

Overview

HP EliteBook x360 830 G7 Notebook PC



Left

- | | |
|--------------------------------|--|
| 1. Internal Microphones (2) | 7. Glass Clickpad |
| 2. Web cam LED | 8. Smartcard Reader (Optional) |
| 3. HD and IR Camera (Optional) | 9. Audio Combo Jack |
| 4. Camera Shutter | 10. USB 3.1 Gen 1 Port |
| 5. IR Camera LEDs (Optional) | 11. USB 3.1 Gen 1 Charging Port |
| 6. Ambient Light Sensor | 12. Nano Security Lock Slot (Lock sold separately) |

Overview



Right

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

1. All units have a SIM card tray 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
- Long battery life up to 22 hours⁵
- Tested for 19 MIL-STD 810G 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.



QuickSpecs

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 Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com/>

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

PROCESSORS

Intel® Core™ i7-10810U with Intel® UHD Graphics 620 (1.1 GHz base frequency, up to 4 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores)^{3,4,5,6}

Intel® Core™ i7-10710U with Intel® UHD Graphics 620 (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 620 (1.8 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores)^{3,4,5,6}

Intel® Core™ i7-10510U with Intel® UHD Graphics 620 (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 620 (1.7 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 6 MB L3 cache, 4 cores)^{3,4,5,6}

Intel® Core™ i5-10210U with Intel® UHD Graphics 620 (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>.



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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 Lower 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 Lower 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 Lower 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 Lower 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}

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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.



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

<i>Dockingstation model</i>	<i>Total number of supported displays (Including the notebook display)</i>	<i>Max. resolutions supported</i>	<i>Dock Connectors</i>	<i>Technical limitations</i>
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

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



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Technical Specifications

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.

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.



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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.

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



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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

SOFTWARE AND SECURITY

Preinstalled Software

BIOS
HP BIOSphere Gen5²⁰
HP Drive Lock & Automatic Drive Lock²¹
BIOS Update via Network
Power On Authentication
Secure Erase²²
Absolute Persistence Module²³
Pre-boot Authentication

Software

HP Connection Optimizer
HP Hotkey Support
HP JumpStarts
HP Support Assistant²⁴
HP Noise Cancellation Software
HP Workwell
Buy Office (sold separately)

Manageability Features

HP Driver Packs²⁵
HP System Software Manager (SSM)
HP BIOS Config Utility (BCU)
HP Client Catalog
HP Manageability Integration Kit Gen4²⁶
HP Image Assistant
HP Client Management Script Library
Ivanti Management Suite*
HP Cloud Recovery

Client Security Software

HP Client Security Manager Gen6²⁷
HP Fingerprint Sensor²⁸ (select models)
HP Power On Authentication
Windows Defender²⁹

Security Management

Pre-boot Authentication
TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified)³⁰
USB enable/disable (via BIOS)
Power-on password (via BIOS)



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Setup password (via BIOS)

HP Sure Click³¹

HP Sure Start Gen6³²

HP Sure Run Gen3³³

HP Sure Recover Gen3³⁴

HP Sure Sense³⁵

HP Multi-Factor Authenticate Gen3³⁶

Smartcard Reader

Model number: Alcor AU9560

FIPS 201 Compliant: Yes

TPM

Model: Infineon SLB9670

Version: 7.85

Revision: TPM 2.0

FIPS 140-2 Compliant: Yes

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 Automatic Drive Lock is not supported on NVMe drives.
22. 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™.
23. 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.
24. HP Support Assistant requires Windows and Internet access.
25. HP Driver Packs not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.
26. HP Manageability Integration Kit can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>.
27. HP Client Security Manager Gen5 requires Windows and is available on the select HP Pro and Elite PCs.
28. HP Fingerprint Sensor is an optional feature and requires configuration at purchase.
29. Windows Defender Opt in and internet connection required for updates.
30. 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).
31. 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.
32. HP Sure Start Gen5 is available on select HP PCs with Intel processors.
33. HP Sure Run Gen3 is available on select Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors.



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34. 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.

35. HP Sure Sense requires Windows 10.

36. 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**

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-ion³⁸

Power Cord

2-wire plug - 1 m (Japan only)

3-wire plug - 1 m

Premium - 1 m

Battery Life

MM14: 22 hours

MM18: TBD³⁹

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. Windows 10 MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See <http://www.bapco.com> for additional details.

WEIGHTS & DIMENSIONS

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



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30.75 x 20.5 x 1.79 cm

40. Weight will vary by configuration.

PORTS/SLOTS

2 USB 3.1 Type-C® with Thunderbolt™ support
 1 USB 3.1 Gen 1
 1 USB 3.1 Gen 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.



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SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)	Nominal Operating Voltage	19.5 V
	Average Operating Power	2.4 W
	Integrated Graphics	Yes
Temperature	Max Operating Power	UMA < 65 W
	Operating	32° to 95° F (0° to 35° C) (not writing optical)
	Non-operating	41° to 95° F (5° to 35° C) (writing optical)
Relative Humidity	Operating	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
	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)
	Non-operating	-50 to 40,000 ft (-15.24 to 12,192 m)
Planned Industry Standard Certifications	UL	Yes
	CSA	Yes
	FCC Compliance	Yes
	ENERGY STAR®	Yes⁴²
	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 (ICCP)	Yes
	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.



QuickSpecs

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)
	Interface	eDP 1.2 (2lane)
	Surface Treatment	BrightView 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 85/85/85/85

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
	Thickness	2.0 mm / 3.8 mm (PCB) (max)
	Interface	eDP 1.4 w/ PSR11 (2 lane)
	Surface Treatment	BrightView 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 85/85/85/85



QuickSpecs

Technical Specifications

<i>Panel LCD 13.3 inch diagonal FHD (1920 x 1080) Anti-Glare WLED UWVA sRGB 100% NTSC 400 nits eDP 1.4+PSR2 bent</i>	<i>Outline Dimensions (W x H x D)</i>	299.06 x 176.54 mm (max) (FPC folding included)
	<i>Active Area</i>	293.76 x 165.24 mm (typ.)
	<i>Weight</i>	175 g (max)
	<i>Diagonal Size</i>	13.3 inch
	<i>Thickness</i>	2.0 mm / 3.8 mm (PCB) (max)
	<i>Interface</i>	eDP 1.4 w/ PSR11 (2 lane)
	<i>Surface Treatment</i>	Anti-Glare Glass
	<i>Touch Enabled</i>	Yes
	<i>Contrast Ratio</i>	1500:1 (typ.)
	<i>Refresh Rate</i>	60 Hz
	<i>Brightness</i>	400 nits (Panel Only)
	<i>Pixel Resolution</i>	1920 x 1080 (FHD)
	<i>Format of LCD Pixel Arrangement</i>	RGB
	<i>Backlight</i>	LED
	<i>Color Gamut Coverage</i>	sRGB 100% (NTSC 72%)
	<i>Color Depth</i>	8 bits
	<i>Viewing Angle</i>	UWVA 85/85/85/85

<i>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</i>	<i>Outline Dimensions (W x H x D)</i>	299.06 x 176.54 mm (max)
	<i>Active Area</i>	293.76 x 165.24 mm (typ.)
	<i>Weight</i>	220 g (max)
	<i>Diagonal Size</i>	13.3 inch
	<i>Thickness</i>	3.9 mm (max)
	<i>Interface</i>	eDP 1.4 + PSR (4 lane)
	<i>Surface Treatment</i>	Anti-glare glass
	<i>Touch Enabled</i>	Yes
	<i>Contrast Ratio</i>	1500:1 (typ.)
	<i>Refresh Rate</i>	60 Hz
	<i>Brightness</i>	1000 nits
	<i>Pixel Resolution</i>	1920 x 1080 (FHD)
	<i>Format of LCD Pixel Arrangement</i>	RGB
	<i>Backlight</i>	LED
	<i>Color Gamut Coverage</i>	72%
	<i>Color Depth</i>	8 bits
	<i>Viewing Angle</i>	UWVA 85/85/85/85



QuickSpecs

Technical Specifications

Panel LCD 13.3-in diagonal FHD (1920 x 1080) Anti-FHD (1920 x 1080) BrightView WLED UWVA 72% NTSC 1000 nits eDP 1.4+PSR SureView Reflect	Outline Dimensions (W x H x D)	299.06 x 176.54 mm (max)
	Active Area	293.76 x 165.24 mm (typ.)
	Weight	220 g (max)
	Diagonal Size	13.3 inch
	Thickness	3.9 mm (max)
	Interface	eDP 1.4 + PSR (4 lane)
	Surface Treatment	BrightView glass
	Touch Enabled	Yes
	Contrast Ratio	1500:1 (typ.)
	Refresh Rate	60 Hz
	Brightness	1000 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 85/85/85/85

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

SSD 256 GB 2280 M2 PCIe-3x4 SS NVMe TLC	Form Factor	M.2 2280
	Capacity	256 GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)



QuickSpecs

Technical Specifications

<i>Interface</i>	PCIe NVMe Gen3X4
<i>Maximum Sequential Read</i>	Up To 3167 MB/s
<i>Maximum Sequential Write</i>	Up To 1663 MB/s
<i>Logical Blocks</i>	500,118,192
<i>Operating Temperature</i>	32° to 158°F (0° to 70°C) [ambient temp]
<i>Features</i>	ATA Security; TRIM; L1.2

SSD 256 GB 2280 PCIe-3x4 NVMe Self Encrypted OPAL2 TLC	<i>Form Factor</i>	M.2 2280
	<i>Capacity</i>	256 GB
	<i>NAND Type</i>	TLC
	<i>Height</i>	0.09 in (2.3 mm)
	<i>Width</i>	0.87 in (22 mm)
	<i>Interface</i>	ATA-8, SATA 3.0
	<i>Maximum Sequential Read</i>	Up To 3500 MB/s
	<i>Maximum Sequential Write</i>	Up To 2200 MB/s
	<i>Logical Blocks</i>	500,118,192
	<i>Operating Temperature</i>	32° to 158°F (0° to 70°C) [ambient temp]
	<i>Features</i>	ATA Security (Option); TCG Opal 2.0; TRIM; L1.2

256 GB 2280 PCIe NVMe Value Solid State Drive	<i>Form Factor</i>	M.2 2280
	<i>Capacity</i>	256 GB
	<i>NAND Type</i>	TLC
	<i>Height</i>	0.09 in (2.3 mm)
	<i>Width</i>	0.87 in (22 mm)
	<i>Weight</i>	0.02 lb (10 g)
	<i>Interface</i>	PCIe NVMe Gen3X4
	<i>Maximum Sequential Read</i>	Up To 1700 MB/s
	<i>Maximum Sequential Write</i>	Up To 600 MB/s
	<i>Logical Blocks</i>	500,118,192
	<i>Operating Temperature</i>	32° to 158°F (0° to 70°C) [ambient temp]
	<i>Features</i>	TRIM; L1.2

SSD 256 GB 2280 PCIe- 3x2x2 NVMe+SSD 16 GB Intel® Optane™	<i>Form Factor</i>	M.2 2280
	<i>Capacity</i>	256 GB
	<i>NAND Type</i>	QLC
	<i>Height</i>	0.09 in (2.3 mm)
	<i>Width</i>	0.87 in (22 mm)
	<i>Interface</i>	PCIe NVMe Gen3X2X2
	<i>Maximum Sequential Read</i>	Up to 1450 MB/s
	<i>Maximum Sequential Write</i>	Up to 500 MB/s



QuickSpecs

Technical Specifications

	Logical Blocks	500,118,192
	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
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	Up To 2600 MB/s
	Maximum Sequential Write	Up To 1400 MB/s
	Logical Blocks	1,000,215,216
	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
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	Up To 2900 MB/s
	Maximum Sequential Write	Up To 1400 MB/s
	Logical Blocks	1,000,215,215
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	TRIM; L1.2
SSD 512 GB 2280 PCIe NVMe Value	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 1700 MB/s
	Maximum Sequential Write	Up to 1500 MB/s
	Logical Blocks	1,000,215,215
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	TRIM; L1.2



QuickSpecs

Technical Specifications

SSD 512 GB 2280 PCIe-
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
Height	0.09 in (2.3 mm)
Width	0.87 in (22 mm)
Interface	PCIe NVMe Gen3X4
Maximum Sequential Read	Up to 3480 MB/s
Maximum Sequential Write	Up to 2800 MB/s
Logical Blocks	2,000,409,264
Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
Features	TRIM; L1.2



QuickSpecs

Technical Specifications

NETWORKING/COMMUNICATIONS

Intel® Wi-Fi 6¹ AX201 and Bluetooth® 5.0 802.11ax
(2x2) vPro, supporting
gigabit file transfer
speeds vPro

IEEE 802.11a
IEEE 802.11b
IEEE 802.11g
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
Frequency Band

Wi-Fi CERTIFIED™
•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 & 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
•IEEE 802.11i
•WAPI

Network Architecture
Models

Ad-hoc (Peer to Peer)
Infrastructure (Access Point Required)

Roaming

IEEE 802.11 compliant roaming between access points

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
•802.11n HT40(5GHz): +14.5dBm minimum



QuickSpecs

Technical Specifications

	• 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 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: -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 Channels	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)
Signaling Data Rate	Legacy: 3 Mbps signaling data rate ¹ 2.17 Mbps BLE: 1 Mbps signaling data rate ¹ 0.2 Mbps 1. Actual throughput may vary.



QuickSpecs

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)
<i>Transmit Power</i>	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 9.5 dBm for BR and EDR.
<i>Power Consumption</i>	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 17 mW
<i>Bluetooth Software Supported</i>	Microsoft Windows Bluetooth Software
<i>Link Topology</i>	
<i>Power Management</i>	Microsoft Windows ACPI, and USB Bus Support
<i>Certifications</i>	FCC (47 CFR) Part 15C, Section 15.247 & 15.249
<i>Power Management Certifications</i>	ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark
<i>Bluetooth Profiles Supported</i>	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)
<i>Security & Manageability</i>	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/g (OFDM modulation).



QuickSpecs

Technical Specifications

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

Interoperability Frequency Band

IEEE 802.11a
IEEE 802.11b
IEEE 802.11g
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

Wi-Fi CERTIFIED™

•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 & 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
•IEEE 802.11i
•WAPI

Network Architecture Models

Ad-hoc (Peer to Peer)
Infrastructure (Access Point Required)

Roaming

IEEE 802.11 compliant roaming between access points

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
•802.11n HT40(5GHz): +14.5dBm minimum
•802.11ac VHT80(5GHz): +11.5dBm minimum



QuickSpecs

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 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: -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 1216: 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	
Bluetooth Specification	4.0/4.1/4.2/5.0/5.1 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available Channels	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)
Signaling Data Rate	Legacy: 3 Mbps signaling data rate ¹ 2.17 Mbps BLE: 1 Mbps signaling data rate ¹ 0.2 Mbps 1. Actual throughput may vary.



QuickSpecs

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)
<i>Transmit Power</i>	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 9.5 dBm for BR and EDR.
<i>Power Consumption</i>	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 17 mW
<i>Bluetooth Software Supported Link Topology</i>	Microsoft Windows Bluetooth Software
<i>Power Management</i>	Microsoft Windows ACPI, and USB Bus Support
<i>Certifications</i>	FCC (47 CFR) Part 15C, Section 15.247 & 15.249
<i>Power Management Certifications</i>	ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark
<i>Bluetooth Profiles Supported</i>	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)

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/g (OFDM modulation).



QuickSpecs

Technical Specifications

Intel® XMM™ 7560 LTE-Advanced Pro DL CAT 16 ¹	Technology/Operating bands	FDD LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3), 1700/2100 (Band 4), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 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 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
	Wireless protocol standards	
	GPS	Standalone, A-GPS (MS-A, MS-B)
	GPS bands	1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou 1561.098 MHz
	Maximum data rates	LTE: 978 Mbps (Download), 75 Mbps (Upload) DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21Mbps (Download), 5.76 Mbps (Upload)
	Maximum output power	LTE: 23 dBm in all band except B41 LTE B41 HPUE = 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 Thickness)	42 x 30 x 2.3 mm

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

Intel® XMM™ 7360 LTE-Advanced CAT9 ¹	Technology/Operating bands	FDD LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3), 1700/2100 (Band 4), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 1400 (Band 11), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 17 lower), 850 (Band 18 lower), 850 (Band 19 upper), 800 (Band 20), 1400 (Band 21), 850 (Band 26), 700 (Band 28), 700 (Band 29 RX only), 2300 (Band 30), 1700/2100 (Band 66). TDD LTE: 2600 (Band 38), 1900 (Band 39), 2400 (Band 40), 2500 (Band 41). HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4), 850 (Band 5), 900 (Band 8) MHz 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
	Wireless protocol standards	
	GPS	Standalone, A-GPS (MS-A, MS-B)
	GPS Bands	1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou 1561.098



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	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) Mode ¹	ISO/IEC 14443 A ISO/IEC 14443 B ISO/IEC 15693 MIFARE 1K MIFARE 4K MIFARE DESFire FeliCa Jewel and Topaz cards
Card Emulation (PICC-VICC) Mode ¹	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 temperature	0°C to 70°C
Storage temperature	-20°C to 125°C
Humidity	10-90% operating

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Technical Specifications

		5-95% non-operating
<i>Power Consumption</i> (Booster enable, VBAT= 3.3V, VCC_BOOST = 5V)	<i>Supply Operating voltage</i>	4.35 to 5.25 Volts
	<i>I/O Voltage</i>	1.8 V or 3.3 V
<i>Power Consumption</i> (Booster enable, VBAT= 3.3V, VCC_BOOST = 5V)	<i>Mode</i>	Power Consumption, Typical
	<i>Plling</i>	7.3 mA
	<i>Detected Test Tag Type 1</i>	Total 283.8 mA Net Module 236.8 mA
	<i>Detected Test Tag Type 2</i>	Total 288.8 mA Net Module 241.8 mA
	<i>Detected Test Tag Type 3</i>	Total 287.7 mA Net Module 240.7 mA
	<i>Detected Test Tag Type 4</i>	Total 282.3 mA Net Module 235.3 mA
<i>Antenna</i>		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	
	Weight	250 g +/- 10 g Not including power cord. Power cord varies by country	
	Input	Input Efficiency	88.0 % at 115 Vac and 89.0 % at 230Vac
		Input frequency range	47 ~ 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	5ms at 115 Vac input
		Output current limit	<11.0A
		Connector	4.5mm Barrel Type
	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, 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.		



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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	
	Weight	200 g +/- 10 g 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
	Output	Input AC current	Max. 1.4 A at 90 Vac
		Output power	45 W
		DC output	19.5 V
		Hold-up time	5 ms at 115 Vac input
		Output current limit	<8.0 A
	Connector	4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords	
	Environmental Design	Operating temperature	32° to 95°F (0° to 35°C)
		Non-operating (storage) temperature	-4° to 185°F (-20° to 85°C)
		Altitude	0 to 16,400 ft (0 to 5000m)
		Humidity	20% to 95%
		Storage Humidity	10% to 95%
	EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives Worldwide safety standards - 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 nPFC Standard Barrel 4.5 mm Right Angle 1.0 m 2prong	Dimensions (H x W x D)	95 x 45 x 26.8 mm	
	Weight	200 g +/- 10 g 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
	Output	Input AC current	Max. 1.4 A at 90 Vac
		Output power	45 W
		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 temperature	32°F to 95°F (0° to 35°C)
		Non-operating (storage) temperature	-4°F to 185°F (-20° to 85°C)



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EMI and Safety Certifications	Altitude	0 to 16,400 ft (0 to 5000m)	
	Humidity	20% to 95%	
	Storage Humidity	10% to 95%	
	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 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 Power	65 W
		DC output	5V/9V/12V/15V/20V
	Output	Hold-up time	5 msec at 115 VAC input
		Output current limit	8.0 A MAXIMUM
		Connector	USB Type-C®
		Environmental Design	Operating 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%
	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.	
	Dimensions (H x W x D)		102 x 55 x 30mm
	Weight		270 g +/- 10 g



QuickSpecs

Technical Specifications

Not including power cord. Power cord varies by country

AC Adapter 65 Watt Smart nPFC EM Barrel 4.5 mm New EM	Input	Input Efficiency	88.0 % at 115 Vac and 89.0 % at 230Vac
		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 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 5,000 m
		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 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 temperature	32°F to 95°F (0° to 35°C)



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Technical Specifications

		<i>Non-operating (storage) temperature</i>	-4°F to 185°F (-20° to 85°C)	
		<i>Altitude</i>	0 to 16,400 ft (0 to 5000m)	
		<i>Humidity</i>	20% to 95%	
		<i>Storage Humidity</i>	10% to 95%	
	<i>EMI and Safety Certifications</i>	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.		
<i>AC Adapter 65 Watt nPFC Slim USB type C® Straight 1.0 m</i>	<i>Dimensions (H x W x D)</i>	88 x 53.5 x 21 mm		
	<i>Weight</i>	220 g +/- 10g Not including power cord. Power cord varies by country		
	<i>Input</i>	<i>Input Efficiency</i>	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	
		<i>Input frequency range</i>	47 to 63 Hz	
	<i>Output</i>	<i>Input AC current</i>	1.6 A at 90 VAC and maximum load	
		<i>Output Power</i>	65 W	
		<i>DC output</i>	5V/9V/12V/15V/20V	
		<i>Hold-up time</i>	5 ms at 115 Vac input	
		<i>Output current limit</i>	<8.0 A	
		<i>Connector</i>	USB Type-C®	
	<i>Environmental Design</i>	<i>Operating temperature</i>	32°F to 95°F (0° to 35°C)	
		<i>Non-operating (storage) temperature</i>	-4°F to 185°F (-20° to 85°C)	
		<i>Altitude</i>	0 to 16,400 ft (0 to 5000m)	
		<i>Humidity</i>	5% to 95%	
		<i>Storage Humidity</i>	5% to 95%	
		<i>EMI and Safety Certifications</i>	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.	
<i>HP 3 Cell WHr 53 Long Life -PL Fast Charge</i>	<i>Dimensions (H x W x D)</i>	267.3 x 59.75 x 7.5 mm		
	<i>Weight</i>	210 g ± 10 g		
	<i>Cells/Type</i>	3cell Lithium-Ion Polymer cell / 645180		



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Technical Specifications

<i>Energy</i>	<i>Voltage</i>	11.55 V
	<i>Amp-hour capacity</i>	4590 mAh
	<i>Watt-hour capacity</i>	53 Wh
<i>Temperature</i>	<i>Operating (Charging)</i>	32° to 113° F (0° to 45° C)
	<i>Operating (Discharging)</i>	14° to 122° F (-10° to 60° C)
	<i>Optional Travel Battery Available</i>	No



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Technical Specifications

Country of Origin

China



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

Type	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
Storage	HP USB External DVDRW Drive	F2B56AA
Security	HP Nano Keyed Cable Lock	1AJ39AA
	HP Nano Dual-Head Keyed Cable Lock	1AJ41AA
	HP Sure Key Cable Lock	6UW42AA
WWAN	HP XMMT 7360 LTE WWAN	3FB01AA
Other	Rechargeable Pen	4KL69AA



Change Log

<i>Date of change:</i>	<i>Version History:</i>		<i>Description of change:</i>
	From V1 to V2		

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