Overview

HP Elite x360 830 13 inch G10 2-in-1 Notebook PC



- 1. Internal Microphones (2)
- 2. Ambient Light Sensor (Optional)
- 3. Webcam
- 4. Camera Shutter
- 5 IR Camera (Optional)
- 6. IR Camera LEDs (Optional)
- 7. NFC Sensor

Left

- 8. Glass Clickpad
- 9. Smartcard Reader (Optional)
- 10. LED Indicator
- **11.** Thunderbolt[™] 4 with USB4 Type-C[®] 40Gbps signaling rate (USB Power Delivery, DisplayPort[™] 1.4)¹
- **12.** Thunderbolt[™] 4 with USB4 Type-C[®] 40Gbps signaling rate (USB Power Delivery, DisplayPort[™] 1.4)¹
- 13. SuperSpeed USB Type-A 5Gbps signaling rate (USB 3.2 Gen 1)
- 14. HDMI 2.1 Port (Cable not included)

1. SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.

Overview



Right

- 1. Power Button Key
- 2. Audio Combo Jack
- **3.** SuperSpeed USB Type-A 5Gbps signaling rate (Charging) (USB 3.2 Gen 1)
- 4. Nano Security Lock Slot (Lock sold separately)
- 5. SIM Card Slot (Optional)
- 6. Touch Fingerprint Sensor (Select models)

Overview



Overview

At a Glance

- Preinstalled with Windows 11 versions or FreeDOS
- Premium ultraslim design with precision-crafted all-metal x360 design with four usage modes
- 13th Generation Intel® Core™ i5, i7 U-series Processors up to ten-core
- New LPDDR5-4800memory with up to 32GB capacity
- 5MP camera with increased 88° field of view allows you to move around more freely in front on the camera or accommodate a group
- Optional ultrabright displays with HP Eye Ease, ambient light and ambient color sensors
- Choice of displays:
- 33.8 cm (13.3") diagonal WUXGA IPS LED-backlit BrightView touch with Corning® Gorilla® Glass 5, 250 nits, 45% NTSC
 33.8 cm (13.3") diagonal WUXGA IPS LED-backlit BrightView touch with Corning® Gorilla® Glass 5, 400 nits, 100% sRGB with Low Power with HP Eye Ease
 - 33.8 cm (13.3") diagonal WUXGA IPS LED-backlit Anti-Glare glass touch with Corning® Gorilla® Glass 5, 400 nits, 100% sRGB with Low Power with HP Eye Ease
 - 33.8 cm (13.3") diagonal WUXGA IPS LED-backlit BrightView touch with Corning® Gorilla® Glass 5, 1000 nits, 100% sRGB with HP Sure View Reflect Integrated Privacy Screen with HP Eye Ease
 - 33.8 cm (13.3") diagonal WUXGA IPS LED-backlit Anti-Glare glass touch with Corning® Gorilla® Glass 5, 1000 nits, 100% sRGB with HP Sure View Reflect Integrated Privacy Screen with HP Eye Ease
- New enhanced HP Auto Frame provides improved face tracking and more natural framing movement
- New "Be Right Back" functionality allows you to set an image and notify meeting participants you'll "BRB" when you need to leave for a few minutes
- Choose from 38Whr or 51Whr battery options
- HP Wolf Security for Business creates a hardware-enforced, always-on, resilient defense
- Connectivity with optional Intel® 5000 5G/WWAN, and Thunderbolt™ Docking (Dock sold separately)
- Undergoes MIL-STD 810H tests¹
- An optional HP Rechargeable Active Pen with Magnetic Attach and 4096 Levels of pressure
- Supports fast charging (50% in 30 minutes) with no impact on battery recharge cycles
- Designed to support all HP docking options including the HP Universal Dock G5
- Can be wiped up to 10,000 times with germicidal cleaning wipes²
- 1. MIL-STD 810H 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.
- 2. Approved germicidal wipes for use on Select HP Platforms

https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-9819ENW

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



Technical Specifications

PRODUCT NAME

HP EliteBook x360 830 13 inch G10 2-in-1 Notebook PC

OPERATING SYSTEMS

Preinstalled Windows 11 Pro 1

Windows 11 Pro Education 1

Windows 11 Home - HP recommends Windows 11 Pro for Business1

Windows 11 Home Single Language – HP recommends Windows 11 Pro for Business 1

Windows 11 Pro (Windows 11 Enterprise or Windows 10 Enterprise available with a Volume Licensing

Agreement) 1

Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade) 1,2

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 is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.
- 2. This system is preinstalled with Windows 10 Pro software and also comes with a license for Windows 11 Pro software and provision for recovery software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.

PROCESSORS

Processor	Cores	Number of	Number of	Threads	L3 Cache		Turbo uency	Ba Frequ	ise iency	Intel SIPP/vPro® Enterprise	Intel vPro® Essentials
		P-cores	E-cores		Cacile	P-	E-	P-	E-		
						cores	cores	cores	cores		
Intel® Core™	10	2	8	12	12 MB	5.2	3.9	1.8	1.3	Х	
i7-1365U	10		0	12	I Z MD	GHz	GHz	GHz	GHz		
Intel® Core™	10	2	8	12	12 MB	5.0	3.7	1.7	1.2		
i7-1355U	10		0	12	I Z MD	GHz	GHz	GHz	GHz		
Intel® Core™	10	2	8	12	12 MB	4.7	3.5	1.6	1.2	Х	
i5-1345U	4	8	12	12 12 MD	GHz	GHz	GHz	GHz			
Intel® Core™	10	2	8	12	12 MB	4.6	3.4	1.3	0.9		Х
i5-1335U	10		8	12	I Z MB	GHz	GHz	GHz	GHz		

- 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.



Technical Specifications

5. Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.

6. 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. Intel vPro® requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro® Essentials and Enterprise vary. See http://intel.com/vpro

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

Intel® Iris® Xe Graphics

Supports

Support HD decode, DX12, HDMI 2.1, HDCP 2.3 8

8. HDMI cable sold separately

DISPLAY

Touch

33.8 cm (13.3") diagonal WUXGA Bent touch screen , BrightView UWVA, eDP, 250 nits, 45% NTSC with 5MP camera (1920 x 1200) 10,11,13

33.8 cm (13.3") diagonal WUXGA Bent touch screen , BrightView UWVA, eDP, 250 nits, 45% NTSC with 5MP camera for $WWAN(1920 \times 1200)^{10,11,13}$

Power, Ambient Light Sensor+Ambient Color Sensor with 5MP+IR Camera (1920 x 1200) with HP Eye Ease 10,11,13 33.8 cm (13.3") diagonal WUXGA Bent touch screen, Low Blue Light, anti-glare UWVA eDP1.4+PSR, 400 nits, 100% sRGB, Low Power, Ambient Light Sensor+Ambient Color Sensor with 5MP+IR Camera for WWAN (1920 x 1200) with HP Eye Ease 10,11,13 33.8 cm (13.3") diagonal WUXGA Bent touch screen, Low Blue Light, BrightView UWVA eDP1.4+PSR, 400 nits, 100% sRGB, Low Power, Ambient Light Sensor+Ambient Color Sensor with 5MP+IR Camera (1920 x 1200) with HP Eye Ease 10,11,13 33.8 cm (13.3") diagonal WUXGA Bent touch screen, Low Blue Light, BrightView UWVA eDP1.4+PSR, 400 nits, 100% sRGB, Low Power, Ambient Light Sensor+Ambient Color Sensor with 5MP+IR Camera for WWAN (1920 x 1200) with HP Eye Ease 10,11,13

33.8 cm (13.3") diagonal WUXGA Bent touch screen, Low Blue Light, anti-glare UWVA eDP1.4+PSR, 400 nits, 100% sRGB, Low

Power, Ambient Light Sensor+Ambient Color Sensor with 5MP+IR Camera for WWAN (1920 x 1200) with HP Eye Ease ^{10,11,13} 33.8 cm (13.3") diagonal WUXGA Bent touch screen, Low Blue Light, anti-glare UWVA eDP+PSR, 1000 nits, 100% sRGB with HP Sure View Reflect integrated privacy screen, Ambient Light Sensor+Ambient Color Sensor with 5MP+IR camera (1920 x 1200) with HP Eye Ease ^{10,11,12,13}

33.8 cm (13.3") diagonal WUXGA Bent touch screen, Low Blue Light, BrightView UWVA eDP+PSR, 1000 nits, 100% sRGB with HP Sure View Reflect integrated privacy screen, Ambient Light Sensor+Ambient Color Sensor with 5MP+IR camera (1920 x 1200) with HP Eye Ease 10,11,12,13



33.8 cm (13.3") diagonal WUXGA Bent touch screen, Low Blue Light, anti-glare UWVA eDP+PSR, 1000 nits, 100% sRGB with HP Sure View Reflect integrated privacy screen, Ambient Light Sensor+Ambient Color Sensor with 5MP+IR camera for WWAN (1920 x 1200) with HP Eve Ease ^{10,11,12,13}

33.8 cm (13.3") diagonal WUXGA Bent touch screen, Low Blue Light, BrightView UWVA eDP+PSR, 1000 nits, 100% sRGB with HP Sure View Reflect integrated privacy screen, Ambient Light Sensor+Ambient Color Sensor with 5MP+IR camera for WWAN (1920 x 1200) wit HP Eye Ease 10,11,12,13

DisplayPort™ 1.4

HDMI 2.1 Support resolution up to 4K @60 Hz 9

Displays support

Supports dual display through the dock

Display Size (Diagonal)

13.3" diagonal 33.8 cm (13.3") diagonal

9. HDMI cable sold separately

10. HD content required to view HD images.

- 11. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 12. HP Sure View Reflect integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.
- 13. Actual brightness will be lower with touchscreen or Sure View.

DOCKING (Sold Separately)

Docking station model #1HP Thunderbolt 120W G4 DockDocking station model #2HP Thunderbolt 280W G4 Dock

Docking station model #3 HP USB-C Dock G5

Docking station model #4 HP USB-C/A Universal Dock G2 For additional aftermarket options and docking specs please see page 42.



Technical Specifications

STORAGE AND DRIVES

Primary Storage

2 TB PCIe® Gen4x4 NVMe™ M.2 SSD TLC ¹⁴
1 TB PCIe® Gen4x4 NVMe™ NMIC SSD TLC ¹⁴
1 TB PCIe® Gen4x4 NVMe™ M.2 SSD TLC ¹⁴
1 TB PCIe® Gen4x4 NVMe™ SED TLC NMIC OPAL2 ¹⁴
1 TB PCIe® Gen4x4 NVMe™ SED TLC OPAL2 ¹⁴
512 GB PCIe® Gen4x4 NVMe™ SED TLC OPAL2 ¹⁴
512 GB PCIe® Gen4x4 NVMe™ SED TLC OPAL2 ¹⁴
512 GB PCIe® NVMe™ Value NMIC M.2 SSD TLC ¹⁴
512 GB PCIe® NVMe™ Value SSD ¹⁴
256 GB PCIe® Gen4x4 NVMe™ Value SED TLC OPAL2 ¹⁴
256 GB PCIe® NVMe™ Value M.2 SSD ¹⁴

14. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10 and 11) is reserved for system recovery software.

MEMORY

Maximum Memory

32 GB LPDDR5-4800MHz RAM 15

Memory

32 GB LPDDR5-4800MHzRAM ¹⁵ 16 GB LPDDR5-4800MHzRAM¹⁵ 8 GB LPDDR5-4800 MHz RAM¹⁵

Memory Slots

Memory soldered down LPDDR5, System runs at: 4800MHz Supports Dual Channel Memory

15. 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.



Technical Specifications

NETWORKING/COMMUNICATIONS

WLAN

Intel® AX211 Wi-Fi6E+ Bluetooth® 5.3 M.2 160MHz CNVi World-Wide WLAN vPro Wireless Card ¹⁶ Intel® AX211 Wi-Fi6E+ Bluetooth® 5.3 M.2 160MHz CNVi World-Wide WLAN non-vPro Wireless Card ¹⁶

WWAN

Intel® 5000 5G Solution WWAN ^{17,18}
Intel® XMM 7560 R+ LTE-Advanced Pro WWAN (Cat 16) ¹⁷

NFC

Near Field Communication (NFC) module ¹⁹
HP Module with NXP NFC Controller NPC300 I2C NCI

Miracast

Native Miracast Support 20

- 16. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.
- 17. WWAN module is an optional feature, requires factory configuration 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.
- 18. Intel 5G module is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported.
- 19. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
- 20. Sold separately or as an optional feature.



Technical Specifications

AUDIO/MULTIMEDIA

Audio

Audio by Bang & Olufsen
2 Integrated stereo speakers
Discrete Amplifiers
Integrated dual array microphone

Speaker Power

1W/8ohm Per speaker

Camera

5 MP camera ²¹ 5 MP+IR camera ²¹

5 MP + IR camera for face authentication with Windows Hello

Sensors

ALS (ambient light sensor)
Adaptive Color Sensor
Hall effect Sensor
Motion AI LSM6DSL
Thermal Sensor
HP Tamper Lock ²²
Magnetometer
Accelerometer + Gyroscope

- 21. Sold separately or as an optional feature.
- 22. HP Tamper Lock must be enabled by the customer or your administrator.



Technical Specifications

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Premium Keyboard, spill resistant, Backlit keyboard and DuraKeys ²³ HP Premium Keyboard, spill resistant, Non-Backlit keyboard and DuraKeys HP Premium Keyboard, spill resistant, Backlit keyboard and DuraKeys Privacy

Pointing Device

Clickpad with multi-touch gesture support, taps enabled as default Microsoft Precision Touchpad Default Gestures Support

Function Keys

ESC: system information

F1 - Display Switching

F2 - Blank or Privacy

F3 - Brightness Down

F4 - Brightness Up

F5 - Audio Mute

F6 - Volume Down

F7 - Volume Up

F8 - Mic Mute

F9 - Blank or Backlit Toggle

F10 - Insert

F11 - Airplane Mode

F12 - HP Command Center

home

end

Power Button (with LED)

Delete

Hidden Function Keys

Fn+R - Break

Fn+S - Svs Ra

Fn+C - Scroll Lock

23. Backlit keyboard is an optional feature.



Technical Specifications

SOFTWARE AND SECURITY

Preinstalled Software

Software

HP Easy Clean 24

HP PC Hardware Diagnostics Windows

mvHP

HP Smart Support 25

HP Services Scan 26

HP Connection Optimizer

HP Hotkey Support

HP Support Assistant²⁷

HP Notifications

HP Privacy Settings

HP Power Manager 28

Microsoft Office sold separately and requires Internet access for activation

Manageability Features

HP Connect 29

HP Image Assistant Gen5 (download)

HP Manageability Integration Kit (download) 30

HP Client Management Script Library (download)

HP Patch Assistant (download) 31

HP Driver Packs (download)

HP Client Catalog (download)

HP Cloud Recovery 32

Security Management

HP Wolf Security for Business 33 includes:

HP Sure Click 34

HP Sure Sense 35

HP Sure Run 36

HP Sure Recover³⁷

HP Sure Start 38

HP Tamper Lock 39

HP Sure Admin 40

BIOS

HP BIOSphere Gen6 41

HP Secure Erase 42

Absolute Persistence Module 43

BIOS Update via Network

HP Wake on WLAN

Secured-Core PC Enable 44

TPM 2.0 Embedded Security Chip (Common Criteria EAL4+ Certified) (FIPS 140-2 Level 2 Certified)

HP Fingerprint Sensor 45

Security

TPM

Model: Nuvoton NPCT760HABYX



Technical Specifications

Version: 7.2.3.1 Revision: TPM 2.0

FIPS 140-2 Compliant: Yes

Model: Infinion SLB9672VU2.0

Version: 15.23 Revision TPM2.0

FIPS 140-2 Compliant: Yes

Smartcard Reader

Model number: Alcor AU9560 FIPS 201 Compliant: Yes

IPv6 Support

Yes

FirstNet Certified

Yes

The BIOS on this notebook implements ISO/IEC 19678:2015 guidelines (formerly NIST 800-147).

UEFI version: 2.7

Class: 3

- 24. HP Easy Clean requires Windows 10 RS3 and higher and will disable the keyboard, touchscreen, and clickpad only. Ports are not disabled. See user guide for cleaning instructions.
- 25. HP Smart Support requires HP TechPulse to be installed. For more information about how to enable or to download HP Smart Support, please visit http://www.hp.com/smart-support.
- 26. HP Services Scan is provided with Windows Update on select products and will check entitlement on each hardware device to determine if an HP TechPulse-enabled service has been purchased, and will download applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP TechPulse follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access with connection to TechPulse portal is required. For full system requirements or to disable this feature, please visit http://www.hpdaas.com/requirements. Not applicable in China.
- 27. HP Support Assistance requires Windows and Internet Access
- 28. HP Power Manager requires Windows 10 and higher and can be downloaded from the Microsoft Store.
- 29. HP Connect for Microsoft Endpoint Manager is available from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager. Subscription to Microsoft Endpoint Manager required and sold separately. Network connection required.
- 30. HP Manageability Integration Kit can be downloaded from

http://www8.hp.com/us/en/ads/clientmanagement/overview.html.

31. HP Patch Assistant available on select HP PCs with the HP Manageability Kit that are managed through Microsoft System Center Configuration Manager. HP Manageability Integration Kit can be downloaded from

http://www8.hp.com/us/en/ads/clientmanagement/overview.html.

- 32. HP Cloud Recovery is available for Z by HP, 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. Details please refer to: https://support.hp.com/us-en/document/c05115630.
- 33. HP Wolf Security for Business requires Windows 10 or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features and OS requirement.
- 34. HP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.



Technical Specifications

- 35. HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS
- 36. HP Sure Run Gen5 is available on select HP PCs and requires Windows 10 and higher.
- 37. HP Sure Recover Gen5 with Embedded Reimaging is an optional feature which requires Windows 10 and higher must be configured at purchase. You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Network based recovery using Wi-Fi is only available on PCs with Intel Wi-Fi Module
- 38. HP Sure Start Gen7 is available on select HP PCs and requires Windows 10 and higher
- 39. HP Tamper Lock must be enabled by the customer or your administrator.
- 40. HP Sure Admin requires Windows 10 or higher, HP BIOS, HP Manageability Integration Kit from http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store
- 41. HP BIOSphere Gen6 features may vary depending on the platform and configuration.
- 42. 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™.
- 43. Absolute firmware module is shipped turned off and can only be activated with the purchase a license subscription and full activation of the software agent. License subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. Certain conditions apply. For full details visit: https://www.absolute.com/about/legal/agreements/absolute/
- 44. Secured-Core PC Enable requires an Intel® vPro®, AMD Ryzen™ Pro processor or Qualcomm® processor with SD850 or higher and requires 8 GB or more system memory. Secured-core PC is enabled from the factory.
- 45. HP Fingerprint sensor is an optional feature that must be configured at purchase.



Technical Specifications

POWER

Power Supply

HP Smart 65 W USB Type-C[®] adapter ⁴⁶ HP Smart 45 W USB Type-C[®] adapter ⁴⁶

Battery

HP Long Life 3-cell, 38 Wh Polymer ^{47,48} HP Long Life 3-cell, 38 Wh Polymer SET ^{47,48} HP Long Life 3-cell, 51 Wh Polymer ^{47,48}

Power Cord

3-wire plug - 1m ⁴⁶ 2-wire plug - 1m ⁴⁶

Battery Life

Up to 14 hours 45mins (U15, HP Long Life 3-cell, 51 Wh Li-ion Polymer, UMA graphic, display set to 200nits, 16GB LPDDR5 memory, 512GB NVMe SSD)⁴⁹

- 46. Availability may vary by country.
- 47. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 48. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.
- 49. MM18 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

Product Weight⁵⁰

Starting at 2.95 lb Starting at 1.34 kg

Product Dimensions (W x D x H)

11.81 x 8.51 x 0.76 in 30.01 x 21.62 x 1.92 cm

Packaging Dimensions (W \times D \times H) ⁵¹

12"-15" boxes (305mm height): 1200mm x 1000mm x 1080mm

- 50. Weight will vary by configuration. Does not include power adapter.
- 51. Product packaging size varies based on options chosen. Please contact your HP representative for your packaging size details.



Technical Specifications

PORTS/SLOTS

- 2 Thunderbolt™ 4 with USB4 Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4) 52
- 2 Super Speed USB Type-A 5Gbps signaling rate (1 charging)
- 1 HDMI 2.1 9
- 1 Headphone/microphone combo jack
- 1 Nano Security Lock Slot (Lock sold separately)
- 1 Smartcard reader (Optional)
- 1 nano SIM card slot
- 52. SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.
- 9. HDMI cable sold separately '.

SERVICE AND SUPPORT

1-year warranty and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty except for HP Long Life batteries which will follow the one or three year warranty of 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. 53

53. 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.



SYSTEM UNIT

Stand-Alone Power Requirements Type-C Adapter

(AC Power)

Nominal Operating Voltage AC 20V

Average Operating Power

Integrated graphics Yes
Discrete Graphics N/A
Max Operating Power 65W

Temperature

Operating 32° to 95° F (0° to 35° C)

(No sustained direct exposure to sunlight)

(System performance may be reduced above 32°C (89.6°F))

Non-operating -4° to 140° F (-20° to 60° C)

Relative Humidity

Operating 10% to 90% (non-condensing)

Non-operating 5% to 95%

(38.7° C (101.6° F) maximum wet bulb tempera-ture; non-condensing)

Shock

Operating 40 G, 2 ms, half-sine Non-operating 240 G, 2 ms, half-sine

Random Vibration

Operating 1.043 grams
Non-operating 3.5 grams

Altitude (unpressurized)

Operating 10,000 ft (3,048 m) Non-operating 40,000 ft (12,192 m)

Planned Industry Standard

Certifications

Regulatory Model Number HSN-I46C CSA/UL 62368-1 Yes ENERGY STAR® Yes 54

EPEAT® Gold in the United States 55

FCC/ICES/CISPR/VCCI Yes
CE MARKING Yes
GS Mark Yes

Related commodity should comply with ISO 9241 Standards.

China CCC/SRRC Yes Taiwan BSMI/NCC Yes Korea KCC/KC/KES Yes **Ukraine NSoC/TEC** Yes **EAEU Compliance** Yes Saudi Arabian Compliance Yes Yes Low Blue Light Yes **WW RoHS** Yes



54. Configurations of the HP EliteBook x360 830 13 inch G10 2-in-1 Notebook PC that are ENERGY STAR® qualified are identified as HP EliteBook x360 830 13 inch G10 2-in-1 Notebook PC ENERGY STAR on HP websites and on http://www.energystar.gov. 55. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit http://www.epeat.net for more information.

DISPLAYS

1. Actual brightness will be lower with touchscreen or HP Sure View. **NOTE:** All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

13.3 in WUXGA (1920 x 1200) Anti-Glare UWVA WLED+LBL sRGB NB2Y 1000 eDP 1.3+PSR 100 PrivacyG4 Plus bent LCD Panel

 Outline Dimensions (W x H x D)
 291.380 x 188.640 (max)

 Active Area
 286.080 x 178.800 (typ)

Weight 210 (max)
Diagonal Size 13.3
Surface Treatment Anti-Glare
Touch Enabled Yes

Contrast Ratio 1500:1 (typ)

Refresh Rate 60 Hz
Brightness 1000 nits¹

Pixel Resolution - Format 1920 x1200 (WUXGA)

BacklightRGBPixel ResolutionWLEDColor Gamut CoveragesRGB 100%

Color Depth 8

Viewing Angle UWVA 85/85/85

Low Blue Light Yes
Power Consumption (W, EBL@ N/A

150nits max/ 200nits max)

13.3 in WUXGA (1920 x 1200) Anti-Glare UWVA LED NTSC NB2X 250 eDP 1.2 w/o PSR 45 bent LCD Panel

 Outline Dimensions (W x H x D)
 292.040 x 189.830 (max)

 Active Area
 286.040 x 178.780 (typ)

Weight 280 (max)

Diagonal Size 13.3

Surface Treatment Anti-Glare

Touch Enabled Yes

Contrast Ratio1000:1(typ)Refresh Rate60 HzBrightness250 nits 1

Pixel Resolution - Format 1920 x 1200 (WUXGA)

Backlight RGB



Pixel Resolution WLED
Color Gamut Coverage NTSC 45%

Color Depth 6+2

Viewing Angle UWVA 89/89/89

Low Blue Light No

Power Consumption (W, EBL@

150nits max/ 200nits max) 2.26 (max) / 2.78 (max)

13.3 in WUXGA (1920 x 1200) Anti-Glare UWVA WLED+LBL sRGB NB2X 400 eDP 1.4+PSR2 Low-Power 100 bent LCD Panel

 Outline Dimensions (W x H x D)
 292.040 x 189.830 (max)

 Active Area
 286.040 x 178.780 (typ)

Weight 185 (max)
Diagonal Size 13.3

Surface Treatment Anti-Glare

Touch Enabled Yes

Contrast Ratio1200:1(typ)Refresh Rate60 HzBrightness400 nits1

Pixel Resolution - Format 1920 x 1200 (WUXGA)

BacklightRGBPixel ResolutionWLEDColor Gamut Coverage\$RGB 100%

Color Depth 8

Viewing Angle UWVA 89/89/89

Low Blue Light Yes

Power Consumption (W, EBL@ 1.21 (max) / 1.45 (max) 150nits max/ 200nits max)



STORAGE AND DRIVES

For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10 and 11) is reserved for system recovery software.

SSD 512GB 2280 PCIe-4x4 NVMe Three Layer Cell Form Factor M.2 2280
Capacity 512GB
NAND Type TLC

InterfacePCIe NVMe Gen4X4Minimum Sequential Read6400 MB/s ± 10%Minimum Sequential Write3500 MB/s ± 10%Logical Blocks1,000,215,215FeaturesPyrite 2.0; TRIM; L1.2

SSD 1TB 2280 PCIe-4x4 NVMe Three Layer Cell Form Factor M.2 2280
Capacity 1TB
NAND Type TLC

 $\begin{array}{lll} \textbf{Interface} & PCIe \ NVMe \ Gen4X4 \\ \textbf{Minimum Sequential Read} & 6400 \ MB/s \pm 10\% \\ \textbf{Minimum Sequential Write} & 5000 \ MB/s \pm 10\% \\ \textbf{Logical Blocks} & 2,000,409,264 \\ \textbf{Features} & Pyrite \ 2.0; \ TRIM; \ L1.2 \\ \end{array}$

SSD 2TB 2280 PCIe-4x4 NVMe Three Layer Cell Capacity 2TB NAND Type TLC

256GB PCIe 2280 NVMe Self Encrypted OPAL2 Value Solid State Drive Capacity256GBNAND TypeTLC

Features TCG Opal 2.0; TRIM; L1.2



512GB PCIe-4x4 2280 NVME Self Encrypted OPAL2 Three Layer Cell Solid State Drive

NAND Type TLC

Interface PCIe NVMe Gen4X4
Minimum Sequential Read 6400 MB/s ± 10%

 Minimum Sequential Write
 3500 MB/s ± 10%

 Logical Blocks
 1,000,215,215

Features TCG Opal 2.0; TRIM; L1.2

1TB PCIe-4x4 2280 NVME Self Encrypted OPAL2 Three Layer Cell Solid State Drive NAND Type TLC

InterfacePCIe NVMe Gen4X4Minimum Sequential Read $6400 \text{ MB/s} \pm 10\%$ Minimum Sequential Write $5000 \text{ MB/s} \pm 10\%$ Logical Blocks2,000,409,264

Features TCG Opal 2.0; TRIM; L1.2

NAND Type TLC

SSD 256GB 2280 PCIe NVMe Value NAND Type TLC

InterfacePCIe NVMe Gen4X4Minimum Sequential Read $2000 \text{ MB/s} \pm 10\%$ Minimum Sequential Write $900 \text{ MB/s} \pm 10\%$ Logical Blocks500,118,192

Features Pyrite 2.0; TRIM; L1.2

SSD 512GB 2280 PCIe NVMe Value NAND Type TLC

InterfacePCIe NVMe Gen4X4Minimum Sequential Read $2200 \text{ MB/s} \pm 10\%$ Minimum Sequential Write $1000 \text{ MB/s} \pm 10\%$ Logical Blocks1,000,215,215

Features Pyrite 2.0; TRIM; L1.2

Technical Specifications

NETWORKING/COMMUNICATIONS Intel® AX211 Wi-Fi 6E + Wireless LAN Standards IEEE 802.11a Bluetooth® 5.3 M.2 IEEE 802.11b 160MHz CNVi World-wide IEEE 802.11g WLAN non-vPro Wireless IEEE 802.11n Card¹ IEEE 802.11ac IEEE 802.11ax IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11r IEEE 802.11v Wi-Fi certified Interoperability **Frequency Band** •802.11b/g/n/ax 2.402 - 2.482 GHz •802.11a/n/ac/ax 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 5.955 - 6.415 GHz 6.435 - 6.515 GHz 6.535 - 6.875 GHz 6.895 - 7.115 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: max 300Mbps • 802.11ac: 1733Mbps • 802.11ax: max 2.4Gbps Modulation **Direct Sequence Spread Spectrum** OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM Security 2 • 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 WPA3 certification • IEEE 802.11i WAPI **Network Architecture**



Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

Output Power ³ • 802.11b: +17dBm minimum

802.11g: +16dBm minimum802.11a: +17dBm minimum

802.11n HT20(2.4GHz): +14dBm minimum
802.11n HT40(2.4GHz): +13dBm minimum
802.11n HT20(5GHz): +14dBm minimum
802.11n HT40(5GHz): +13dBm minimum
802.11ac VHT80(5GHz): +10dBm minimum
802.11ac VHT160(5GHz): +10dBm minimum
802.11ac VHT160(5GHz): +10dBm minimum
802.11ax HE40(2.4GHz): +12dBm minimum

802.11ax HE80(5GHz): +10dBm minimum
 802.11ax HE160(5GHz): +10dBm 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

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

Receiver Sensitivity 4 • 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(VHT80): -84dBm maximum
802.11ac, MCS9(VHT80): -59dBm maximum
802.11ac, MCS9(VHT160): -58.5dBm maximum
802.11ax, MCS11(HE40): -57dBm maximum
802.11ax, MCS11(HE80): -54dBm maximum
802.11ax, MCS11(HE160): -53.5dBm 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 1. Type 2230: 2.3 x 22.0 x 30.0 mm

Weight 1. 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 OFF – Radio ON

HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Wireless Card

Bluetooth Specification 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Compliant

Frequency Band 2402 to 2480 MHz

Number of AvailableLegacy : 0~79 (1 MHz/CH)ChannelsBLE : 0~39 (2 MHz/CH)

Data Rates andLegacy: 3 Mbps data rate; throughput up to 2.17 Mbps **Throughput**BLE: 1 Mbps data rate; throughput up to 0.2 Mbps

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

channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps

asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

Transmit Power The Bluetooth component shall operate as a Class II Bluetooth device with

a maximum transmit power of + 9.5 dBm for BR and EDR.

- 1. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.
- 2. Check latest software/driver release for updates on supported security features.
- 3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
- 4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).



Intel® AX211 Wi-Fi 6E Wireless LAN Standards IEEE 802.11a +Bluetooth® 5.3 M.2 IEEE 802.11b 160MHz CNVi World-Wide IEEE 802.11a WLAN vPro Wireless Card¹ IEEE 802.11n IEEE 802.11ac IEEE 802.11ax IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11r IEEE 802.11v Interoperability Wi-Fi certified **Frequency Band** •802.11b/g/n/ax 2.402 - 2.482 GHz •802.11a/n/ac/ax 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 5.955 - 6.415 GHz 6.435 - 6.515 GHz 6.535 - 6.875 GHz 6.895 - 7.115 GHz **Data Rates** • 802.11b: 1, 2, 5.5, 11 Mbps • 802.11q: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11n: max 300Mbps 802.11ac: 1733Mbps 802.11ax: max 2.4Gbps Modulation Direct Sequence Spread Spectrum OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM Security² • 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 WPA3 certification • IEEE 802.11i WAPI **Network Architecture** Ad-hoc (Peer to Peer) Models Infrastructure (Access Point Required) Roaming IEEE 802.11 compliant roaming between access points



• 802.11b: +17dBm minimum • 802.11g: +16dBm minimum

Output Power³

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802.11n HT20(5GHz): +14dBm minimum
802.11n HT40(5GHz): +13dBm minimum
802.11ac VHT80(5GHz): +10dBm minimum
802.11ac VHT160(5GHz): +10dBm minimum

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802.11ac, MCS9(VHT160): -58.5dBm maximum
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Frequency Band 2402 to 2480 MHz

Number of Available Legacy: 0~79 (1 MHz/CH) **Channels** BLE: 0~39 (2 MHz/CH)

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asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

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Intel® 5G Solution 5000 ¹

Technology/Operating bands

WCDMA/HSPA+ operating bands:

Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL)

Band 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)

Band 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL)

Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL)

Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)

LTE FDD/TDD operating bands:

Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL)

Band 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)

Band 3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL)

Band 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL)

Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL)

Band 7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL)

Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)

Band 12: 699 to 716 MHz (UL), 729 to 746 MHz (DL)

Band 13: 777 to 787 MHz (UL), 746 to 756 MHz (DL)

Band 14: 788 to 798 MHz (UL), 758 to 768 MHz (DL)

Band 17: 704 to 716 MHz (UL), 734 to 746 MHz (DL)

Band 18: 815 to 830 MHz (UL), 860 to 875 MHz (DL)

Band 19: 830 to 845 MHz (UL), 875 to 890 MHz (DL)

Band 20: 832 to 862 MHz (UL), 791 to 821 MHz (DL)

Band 25: 1850 to 1915 MHz (UL), 1930 to 1995 MHz (DL)

Band 26: 814 to 849 MHz (UL), 859 to 894 MHz (DL)

Band 28: 703 to 748 MHz (UL), 758 to 803 MHz (DL)

Band 29: 717 to 728 MHz (DL)

Band 30: 2305 to 2315 MHz (UL) 2350 to 2360 MHz (DL)

Band 32: 1452 to 1496 MHz (DL)

Band 34: 2010 to 2025 MHz (UL/DL)

Band 38: 2570 to 2620 MHz (UL/DL)

Band 39: 1880 to 1920 MHz (UL/DL)

Band 40: 2300 to 2400 MHz (UL/DL)

Band 41: 2496 to 2690 MHz (UL/DL)

Band 42: 3400 to 3600 MHZ (UL/DL)

Band 43: 3400 to 3800 MHZ (UL/DL)

Band 46: 5150 to 5925 MHZ (DL)

Band 48: 3550 to 3700 MHZ (UL/DL)

Band 66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL)

Band 71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)

5GNR Sub 6GHZ

n1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL)

n2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)

n3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL)

n5: 824 to 849 MHz (UL), 869 to 894 MHz (DL)

n7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL)

n8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)

n20: 832 to 862 MHz (UL), 791 to 821 MHz (DL)

n25: 1850 to 1915 MHz (UL), 1930 to 1995 MHz (DL)

n28: 703 to 748 MHz (UL), 758 to 803 MHz (DL)

n38: 2570 to 2620 MHz (UL/DL)

n40: 2300 to 2400 MHz (UL/DL)



n41: 2496 to 2690 MHz (UL/DL) n48: 3550 to 3700 MHZ (UL/DL)

n66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL) n71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)

n77: 3300 to 4200 MHz (UL/DL) n78: 3300 to 3800 MHz (UL/DL) n79: 4400 to 5000 MHz (UL/DL)

Wireless protocol standards 5GNR Air Interface

3GPP Rel15 5G NR sub-6

LTE Rel14

20 layers and 2 Gbps downlink (DL) throughput – 4 × 4 MIMO across

5x CA

200 Mbps/uplink (UL) throughput – 40 MHz ULCA and 256 QAM

WCDMA R99,

3GPP Release 5, 6, 7 and 8 UMTS Specification

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

GPS bands GPS: L1 (1575.42MHz)

GLONASS: L1 (1602MHz) BeidouB1(1561.098MHz) Galileo E1 (1575.42) OZSS(1575.42 MHz)

Maximum data rates SA 5G/NR sub-6 Peak: DL4.67Gbps/ UL 1.25Gbps

5G NSA sub 6G : DL: 3.8 Gbps/UL 700Mbps LTE: ue-CategoryDL 19, (DL : 1.6 Gbps) ue-CategoryUL 18 , (UL: 211Mbps)

DC-HSPA+: 42 Mbps (Download), 11.5 Mbps (Upload)

Maximum output power LTE: 23 dBm in all band except B41

LTE B41 HPUE = 26dBm

NR: 23 dBm in all band except n41, n77, n78 and n79

LTE n41, n77, n78 and n79 HPUE = 26dBm

HSPA+: 23.5 dBm 5G Sub 6 : 2500 mA

Maximum power 5G Sub 6: 2500 mA

consumption LTE: 1,300 mA (peak); 1100 mA (average)

HSPA+: 1,100 mA (peak); 800 mA (average)

Form Factor M.2, 3052-S3 Key B

Weight 8 g

Dimensions

(Length x Width x Thickness) 52 mm × 30 mm × 2.3 mm

eSIM Support

1. Intel® 5G module is optional and must be configured at the factory. Module designed for 5G SA (standalone), and 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported.



Intel® XMM™ 7560 R+ LTE- Technology/Operating
Advanced Pro 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), 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), 600 (band 71).

TDD LTE: 2100 (Band 34), 2600 (Band 38), 1900 (Band 39), 2400 (Band 40), 2500 (Band 41), 3500 (Band 42), 3700 (Band 43), 3700 (band 48),

5200 (Band 46 RX only) MHz;

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.13 40MHz throughput up to 150Mbps

WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification

GPS Standalone GPS/Beidou/Glonass, 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), 150 Mbps (Upload)

DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21 Mbps (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 M.2, 3042-S3 Key B

Weight 6 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.



NFC NXP NPC300 Dimensions (L x W x H) 17x10x2.0 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 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) Mode

ISO/IEC 14443 A

ISO/IEC 14443 B and B'

MIFARE FeliCa

Frequency 13.56 MHz

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

Operating temperature0°C to 70°CStorage temperature-20°C to 125°CHumidity10-90% operating

5-95% non-operating

Supply Operating voltage 4.35 to 5.25 Volts

I/O Voltage 1.8V or 3.3V

Power Consumption (Booster enable, VBAT= 3.3V, VCC_BOOST = 5V)

Mode Power Consumption, Typical

Polling 7.3 mA

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



HP Elite x360 830 13 inch G10 2-in-1 Notebook PC

Technical Specifications

Antenna

Antenna connector, 0.5mm pitch, 7 connector FPC. Antenna matching is external to module.



POWER

1. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors

AC Adapter 45 Watt nPF0 Standard USB Type C®

Straight 1.8m

AC Adapter 45 Watt nPFC Dimensions (H x W x D)

3.701 x 1.693 x 1.071 in (9.4 x 4.3 x 2.72 cm)

Weight 0.44 lb (200 g) max

(Not including power cord. Power cord varies by country.)

Input 100~240VAC

Input Efficiency Average Efficiency of 25%, 50%, 75%, 100%

load condition with 115Vac/230Vac Spec:

5V: 81.5% 9V: 86.7% 12V: 87.4% 15V: 87.8%

Input frequency range 47 ~ 63Hz

Input AC current Max. 1.4 A at 90 Vac

Output Output power 5V/15W

9V/27W 12V/36W 15V/45W

DC output 5V/9V/12V/15V

Hold-up time 100% load 5ms at 115 Vac input

Output current limit <5.0A

Connector USB Type-C®

Environmental Design Operating

temperature 32°F to 95°F (0°to 35°C)

Non-operating (storage)

temperature

-4°F 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 - IEC60950-1 and IEC62368-1: 2018,

EN62368-1:2014+A11, UL62368-1

Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC (Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB,

Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC, USB-IF,

Ukraine (CoC+DoC+RoHS+ECO)



AC Adapter 65 Watt nPFC Dimensions (H x W x D) Standard USB Type C®

Straight 1.8m

Weight

Output

3.543 x 2.008 x 1.122 in (9.0 x 5.1 x 2.85 cm)

0.53 lb (240 g) max

(Not including power cord. Power cord varies by country.)

100-240Vac

Input **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 47-63Hz

Input AC current Max. 1.6 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 100% load 5ms at 115 Vac input

Output current limit < 8.0A

Connector USB Type-C®

Environmental Design Operating

32°F to 95°F (0°to 35°C) temperature

Non-operating (storage)

temperature

-4°F to 185°F (-20°to 85°C)

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

Humidity 20% to 95% 10% to 95% **Storage Humidity**

EMI and Safety Certifications

CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards - IEC60950-1 and IEC62368-1: 2018,

EN62368-1:2014+A11, UL 62368-1

Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC

HP 65W Slim USB-C® Straight AC Power Adapter Dimensions (H x W x D)

3.819 x 2.106 x 0.827 in (9.7x5.35x2.1cm)

Weight

Output

0.49 lb (220 g) max

(Not including power cord. Power cord varies by country.)

Input 100-240Vac

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 47-63Hz

Input AC current Max. 1.6 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 100% load 5ms at 115 Vac input

Output current limit < 8.0A

Connector USB TYPE C®

Environmental Design Operating 32°F to 95°F (0°to 35°C)

temperature

Non-operating (storage) -4°F to 185°F (-20°to 85°C)

temperature

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 - IEC60950-1 and IEC62368-1: 2018,

EN62368-1:2014+A11, UL 62368-1

Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC



HP 3-cell Long Life Li-Ion Weight

0.184kg +/- 10g (0.406lb)

(WP 38Wh)1

3cell Lithium-Ion Polymer cell / 564975 Cells/Type

Energy

Voltage 11.58V

Amp-hour capacity

3.283Ah

Watt-hour capacity1 38Wh

Temperature

Operating (Charging)

32° to 113° F (0° to 45° C)

Operating (Discharging) 14° to 140° F (-10° to 60° C)

Optional Travel Battery No

Available

1. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors

HP 3-cell Long Life Li-Ion Weight

0.178kg +/- 10g(0.392lb)

(WQ 38Wh)1

Cells/Type

Temperature

3cell Lithium-Ion Polymer cell / 604975

Energy

11.55V

Amp-hour capacity Watt-hour capacity¹ 3.291Ah 38Wh

Operating (Charging)

32° to 113° F (0° to 45° C)

Operating (Discharging)

14° to 140° F (-10° to 60° C)

Optional Travel Battery

Available

Voltage

No

1. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors

HP 3-cell Long Life Li-Ion Weight

(51 Wh)1

0.229kg +/- 10g (0.505 lb)

Cells/Type 3cell Lithium-Ion Polymer cell / 566075

Voltage 11.58V Energy

> Amp-hour capacity 4.431Ah

Watt-hour capacity¹ 51.3Wh

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

Operating (Discharging) 14° to 140° F (-10° to 60° C)

Optional Travel Battery

Available

No

1. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors

AUDIO

HD Stereo Codec Realtek ALC3315

Audio I/O Ports Headset: CTIA only and Headphone-out

Internal Speaker Amplifier Cirrus Logic High-Efficiency Boosted Class D Amplifier

Multi-streaming Capable Playback multi-streaming can be enabled in the audio control panel to allow independent audio.

Following MSFT Behavior

Sampling DAC:48kHz

ADC:48kHz

Wavetable Syntheses N/A

Analog Audio Support 3.5mm Headset: CTIA only and Headphone-out

of Channels on Line-Out N/AInternal Speaker Yes

FINGERPRINT READER

Sensor vendor Main source: Synaptics FS7605

2nd source: ELAN 80SW

Sensor type Capacitive

DPI resolution Main source: 363 DPI

2nd source: 508 DPI

Scan area Main source: 104 x 86 pixels

2nd source: 80x80 pixels

False Rejection Rate FRR=≤ 3%

False Acceptance Rate Main source: FAR 1/100K

2nd source: < 0.001%

Mobile Voltage Operation Main source: 3.0V to 3.6V

2nd source: 2.7V~3.6V

Operating Temperature Main source: 0°C~60°C

2nd source: -20°C - +80°C

Current Consumption Main source: 100mA max

Image2nd source: 35mA peakLow Latency Wait ForMain source: 260uA

Finger 2nd source: 300uA

Capture Rate Main source: Image transmitter output frequency 9.6MHz

2nd source: 50 frame/sec

ESD Resistance IEC 61000-4-2 4B (+15KV)

Detection Matrix Main source: 363 dpi / 7.4x6mm sensor area

2nd source: 508 dpi / 4x4mm sensor area



Technical Specifications

Eco-Label Certifications &	This product has received or is in the process of being certified to the following approvals and						
declarations	be labeled with one or mo	be labeled with one or more of these marks:					
	 IT ECO declaration 	n					
	US ENERGY STAR	B					
	 US Federal Energy 	y Management Program (FEM	1P)				
			ee http://www.epeat.net for registration				
	status in your cou	ıntry.					
	 TCO Certified 						
	 China Energy Con 	servation Program (CECP)					
	China State Environment	onmental Protection Adminis	tration (SEPA)				
	Taiwan Green Ma	rk					
	 Korea Eco-label 						
	Japan PC Green la	ıbel*					
Sustainable Impact	Product Carbon Footprin						
Specifications	 Ocean-bound plastic in S 	•					
	• 59.4% post-consumer recycled plastic						
	• 79.3% recycled metal						
	• Low halogen						
			inably sourced and recyclable				
	Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable Bully a strange a societable.						
Contain Configuration	Bulk packaging available The configuration and Declared Noise Emissions data for the						
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".						
	Notebook model is based	on a Typically Configured No	neddok .				
Energy Consumption							
(in accordance with US							
ENERGY STAR® test							
method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz				
Normal Operation (Sort	4.33 W	4.66 W	4.44 W				
idle)	9 99 14	4.45.14	4.03.14				
Normal Operation (Long	0.98 W	1.16 W	1.02 W				
idle)	0.0014	1.1CW	1.02.14				
Sleep Off	0.98 W	1.16 W	1.02 W				
UIT	0.41 W	0.44 W	0.41 W				
	NOTE.						
	NOTE: Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model.						
	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)	14.8 BTU/hr	15.9 BTU/hr	15.2 BTU/hr				
Normal Operation (Long	-	·	·				
	3.4 BTU/hr	4.0 BTU/hr	3.5 BTU/hr				
idle)	3.1010/111		3.5 610/111				

Sleep

Off

4.0 BTU/hr

1.5 BTU/hr

*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is

3.4 BTU/hr

1.4 BTU/hr

attained for one hour.

3.5 BTU/hr

1.4 BTU/hr

Technical Specifications

feature	Sound Power (L _{WAd} , bels)		ressure		
Typically Configured – Idle Fixed Disk – Random writes Optical Drive – Sequential reads Longevity and Upgrading Spare product Additional Information • • • • • • • • • • • • • • • • • •	(LWAd. DEIS)	(L _{DAm.} de	m, decibels)		
Fixed Disk – Random writes Optical Drive – Sequential reads Longevity and Upgrading Spare product Additional Information	(=p,iii) decises.				
Optical Drive – Sequential reads Longevity and Upgrading Spare product Additional Information • • • • • • • •	3.4	4.4			
Longevity and Upgrading This profession Spare product Additional Information	4.1 31.4				
Longevity and Upgrading feature Spare product Additional Information	3.9 30.1				
Additional Information Additional Information					
Additional Information • • • • • • •	This product can be upgraded, possibly extending its useful life by several years. Upgradea features and/or components contained in the				
•		ne warranty period and or for up	to "5" years after the end of		
Packaging Materials Extern	 This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC. This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. This product is 93.8% recycle-able when properly disposed of at end of life. 				
	al: PAPER/Corrugated		220 g		
	PAPER/Corrugated				
	PAPER/Molded Pulp	54 g			
	PAPER/Molded Pulp 62 g				
	•	•			
	·	3 g			
	Internal:PLASTIC/Polyethylene low density - LDPE14 gThe plastic packaging material contains at least 0.0% recycled content.				
The state of the s					
The co	ycled content.				
RoHS Compliance HP Inc. complies fully with materials regulations. We were among the first companies to the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) our products worldwide through the HP GSE. HP has contributed to the development of legislation in Europe, as well as China, India, and Vietnam. We believe the RoHS directive and similar laws play an important role in promoting indu elimination of substances of concern. We have supported the inclusion of additional subjincluding PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to					
we met our voluntary objective to achieve worldwide compliance with the new EU RoH requirements for virtually all relevant products by July 2013, and we will continue to e scope of the commitment to include further restricted substances as regulations contievolve. To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statem					
to the	This product does not contain any of the following substances in excess of regulatory limits to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications .				
•			n/gen_specifications.html):		



-	
	 Certain Azo Colorants Certain Brominated Flame Retardants – may not be used as flame retardants in plastics Cadmium Chlorinated Hydrocarbons Chlorinated Paraffins Bis(2-Ethylhexyl) phthalate (DEHP) Benzyl butyl phthalate (BBP) Dibutyl phthalate (DIBP) Diisobutyl phthalate (DIBP) Formaldehyde Halogenated Diphenyl Methanes Lead carbonates and sulfates Lead and Lead compounds Mercuric Oxide Batteries Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user. Ozone Depleting Substances Polybrominated Biphenyls (PBBs) Polybrominated Biphenyl Ethers (PBBEs) Polybrominated Biphenyl Oxides (PBBOs) Polychlorinated Biphenyl (PCB) Polychlorinated Terphenyls (PCT) Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications. Radioactive Substances Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
Packaging Usage	 HP follows these guidelines to decrease the environmental impact of product packaging: Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials. Eliminate the use of ozone-depleting substances (ODS) in packaging materials. Design packaging materials for ease of disassembly. Maximize the use of post-consumer recycled content materials in packaging materials. Use readily recyclable packaging materials such as paper and corrugated materials. Reduce size and weight of packages to improve transportation fuel efficiency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
End-of-life Management and Recycling	HP offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers . These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

HP, Inc. Corporate Environmental	For more information about HP's commitment to the environment:			
Information	Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www8.hp.com/us/en/hp-information/environment/ecolabels.html ISO 14001 certificates: http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf			
footnotes	 Percentage of ocean-bound plastic contained in each component varies by product Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard. External power supplies, WWAN modules, power cords, cables and peripherals excluded. 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic materials. Plastic cushions are made from >90% recycled plastic.\ Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams. 			

COUNTRY OF ORIGIN

China



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

DOCKING (Sold Separately)

Docking station model #1

Total number of supported displays

(incl. the notebook display)

Max. resolutions supported

HP Thunderbolt 120W G4 Dock

4

Quad 4K @60Hz

Dual 8K single cable@30 for TB hosts or USB-C hosts DP 1.4 with DSC in high res

mode

Dock Connectors 2xDP, 1xHDMI, 1xTB, 1xUSB-C Alt Mode

Technical limitations Maximum resolution and display support is dependent on the maximum

capability of the notebook.

Thunderbolt Hosts:

Maximum of (4) displays with maximum resolution of 5K@ 30Hz running

Thunderbolt host.

Maximum resolution possible is dual 8K displays @ 60Hz running Thunderbolt host or running a non-Thunderbolt host in high resolution mode @30Hz

Non-Thunderbolt hosts:

The highest resolution for dual displays running a non-Thunderbolt host in

multi-function mode is

(1) 5K dual cable (using both DP ports) +(1) 4K on USB-C DP port

Non-Thunderbolt hosts support (3) displays with a maximum resolution of (2) 5K single cable + (1) 4K UHD @ 60 Hz in high resolution mode. In multi-function mode the maximum resolution for (3) displays is (2) 5K single cable @ 30Hz +

(1) 4K UHD @ 30Hz.

Docking station model #2

Total number of supported displays

(incl. the notebook display)

Max. resolutions supported

HP Thunderbolt 280W G4 Dock

4

Quad 4K @60Hz

Dual 8K single cable@30 for TB hosts or USB-C hosts DP 1.4 with DSC in high res

mode

Dock Connectors 2xDP, 1xHDMI, 1xTB, 1xUSB-C Alt Mode

Technical limitations Maximum resolution and display support is dependent on the maximum

capability of the notebook.

Thunderbolt Hosts:

Maximum of (4) displays with maximum resolution of 5K@ 30Hz running

Thunderbolt host.

Maximum resolution possible is dual 8K displays @ 60Hz running Thunderbolt

host or running a non-Thunderbolt host in high resolution mode @30Hz

Non-Thunderbolt hosts:

The highest resolution for dual displays running a non-Thunderbolt host in

multi-function mode is

(1) 5K dual cable (using both DP ports) +(1) 4K on USB-C DP port

Non-Thunderbolt hosts support (3) displays with a maximum resolution of (2) 5K single cable + (1) 4K UHD @ 60 Hz in high resolution mode. In multi-function mode the maximum resolution for (3) displays is (2) 5K single cable @ 30Hz +

(1) 4K UHD @ 30Hz.

HP USB-C Dock G5

Docking station model #3



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

Total number of supported displays

(incl. the notebook display)
Max. resolutions supported

Dock Connectors

Technical limitations

3

Dual 5K@ 30Hz + (1) 4K UHD (multi-function mode)

1xHDMI, 2xDP

Maximum resolution and display support is dependent on the maximum

capability of the notebook.

Highest resolution with dual displays is two 8K@ 60Hz host in High Resolution

mode.

Three maximum displays supported are two 5K@ 30 Hz on DP ports plus one 4K

UHD@ 30 Hz on HDMI in Multi-function mode

The highest resolution for a non-Thunderbolt host in Multi-function mode is a

single 5K dual cable (using both DP ports) + (1) 4K on HDMI port.

Docking station model #4

Total number of supported displays

(incl. the notebook display) Max. resolutions supported

Dock Connectors

HP USB-C/A Universal Dock G2

3

Dual 4K @ 60Hz

Single 5K @ 60Hz

1xHDMI, 2xDP

Technical limitations Maximum resolution and display support is dependent on the maximum

capability of the notebook.

The best resolution for dual or triple displays is 4K UHD@ 60Hz.

For use with the USB-A adapter that comes in the box the maximum number of displays supported is (2) 4k x 60 Hz on the Type-A Gen 1 connection from the

host.



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

Туре	Description	Part Number
Audio	HP Wired USB-A Stereo Headset	428K6AA
	HP Wired 3.5mm Stereo Headset	428K7AA
	HP 365 BT Speaker	567D3AA#ACJ
	WB 205 FUR WSD 4 W 1	
Video	HP 325 FHD USB-A Webcam	53X27AA
	HP 965 4K USB-A STR Webcam	695J5AA
Cases	HP Prelude G2 15.6 Backpack	1E7D6AA
	HP Prelude G2 15.6 Top Load	1E7D7AA
	HP Prelude Pro Recycled 15.6 Backpack	1X644AA
	HP Prelude Pro Recycled 15.6 Top Load	1X645AA
	HP Renew 14 Laptop Sleeve	2E6U9AA
	HP Renew Business 14.1 Laptop Bag	3E5F9AA
	HP Renew Business 14.1 Laptop Sleeve	3E2U7AA
	HP Renew Business 15.6 Laptop Bag	3E5F8AA
	HP Renew Business 17.3 Laptop Backpack	3E2U5AA
	HP Renew Business 17.3 Laptop Bag	3E2U6AA
	HP Renew Executive 14.1 Laptop Sleeve	6B8Y3AA
	HP Renew Executive 16 Laptop Backpack	6B8Y1AA
	HP Renew Executive 16 Laptop Bag	6B8Y2AA
	HP Reversible 13.3 Sleeve	7ZE82AA
	HP Travel 18L 15.6 Iron Gray Laptop Backpack	6H2D9AA
	HP Travel 25L 15.6 Iron Gray Laptop Backpack	6H2D8AA
Digital Pen	HP Active RECHBL G3 Moonracer 2.0 Pen	6SG43AA
Docking	HP USB-C 120W G5 Dock	5TW10AA
	HP USB-C/A 120W G2 Universal Dock	5TW13AA
	HP Thunderbolt 120W G4 Dock	4J0A2AA
	HP Thunderbolt 280W G4 Dock	4J0G4AA
Hub	HP 4K USB-C Multiport Hub	6G842AA
	HP Universal USB-C Multiport Hub	50H55AA
	HP USB-C Travel Dock G2	7PJ38AA
	HP USB-C to USB-A Hub	Z6A00AA
Adapter	HP USB-C to RJ45 Adapter G2	4Z527AA
	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z7Z7AA
	HP HDMI to VGA Adapter	H4F02AA





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

	Walled Co. D. J. D. Add. A	1101/2011
	HP USB-C to DisplayPort Adapter	N9K78AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to VGA Adapter	N9K76AA
Keyboard/Combo	HP 125 WD USB Keyboard	266C9AA
	HP 320K WD USB Keyboard	9SR37AA
	HP 355 Compact Multi-Device BT Keyboard	692S9AA
	HP 455 Programmable Wireless Keyboard	4R177AA
	HP 975 USB+BT Dual-Mode Wireless Keyboard	3Z726AA
	HP 155 Wired Mouse and Keyboard Combo	5B8COAA#ACJ
	HP 225 Antimicrobial Wired Mouse and Keyboard Combo	286K3AA#AB2
	HP 225 Wired Mouse and Keyboard Combo	286J4AA
	HP 235 Wireless Mouse and Keyboard Combo	1Y4D0AA
	HP 655 Wireless Keyboard and Mouse Combo	4R009AA
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
	HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165AA
Mouse	HP 125 USB-A Wired Mouse	265A9AA
	HP 128 USB Laser Wired Mouse	265D9AA
	HP 155 USB-A Wired Mouse	5B8B7AA#ACJ
	HP 235 Wireless 2.4GHz Slim Wireless Mouse	4E407AA
	HP 320M USB-A Wired Mouse	9VA80AA
	HP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse	3B4Q5AA
	HP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse	6E6F0AA
	HP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	6H1A5AA
	HP Creator USB-A+Bluetooth 935 Wireless Mouse Black	1D0K8AA
	HP USB Premium Wireless Mouse	1JR31AA
	HP USB-A+Bluetooth Multi-Device 635 Wireless Mouse Black	1D0K2AA
	HP USB-A+Bluetooth Travel Bluetooth Mouse	6SP30AA
Power	HP 45W USB-C LC Dali AC Power Adapter	1MZ01AA
	HP 65W GaN USB-C Laptop Charger	600Q7AA
	HP 65W USB-C Laptop Charger	671R3AA
	HP 65W USB-C LC AC Power Adapter	1P3K6AA
Commodity	HP USB DVD-Writer EXT ODD	F2B56AA
-	HP Nano Keyed Cable Lock	1AJ39AA
	HP Nano Master Keyed Cable Lock	1AJ40AA
	HP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA



HP Elite x360 830 13 inch G10 2-in-1 Notebook PC

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

HP Combination Nano Cable Lock
HP Essential Combination Nano Cable Lock

63B28AA

63B31AA



Change Log

Date of change:	Version History:		Description of change:
March 30, 2023	V1 to V2	Updated	LPDDR5 memory speed, added Environmental Data and Battery Life
April 6, 2023	V2 to V3	Updated	DisplayPort™ in Display section
April 11, 2023	V3 to V4	Updated	Integrated Graphics
May 9, 2023	V4 to V5	Updated	Product weight in Weight and Dimensions section
June 5, 2023	V5 to V6	Updated	Storage and Drives section
June 30, 2023	V6 to V7	Updated	Environmental Data
July 12, 2023	V7 to V8	Added	Memory in Memory section
August 2, 2023	V8 to V9	Updated	Environmental Data and Memory section
August 14, 2023	V9 to V10	Updated	Graphics section
August 18, 2023	V10 to V11	Updated	Networking section
October 11, 2023	V11 to V12	Updated	Panel Color Depth in Displays section
November 2, 2023	V12 to V13	Updated	Storage and Drives section
February 1, 2024	V13 to V14	Update	Display Section
February 19, 2024	V14 to V15	Added	Power Section
February 21, 2024	V15 to V16	Removed	Intel® Iris® Xe Graphics Disclaimer
February 27, 2024	V16 to V17	Updated	At a Glance and TPM Section

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