

Overview

HP EliteBook x360 1030 G3



Left

- | | |
|------------------------------------|----------------------------------------------------|
| 1. IR Camera LEDs | 7. Nano Security lock slot (Lock sold separately.) |
| 2. Internal microphones | 8. USB Type-C™ with Thunderbolt™ |
| 3. IR camera | 9. USB Type-C™ with Thunderbolt™ |
| 4. FHD Camera | 10. Volume up/down |
| 5. Webcam LED | 11. Touch fingerprint sensor |
| 6. HDMI port (Cable not included.) | 12. Glass clickpad |

Overview



- 1. WWAN SIM (Nano)
- 2. Power button

Right

- 3. Audio combo jack
- 4. USB 3.1 Gen 1 charging port

Overview

AT A GLANCE

- All metal CNC Aluminum chassis that is .62 inches (1.58 cm) thin and with a starting weight of 2.76 lbs. (1.25 Kg)
- A 360° convertible notebook with 4 usage modes
- Choice of 8th Generation Intel® Core™ i5, i7 Processors with integrated Intel® HD 620 Graphics
- Display choices include 33.78 cm (13.3") 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.
- Ultimate connectivity with 4G/LTE WWAN, WLAN, USB Type-C™, USB Type-A, 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
- DDR3 small m Memory up to 16 GB
- Up to 18 hours of battery life¹
- Preinstalled with Windows 10 versions
- Pending MIL-STD 810g testing²

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.

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 (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.

Features

PRODUCT NAME

HP EliteBook x360 1030 G3

OPERATING SYSTEM

Preinstalled	Windows 10 Pro 64 ¹ Windows 10 Home 64 ¹
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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/>.

PROCESSORS

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)^{2,3,4}
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)^{2,3,4}
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)^{2,3,4}
Intel® Core™ i7-8650U vPro™ processor with Intel® UHD graphics 620 (1.9 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores)^{2,3,4}

Processor Family

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

2. 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.

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

4. 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>.

CHIPSET

Chipset is integrated with processor.

Features

GRAPHICS

Integrated

Intel® UHD Graphics 620 ⁵

5. HD content required to view HD images.

DISPLAY

Touch

33.8 cm (13.3") diagonal 4K IPS eDP + PSR BrightView LED-backlit touch screen, direct bonded with Corning® Gorilla® Glass 4, 500 cd/m², 100% sRGB (3840 x 2160)^{6,7,8}

HP Sure View Integrated Privacy Screen 13.3" (13.3) diagonal FHD IPS eDP + PSR anti-glare LED-backlit touch screen, direct bonded with Corning® Gorilla® Glass 4, 700 cd/m², 100% sRGB (1920 x 1080)^{6,7,8,9}

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 4, 700 cd/m², 100% sRGB (1920 x 1080)^{6,7,8,9}

33.8 cm (13.3") diagonal FHD IPS eDP + PSR anti-glare LED-backlit touch screen, direct bonded with Corning® Gorilla® Glass 4, 400 cd/m², 100% sRGB (1920 x 1080)^{6,7,8}

33.8 cm (13.3") diagonal FHD IPS eDP + PSR BrightView LED-backlit touch screen, direct bonded with Corning® Gorilla® Glass 4, 400 cd/m², 100% sRGB (1920 x 1080)^{6,7,8}

Displays support

Supports privacy filter

Supports narrow bezel

Direct Bonding 100% Attach

6 HD content required to view HD images.

7. Sold separately or as an optional feature.

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.

Features

STORAGE AND DRIVES

Primary M.2 Storage

M.2 (2280) Solid State Drive

118 GB PCIe® Gen3x2 NVMe™ M.2 SS (Intel® Optane™)¹⁰

128 GB SATA-3 SS TLC¹⁰

256 GB PCIe® NVMe™ SS Value¹⁰

256 GB PCIe® Gen3x4 NVMe™ SS TLC¹⁰

256 GB SATA TLC SED OPAL 2¹⁰

360 GB PCIe® Gen3x4 NVMe™ SS TLC (Intel®)¹⁰

512 GB PCIe® Gen3x4 NVMe™ SS TLC¹⁰

512 GB PCIe® Gen3x4 NVMe™ SS TLC Opal 2¹⁰

1 TB PCIe® Gen3x4 NVMe™ SS TLC¹⁰

2 TB PCIe® Gen3x4 NVMe™ SS TLC¹⁰

10. 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.

MEMORY

Maximum Memory

16 GB LPDDR3-2133 SDRAM¹¹

Memory

8 GB LPDDR3-2133 SDRAM¹¹

16 GB LPDDR3-2133 SDRAM¹¹

Memory Slots

System runs at 2133

Memory soldered down (customer non-accessible)

Supports Dual Channel Memory

11. 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® Dual Band Wireless-AC 8265 802.11 a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, vPro™¹²

Intel® Dual Band Wireless-AC 8265 802.11 a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, non-vPro™¹²

WWAN

HP lt4132 LTE HSPA+ with GPS Huawei ME906S (CAT4)¹³

Intel XMM 7360 LTE-Advanced (CAT9)¹³

Qualcomm Snapdragon X12 LTE-Advanced (CAT9)¹³

NFC

NXP NPC300 Near Field Communication Module

Miracast

Support for Miracast¹⁴

Features

12. 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.
13. WWAN is an optional feature 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.
14. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
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AUDIO/MULTIMEDIA

Audio

Audio by Bang & Olufsen
Integrated 3 Multi Array Microphone
4 Premium Speakers with discrete amps (80Db)

Camera

FHD Camera⁶
IR Camera⁶

6. HD content required to view HD images.
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Features

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

Full size
HP Premium Colaboration Keyboard
Backlit
DuraKeys
Spill-resistant

Pointing Device

Clickpad (glass cover) with multi-touch gestures enabled, taps enabled as default
Microsoft Precision Touchpad Default Gestures Support

Function Keys

F1 - 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

Hidden Function Keys

Fn+E - Insert
Fn+W - Pause

Sensors

Accelerometer
Magnetometer
Gyro
ALS (ambient light sensor)
Hall Sensor

Features

SOFTWARE AND SECURITY

Preinstalled Software

BIOS

HP BIOSphere Gen4 [15]
HP DriveLock & Automatic DriveLock
BIOS Update via Network
Master Boot Record Security
Power On Authentication
Secure Erase [16]
Absolute Persistence Module [17]
Pre-boot Authentication
HP Wireless Wakeup

Software

HP Native Miracast Support [14]
HP LAN-Wireless Protection
HP Velocity
HP ePrint Driver + JetAdvantage [18]
HP Hotkey Support - CMIT
HP Recovery Manager
HP Jumpstart
HP Support Assistant [19]
HP Noise Cancellation Software
HP PhoneWise [26]
Buy Office (Sold separately)

Manageability Features

HP Driver Packs [20]
HP System Software Manager (SSM)
HP BIOS Config Utility (BCU)
HP Client Catalog
HP Manageability Integration Kit Gen2 [21]
Ivanti Management Suite [22]

Client Security Software

HP Client Security Suite Gen4 [23] including:
HP Security Manager [24] (Including Credential Manager, HP Password Manager, HP Spare Key)
HP Fingerprint Sensor [28]
HP Device Access Manager
HP Power On Authentication
Microsoft Defender [25]

Features

Security Management

Secure Erase [16]

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

SATA 0,1 port disablement (viaBIOS)

RAID configurations [29]

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 [30]

HP Sure Start Gen4 [27]

HP Sure Run [31]

HP Sure Recover [32]

Security

MD5 Hash: Please follow the instructions below to access MD5 Hash.

WWAN: TBD

WLAN: TBD

Is the BIOS on this notebook ISO/IEC 19678:2015 (formerly NIST 800-147) compliant?:

Yes / No

UEFI version:

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

15. HP BIOSphere Gen4 requires Intel® or AMD® 8th Gen processors. Features may vary depending on the platform and configurations.

16. Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method.

17. 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.

18. 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 www.hp.com/go/eprintcenter). Print times and connection speeds may vary.

19. HP Support Assistant requires Windows and Internet access.

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

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

22. Ivanti Management Suite subscription required.

23. HP Client Security Suite Gen 4 requires Windows and Intel® or AMD® 8th generation processors.

Features

- 24. 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.
- 25. Microsoft Defender Opt in and internet connection required for updates.
- 26. HP PhoneWise Client may not be available with HP Workwise. For supported platforms and HP PhoneWise system requirements see www.hp.com/go/HPPhoneWise.
- 27. HP Sure Start Gen4 is available on HP EliteBook products equipped with Intel® 8th generation processors.
- 28. HP Fingerprint Sensor sold separately or as an optional feature.
- 29. RAID configuration is optional and does require a second hard drive.
- 30. 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. Check <http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-0922ENW> for all compatible platforms as they become available.
- 31. HP Sure Run is available on HP Elite products equipped with 8th generation Intel® or AMD® processors.
- 32. 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.

Features

POWER

Power Supply

65 W USB Type-C™ AC adapter

Primary Battery

HP Long Life 4-cell, 56.2 Wh Li-ion³³
Supports battery fast charge

Power Cord

Power cord included is 1.0 m (+/- 0.1 m)

Battery Life

Up to 18 hours (With FHD panel)³⁴
Up to 11 hours (With 4K panel)³⁴

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

34. 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 2.76 lb³⁵
Starting at 1.25 kg³⁵

Dimensions (w x d x h)

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

35. Weight will vary by configuration.

Features

PORTS/SLOTS

Ports

- 2 Thunderbolt™ (USB Type-C™ connector)
- 1 USB 3.1 Gen 1 (Charging)
- 1 HDMI 1.4³⁶
- 1 External Nano SIM slot for WWAN
- 1 Headphone/microphone combo

36. 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. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: <http://www.hp.com/go/cpc>.³⁷

37. 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.

Technical Specifications

DISPLAYS

Panel LCD 13.3 inch FHD (1920x1080) BrightView WLED D) UWVA 72percent cg 400nits eDP 1.3+PSR ultraslim NB bent	Outline Dimensions (W x H x D)	299.76 x 177.24 max. (FPC folding included)
	Active Area	293.76 x 165.24
	Weight	170g 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	400nits typ.
	Pixel Resolution	1920x1280
	Format	RGB strip
	Backlight	LED
	Color Gamut Coverage	72%
	Color Depth	6 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.

Technical Specifications

Panel LCD 13.3 inch FHD (1920x1080) Anti-Glare WLED UWVA 72percent cg 700nits eDP 1.3+PSR ultraslim NB Privacy	Outline Dimensions (W x H x D)	300.56 x 178.39 mm (max.)
	Active Area	293.86 x 165.34 mm (max.)
	Weight	205g (max.)
	Diagonal Size	13.3"
	Thickness	2.0 mm / 3.9 mm (max.)
	Interface	eDP 1.4a
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	Sharing mode, 600:1 (typ.) Privacy mode, 150:1 (typ.)
	Refresh Rate	120Hz
	Brightness	Sharing mode, 700 nits (typ.) Privacy mode, 320 nits (typ.)
	Pixel Resolution	1920x1080
	Format	RGB strip
	Backlight	LED
	Color Gamut Coverage	Sharing mode, 72% Privacy mode, 60%
Color Depth	6 bits + Hi FRC	
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.)	

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

Technical Specifications

Panel LCD 13.3 inch UHD (3840x2160) BrightView WLED D)	Outline Dimensions (W x H x D)	299.26 x 177.51 (FPC folding included)
UWVA 72percent cg 500nits eDP 1.3+PSR ultraslim NB bent	Active Area	293.76 x 165.24 mm
	Weight	190g 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	60Hz
	Brightness	500nits typ.
	Pixel Resolution	3840 x 2160 (UHD)
	Format	RGB strip
	Backlight	LED
	Color Gamut Coverage	72%
	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.

Technical Specifications

STORAGE

SSD 128GB 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	Up To 520 MB/s
	Maximum Sequential Write	Up To 450 MB/s
	Logical Blocks	250,069,680
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	DIPM; TRIM; DEVSLP

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 50 GB (for Windows 10) of system disk is reserved for the 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
	Maximum Sequential Read	Up To 2600 MB/s
	Maximum Sequential Write	Up To 900 MB/s
	Logical Blocks	500,118,192
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	TRIM; L1.2

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 50 GB (for Windows 10) of system disk is reserved for the system recovery software.

SSD 256 GB 2280 M2 SATA-3 Self Encrypted OPAL2 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)

Technical Specifications

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

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 50 GB (for Windows 10) of system disk is reserved for the system recovery software.

SSD 256 GB 2280 PCIe NVMe Value	Form Factor	M.2 2280
	Capacity	360 GB
	NAND Type	MLC
	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 600 MB/s
	Logical Blocks	703,282,608
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	TRIM; L1.2

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 50 GB (for Windows 10) of system disk is reserved for the system recovery software.

SSD 360 GB 2280 PCIe-3x4 NVMe Three Layer Cell	Form Factor	0.02 lb (10 g)
	Capacity	360 GB
	NAND Type	MLC
	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 600 MB/s
	Logical Blocks	703,282,608

Technical Specifications

Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
Features	TRIM; L1.2

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 50 GB (for Windows 10) of system disk is reserved for the system recovery software.

SSD 512 GB 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, TRIM; L1.2	

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 50 GB (for Windows 10) of system disk is reserved for the system recovery software.

SSD 512 GB 2280 M2 SATA-3 Three Layer Cell Federal Information Processing Standard	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	ACS-3, SATA 3.2
	Maximum Sequential Read	Up To 530 MB/s
	Maximum Sequential Write	Up To 400 MB/s
	Logical Blocks	1,000,215,216
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
Features	TCG Opal 2.0; FIPS, DIPM; TRIM; DEVSLP	

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 50 GB (for Windows 10) of system disk is reserved for the system recovery software.

Technical Specifications

SSD 512 GB 2280 PCIe-3x4 NVMe Self Encrypted OPAL2 Three Layer Cell	Drive Weight	0.02 lb (10 g)
	Capacity	512 GB
	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 2900 MB/s
	Maximum Sequential Write	Up To 1400 MB/s
	Logical Blocks	1,000,215,215
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	TCG Opal2, TRIM; L1.2

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 50 GB (for Windows 10) of system disk is reserved for the system recovery software.

SSD 1TB 2280 PCIe-3x4 NVMe Three Layer Cell single-sided	Form Factor	0.02 lb (10 g)
	Capacity	1TB
	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 2900 MB/s
	Maximum Sequential Write	Up To 2000 MB/s
	Logical Blocks	2,000,409,263
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
Features	TRIM; L1.2	

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 50 GB (for Windows 10) of system disk is reserved for the system recovery software.

Technical Specifications

SSD 2TB 2280 PCIe-3x4 NVMe Three Layer Cell single-sided	Form Factor	M.2 2280
	Capacity	2TB
	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 2900 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, DIPM; TRIM; DEVSLP

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 50 GB (for Windows 10) of system disk is reserved for the system recovery software.

Technical Specifications

POWER

AC Adapter 65 Watt nPFC Slim USB type C Straight 1.8m (MissPiggy)	Dimensions	88.0x53.5x21.0mm
	Weight	220g +/- 10g
	Input	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%
	Output	Input frequency range 48 ~ 63 Hz Input AC current Max. 1.7 A at 90 VAC Output power 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 Output current limit < 8.0A
	Connector	USB Type-C
	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	CE Mark- full compliance with LVD and EMC directives; Worldwide safety standards- IEC950, EN60950, UL1950, Class 1, SELV; Agency approvals- C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCIB, NOM-1 NYCE; MTBF- over 200,000 hours at 25°C ambient condition.

Technical Specifications

Battery ME 4 Cell WHr 50 Long Life -PL Fast Charge	Dimensions (H x W x L)	4.0 x 96.62 x 231.8 mm (0.157 x 3.804 x 9.126 inch)
	Weight	0.188kg (0.415 lb)
	Cells/Type	4cell Lithium-Ion Polymer cell / 385784
	Energy	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)
	Fuel Gauge LED	No
	Optional Travel Battery Available	No

COUNTRY OF ORIGIN

China

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

Type	Description	Part #
Cases	HP Slim Ultrabook Top Load	F3W15AA#xxx
	HP Exec Midnight 15.6" Backpack	1KM16AA#xxx
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 w/4.5mm Adapter	2UF95AA
	HP USB-C Universal Dock NF	3DV65AA
	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 Elite Presenter Mouse	2CE30AA#xxx
	HP Stereo 3.5mm Headset	T1A66AA#xxx
	HP Stereo USB Headset	T1A67AA#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 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
	HP USB-C to USB-A Hub	Z6A00AA#xxx
Power	HP 65W USB-C Power Adapter	1HE08AA#xxx
	HP 65W USB-C Slim Power Adapter	3PN48AA
	HP USB-C Notebook Power Bank	1TZ86AA#xxx
Memory	HP 4 GB DDR4-2666 SODIMM	TBD
	HP 8 GB DDR4-2666 SODIMM	TBD
	HP 16 GB DDR4-2666 SODIMM	TBD
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 Speaker Phone	K7V16AA#xxx
	HP UC Wired Headset	K7V17AA#xxx
	HP UC Wireless Mono Headset	W3K08AA#xxx
	HP UC Wireless Duo Headset	W3K09AA#xxx
Displays	HP EliteDisplay E243 23.8-inch Monitor	1FH47AA
	HP EliteDisplay E273q 27-inch QHD Monitor	1FH52AA
	HP EliteDisplay E273m 27-inch Collaboration Monitor	1FH51AA
	HP EliteDisplay S240n 23.8-inch Monitor	W9A88AA
	HP EliteDisplay S270n 27-inch 4K Monitor	2PD37AA

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

Docking station model	Total number of supported displays (incl. the notebook display)	Max.resolutions supported	Dock Connectors	Technical limitations
HP UltraSlim Docking Station	3	Dual 2.5K @ 60Hz	2xDP, 1xVGA	Dual 2.5k only with both displays into DP
HP Elite 120W TB3 Dock	3	Dual 4K @ 60Hz	"2xDP, 1xVGA, 1xTB,	Dual 4k only with one display in to DP and + TB port or USB-C alt mode + TB port
HP Elite USB-C Dock G4	3	"Dual 2K @ 60Hz	1xUSB-C alt-mode"	
HP USB-C Universal Dock	3	Single 4K @ 60Hz (3840 x 1440)"	1xHDMI, 2xDP	
HP USB-C Travel Dock	2	Dual 4K @ 60Hz	2xDP	Single external display Only HDMI or VGA at the time
HP USB-C Mini Dock	2	Single 5K @ 60Hz	1xHDMI, 1xVGA	Single external display Only HDMI or VGA at the time

Summary of Changes

Date of change:	Version History:		Description of change:
	v1 to v2		

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