100VAC, 60Hz 5.10 W
(Short idle)	5.29 W	4.98 W	
Normal Operation (Long idle)	2.20 W	2.08 W	2.35 W
Sleep	0.82 W	0.89 W	0.80 W
Off	0.32 W	0.34 W	0.48 W
	family. HP computers marked with Environmental Protection Agency family does not offer ENERGY STA for a typically configured PC featu Microsoft Windows® operating sys	h the ENERGY STAR® Logo are (EPA) ENERGY STAR® specifica R® compliant configurations, Iring a hard disk drive, a high e stem.	then energy efficiency data listed is
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation (Short idle)	18 BTU/hr	17 BTU/hr	17 BTU/hr
Normal Operation (Long idle)	8 BTU/hr	7 BTU/hr	8 BTU/hr
Sleep	3 BTU/hr	3 BTU/hr	3 BTU/hr
Off	1 BTU/hr	1 BTU/hr	2 BTU/hr
	Heat dissipation is calculated base for one hour.	ed on the measured watts, ass	suming the service level is attained
Declared Noise	Sound Power		Sound Pressure
Emissions	(L _{WAd} , bels)		(L _{pAm} , decibels)
(in accordance with ISO 7779 and ISO 9296)	(Ephility decis)		
Typically Configured – Idle	2.5		19
Fixed Disk – Random writes	3.5		26
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/manganese dioxide		



Technical Specifications

Additional Information	2011/65/EC. • This HP produce the produce of the p	oduct is designed to comply with the Waste Electri 002/96/EC. ct is in compliance with California Proposition 65 (oxic Enforcement Act of 1986). ct is in compliance with the IEEE 1680.1 (EPEAT) si	cal and Electronic Equipment (WEEE) State of California; Safe Drinking tandard at the Gold level, see e marked per ISO11469 and ISO1043
Deal and the Mark of the		ct is 94.5% recycle-able when properly disposed o	
Packaging Materials	External:	PAPER/Corrugated	286 g
	Internal:	PLASTIC/EPE (Expanded Polyethylene)	37 g
		PLASTIC/Polyethylene low density	15 g
Material Usage		PLASTIC/Polypropylene - PP does not contain any of the following substances	4 g
Packaging Usage	http://www. Asbestos Certain Azc Certain Bro Cadmium Chlorinated Formaldeh Halogenate Lead carbo Lead and Le Mercuric Ox Nickel – fin carried by th Ozone Dep Polybromir Polybromir Polybromir Polychlorin Polychlorin Polychlorin Polychlorin Tributyl Tir HP follows th Eliminate t materials. Eliminate t Design pac Maximize t Use readily Reduce size	ominated Flame Retardants – may not be used as f d Hydrocarbons d Paraffins yde ed Diphenyl Methanes nates and sulfates ead compounds xide Batteries ishes must not be used on the external surface de	esigned to be frequently handled or ertain retail packaging has been packaging has been packaging materials. To be a corrugated materials. To packaging materials. The packaging materials are packaging materials.



Technical Specifications



Technical Specifications

SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)	Nominal Operating Voltage	AC 15V
	Average Operating Power	Win 10
	Integrated Graphics	Yes
	Discrete Graphics	N/A
	Max Operating Power	UMA<65W
Temperature	Operating	32° to 95° F (0° to 35° C) (not writing optical)
	Non-operating	41° to 95° F (5° to 35° C) (writing optical)
Relative Humidity	Operating	32° to 95° F (0° to 35° C) (not writing optical)
	Non-operating	5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature
Shock	Operating	40 G, 2 ms, half-sine
	Non-operating	200 G, 2 ms, half-sine
Random Vibration	Operating	1.043 grms
	Non-operating	3.5 grms
Altitude (unpressurized)	Operating	-50 to 10,000 ft (-15.24 to 3,048 m)
	Non-operating	-50 to 40,000 ft (-15.24 to 12,192 m)
Planned Industry Standard	UL	Yes
Certifications	CSA	Yes
	FCC Compliance	Yes
	ENERGY STAR®	Yes ⁴³
	EPEAT® 2019	Yes, Gold in U.S. ⁴⁴
	ICES	Yes
	Australia / NZ A-Tick Compliance	Yes
	CCC	Yes
	Japan VCCI Compliance	Yes
	KC	Yes
	BSMI	Yes
	CE Marking Compliance	Yes
	BNCI or BELUS	Yes

Yes Yes

Yes

Yes

Saudi Arabian Compliance Yes

UKRSERTCOMPUTER

CIT

(ICCP) SABS



^{43.} Configurations of the HP EliteBook x360 1040 G5 that are ENERGY STAR® certified are identified as HP EliteBook x360 1040 G5 ENERGY STAR® on HP websites and on http://www.energystar.gov.

^{44.} Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit http://www.epeat.net for more information.

Technical Specifications

DISPLAYS

Panel LCD 14 inch FHD (1920x1080) Anti-Glare WLED UWVA 72% NTSC 700nits eDP 1.3+PSR ultraslim Narrow Bezel Privacy **Outline Dimensions (W x H x D)** 315.91 x 186.69 max. (FPC folding included)

 Active Area
 309.31 x 173.99

 Weight
 245g max.

 Diagonal Size
 14 (inch)

Thickness2.0mm / 3.9mm (PCB) max.InterfaceeDP1.4a + PSR (4lane)

Surface Treatment Anti-Glare (AG)

Touch Enabled Yes

Contrast Ratio Sharing mode: 600:1 (typ.)

Privacy mode: 150:1 (typ.) 110:1 (min)

Refresh Rate 120Hz

Brightness Sharing mode: 700nits Privacy mode: 350nits

Pixel Resolution 1920 x 1080 (FHD)

Format of LCD Pixel Arrangement RGB strip
Backlight LED

Color Gamut Coverage 72% of NTSC

Color Depth 8bits

Viewing Angle Sharing mode, CR > 10, L/R/U/D, 85/85/85/85 (typ.)

Privacy mode CR>2, L/R/U/D, 50/50/85/85 (typ.)

Panel LCD 14 inch FHD (1920x1080) BrightView WLED UWVA 72% NTSC 400nits eDP 1.3+PSR ultraslim NB bent Outline Dimensions (W x H x D) 315.3

315.31 x 185.43 max. (FPC folding included)

 Active Area
 309.37 X 174.02

 Weight
 200g max.

 Diagonal Size
 14 (inch)

Thickness 2.0mm / 4.0mm (PCB) max.
Interface eDP 1.3 + PSR (2 lane)
Surface Treatment Anti-Glare (AG)

Touch Enabled Yes

Contrast Ratio 1200:1 (typ.)
Refresh Rate 60Hz
Brightness 400nits

Pixel Resolution 1920 x 1080 (FHD)

Format of LCD Pixel Arrangement RGB strip
Backlight LED

Color Gamut Coverage 72% of NTSC

Color Depth 6bits

Viewing Angle UWVA 85/85/85



Technical Specifications

Panel LCD 14 inch UHD (3840x2160) BrightView WLED UWVA 72% NTSC 500nits eDP 1.3+PSR ultraslim NB bent **Outline Dimensions (W x H x D)** 315.31 x 186.55 max. (FPC folding included)

Active Area 309.31 X 173.99
Weight 210g max.
Diagonal Size 14 (inch)

Thickness 2.0mm / 4.0mm (PCB) max.
Interface eDP 1.4 + PSR (4 lane)
Surface Treatment Bright - View (BV)

Touch Enabled Yes

Contrast Ratio 1200:1 (typ.)

Refresh Rate60HzBrightness500nits

Pixel Resolution 3840 x 2160 (UHD)

Format of LCD Pixel Arrangement RGB strip
Backlight LED

Color Gamut Coverage 72% of NTSC

Color Depth 8bits

Viewing Angle UWVA 85/85/85



Technical Specifications

STORAGE AND DRIVES

HARD DRIVES

 SSD 128GB 2280 M2 SATA-3
 Form Factor
 M.2 2280

 TLC
 Capacity
 128 GB

 NAND Type
 TLC

Maximum Sequential Write

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 ∼ 560 MB/s

Logical Blocks 250,069,680

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

500 MB/s~ 530 MB/s

Features DIPM; TRIM; DEVSLP

SSD 1TB 2280 PCIe-3x4 NVMe Three Layer Cell single-sided Form Factor M.2 2280
Capacity 1 TB
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

SSD 256GB 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

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



Technical Specifications

SSD 256GB 2280 M2 SATA-3 Form Factor Self Encrypted OPAL2 Capacity Three Layer Cell

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 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

SSD 2TB 2280 PCIe-3x4 NVMe Three Layer Cell single-sided Form Factor M.2 2280
Capacity 2 TB
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

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



Technical Specifications

SSD 512GB 2280 PCIe-3x4 Form Fac NVMe Self Encrypted OPAL2 Capacity Three Layer Cell

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); TCG Opal 2.0; TRIM; L1.2

SSD 118GB 2280 PCIe-3x2 NVMe 3D Xpoint Form Factor M.2 2280

Capacity 118 GB

NAND Type 3D Xpoint

Height 0.09 in (2.3 mm)

Width 0.87 in (22 mm)

Interface PCIe NVMe Gen3X2

Maximum Sequential Read1200 MB/sMaximum Sequential Write600 MB/sLogical Blocks231,270,400

Operating Temperature 0° to 85°C [ambient temp]

Features Not Support



Technical Specifications

NETWORKING/COMMUNICATIONS

Wireless LAN Standards IEEE 802.11a

IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac Wi-Fi certified

Interoperability Wi-Fi certified Frequency Band 802.11b/g/n

•2.402 - 2.482 GHz

802.11a/n

•4.9 – 4.95 GHz (Japan) •5.15 – 5.25 GHz •5.25 – 5.35 GHz •5.47 – 5.725 GHz •5.825 – 5.850 GHz

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

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

•AES-CCMP: 128 bit in hardware

•802.1x authentication

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

•WPA2 certification
•IEEE 802.11i

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

WAPI

Network Architecture

Models

Output Power²

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

802.11b: +18.5dBm minimum
802.11g: +17.5dBm minimum
802.11a: +18.5dBm minimum

802.11n HT20(2.4GHz): +15.5dBm minimum
802.11n HT40(2.4GHz): +14.5dBm minimum
802.11n HT20(5GHz): +15.5dBm minimum
802.11n HT40(5GHz): +14.5dBm minimum
802.11ac VHT80(5GHz): +11.5dBm minimum

Power Consumption •Transmit mode 2.0 W

•Receive mode 1.6 W

•Idle mode (PSP)180 mW (WLAN Associated)
•Idle mode 50 mW (WLAN unassociated)

•Connected Standby 10mW •Radio disabled 8 mW



Technical Specifications

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

Receiver Sensitivity ³ 802.11b, 1Mbps: -93.5dBm maximum

802.11b, 11Mbps: -84dBm maximum 802.11a/g, 6Mbps: -86dBm maximum 802.11a/g, 54Mbps: -72dBm maximum 802.11n, MCS07: -67dBm maximum 802.11n, MCS15: -64dBm maximum 802.11ac, MCS0: -84dBm maximum 802.11ac, MCS9: -59dBm 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

 Weight
 Type 2230 : 2.8g

 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

Near Field Communications Controller (optional) **Dimensions (L x W x H)** Module 17 mm by 10 mm by 2.0 mm

Chipset NPC300 System interface I2C

NFC RF standards ISO/IEC 14443 A

ISO/IEC 14443 B ISO/IEC 15693 ISO/IEC 18092

ECMA-340 NFCIP-1 Target and Initiator

ECMA-320 NFCIP-2

NFC Forum Support Tag Type 1, Type 2, Type3 and Type 4, NFCIP-1 and NFCIP-2

Reader (PCD-VCD) Mode (1) ISO/IEC 14443 A

ISO/IEC 14443 B ISO/IEC 15693 MIFARE 1K MIFARE 4K MIFARE DESFire

FeliCa

Jewel and Topaz cards

Card Emulation (PICC-VICC) ISO/IEC 14443 A

Mode (1) ISO/IEC 14443 B and B'

MIFARE



Technical Specifications

FeliCa

13.56 MHz Frequency

Reader/Writer. Peer-to-Peer NFC Modes Supported **Raw RF Data Rates** 106, 212, 424, 848 kbps

Operating temperature 0°C to 70°C Storage temperature -20°C to 125°C Humidity 10-90% operating Supply Operating voltage 2.97 to 5.5 Volts

I/O Voltage 1.8V or 3.3V

POWER

AC Adapter 65 Watt nPFC Dimensions (H x W x D) USB Type C™ Straight 1.8m C6NS (Hades+)

74x74x28.5mm

Weight 245a +/- 10a Input 100 to 240 VAC

> **Input Efficiency** 81.5% min at 115 Vac/ 230Vac @ 5V/3A

86.7% min at 115 Vac/ 230Vac @ 9V/3A 88% min at 115 Vac/ 230Vac @ 10V/5A 88% min at 115 Vac/ 230Vac @ 12V/5A 89% min at 115 Vac/ 230Vac @ 15V/4.33A 89% min at 115 Vac/ 230Vac @ 20V/3.25A

Input frequency range 47 ~ 63 Hz

Input AC current 1.7 A at 90 VAC and maximum load

Output **Output power** 65W

> 5V/9V/10V/12V/15V/20V DC output Hold-up time 5 ms at 115 VAC input

Output current limit <8.0A

Connector Non-Standard C6

Environmental Design Operating 32oFto 95oF (Ooto 35oC)

temperature

Non-operating (storage) -4oFto 185oF (-20oto 85oC)

temperature

Altitude 0 to 16,400 ft (0 to 5000m)

Humidity 5% to 95% **Storage Humidity** 5% 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 100.000 hours at 25°C ambient condition.



Technical Specifications

Battery BL 4 Cell WHr 56 Dimensions (H x W x L)

Long Life -PL Fast

Charge

5.55 x 280.4 x 84.12 mm

(0.219 x 11.039 x 3.312 inch)

Weight 0.247kg (0.545 lb)

Cells/Type 4cell Lithium-Ion Polymer cell / 446872

Energy Voltage 7.7V

Amp-hour capacity 7.3Ah

Watt-hour capacity 56Wh

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

Operating (Discharging) 14° to 122° F (-10° to 60° C)

Fuel Gauge LED NA

Optional Travel Battery

Available

No



HP EliteBook x360 1040 G5 Notebook PC

QuickSpecs

Technical Specifications		
Country of Origin China		



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

Туре	Description	Part Number
Cases	HP Slim Ultrabook Top Load	F3W15AA
	HP Exec Midnight 15.6" Backpack	1KM16AA
	HP Business Top Load	2SC66AA
Docking	HP Thunderbolt Dock 120W G2	2UK37AA#xxx
	HP TB Dock G2 w/ Combo Cable	3TR87AA#xxx
	HP TB Dock 120W G2 w/ Audio	3YE87AA#xxx
	HP Thunderbolt Dock Audio Module	3AQ21AA
	HP TB Dock 120W G2 cable	3XB94AA
	HP TB Dock G2 combo cable	3XB96AA
	HP USB-C Universal Dock	1MK33AA#xxx
	HP USB-C Universal Dock NF	3DV65AA#xxx
	HP USB-C Dock G4	3FF69AA#xxx
	HP USB-C Mini Dock	1PM64AA#xxx
	HP USB Travel Dock	T0K30AA#xxx
	HP Elite 90W Thunderbolt 3 Dock	1DT93AA#xxx
	HP Hot Desk Stand (up to 32" monitor)	W3Z73AA#xxx
	HP Hot Desk Stand Monitor Arm (for use with W3Z73AA; supports two 24" monitors)	W3Z74AA#xxx
Input/Output	HP Slim Wireless Keyboard and Mouse	T6L04AA#xxx
	HP Slim USB Keyboard and Mouse	T6T83AA#xxx
	HP Wireless (Link-5) Keyboard	T6U20AA#xxx
	HP USB Essential Keyboard and Mouse	H6L29AA#xxx
	HP Conferencing Keyboard	K8P74AA#xxx
	HP USB Collaboration Keyboard	Z9N38AA#xxx
	HP Wireless Collaboration Keyboard	Z9N39AA#xxx
	HP Comfort Grip Wireless Mouse	H2L63AA#xxx
	HP X4000b Bluetooth Mouse	H3T50AA#xxx
	HP 3-Button USB Laser Mouse	H4B81AA#xxx
	HP USB Travel Mouse	G1K28AA#xxx
	HP Ultra Mobile Wireless Mouse	H6F25AA#xxx
	HP Slim Bluetooth Mouse	F3J92AA#xxx
	HP Wireless Premium Mouse	1JR31AA#xxx
	HP USB Premium Mouse	1JR32AA#xxx
	HP Stereo 3.5mm Headset	T1A66AA#xxx
	HP Stereo USB Headset	T1A67AA#xxx
	HP Elite Presenter Mouse	2CE30AA#xxx
	HP USB-C to USB 3.0 Adapter	N2Z63AAA#xxx
	HP USB-C to USB-A Hub	Z6A00AA#xxx
	HP USB-C to DP	N9K78AA#xxx
	HP USB-C to VGA	N9K76AA#xxx
	HP to HDMI 2.0	1WC36AA
	HP USB-C to RJ45 Adapter FD	V7W66AA
	HP USB-C to RJ45 Adapter	V7W66AA



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

	HP HDMI to DVI	F5A28AA#xxx
	HP HDMI to VGA	H4F02AA#xxx
	HP USB 3.0 to Gigabit Adapter	N7P47AA#xxx
	HP Active Pen G2	TBD
Power	HP 65W USB-C Power Adapter	1HE08AA#xxx
	HP 65W USB-C Slim Power Adapter w/USB-A port	3PN48AA
	HP USB-C Notebook Power Bank	2NA10AA#xxx
Storage	HP USB External DVDRW Drive	F2B56AA#xxx
Security	HP Nano Keyed Cable Lock	1AJ39AA
	HP Nano Dual-Head Keyed Cable Lock	1AJ41AA
UCC	HP UC Wireless Mono Headset	W3K08AA#xxx
	HP UC Wireless Duo Headset	W3K09AA#xxx
	HP UC Speaker Phone	K7V16AA#xxx
	HP UC Wired Headset	K7V17AA#xxx
Displays	HP EliteDisplay S340c 34-inch Curved Micro Edge Monitor	V4G46AA
	HP EliteDisplay S270N 27-inch 4K Micro Edge Monitor	2PD37AA
	HP EliteDisplay S240n 24-inch Micro Edge Monitor	W9A88AA
	HP EliteDisplay E243 23.8-inch Monitor	1FH47AA



Change Log

Date of change:	Version History:		Description of change:
November 2, 2018	From V1 to V2	Updated	At a glance Passed MIL-STD
December 10, 2018	From V2 to V3	Updated	Memory section
December 17, 2018	From V3 to V4	Updated	Environmental Section
February 12, 2019	From V4 to V5	Removed	Phonewise
February 15, 2019	From V5 to V6	Added	Disclaimer in Ports Section
April 19, 2019	From V6 to V7	Added	NFC Networking section
June 7, 2019	From V7 to V8	Updated	EPEAT
July 3, 2019	From V8 to V9	Updated	Color Gamut
July 23, 2019	From V9 to V10	Updated	UHD Panel

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