Overview

HP EliteBook x360 830 G7 Notebook PC



- 1. Internal Microphones (2)
- 2. Web cam LED
- 3. HD and IR Camera (Optional)
- 4. Camera Shutter
- 5. IR Camera LEDs (Optional)
- 6. Ambient Light Sensor

Left

- 7. Glass Clickpad
- 8. Smartcard Reader (Optional)
- 9. Audio Combo Jack
- 10. SuperSpeed USB Type-A 5Gbps signaling rate Port
- 11. SuperSpeed USB Type-A 5Gbps signaling rate Charging Port
- 12. Nano Security Lock Slot (Lock sold separately)



Overview



- 1. Power Button Key
- 2. Power Connector
- 3. HDMI Port (Cable not included)
- 4. SuperSpeed USB Type-C[®] 5Gbps signaling rate with Thunderbolt™
- 5. SuperSpeed USB Type-C[®] 5Gbps signaling rate with Thunderbolt™
- 6. SIM Card Slot1
- 7. Touch Fingerprint Sensor (select models)

1. All units have a SIM card stray but units that do not support WWAN are shipped with a non-removable SIM slot plug



Overview

At a Glance

- Premium ultraslim design with precision-crafted machined CNC aluminum x360 design with four usage modes that is 0.71 inches (1.79 cm) thin with a starting weight of 2.89 lbs. (1.31 Kg)
- 10th Generation Intel® Core™ i5 processors up to quad-core, i7 processors up to six-core with integrated Intel UHD premium graphics
- Optional ultrabright, anti-glare touch displays with ambient light sensor including a Sure View Reflect display option. With a single click, optional HP Sure View Reflect produces a copper reflective finish when the screen is viewed from the side making it appear unreadable.
- Choice of displays:
 - 33.8 cm (13.3") diagonal FHD IPS LED-backlit BrightView touch with Corning® Gorilla® Glass 5, 250 nits, 45% NTSC
 - 33.8 cm (13.3") diagonal FHD IPS LED-backlit BrightView touch with Corning® Gorilla® Glass 5, 400 nits, 72% NTSC
 - 33.8 cm (13.3") diagonal FHD IPS LED-backlit Anti-Glare glass touch with Corning® Gorilla® Glass 5, 400 nits, 72% NTSC
 - 33.8 cm (13.3") diagonal FHD IPS LED-backlit BrightView touch with Corning® Gorilla® Glass 5, 1000 nits, 72% NTSC with HP Sure View Reflect*
 - 33.8 cm (13.3") diagonal FHD IPS LED-backlit Anti-Glare glass touch with Corning® Gorilla® Glass 5, 1000 nits, 72% NTSC with HP Sure View Reflect*
- Enterprise grade security with HP Sure Sense, HP SureStart Gen6, HP Privacy Camera with a physical shutter, HP Sure View Reflect¹, HP Sure Run Gen3, HP Sure Recover Gen2² with embedded reimaging, HP Sure Click, SmartCard Reader² and Touch Fingerprint reader³ (select models)
- New optional HP Rechargeable Active Pen G3²
- Ultimate connectivity with Wi-Fi 6 WLAN and optional CAT16 4G/LTE WWAN
- Preinstalled with Windows 10 versions or FreeDOS
- Choice of solid state drives up to 1 TB and DDR4 memory up to 32 GB
- Supports fast charging (50% in 30 minutes) with no impact on battery recharge cycles⁴
- Featuring redesigned quiet HP Keyboard with backlit options and the new HP Programmable key for easy customization with the companion app to launch apps and custom commands
- Innovative world-facing third mic improves inbound ambient noise cancellation while 360 degree mic pick-up allows everyone to clearly hear and be heard
- HP WorkWell makes wellbeing measurable and actionable at work
- Battery life up to 22 hours (Intel® 10th generation CPU and 3-cell 53 WHr battery)
- Tested for 19 MIL-STD 810H tests, plus an additional 120,000 hours of reliability testing through HP's Total Test Process⁶
- Instant on/instant off with Modern Connected Standby
- 1. 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.
- 2. Sold separately or as an optional feature
- 3. HP Fingerprint Sensor is an optional feature and requires configuration at purchase.
- 4. Recharges your battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.
- 5. Windows 10 MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See http://www.bapco.com for additional details.
- 6. MIL STD 810 G testing is not intended to demonstrate fitness for 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.
- *Touch-enabled display and Sure View privacy panel will lower actual brightness.

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



Technical Specifications

PRODUCT NAME

HP EliteBook x360 830 G7 Notebook PC

OPERATING SYSTEMS

Preinstalled Windows 10 Pro 64 – HP recommends Windows 10 Pro for business¹

Windows 10 Pro 64 (National Academic only)2

Windows 10 Home 641

Windows 10 Home Single Language 641

Windows 10 Pro (Windows 10 Enterprise available with a Volume Licensing Agreement)¹

FreeDOS

1. Not all features are available in all editions or versions of Window. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com/

2. Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see https://aka.ms/ProEducation for Windows 10 Pro Education feature information.

PROCESSORS

Intel® Core™ i7-10810U with Intel® UHD Graphics Premium (1.1 GHz base frequency, up to 4.9 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores)^{3,4,5,6}

Intel® Core™ i7-10710U with Intel® UHD Graphics Premium (1.1 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores) ^{3,4,5,6}

Intel® Core™ i7-10610U with Intel® UHD Graphics Premium (1.8 GHz base frequency, up to 4.9 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores) 3,4,5,6

Intel® Core™ i7-10510U with Intel® UHD Graphics Premium (1.8 GHz base frequency, up to 4.9 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores) 3,4,5,6

Intel® Core™ i5-10310U with Intel® UHD Graphics Premium (1.7 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 6 MB L3 cache, 4 cores) ^{3,4,5,6}

Intel® Core™ i5-10210U with Intel® UHD Graphics Premium (1.6 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 6 MB L3 cache, 4 cores) 3,4,5,6

Processor Family

10th Generation Intel® Core™ i7 processor (i7-10810U, i7-10710U, i7-10610U, i7-10510U) 10th Generation Intel® Core™ i5 processor (i5-10310U, i5-10210U)

- 3. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.
- 4. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
- 5. Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost for more information.
- 6. In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com.



Technical Specifications

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

Intel® UHD Premium Graphics7

Supports

Support HD decode, DX12, HDMI 1.4b8, HDCP 2.3

- 7. HD content required to view HD images.
- 8. HDMI cable sold separately.

DISPLAY

Touch

33.8 cm (13.3") diagonal FHD IPS BrightView WLED-backlit touch screen with Corning® Gorilla® Glass 5, 250 nits, 45% NTSC with HD camera (1920 x 1080)^{7,9,10}

33.8 cm (13.3") diagonal FHD IPS BrightView WLED-backlit touch screen with Corning® Gorilla® Glass 5, 250 nits, 45% NTSC with HD camera for WWAN (1920 x 1080)^{7,9,10}

33.8 cm (13.3") diagonal FHD IPS BrightView WLED-backlit touch screen with Corning® Gorilla® Glass 5, 400 nits, 72% NTSC with Low Power, Ambient Light Sensor and HD+IR camera (1920 x 1080)^{7,9,10}

33.8 cm (13.3") diagonal FHD IPS BrightView WLED-backlit touch screen with Corning® Gorilla® Glass 5, 400 nits, 72% NTSC with Low Power, Ambient Light Sensor and HD+IR camera for WWAN (1920 x 1080)^{7,9,10}

33.8 cm (13.3") diagonal FHD IPS Anti-Glare WLED-backlit touch screen with Corning® Gorilla® Glass 5, 400 nits, 72% NTSC with Low Power, Ambient Light Sensor and HD+IR camera (1920 x 1080)^{7,9,10}

33.8 cm (13.3") diagonal FHD IPS Anti-Glare WLED-backlit touch screen with Corning® Gorilla® Glass 5, 400 nits, 72% NTSC with Low Power, Ambient Light Sensor and HD+IR camera for WWAN (1920 x 1080)^{7,9,10}

HP Sure View Reflect Integrated Privacy Screen 33.8 cm (13.3") diagonal FHD IPS BrightView WLED-backlit touch screen with Corning® Gorilla® Glass 5, 1000 nits, 72% NTSC with Ambient Light Sensor and HD+IR camera (1920 x 1080)^{7,9,10,11}

HP Sure View Reflect Integrated Privacy Screen 33.8 cm (13.3") diagonal FHD IPS BrightView WLED-backlit touch screen with Corning® Gorilla® Glass 5, 1000 nits, 72% NTSC with Ambient Light Sensor and HD+IR camera for WWAN (1920 x 1080)^{7,9,10,11} HP Sure View Reflect Integrated Privacy Screen 33.8 cm (13.3") diagonal FHD IPS Anti-Glare WLED-backlit touch screen with Corning® Gorilla® Glass 5, 1000 nits, 72% NTSC with Ambient Light Sensor and HD+IR camera (1920 x 1080)^{7,9,10,11}

HP Sure View Reflect Integrated Privacy Screen 33.8 cm (13.3") diagonal FHD IPS Anti-Glare WLED-backlit touch screen with Corning® Gorilla® Glass 5, 1000 nits, 72% NTSC with Ambient Light Sensor and HD+IR camera for WWAN (1920 x 1080)^{7,9,10,11}

HDMI 1.4b

Supports resolution up to 4K @ 60Hz via DP and 30Hz via HDMI

Display Size

13.3" 33.8 cm (13.3")

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



Technical Specifications

Docking station model	Total number of supported displays (Including the notebook) display)	Max. resolutions supported	Dock Connectors	Technical limitations
HP Thunderbolt Dock G2	3	Dual 4K @ 60Hz	2xDP, 1xVGA, 1xTB, 1xUSB-C alt-mode	Dual 4k (4096 x 2160) only with: • 1 DP + TB port or • USB-C alt mode + TB port Dual 4K (3840 x 2160) with any of the DP, TB or USB-C alt mode video ports
HP Elite USB-C Dock G5	3	Three 1680x1050 @ 60 Hz Dual 2K @ 60Hz Single 4K @ 60Hz (3840 x 1440)	1xHDMI, 2xDP	
HP USB-C Universal Dock G2	3	Dual 4K @ 60Hz Single 5K @ 60Hz	1xHDMI, 2xDP	
HP USB-C Travel Dock	2	Single 2K @ 60Hz	1xHDMI, 1xVGA	Single external display Only HDMI or VGA at the time



Technical Specifications

STORAGE AND DRIVES

Primary M.2 Storage

128 GB M.2 SATA SSD TLC¹²
256 GB PCIe® NVMe™ Value M.2 SSD¹²
256 GB PCIe® Gen3x4 NVMe™ M.2 SSD TLC¹²
256 GB PCIe® Gen3x4 NVMe™ M.2 SED OPAL 2 SSD TLC¹²
256 GB Intel® PCIe® NVMe™ QLC M.2 SSD with 16 GB Intel® Optane™ memory ^{12,13,14}
512 GB PCIe® Gen3x4 NVMe™ M.2 SSD TLC¹²
512 GB PCIe® Gen3x4 NVMe™ M.2 SED OPAL 2 SSD TLC¹²
512 GB PCIe® NVMe™ Value M.2 SSD¹²
512 GB Intel® PCIe® NVMe™ QLC M.2 SSD with 32 GB Intel® Optane™ memory ^{12,13,14}
1 TB PCIe® Gen3x4 NVMe™ M.2 SSD TLC¹²

12. 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.

13. Intel® Optane™ memory is sold separately. Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system. Available for HP commercial desktops and notebooks and for select HP workstations (HP Z240 Tower/SFF, Z2 Mini, ZBook Studio, 15 and 17 G5) and requires a SATA HDD, 7th Gen or higher Intel® Core™ processor or Intel® Xeon® processor E3-1200 V6 product family or higher, BIOS version with Intel® Optane™ supported, Windows 10 version 1703 or higher, M.2 type 2280-S1-B-M connector on a PCH Remapped PCIe Controller and Lanes in a x2 or x4 configuration with B-M keys that meet NVMe™ Spec 1.1, and an Intel® Rapid Storage Technology (Intel® RST) 15.5 driver.

14. Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system. Requires 8th Gen or higher Intel® Core™ processor, BIOS version with Intel® Optane™ supported, Windows 10 64-bit, and an Intel® Rapid Storage Technology (Intel® RST) driver.

MEMORY

Maximum Memory

32 GB DDR4-2666 SDRAM15

Memory

32 GB DDR4-2666 SDRAM (1 X 32 GB)¹⁵
16 GB DDR4-2666 SDRAM (1 X 16 GB)¹⁵
8 GB DDR4-2666 SDRAM (1 X 8 GB)¹⁵
4 GB DDR4-2666 SDRAM (1 X 4 GB)¹⁵

Memory Slots

1 SODIMM Single slot is customer accessible / upgradeable DDR4 SODIMM, System runs at: 2666 (Comet Lake quad core) Supports Single 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® Dual Band Wireless-AX201 802.11a/b/g/n/ac (2x2) Wi-Fi 6 and Bluetooth® 5 Combo, vPro™17 Intel® Dual Band Wireless-AX201 802.11a/b/g/n/ac (2x2) Wi-Fi 6 and Bluetooth® 5 Combo, non-vPro™17

WWAN

Intel® XMM™ 7360 LTE-Advanced Cat 9¹⁷
Intel® XMM™ 7560 LTE-Advanced Pro Cat16¹⁸

NFC

NPC300 Near Field Communication module9

Miracast

Native Miracast Support19

9. Sold separately or as an optional feature.

16. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 (802.11ax) are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax devices.

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

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



Technical Specifications

AUDIO/MULTIMEDIA

Audio

Audio by Bang & Olufsen 2 Integrated stereo speakers (73dB) Integrated 3 Multi Array microphone

Camera

720p HD camera⁷ 720p HD+IR camera⁷

Sensor

ALS (ambient light sensor) Magnetometer Hall Sensor Gyro Accelerometer

7. HD content required to view HD images.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Premium Keyboard, spill resistant, Backlit keyboard and DuraKeys 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

F1 - Display Switching

F2 - Night mode or Privacy (with LED)

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 Programmable Key

Print Screen

Power Button (with LED)

Hidden Function Keys

Fn+R - Break

Fn+S - Sys Rq

Fn+C - Scroll Lock



Technical Specifications

SOFTWARE AND SECURITY

Preinstalled Software

Pre-boot Authentication

BIOS

HP BIOSphere Gen5²⁰
HP Drive Lock & Automatic Drive Lock
BIOS Update via Network
Power On Authentication
Secure Erase²¹
Absolute Persistence Module²²

Software

HP Connection Optimizer
HP Hotkey Support
HP JumpStarts
HP Support Assistant²³
HP Noise Cancellation Software
HP Workwell
Buy Office (sold separately)

Manageability Features

HP Driver Packs²⁴
HP System Software Manager (SSM)
HP BIOS Config Utility (BCU)
HP Client Catalog
HP Manageability Integration Kit Gen4²⁵
HP Image Assistant
HP Client Management Script Library
Ivanti Management Suite*
HP Cloud Recovery

Client Security Software

HP Client Security Manager Gen6²⁶ HP Fingerprint Sensor²⁷ (select models) HP Power On Authentication Windows Defender²⁸

Security Management

Pre-boot Authentication
TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified)²⁹
USB enable/disable (via BIOS)
Power-on password (via BIOS)

Setup password (via BIOS) HP Sure Click³⁰

HP Sure Start Gen6³¹

HP Sure Run Gen3³²

HP Sure Recover Gen3³³

HP Sure Sense³⁴

HP Multi-Factor Authenticate Gen3³⁵

Smartcard Reader

Model number: Alcor AU9560 FIPS 201 Compliant: Yes



Technical Specifications

TPM

Model: Infineon SLB9670

Version: 7.85 Revision: TPM 2.0

FIPS 140-2 Compliant: Yes

IPv6 Certification:

Yes

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

UEFI version: 2.7 Class: Class 3

- 20. HP BIOSphere Gen5 is available on select HP Pro and Elite PCs. See product specifications for details. Features may vary depending on the platform and configurations.
- 21. 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™.
- 22. 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.

- 23. HP Support Assistant requires Windows and Internet access.
- 24. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
- 25. HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html.
- 26. HP Client Security Manager Gen5 requires Windows and is available on the select HP Pro and Elite PCs.
- 27. HP Fingerprint Sensor is an optional feature and requires configuration at purchase.
- 28. Windows Defender Opt in and internet connection required for updates.
- 29. Firmware TPM is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).re TPM is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).
- 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, when Microsoft Office or Adobe Acrobat are installed.
- 31. HP Sure Start Gen5 is available on select HP PCs with Intel processors.
- 32. HP Sure Run Gen3 is available on select Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors.
- 33. HP Sure Recover Gen3 is available on select HP PCs and requires an open network connection. Not available on platforms with multiple internal storage drives. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.
- 34. HP Sure Sense requires Windows 10.
- 35. HP Multi Factor Authenticate Gen3 is available on select HP PCs and requires Intel® Core™ processor, Intel® integrated graphics, and Intel® WLAN. Three authentication factors requires Intel® vPro™ Authentication factors may require optional hardware.
- *Ivanti Management Suite is a paid service



Technical Specifications



Technical Specifications

POWER

Power Supply

HP Smart 45 W External AC power adapter³⁷
HP Smart 45 W External AC power adapter, 2-prong (Japan only)³⁷
HP Smart 65 W External AC power adapter³⁷
HP Smart 65 W EM External AC power adapter³⁷
65 W USB Type-C® adapter³⁷
65 W slim USB Type-C® adapter³⁷

Primary Battery

HP Long Life 3-cell, 53 Wh Li-ion34³⁸ Support HP Fast Charge (Up to 50% in 30 minutes with 65W AC Adapter)³⁹

Power Cord

2-wire plug - 1m (Japan only) 3-wire plug - 1m Premium - 1m

Battery life

MM14 Battery life
UMA graphics: Up to 22 hours (Intel® 10th generation CPU and 3-cell 53 WHr battery) 40
MM18 Battery life
UMA graphics: Up to 14 hours 15 minutes (Intel® 10th generation CPU and 3-cell 53 WHr battery)

Battery Weight

210 g ± 10 g

- 37. Availability may vary by country.
- 38. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 39. Recharges the battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.
- 40. Windows 10 MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See http://www.bapco.com for additional details.



Technical Specifications

WEIGHTS & DIMENSIONS

Product Weight

Starting at 2.89 lb⁴⁰ Starting at 1.31 kg⁴⁰

NOTE: Starting weight configuration includes FHD 400 nits BrightView Touch, 53 Wh battery, 4 GB, 128 GB SSD, HD + IR camera, No FPS, with WWAN Antenna, No NFC, and No Pen

Product Dimensions (w x d x h)

12.1 x 8.07 x 0.71 in 30.75 x 20.5 x 1.79 cm

40. Weight will vary by configuration.

PORTS/SLOTS

2 SuperSpeed USB Type-C[®] 5Gbps signaling rate ™ support, DisplayPort™ 1.2

2 SuperSpeed USB Type-A 5Gbps signaling rate (1 charging)

1 HDMI 1.4b8

1 headphone/microphone combo

1 4.5 mm AC Adapter Port

1 nano SIM card slot*

1 Smartcard reader (optional)

Nano Security Lock Slot (Lock sold separately)

8. HDMI cable sold separately

*All units have a SIM card slot and icon but units that do not support WWAN are shipped with a non-removable SIM slot plug

SERVICE AND SUPPORT

HP Services offers 3-years and 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.41

41. 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 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

SYSTEM UNIT

Stand-Alone Power

Requirements (AC Power) Voltage Average Operating Power 2.4 W Yes Integrated Graphics **Max Operating Power UMA < 65 W** 32° to 95° F (0° to 35° C) (not writing optical) **Temperature Operating** 41° to 95° F (5° to 35° C) (writing optical) **Non-operating Relative Humidity** Operating

19.5 V

10% to 90%, non-condensing Non-operating 5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature

Shock Operating 40 G, 2 ms, half-sine

Nominal Operating

Non-operating 200 G, 2 ms, half-sine

Random Vibration Operating 0.75 grms **Non-operating** 1.50 grms

Altitude (unpressurized) **Operating** -50 to 10,000 ft (-15.24 to 3,048 m)

-50 to 40,000 ft (-15.24 to 12,192 m) Non-operating

Yes

Planned Industry Standard UL Certifications **CSA**

Yes **FCC Compliance** Yes Yes⁴² **ENERGY STAR® EPEAT® 2019** Yes43 **ICES** Yes **Australia** Yes **NZ A-Tick Compliance** Yes CCC Yes **Japan VCCI Compliance** Yes KC Yes **BSMI** Yes **CE Marking Compliance** Yes **BNCI or BELUS** Yes CIT Yes **GOST** Yes Saudi Arabian Compliance Yes (ICCP)

SABS Yes

42. Configurations of the HP EliteBook x360 830 G7 that are ENERGY STAR® certified are identified as HP EliteBook x360 830 G7 ENERGY STAR® on HP websites and on http://www.energystar.gov.

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



Technical Specifications

DISPLAYS

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

Panel LCD 13.3 inch diagonal FHD (1920 x 1080) BrightView WLED UWVA 45% NTSC 250 nits eDP 1.2 w/o PSR

Outline Dimensions (W x H x D) 300.56 x 177.77 mm (max) (FPC folding included)

Active Area 293.76 x 165.24 mm (typ.)

Weight 260 g (max)
Diagonal Size 13.3 inch

Thickness 3.0 mm/ 5.0 mm (PCB) (max)

InterfaceeDP 1.2 (2lane)Surface TreatmentBrightView Glass

Touch Enabled Yes

Contrast Ratio 600:1 (typ.) **Refresh Rate** 60 Hz

Brightness 250 nits (Panel Only) **Pixel Resolution** 1920 x 1080 (FHD)

Format of LCD Pixel Arrangement RGB Backlight LED

Color Gamut Coverage 45% of NTSC **Color Depth** 6 bits

Viewing Angle UWVA 85/85/85

Panel LCD 13.3 inch diagonal FHD (1920 x 1080) BrightView WLED UWVA sRGB 100% NTSC 400 nits eDP 1.4+PSR2 bent

Outline Dimensions (W x H x D) 299.06 x 176.54 mm (max) (FPC folding included)

Active Area 293.76 x 165.24 mm (typ.)

Weight 175 g (max)
Diagonal Size 13.3 inch

Thickness2.0 mm / 3.8 mm (PCB) (max)InterfaceeDP 1.4 w/ PSRII (2 lane)

Surface Treatment Bright View Glass

Touch Enabled Yes

Contrast Ratio 1500:1(typ.)
Refresh Rate 60 Hz

Brightness 400 nits (Panel Only) **Pixel Resolution** 1920 x 1080 (FHD)

Format of LCD Pixel Arrangement RGB **Backlight** LED

Color Gamut Coverage sRGB 100% (NTSC 72%)

Color Depth 8 bits

Viewing Angle UWVA 85/85/85



Technical Specifications

Panel LCD 13.3 inch
diagonal FHD (1920 x 1080)
Anti-Glare WLED UWVA
sRGB 100% NTSC 400 nits
eDP 1.4+PSR2 bent
Outline Dim
Weight
Diagonal Si:

Outline Dimensions (W x H x D) 299.06 x 176.54 mm (max) (FPC folding included)

ctive Area 293.76 x 165.24 mm (typ.)

Weight 175 g (max)
Diagonal Size 13.3 inch

Thickness 2.0 mm / 3.8 mm (PCB) (max) Interface eDP 1.4 w/ PSRII (2 lane)

Surface Treatment Anti-Glare Glass

Touch Enabled Yes

Contrast Ratio 1500:1(typ.)
Refresh Rate 60 Hz

Brightness 400 nits (Panel Only) **Pixel Resolution** 1920 x 1080 (FHD)

Format of LCD Pixel Arrangement RGB Backlight LED

Color Gamut Coverage sRGB 100% (NTSC 72%)

Color Depth 8 bits

Viewing Angle UWVA 85/85/85

Panel LCD 13.3-in diagonal FHD (1920 x 1080) Anti-Glare WLED UWVA 72% NTSC 1000 nits eDP 1.4+PSR Sure View Reflect

 Panel LCD 13.3-in diagonal
 Outline Dimensions (W x H x D)
 299.06 x 176.54 mm (max)

 FHD (1920 x 1080) Anti Active Area
 293.76 x 165.24 mm (typ.)

Weight220 g (max)Diagonal Size13.3 inchThickness3.9 mm (max)

Interface eDP 1.4 + PSR (4 lane)
Surface Treatment Anti-glare glass

Touch Enabled Yes

Contrast Ratio1500:1 (typ.)Refresh Rate60 HzBrightness1000 nits

Pixel Resolution 1920 x 1080 (FHD)

Format of LCD Pixel Arrangement RGB
Backlight LED
Color Gamut Coverage 72%
Color Depth 8 bits

Viewing Angle UWVA 85/85/85



Technical Specifications

Panel LCD 13.3-in diagonal Outline Dimer
FHD (1920 x 1080) Anti-FHD Active Area
(1920 x 1080) BrightView
WLED UWVA 72% NTSC
1000 nits eDP 1.4+PSR Sure
View Reflect

Outline Dimer
Weight
Diagonal Size

 Panel LCD 13.3-in diagonal
 Outline Dimensions (W x H x D)
 299.06 x 176.54 mm (max)

 FHD (1920 x 1080) Anti-FHD (1920 x 1080) Prick Nilson
 Active Area
 293.76 x 165.24 mm (typ.)

Weight220 g (max)Diagonal Size13.3 inchThickness3.9 mm (max)

InterfaceeDP 1.4 + PSR (4 lane)Surface TreatmentBrightView glass

Touch Enabled Yes

Contrast Ratio1500:1 (typ.)Refresh Rate60 HzBrightness1000 nits

Pixel Resolution 1920 x 1080 (FHD)

Format of LCD Pixel Arrangement RGB
Backlight LED
Color Gamut Coverage 72%
Color Depth 8 bits

Viewing Angle UWVA 85/85/85

STORAGE AND DRIVES

Note: 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.

SSD 128 GB 2280 M2 SATA-3 TLC Form Factor M.2 2280
Capacity 128 GB
NAND Type TLC

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Weight
 0.02 lb (10 g)

 Interface
 ATA-8, SATA 3.0

 Maximum Sequential Read
 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



Technical Specifications

SSD 256 GB 2280 M2 PCIe-3x4 SS NVMe TLC Form Factor M.2 2280
Capacity 256 GB
NAND Type TLC

Height0.09 in (2.3 mm)Width0.87 in (22 mm)InterfacePCIe NVMe Gen3X4Maximum Sequential ReadUp To 3167 MB/sMaximum Sequential WriteUp To 1663 MB/sLogical Blocks500,118,192

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

Features ATA Security; TRIM; L1.2

SSD 256 GB 2280 PCIe-3x4 NVMe Self Encrypted OPAL2 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)
Interface ATA-8, SATA 3.0
Maximum Sequential Read Up To 3500 MB/s
Maximum Sequential Write Up To 2200 MB/s
Logical Blocks 500,118,192

Operating Temperature32° to 158°F (0° to 70°C) [ambient temp]FeaturesATA Security (Option); TCG Opal 2.0; TRIM; L1.2

256 GB 2280 PCIe NVMe Value Solid State Drive 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 1700 MB/s
Maximum Sequential Write Up To 600 MB/s
Logical Blocks 500,118,192

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

Features TRIM; L1.2



Technical Specifications

SSD 256 GB 2280 PCle-3x2x2 NVMe+SSD 16 GB Intel® Optane™ Form Factor M.2 2280
Capacity 256 GB
NAND Type QLC

Height0.09 in (2.3 mm)Width0.87 in (22 mm)InterfacePCIe NVMe Gen3X2X2Maximum Sequential ReadUp to 1450 MB/sMaximum Sequential WriteUp to 500 MB/sLogical Blocks500,118,192

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

Features ATA Security; TRIM; L1.2

SSD 512 GB 2280 M2 PCIe-3x4 SS NVMe TLC Form Factor M.2 2280
Capacity 512 GB
NAND Type MLC

Height0.09 in (2.3 mm)Width0.87 in (22 mm)InterfacePCIe NVMe Gen3X4Maximum Sequential ReadUp To 2600 MB/sMaximum Sequential WriteUp To 1400 MB/sLogical Blocks1,000,215,216

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

Features TRIM; L1.2

SSD 512 GB 2280 PCIe-3x4 NVMe Self Encrypted OPAL2 TLC Form Factor M.2 2280
Capacity 512 GB
NAND Type TLC

Height0.09 in (2.3 mm)Width0.87 in (22 mm)InterfacePCIe NVMe Gen3X4Maximum Sequential ReadUp To 2900 MB/sMaximum Sequential WriteUp To 1400 MB/sLogical Blocks1,000,215,215

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

Features TRIM; L1.2



Technical Specifications

SSD 512 GB 2280 PCIe NVMe Value Form Factor M.2 2280
Capacity 512 GB
NAND Type TLC

Height0.09 in (2.3 mm)Width0.87 in (22 mm)InterfacePCIe NVMe Gen3X4Maximum Sequential ReadUp to 1700 MB/sMaximum Sequential WriteUp to 1500 MB/sLogical Blocks1,000,215,215

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

Features TRIM; L1.2

SSD 512 GB 2280 PCle-3x2x2 NVMe+SSD 32 GB Intel® Optane™ Form Factor M.2 2280
Capacity 512 GB
NAND Type TLC

Height 0.09 in (2.3 mm)
Width 0.87 in (22 mm)
Interface PCIe NVMe Gen3X4
Maximum Sequential Read Up to 2400 MB/s
Maximum Sequential Write Up to 1300 MB/s
Logical Blocks 1,000,215,215

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

Features TRIM; L1.2

SSD 1 TB 2280 PCIe-3x4 NVMe TLC SS Form Factor M.2 2280
Capacity 1 TB
NAND Type TLC

Height0.09 in (2.3 mm)Width0.87 in (22 mm)InterfacePCIe NVMe Gen3X4Maximum Sequential ReadUp to 3480 MB/sMaximum Sequential WriteUp to 2800 MB/sLogical Blocks2,000,409,264

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

Features TRIM; L1.2



Technical Specifications

NETWORKING/COMMUNICATIONS

Intel® Wi-Fi 61 AX201 and Wireless LAN Standards IEEE 802.11a Bluetooth® 5.0 802.11ax IEEE 802.11b (2x2) vPro, supporting IEEE 802.11g gigabit file transfer speeds vPro

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

Data Rates •802.11b: 1, 2, 5.5, 11 Mbps

> •802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps •802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps •802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)

•802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, 80MHz &

802.11ax: MCS0 ~ MCS11, (1SS and 2SS) (20MHz, 40MHz, 80MHz &

160MHz)

Modulation Direct Sequence Spread Spectrum

OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM

Security³ •IEEE 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.

IEEE 802.11 compliant roaming between access points

 WPA2 certification WPA3 certification •IEEE 802.11i •WAPI

Network Architecture

Models

Roaming

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

Output Power² • 802.11b: +18.5dBm minimum

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

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



Technical Specifications

802.11n HT40(5GHz): +14.5dBm minimum
802.11ac VHT80(5GHz): +11.5dBm minimum
802.11ac VHT160(5GHz): +11.5dBm minimum
802.11ax HT40(2.4GHz): +10dBm minimum
802.11ax VHT160(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/Modern Standby: 10mW

•Radio disabled: 8 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

Receiver Sensitivity⁴ •802.11b, 1Mbps: -93.5dBm maximum

•802.11b, 11Mbps: -84dBm maximum
• 802.11a/g, 6Mbps: -86dBm maximum
• 802.11a/g, 54Mbps: -72dBm maximum
• 802.11n, MCS07: -67dBm maximum
• 802.11n, MCS15: -64dBm maximum
• 802.11ac, MCS0: -84dBm maximum
• 802.11ac, MCS9: -59dBm maximum
• 802.11ax, MCS11(HT40): -59dBm maximum
• 802.11ax, MCS11(VHT160): -58.5dBm 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 with CNVi Interface

Dimensions 1. Type 2230: 2.3 x 22.0 x 30.0 mm

2. Type 1216: 1.67 x 12.0 x 16.0 mm

Weight 1. Type 2230: 2.8 g

2. Type 126: 1.3 g

Operating Voltage 3.3v +/- 9%

Temperature Operating Operating: 14° to 158° F (–10° to 70° C)

Non-operating Non-operating: -40° to 176° F (-40° to 80° C)

Humidity Operating Operating: 10% to 90% (non-condensing)

Non-operating Non-operating: 5% to 95% (non-condensing)

Altitude Operating Operating: 0 to 10,000 ft (3,048 m)

Non-operating Non-operating: 0 to 50,000 ft (15,240 m)

LED Activity LED Amber – Radio OFF

LED White - Radio ON

HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0/5.1 Wireless Technology

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

Frequency Band 2402 to 2480 MHz
Number of Available Legacy: 0~79 (1 MHz/CH)

Channels BLE: 0~39 (2 MHz/CH)

Signaling Data Rate Legacy: 3 Mbps signaling data rate¹ 2.17 Mbps

BLE: 1 Mbps signaling data rate¹ 0.2 Mbps



Technical Specifications

1. Actual throughput may vary.

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.

Power Consumption Peak (Tx) 330 mW

Peak (Rx) 230 mW

Selective Suspend 17 mW

Bluetooth Software

Supported Link Topology

Certifications

Microsoft Windows Bluetooth Software

Power Management

Microsoft Windows ACPI, and USB Bus Support FCC (47 CFR) Part 15C, Section 15.247 & 15.249

Power Management Certifications ETS 300 328, ETS 300 826 Low Voltage Directive IEC950

UL, CSA, and CE Mark

Bluetooth Profiles Supported

BT4.1-ESR 5/6/7 Compliance

LE Link Layer Ping LE Dual Mode LE Link Layer

LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels

Train Nudging & Interlaced Scan BT4.2 ESR08 Compliance

LE Secure Connection- Basic/Full LE Privacy 1.2 -Link Layer Privacy

LE Privacy 1.2 - Extended Scanner Filter Policies

LE Data Packet Length Extension

FAX Profile (FAX)

Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

Security & Manageability Intel® vPro™ support with appropriate Intel® chipset components

1. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 (802.11ax) are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax devices. Only available in countries where 802.11ax is supported.

2. Maximum output power may vary by country according to local regulations.

12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.

3. Check latest software/driver release for updates on supported security features.

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/q (OFDM modulation).

Wireless LAN Standards IEEE 802.11a



Technical Specifications

Intel® Wi-Fi 6¹ AX201 and IEEE 802.11b
Bluetooth® 5.0 802.11ax IEEE 802.11g
(2x2), non-vPro, IEEE 802.11n
supporting gigabit file IEEE 802.11ax
transfer speeds) non- IEEE 802.11d
vPro 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/q/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

Data Rates •802.11b: 1, 2, 5.5, 11 Mbps

•802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps •802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps •802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)

•802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, 80MHz &

160MHz)

802.11ax: MCS0 ~ MCS11, (1SS and 2SS) (20MHz, 40MHz, 80MHz &

160MHz)

Modulation Direct Sequence Spread Spectrum

OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM

Security³ •IEEE 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 Roaming

Infrastructure (Access Point Required)

IEEE 802.11 compliant roaming between access points

Output Power² • 802.11b: +18.5dBm minimum

802.11g: +17.5dBm minimum802.11a: +18.5dBm minimum

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



Technical Specifications

802.11ac VHT160(5GHz): +11.5dBm minimum
 802.11ax HT40(2.4GHz): +10dBm minimum

• 802.11ax VHT160(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 10mWRadio disabled 8 mW

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802.11 compliant power saving mode

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•802.11b, 11Mbps: -84dBm maximum
• 802.11a/g, 6Mbps: -86dBm maximum
• 802.11a/g, 54Mbps: -72dBm maximum
• 802.11n, MCS07: -67dBm maximum
• 802.11n, MCS15: -64dBm maximum
• 802.11ac, MCS0: -84dBm maximum
• 802.11ac, MCS9: -59dBm maximum
• 802.11ax, MCS11(HT40): -59dBm maximum

•802.11ax, MCS11(HT40): -59dBm maximum •802.11ax, MCS11(VHT160): -58.5dBm maximum

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Weight 1. Type 2230: 2.8 g

2. Type 126: 1.3 g

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 Wireless Technology

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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)

Signaling Data Rate Legacy: 3 Mbps signaling data rate¹ 2.17 Mbps

BLE: 1 Mbps signaling data rate¹ 0.2 Mbps

1. Actual throughput may vary.



Technical Specifications

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.

Power Consumption Peak (Tx) 330 mW

Peak (Rx) 230 mW

Selective Suspend 17 mW

Bluetooth Software

Supported Link Topology

Microsoft Windows Bluetooth Software

Power Management Microsoft Windows ACPI, and USB Bus Support **Certifications** FCC (47 CFR) Part 15C, Section 15.247 & 15.249

Power Management Certifications

ETS 300 328, ETS 300 826 Low Voltage Directive IEC950

UL, CSA, and CE Mark

Bluetooth Profiles Supported

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LE Privacy 1.2 - Extended Scanner Filter Policies

LE Data Packet Length Extension

FAX Profile (FAX)

Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

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2. Maximum output power may vary by country according to local regulations.

12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.

- 3. Check latest software/driver release for updates on supported security features.
- 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).



Technical Specifications

Intel® XMM™ 7560 LTE-Advanced Pro DL CAT16¹ Technology/Operating bands

FDD LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3),

1700/2100 (Band 4), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 14 upper), 700 (Band 17 lower), 850 (Band 18 lower), 850 (Band 19 upper), 800 (Band 20), 1900 (Band 25), 850 (Band 26), 700 (Band 28), 700 (Band 29 RX only), 2300 (Band 30),

1700/2100 (Band 66).

TDD LTE: 2600 (Band 38), 1900 (Band 39), 2400 (Band 40), 2500 (Band

41), 3500 (Band 42), 5200 (Band 46 RX only)

HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4),

850 (Band 5), 900 (Band 8) MHz

Wireless protocol standards

3GPP Release 12 LTE Specification DL-CAT.16, DL 100MHz BW throughput

up to 978Mbps; UL-CAT.7 20MHz throughput up to 75Mbps WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification

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

GPS bands 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou 1561.098

MHz

Maximum data rates LTE: 978 Mbps (Download), 75 Mbps (Upload)

DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21 Mbps (Download), 5.76 Mbps (Upload)

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

LTE B41 HPUE = 26 dBm HSPA+: 23.5 dBm

Maximum power consumption

LTE: 1,200 mA (peak); 900 mA (average) HSPA+: 1,100 mA (peak); 800 mA (average)

Form Factor M.2, 3042-S3 Key B

Weight 6 g

Dimensions (Length x Width x 42 x 30 x 2.3 mm

(Length x Width x Thickness)

1. Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products or in all countries.

Intel® XMM™ 7360 LTE-Advanced CAT9¹ Technology/Operating bands

FDD LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3),

1700/2100 (Band 4), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 1400 (Band 11), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 17 lower), 850 (Band 18 lower), 850 (Band 19 upper), 800 (Band 20), 1400 (Band 21), 850 (Band 26), 700 (Band 28), 700 (Band 29 RX only), 2300

(Band 30), 1700/2100 (Band 66).

TDD LTE: 2600 (Band 38), 1900 (Band 39), 2400 (Band 40), 2500 (Band

41).

HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4),

850 (Band 5), 900 (Band 8) MHz

Wireless protocol standards

3GPP Release 11 LTE Specification CAT.9, DL 60MHz BW throughput up to

450Mbps; UL 20MHz throughput up to 50Mbps

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

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

GPS Bands 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou 1561.098



Technical Specifications

MHz

Maximum data rates LTE: 450 Mbps (Download), 50 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

HSPA+: 23.5 dBm

Maximum power consumption

LTE: 1,200 mA (peak); 900 mA (average) HSPA+: 1,100 mA (peak); 800 mA (average)

Form Factor M.2, 3042-S3 Key B

Weight 5.8 g

Dimensions

(Length x Width x

Thickness)

42 x 30 x 2.3 mm

1. Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products or in all countries.

Near Field Communications Controller (optional) **Dimensions (L x W x H)** Module 25 mm by 10 mm by 2.0 mm

Chipset NPC100
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) Mode¹

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) Mode¹

ISO/IEC 14443 A

ISO/IEC 14443 B and B'

MIFARE FeliCa

Frequency 13.56 MHz

NFC Modes Supported Reader/Writer, Peer-to-Peer 106, 212, 424, 848 kbps

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



Technical Specifications

5-95% non-operating

Supply Operating voltage 4.35 to 5.25 Volts

I/O Voltage 1.8 V or 3.3 V

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

Mode Power Consumption, Typical

Plling 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

Antenna Antenna connector, 0.5mm pitch, 7 connector FPC. Antenna matching is

external to module.

POWER

AC Adapter 65 Watt **Smart nPFC Standard** Barrel 4.5 mm Right Angle 1.0 m

Dimensions (H x W x D) 107.0 x 47.0 x 30.0mm

250 a +/- 10 a Weight

Not including power cord. Power cord varies by country

Input **Input Efficiency** 88.0 % at 115 Vac and 89.0 % at 230Vac

> 47 ~ 63 Hz Input frequency range

Max. 1.7 A at 90 Vac **Input AC current**

Output **Output power** 65 W

> **DC** output 19.5 V

Hold-up time 5ms at 115 Vac input

Output current limit <11.0A

Connector 4.5mm Barrel Type

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)

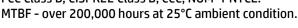
Humidity 20% to 95% **Storage Humidity** 10% to 95%

EMI and Safety CE Mark - full compliance with LVD and EMC directives

Certifications Worldwide safety standards - IEC60950, EN60950, UL60950, Class1,

SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B,

FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE.





Technical Specifications

AC Adapter 45 Watt Smart nPFC Standard Barrel 4.5 mm Right Angle 1.0 m

Dimensions (H x W x D) 95.0 x 40.0 x 26.5 mm

Weiaht 200 a +/- 10 a

Not including power cord. Power cord varies by country

Input Efficiency 87.74 % at 115 Vac and 88.4 % at 230Vac Input

> Input frequency range 47 ~ 63 Hz

Input AC current Max. 1.4 A at 90 Vac

Output **Output power** 45 W

> DC output 19.5 V

Hold-up time 5 ms at 115 Vac input

Output current limit <8.0 A

4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords Connector

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

temperature

Non-operating (storage) -4° 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, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B,

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

AC Adapter 45 Watt Smart Dimensions (H x W x D) nPFC Standard Barrel 4.5 Weight mm Right Angle 1.0 m

95 x 45 x 26.8 mm 200 a +/- 10 a

Not including power cord. Power cord varies by country

Input **Input Efficiency** 87.74 % at 115 Vac and 88.4 % at 230Vac

> Input frequency range 47 ~ 63 Hz

Input AC current Max. 1.4 A at 90 Vac

Output 45 W **Output power**

> DC output 19.5 V

Hold-up time 5 ms at 115 Vac input

Output current limit <8.0 A

Connector 4.5 mm Barrel Type

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)



2pronq

Technical Specifications

Humidity 20% to 95%

Storage Humidity 10% to 95%

EMI and Safety Certifications CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards - IEC60950, EN60950, UL60950, Class 1, SELV: Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B.

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

AC Adapter 65 Watt nPFC Standard USB Type-C® Straight 1.0 m **Dimensions (H x W x D)** 90.0 x 51 x 28.5 mm

Weight 250 g +/- 10 g

Not including power cord. Power cord varies by country

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

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

Input frequency range 47 to 63Hz

Input AC current 1.6 A at 90 VAC and maximum load

Output Output Power 65 W

DC output 5V/9V/12V/15V/20V **Hold-up time** 5 msec at 115 VAC input

Output current limit 8.0 A MAXIMUM

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, EN60950, UL60950, ul62368, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022

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

AC Adapter 65 Watt Smart nPFC EM Barrel 4.5 mm New EM **Dimensions (H x W x D)** 102 x 55 x 30mm

Weight 270 g +/- 10 g

Not including power cord. Power cord varies by country



Technical Specifications

Input Efficiency 88.0 % at 115 Vac and 89.0 % at 230 Vac

Input frequency range 47 to 63 Hz

Input AC current Max. 1.7 A at 90 Vac

Output Output power 65 W

DC output 19.5 V

Hold-up time 5 msec at 115 VAC input

Output current limit <11.0 A

Connector 4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords

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 5,000 m
Humidity 20% to 95%
Storage Humidity 10% to 95%

EMI and Safety CE Mark - full compliance with LVD and EMC directives
Certifications Worldwide safety standards - IEC60950. EN60950. UL

Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B,

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

AC Adapter 65 Watt nPFC Standard USB Type-C® Straight 1.0 m **Dimensions (H x W x D)** 90.0 x 51 x 28.5 mm

Weight $250 \, q + / - 10 \, q$

Not including power cord. Power cord varies by country

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

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

Input frequency range 47 to 63Hz

Input AC current 1.6 A at 90 VAC and maximum load

Output Output Power 65 W

DC output 5V/9V/12V/15V/20V **Hold-up time** 5 msec at 115 VAC input

Output current limit 8.0 A MAXIMUM

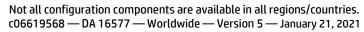
Connector USB Type-C®

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





Technical Specifications

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, EN60950, UL60950, ul62368, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022

Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. MTBF - over 200.000 hours at 25°C ambient condition.

AC Adapter 65 Watt nPFC Slim USB type C[®] Straight 1.0 m **Dimensions (H x W x D)** 88 x 53.5 x 21 mm

Weight 220 g +/- 10g

Not including power cord. Power cord varies by country

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

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

Input frequency range 47 to 63 Hz

Input AC current 1.6 A at 90 VAC and maximum load

Output Output Power 65 W

DC output 5V/9V/12V/15V/20V **Hold-up time** 5 ms at 115 Vac input

Output current limit <8.0 A

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 5% to 95% **Storage Humidity** 5% to 95%

EMI and Safety Certifications CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards - IEC60950, EN60950, UL60950, Class1,

SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B. CISPR22 Class B. CCC. NOM-1 NYCE.

MTBF - over 100,000 hours at 25°C ambient condition.

HP 3 Cell WHr 53 Long Life -PL Fast Charge **Dimensions (H x W x D)** 267.3 x 59.75 x 7.5 mm

Weight $210 g \pm 10 g$

Cells/Type3cell Lithium-Ion Polymer cell / 645180EnergyVoltage11.55 V



Technical Specifications

Temperature

Amp-hour capacity 4590 mAh

Watt-hour capacity 53 Wh

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

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

Optional Travel Battery No

Available

Country of Origin

China



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

Туре	Description	Part Number
Cases	HP Business Backpack (up to 17.3")	2SC67AA
	HP Business Case (up to 15.6")	2SC66AA
	HP Business Slim Top Load (up to 14.1" x .75" thick)	2SC65AA
	HP Prelude Pro Recycled Top Load (up to 15.6")	1X645AA
Docking	HP USB-C Mini Dock	1PM64AA
	HP Thunderbolt Dock 120W G2	2UK37AA
	HP TB Dock 120W G2 w/ Audio	3YE87AA
	HP USB-C/A Universal Dock G2	5TW13AA
	HP USB-C Dock G5	5TW10AA
	HP USB-C Travel Hub G2	7PJ38AA
	HP Elite USB-C Hub	4WX89AA
Input/Output	HP Slim Wireless Keyboard and Mouse	T6L04AA
	HP Slim USB Keyboard and Mouse	T6T83AA
	HP Wireless (Link-5) Keyboard	T6U20AA
	HP USB Essential Keyboard and Mouse	H6L29AA
	HP USB Collaboration Keyboard	Z9N38AA
	HP Wireless Collaboration Keyboard	Z9N39AA
	HP Comfort Grip Wireless Mouse	H2L63AA
	HP X4000b Bluetooth Mouse	H3T50AA
	HP 3-Button USB Laser Mouse	H4B81AA
	HP Ultra Mobile Wireless Mouse	H6F25AA
	HP Slim Bluetooth Mouse	F3J92AA
	HP Wireless Premium Mouse	1JR31AA
	HP USB Premium Mouse	1JR32AA
	HP Essential USB Mouse	2TX37AA
	HP Elite Presenter Mouse	2CE30AA
	HP Bluetooth Travel Mouse	6SP30AA
	HP Stereo 3.5mm Headset	T1A66AA
	HP Stereo USB Headset	T1A67AA
	HP UC Wireless Duo Headset	W3K09AA
	HP USB-C to USB-A Hub	Z6A00AA
	HP USB-C to DP	N9K78AA
	HP USB-C to VGA	N9K76AA
	HP HDMI to VGA	H4F02AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to RJ45 Adapter	V7W66AA
Power	HP 65W Slim AC Adapter	H6Y82AA
	HP 45W Smart AC Adapter	H6Y88AA
	HP 65W Smart AC Adapter	H6Y89AA



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

	-
HP 45W 2-prong 4.5 mm DC jack AC Adapter	L6F60AA
HP 45W USB-C Power Adapter	1HE07AA
HP 65W USB-C Power Adapter	1HE08AA
HP 65W USB-C Slim Power Adapter	3PN48AA
HP Notebook Power Bank	N9F71AA
HP USB-C Notebook Power Bank	1TZ86AA
HP USB External DVDRW Drive	F2B56AA
HP Nano Keyed Cable Lock	1AJ39AA
HP Nano Dual-Head Keyed Cable Lock	1AJ41AA
HP Sure Key Cable Lock	6UW42AA
HP XMMT 7360 LTE WWAN	3FB01AA
HP Rechargeable Active Pen G3	6SG43AA
	HP 45W USB-C Power Adapter HP 65W USB-C Slim Power Adapter HP 65W USB-C Slim Power Adapter HP Notebook Power Bank HP USB-C Notebook Power Bank HP USB External DVDRW Drive HP Nano Keyed Cable Lock HP Nano Dual-Head Keyed Cable Lock HP Sure Key Cable Lock HP SURE Key Cable Lock



Change Log

Date of change:	Version History:		Description of change:
	From V1 to V2		Battery updated
December 11,2020	From V2 to V3		Accessories, Processor section updated
January 17, 2021	From V3 to V4		Processors
January 21, 2021	From V4 to V5	Added	WPA3 certification in Security, Networking section

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