

Overview

HP EliteBook 850 G7 Notebook PC



Left

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

Overview



Right

- | | |
|------------------------------------|---|
| 1. Power Button Key | 5. USB Type-C® with Thunderbolt™ |
| 2. Power Connector | 6. USB Type-C® with Thunderbolt™ |
| 3. USB 3.1 Gen 1 Port | 7. SIM Card Slot ¹ |
| 4. HDMI Port (Cable nhot included) | 8. 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 aluminum (CNC) chassis for a premium look and feel
- 10th Generation Intel® Core™ i5 up to quad-core, i7 Processors up to six-core
- Preinstalled with Windows 10 versions or FreeDOS
- Designed to support USB-C® and Thunderbolt HP docking options including the HP Universal Dock G5
- Featuring redesigned Bottom-Mount quiet HP Keyboard with the HP Programmable key and backlit options
- Innovative world-facing third mic improves inbound ambient noise cancellation while 360 degree mic pick-up allows everyone to clearly hear and be heard
- Optional ultrabright displays with ambient light sensor
- Choice of displays:
 - 39.6 cm (15.6") diagonal FHD IPS Anti-Glare LED-backlit, 250 nits, 45% NTSC
 - 39.6 cm (15.6") diagonal FHD IPS Anti-Glare LED-backlit non-touch 1W low power, 400 nits, 72% NTSC
 - 39.6 cm (15.6") diagonal UHD IPS Anti-Glare LED-backlit non-touch, 400 nits, 72% NTSC
 - 39.6 cm (15.6") diagonal FHD IPS Anti-Glare On-Cell LED-backlit touch, 250 nits, 45% NTSC
- Optional NVIDIA GeForce MX250 discrete graphics with 2GB GDDR5 video memory
- Enterprise grade security with HP Sure Sense⁴, HP SureStart Gen6, HP Privacy Camera, HP Sure Run Gen2, HP Sure Recover Gen2 with Embedded Reimaging¹, HP Sure Click, SmartCard Reader¹ and Touch Fingerprint reader⁵ (select models)
- Ultimate connectivity with optional CAT16 4G/LTE WWAN and Wi-Fi 6 WLAN
- Supports fast charging (50% in 30 minutes) with no impact on battery recharge cycles²
- UMA graphics: Up to 24 hours (Intel® 10th generation CPU and 3-cell 56 WHr battery)
- Discrete graphics: Up to 21 hours and 15 minutes (Intel® 10th generation CPU and 3-cell 56 WHr battery)
- Choice of solid state drives up to 1 TB and DDR4 memory up to 64 GB
- Battery life up to 24 hours (Intel® 10th generation CPU and 3-cell 56 WHr battery)
- Tested for 19 MIL-STD 810H tests⁴
- Intel® UHD Premium Graphics

1. Sold separately or as an optional feature

2. 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.

3. MIL-STD 810H is not intended to demonstrate fitness of U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.

4. HP Sure Sense requires Windows 10. See product specifications for availability.

5. HP Fingerprint Sensor is an optional feature and requires configuration at purchase.

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



Technical Specifications

PRODUCT NAME

HP EliteBook 850 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 64²
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.

Note: Your product does not support Windows 8 or Windows 7. 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>. A full list of HP products and the Windows 10 versions tested is available on the HP support website. <https://support.hp.com/us-en/document/c05195282>

PROCESSORS

Intel[®] Core[™] i7-10810U with Intel[®] UHD Graphics Premium (1.1 GHz base frequency, up to 4.0 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 4.8 GHz with Intel[®] Turbo Boost Technology, 6 MB L3 cache, 4 cores)^{3,4,5,6}

Intel[®] Core[™] i5-10210U with Intel[®] UHD Graphics 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 processors (i7-10810U, i7-10710U, i7-10610U, i7-10510U)

10th Generation Intel[®] Core[™] i5 processors (i5-10310U, i5-10210U)



Technical Specifications

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>.

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

Intel® UHD Premium Graphics⁷

Discrete

NVIDIA® GeForce® MX250 (2 GB DDR5 video memory)⁹

Supports

Support HD decode, DX12, HDMI 1.4b⁸

7. HD content required to view HD images.
8. HDMI cable sold separately.
9. Integrated graphics depends on processor. NVIDIA® Optimus™ technology requires an Intel processor, plus an NVIDIA® GeForce® discrete graphics configuration and is available on Windows 10 Pro OS. With NVIDIA® Optimus™ technology, full enablement of all discrete graphics video and display features may not be supported on all systems (e.g. OpenGL applications will run on the integrated GPU or the APU as the case may be).

DISPLAY

Non-Touch

- 39.6 cm (15.6") diagonal FHD IPS eDP anti-glare WLED-backlit bent, 250 nits, 45% NTSC (1920 x 1080)^{7,10,11}
- 39.6 cm (15.6") diagonal FHD IPS eDP anti-glare WLED-backlit bent for HD camera, 250 nits, 45% NTSC (1920 x 1080)^{7,10,11}
- 39.6 cm (15.6") diagonal FHD IPS eDP anti-glare WLED-backlit bent for HD+IR camera, 250 nits, 45% NTSC (1920 x 1080)^{7,10,11}
- 39.6 cm (15.6") diagonal FHD IPS eDP anti-glare WLED-backlit bent for WWAN, 250 nits, 45% NTSC (1920 x 1080)^{7,10,11}
- 39.6 cm (15.6") diagonal FHD IPS eDP anti-glare WLED-backlit bent for HD camera and WWAN, 250 nits, 45% NTSC (1920 x 1080)^{7,10,11}
- 39.6 cm (15.6") diagonal FHD IPS eDP anti-glare WLED-backlit bent for HD+IR camera and WWAN, 250 nits, 45% NTSC (1920 x 1080)^{7,10,11}
- 39.6 cm (15.6") diagonal FHD IPS eDP + PSR anti-glare WLED-backlit bent with Ambient Light Sensor for HD+IR camera, 400 nits, low power, 100% NTSC(1920 x 1080)^{7,10,11}
- 39.6 cm (15.6") diagonal FHD IPS eDP + PSR anti-glare WLED-backlit bent with Ambient Light Sensor for HD+IR camera and WWAN, 400 nits, low power, 100% NTSC(1920 x 1080)^{7,10,11}
- 39.6 cm (15.6") diagonal 4k IPS eDP + PSR anti-glare WLED-backlit bent with Ambient Light Sensor for HD+IR camera, 400 nits, low power, 100% NTSC (3840 x 2160)^{7,10,11}



Technical Specifications

39.6 cm (15.6") diagonal FHD IPS eDP + PSR anti-glare WLED-backlit bent with Ambient Light Sensor for HD+IR camera and WWAN, 400 nits, low power, 100% NTSC (3840 x 2160)^{7,10,11}

Touch

39.6 cm (15.6") diagonal FHD IPS eDP anti-glare WLED-backlit bent touch-on-panel screen for HD+IR camera, 250 nits, 45% NTSC (1920 x 1080)^{7,10,11}

39.6 cm (15.6") diagonal FHD IPS eDP anti-glare WLED-backlit bent touch-on-panel screen for HD+IR camera and WWAN, 250 nits, 45% NTSC (1920 x 1080)^{7,10,11}

Display Size

15.6"

39.6 cm

HDMI 1.4b

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

7. HD content required to view HD images.

10. Sold separately or as an optional feature.

11. Resolutions are dependent upon monitor capability, and resolution and color depth settings.

Dockingstation model	Total number of supported displays (incl. 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: <ul style="list-style-type: none"> • 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 SATA-3 SS TLC¹³
- 256 GB PCIe NVMe Value SS¹³
- 256 GB PCIe Gen3x4 NVMe SS TLC¹³
- 256 GB PCIe TLC Opal 2¹³
- 256 GB PCIe Gen3x2x2 SS QLC+16 GB Intel Optane™ Memory¹³
- 512 GB PCIe NVMe Value SS¹³
- 512 GB PCIe Gen3x4 NVMe SS TLC¹³
- 512 GB Intel® PCIe® NVMe™ QLC + 32 GB Intel® Optane™ Memory¹³
- 512 GB PCIe Gen3x4 NVMe SS TLC Opal 2¹³
- 1 TB PCIe Gen3x4 NVMe SS TLC¹³

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

MEMORY

Maximum Memory

64 GB DDR4-2666 SDRAM (2 X 32 GB)¹⁴

Memory

- 32 GB DDR4-2666 SDRAM (2 X 16 GB)¹⁴
- 16 GB DDR4-2666 SDRAM (1 X 16 GB)¹⁴
- 16 GB DDR4-2666 SDRAM (2 X 8 GB)¹⁴
- 8 GB DDR4-2666 SDRAM (1 x 8 GB)¹⁴
- 8 GB DDR4-2666 SDRAM (2 x 4 GB)¹⁴
- 4 GB DDR4-2666 SDRAM (1 x 4 GB)¹⁴

Memory Slots

2 SODIMM

Both slots are customer accessible / upgradeable

DDR4 SODIMMS, system runs at 2666

Supports Dual Channel Memory

14. 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®¹⁵

Intel® Dual Band Wireless-AX201 802.11a/b/g/n/ac (2x2) Wi-Fi 6 and Bluetooth® 5 Combo, non-vPro®¹⁵

WWAN*

Intel® XMM™ 7360 LTE-Advanced Cat 9

Intel® XMM™ 7560 LTE-Advanced Pro Cat 16¹⁶

NFC

NPC300 Near Field Communication module

Miracast

Native Miracast Support¹⁷

15. 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.

16. 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.

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

* WWAN is an optional feature, requires factory configuration and separately purchased service contract. Check with service provider for coverage and availability in your area. 4G LTE not available on all products, in all regions.



Technical Specifications

AUDIO/MULTIMEDIA

Audio

Audio by Bang & Olufsen
2 Integrated stereo speakers
Integrated 3 Multi Array Microphone

Camera

720p HD Camera^{7,10}
720p HD+IR Camera^{7,10}

Sensors

Ambient light sensor
Hall Sensor

7. HD content required to view HD images.

10. Sold separately or as an optional feature.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Premium Collaboration Keyboard with Numeric Keypad, spill resistant
Optional backlit keyboard and DuraKeys*

Pointing Device

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

Function Keys

F1 - Display Switching
F2 - Blank 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

* Keyboards are made from up to 65% post-consumer recycled plastic



Technical Specifications

SOFTWARE AND SECURITY

Preinstalled Software

BIOS

HP BIOSphere Gen5¹⁹
HP Drive Lock & Automatic Drive Lock
BIOS Update via Network
Power On Authentication
HP Secure Erase²⁰
Absolute Persistence Module²¹
Pre-boot Authentication

Software

HP Connection Optimizer
HP Hotkey Support
HP JumpStart
HP Support Assistant²²
HP Noise Cancellation Software
Buy Office (sold separately)

Manageability Features

HP Driver Packs²³
HP System Software Manager (SSM)
HP BIOS Config Utility (BCU)
HP Client Catalog
HP Manageability Integration Kit Gen4²⁴
HP Image Assistant
HP Client Management Script Library
Ivanti Management Suite
HP Cloud Recovery

Client Security Software

HP Client Security Manager Gen6²⁵
HP Fingerprint Sensor²⁶ (select models)
HP Power On Authentication
Windows Defender²⁷

Security Management

Pre-boot Authentication
TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified)²⁸
USB enable/disable (via BIOS)
Power-on password (via BIOS)
Setup password (via BIOS)
Support for chassis padlocks and cable lock devices
HP Sure Click²⁹
HP Sure Start Gen6³⁰
HP Sure Run Gen3³¹
HP Sure Recover Gen3³²
HP Sure Sense³³

Smartcard Reader

Model number: Alcor AU9560
FIPS 201 Compliant: Yes

TPM



Technical Specifications

Model: Infineon SLB9670
 Version: 7.85
 Revision: TPM 2.0
 FIPS 140-2 Compliant: Yes

19. 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.
20. 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™.
21. Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: <http://www.absolute.com/company/legal/agreements/computrace-agreement>. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
22. HP Support Assistant requires Windows and Internet access.
23. HP Driver Packs not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.
24. HP Manageability Integration Kit can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>.
25. HP Client Security Manager Gen6 requires Windows and is available on the select HP Pro and Elite PCs.
26. HP Fingerprint Sensor is an optional feature and requires configuration at purchase.
27. Windows Defender Opt in and internet connection required for updates.
28. 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).
29. 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.
30. HP Sure Start Gen6 is available on select HP PCs with Intel processors.
31. HP Sure Run Gen3 is available on select Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors.
32. 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.
33. HP Sure Sense requires Windows 10.

Smart Card Reader	Smart card standard	PC/SC 2.0 for Windows smart card standard
	Dimensions (L x W x H)	0.41 x 0.08 x 0.32 in (10.5 x 2 x 8.2 mm)
	Smart Card support	ISO 7816 Class A and AB smart cards
	Smart Card Interface	Smart Card Interface with T = 0 and T = 1 support Support I2C memory card, SLE4418, SLE4428, SLE4432, SLE4442, SLE4436, SLE5536, SLE6636, AT88SC1608, AT45D041 card and AT45DB041 card via external EEPROM



Technical Specifications

POWER

HP Smart 45 W External AC power adapter³⁴
HP Smart 45 W External AC power adapter, 2-prong (Japan only)³⁴
HP Smart 65 W External AC power adapter³⁴
HP Smart 65 W EM External AC power adapter³⁴
65 W USB Type-C® adapter³⁴
65 W slim USB Type-C® adapter³⁴

Primary Battery

HP Long Life 3-cell, 56 Wh Li-ion³⁵
Support HP Fast Charge (Up to 50% in 30 minutes with 65W AC Adapter)³⁶

Power Cord

2-wire plug - 1.0 m³⁴
3-wire plug - 1.0 m³⁴
3-wire plug - 1.0 m (Premium)³⁴

Battery life

UMA graphics: Up to 24 hours (Intel® 10th generation CPU and 3-cell 56 WHr battery)³⁷

MM18 Battery life

UMA graphics: Up to 15 hours and 30 minutes (Intel® 10th generation CPU and 3-cell 56 WHr battery)³⁷

Battery Weight

0.215 kg (0.47 lb)

34. Availability may vary by country.

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

36. 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.

37. 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 <https://www.bapco.com> for additional details.

WEIGHTS & DIMENSIONS

Product Weight

Starting weight: 3.74 lb (non-touch); Starting at 3.92 lb (touch)³⁸
Starting weight: 1.70 kg (non-touch); Starting at 1.78 kg (touch)³⁸

Product Dimensions (W x D x H)

Non-Touch, WLAN only

14.16 x 9.20 x 0.76 in
35.97 x 23.38 x 1.92 cm

Touch, WLAN only

14.16 x 9.20 x 0.79 in
35.97 x 23.38 x 2.0 cm

WWAN

14.16 x 9.20 x 0.79 in



Technical Specifications

35.97 x 23.38 x 2.0 cm

38. Weight will vary by configuration.

PORTS/SLOTS

- 2 USB 3.1 Type-C® with Thunderbolt™ support, DisplayPort™ 1.2
- 2 USB 3.1 Gen 1 (1 charging)
- 1 HDMI 1.4⁸
- 1 Headphone/microphone combo
- 1 AC power
- 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 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>.³⁹

39. HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit <http://www.hp.com/go/cpc>. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.



Technical Specifications

SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)	Nominal Operating Voltage	19 V
	Average Operating Power	2.42 W
	Integrated Graphics	6.78 W
	Max Operating Power	Discrete < 65 W UMA < 45 W
Temperature	Operating	32° to 95° F (0° to 35° C) (No 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® qualified	Select models ⁴⁰
	EPEAT® 2019	Yes, Gold in U.S. ⁴¹
	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	

40. Configurations of the HP EliteBook 850 G7 that are ENERGY STAR® certified are identified as HP EliteBook 850 G7 ENERGY STAR on HP websites and on <http://www.energystar.gov>.

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



Technical Specifications

DISPLAYS

Panel LCD 15.6 inch diagonal FHD (1920 x 1080) Anti-Glare WLED UWVA 45% NTSC 250 nits eDP 1.2 w/o PSR bent NWBZ	Outline Dimensions (W x H x D)	350.96 x 205.54 mm (max)
	Active Area	344.16 x 193.59 mm (typ.)
	Weight	370 g (max)
	Diagonal Size	15.6 inch
	Thickness	3.0 mm/ 5.0 mm (w/PCB) (max)
	Interface	eDP 1.2 (2 lane)
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	600:1 (typ.)
	Refresh Rate	60 Hz
	Brightness	250 nits
	Pixel Resolution	1920 x 1080 (FHD)
	Format of LCD Pixel Arrangement	RGB Stripe
	Backlight	LED
	Color Gamut Coverage	45% of NTSC
Color Depth	6 bits (Hi FRC supportive w/ condition to enable)	
Viewing Angle	UWVA 85/85/85/85	

Panel LCD 15.6 inch diagonal FHD (1920 x 1080) Anti-Glare WLED UWVA 45% NTSC 250 nits eDP 1.2 w/o PSR bent Touch on Panel NWBZ	Outline Dimensions (W x H x D)	350.96 x 205.74 mm (max)
	Active Area	344.16 x 193.59 mm (typ.)
	Weight	380 g (max)
	Diagonal Size	15.6 inch
	Thickness	3.2mm/ 5.2mm (PCB) (max)
	Interface	eDP 1.2
	Surface Treatment	Anti-Glare On-cell
	Touch Enabled	No
	Contrast Ratio	600:1 (typ.)
	Refresh Rate	60 Hz
	Brightness	250 nits
	Pixel Resolution	1920 x 1080 (FHD)
	Format of LCD Pixel Arrangement	RGB Stripe
	Backlight	LED
	Color Gamut Coverage	45% of NTSC
Color Depth	6 bits	
Viewing Angle	UWVA 85/85/85/85	



Technical Specifications

Panel LCD 15.6 inch diagonal FHD (1920 x 1080) Anti-Glare WLED UWVA 100% NTSC 400 nits eDP 1.4+PSR2 bent LP NWBZ	Outline Dimensions (W x H x D)	349.46 x 204.79 mm (max)
	Active Area	344.16 x 193.59 mm (typ.)
	Weight	325 g (max)
	Diagonal Size	15.6 inch
	Thickness	2.6mm / 4.6mm (PCB) (max)
	Interface	eDP 1.4
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	1200:1 (typ.)
	Refresh Rate	60 Hz
	Brightness	400 nits
	Pixel Resolution	1920 x 1080 (FHD)
	Format of LCD Pixel Arrangement	RGB Stripe
	Backlight	LED
	Color Gamut Coverage	100% of NTSC
Color Depth	8 bit	
Viewing Angle	UWVA 85/85/85/85	

Panel LCD 15.6 inch diagonal UHD (3840 x 2160) Anti-Glare WLED UWVA 100% NTSC 400 nits eDP 1.4+PSR2 bent LP NB2Y	Outline Dimensions (W x H x D)	349.52 x 205.42 mm (max)
	Active Area	344.22 x 193.62 mm (typ.)
	Weight	320 g (max)
	Diagonal Size	15.6 inch
	Thickness	2.6mm / 4.6mm (PCB) (max)
	Interface	eDP 1.4
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	1200:1 (typ.)
	Refresh Rate	60 Hz
	Brightness	400 nits
	Pixel Resolution	3840 x 2160 (UHD)
	Format of LCD Pixel Arrangement	RGB Stripe
	Backlight	LED
	Color Gamut Coverage	100% of NTSC only for UHD LP
Color Depth	8 bit	
Viewing Angle	UWVA 85/85/85/85	



Technical Specifications

STORAGE AND DRIVES

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	550 ~ 560 MB/s
	Maximum Sequential Write	380 ~ 530 MB/s
	Logical Blocks	250,069,680
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security; DIPM; TRIM; DEVSLP

SSD 1 TB 2280 PCIe-3x4 NVMe Three Layer Cell single-sided	Form Factor	M.2 2280
	Capacity	1 TB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	3100 ~ 3500 MB/s
	Maximum Sequential Write	2770 ~ 3037 MB/s
	Logical Blocks	2,000,409,264
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security; TRIM; L1.2

SSD 256 GB 2280 M2 PCIe-3x4 SS NVMe TLC	Form Factor	M.2 2280
	Capacity	256 GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	2800 ~ 3500 MB/s
	Maximum Sequential Write	1400 ~ 2200 MB/s
	Logical Blocks	500,118,192
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security; TRIM; L1.2



Technical Specifications

SSD 256 GB 2280 PCIe NVMe Value	Form Factor	M.2 2280
	Capacity	256 GB
	NAND Type	Value
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3
	Maximum Sequential Read	2100 ~ 2200 MB/s
	Maximum Sequential Write	900 ~ 1400 MB/s
	Logical Blocks	500,118,192
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security (optional); TRIM; L1.2

SSD 256 GB 2280 PCIe-3x2x2 NVMe+SSD 16 GB Intel® Optane™	Form Factor	M.2 2280
	Capacity	256 GB
	NAND Type	QLC+3D XPoint
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3X2X2
	Maximum Sequential Read	Up to 1450 MB/s
	Maximum Sequential Write	Up to 500 MB/s
	Logical Blocks	500,118,192
	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 Three Layer Cell	Form Factor	M.2 2280
	Capacity	256 GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	2800 ~ 3500 MB/s
	Maximum Sequential Write	1663 ~ 2200 MB/s
	Logical Blocks	500,118,192
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security (Option); TCG Opal 2.0; TRIM; L1.2



Technical Specifications

SSD 512 GB 2280 M2 PCIe-3x4 SS NVMe TLC	Form Factor	M.2 2280
	Capacity	512 GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	3100 ~ 3500 MB/s
	Maximum Sequential Write	2400 ~ 2956 MB/s
	Logical Blocks	1,000,215,215
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security; TRIM; L1.2

SSD 512 GB 2280 PCIe NVMe Value	Form Factor	M.2 2280
	Capacity	512 GB
	NAND Type	Value
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3
	Maximum Sequential Read	2200 ~ 2300 MB/s
	Maximum Sequential Write	1000 ~ 1600 MB/s
	Logical Blocks	1,000,215,215
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security (optional); TRIM; L1.2

SSD 512 GB 2280 PCIe-3x2x2 NVMe+SSD 32 GB Intel® Optane™	Form Factor	M.2 2280
	Capacity	512 GB
	NAND Type	QLC+3D XPoint
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3X2X2
	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	ATA Security; TRIM; L1.2



Technical Specifications

SSD 512 GB 2280 PCIe-3x4 NVMe Self Encrypted OPAL2 Three Layer	Form Factor	M.2 2280
	Capacity	512 GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	3100 ~ 3500 MB/s
	Maximum Sequential Write	2400 ~ 2956 MB/s
	Logical Blocks	1,000,215,215
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security (Option); TCG Opal 2.0; TRIM; L1.2



Technical Specifications

NETWORKING/COMMUNICATIONS

<p>Intel® Wi-Fi 6¹ AX201 and Bluetooth® 5.0 802.11ax (2x2) supporting gigabit file transfer speeds, vPro®</p>	<p>Wireless LAN Standards</p> <ul style="list-style-type: none"> 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
<p>Interoperability</p>	<p>Wi-Fi CERTIFIED™</p>
<p>Frequency Band</p>	<ul style="list-style-type: none"> •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
<p>Data Rates</p>	<ul style="list-style-type: none"> •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)
<p>Modulation</p>	<p>Direct Sequence Spread Spectrum OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM</p>
<p>Security³</p>	<ul style="list-style-type: none"> •IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only •AES-CCMP: 128 bit in hardware •802.1x authentication •WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. •WPA2 certification •IEEE 802.11i •WAPI
<p>Network Architecture Models</p>	<p>Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)</p>
<p>Roaming</p>	<p>IEEE 802.11 compliant roaming between access points</p>
<p>Output Power²</p>	<ul style="list-style-type: none"> • 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



Technical Specifications

	<ul style="list-style-type: none"> • 802.11ac VHT160(5GHz): +11.5dBm minimum • 802.11ax HT40(2.4GHz): +10dBm minimum • 802.11ax VHT160(5GHz): +10dBm minimum 				
Power Consumption	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Type 2230: 2.8 g 2. Type 1216: 1.3 g 				
Operating Voltage	3.3v +/- 9%				
Temperature	<table> <tr> <td>Operating</td> <td>14° to 158° F (-10° to 70° C)</td> </tr> <tr> <td>Non-operating</td> <td>-40° to 176° F (-40° to 80° C)</td> </tr> </table>	Operating	14° to 158° F (-10° to 70° C)	Non-operating	-40° to 176° F (-40° to 80° C)
Operating	14° to 158° F (-10° to 70° C)				
Non-operating	-40° to 176° F (-40° to 80° C)				
Humidity	<table> <tr> <td>Operating</td> <td>10% to 90% (non-condensing)</td> </tr> <tr> <td>Non-operating</td> <td>5% to 95% (non-condensing)</td> </tr> </table>	Operating	10% to 90% (non-condensing)	Non-operating	5% to 95% (non-condensing)
Operating	10% to 90% (non-condensing)				
Non-operating	5% to 95% (non-condensing)				
Altitude	<table> <tr> <td>Operating</td> <td>0 to 10,000 ft (3,048 m)</td> </tr> <tr> <td>Non-operating</td> <td>0 to 50,000 ft (15,240 m)</td> </tr> </table>	Operating	0 to 10,000 ft (3,048 m)	Non-operating	0 to 50,000 ft (15,240 m)
Operating	0 to 10,000 ft (3,048 m)				
Non-operating	0 to 50,000 ft (15,240 m)				
LED Activity	LED Amber – Radio OFF LED White – Radio ON				

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.

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



Technical Specifications

Transmit Power	Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5) 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	Microsoft Windows Bluetooth Software
Link Topology	
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	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. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
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

<p>Intel® Wi-Fi 6¹ AX201 and Bluetooth® 5.0 802.11ax (2x2), supporting gigabit file transfer speeds non-vPro®</p>	<p>Wireless LAN Standards</p> <ul style="list-style-type: none"> 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
<p>Interoperability</p>	<p>Wi-Fi CERTIFIED™</p>
<p>Frequency Band</p>	<ul style="list-style-type: none"> •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
<p>Data Rates</p>	<ul style="list-style-type: none"> •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)
<p>Modulation</p>	<p>Direct Sequence Spread Spectrum OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM</p>
<p>Security³</p>	<ul style="list-style-type: none"> •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
<p>Network Architecture Models</p>	<p>Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)</p>
<p>Roaming</p>	<p>IEEE 802.11 compliant roaming between access points</p>
<p>Output Power²</p>	<ul style="list-style-type: none"> • 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 • 802.11ac VHT160(5GHz): +11.5dBm minimum



Technical Specifications

	<ul style="list-style-type: none"> • 802.11ax HT40(2.4GHz): +10dBm minimum • 802.11ax VHT160(5GHz): +10dBm minimum 				
Power Consumption	<ul style="list-style-type: none"> • 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 Sensitivity⁴	<ul style="list-style-type: none"> • 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	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Type 2230: 2.8 g 2. Type 126: 1.3 g 				
Operating Voltage	3.3v +/- 9%				
Temperature	<table border="0"> <tr> <td>Operating</td> <td>14° to 158° F (-10° to 70° C)</td> </tr> <tr> <td>Non-operating</td> <td>-40° to 176° F (-40° to 80° C)</td> </tr> </table>	Operating	14° to 158° F (-10° to 70° C)	Non-operating	-40° to 176° F (-40° to 80° C)
Operating	14° to 158° F (-10° to 70° C)				
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Humidity	<table border="0"> <tr> <td>Operating</td> <td>10% to 90% (non-condensing)</td> </tr> <tr> <td>Non-operating</td> <td>5% to 95% (non-condensing)</td> </tr> </table>	Operating	10% to 90% (non-condensing)	Non-operating	5% to 95% (non-condensing)
Operating	10% to 90% (non-condensing)				
Non-operating	5% to 95% (non-condensing)				
Altitude	<table border="0"> <tr> <td>Operating</td> <td>0 to 10,000 ft (3,048 m)</td> </tr> <tr> <td>Non-operating</td> <td>0 to 50,000 ft (15,240 m)</td> </tr> </table>	Operating	0 to 10,000 ft (3,048 m)	Non-operating	0 to 50,000 ft (15,240 m)
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.				

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



Technical Specifications

	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 Software 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)

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. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.

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+: 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

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 MHz



Technical Specifications

Maximum data rates	LTE: 450 Mbps (Download), 50 Mbps (Upload) DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21Mbps (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

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 Reader (PCD-VCD) Mode (1)	Tag Type 1, Type 2, Type3 and Type 4, NFCIP-1 and NFCIP-2 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 5-95% non-operating
	Supply Operating voltage	4.35 to 5.25 Volts



Technical Specifications

Power Consumption (Booster enable, VBAT= 3.3V, VCC_BOOST = 5V)	I/O Voltage	1.8V or 3.3V
	Mode	Power Consumption, Typical
	Polling	7.3 mA
	Detected Test Tag Type 1	Total 283.8 mA Net Module 236.8 mA
	Detected Test Tag Type 2	Total 288.8 mA Net Module 241.8 mA
	Detected Test Tag Type 3	Total 287.7 mA Net Module 240.7 mA
	Detected Test Tag Type 4	Total 282.3 mA Net Module 235.3 mA
	Antenna	Antenna connector, 0.5mm pitch, 7 connector FPC. Antenna matching is external to module.

Technical Specifications

POWER

AC Adapter 45 Watt Smart nPFC Standard Barrel 4.5 mm Right Angle 1.8 m	Dimensions (H x W x D)	95 x 45 x 26.8 mm	
	Weight	unit: 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 ~ 63Hz
		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	
	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)
		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 1.8 m 2prong	Dimensions (H x W x D)	95 x 45 x 26.8 mm	
	Weight	unit: 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
		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 <8.0A	
	Connector	4.5 mm Barrel Type	
	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)



Technical Specifications

	Humidity	20% to 95%
	Storage Humidity	10% to 95%
EMI and Safety Certifications	<p>*CE Mark - full compliance with LVD and EMC directives</p> <p>* 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.</p> <p>* MTBF - over 200,000 hours at 25°C ambient condition.</p>	

AC Adapter 65 Watt nPFC Slim USB type C® Straight 1.8 m	Dimensions (H x W x D)	88 x 53.5 x 21 mm
	Weight	unit: 220 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 ~ 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	
	5ms at 115 Vac input	
	Output current limit	
	<8.0A	
Connector	USB Type C®	
Environmental Design	Operating temperature	32° to 95°F (0° to 35°C)
	Non-operating (storage) temperature	-4° to 185°F (-20° to 85°C)
	Altitude	0 to 16,400 ft (0 to 5000m)
	Humidity	5% to 95%
	Storage Humidity	5% to 95%
EMI and Safety Certifications	<p>*CE Mark - full compliance with LVD and EMC directives</p> <p>* 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.</p> <p>* MTBF - over 100,000 hours at 25°C ambient condition.</p>	

AC Adapter 65 Watt nPFC Standard USB type C® Straight 1.8 m	Dimensions (H x W x D)	90.0 x 51 x 28.5 mm
	Weight	unit: 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



Technical Specifications

Output	Input frequency range	47 ~ 63 Hz
	Input AC current	1.6 A at 90 VAC and maximum load
	Output power	65 W
	DC output	5V/9V/12V/15V/20V
	Hold-up time	5ms at 115 Vac input
Connector	Output current limit	<8.0 A Max.
	USB type C®	
Environmental Design	Operating temperature	32°F to 95°F (0° to 35°C)
	Non-operating (storage) temperature	-4°F to 185°F (-20° to 85°C)
	Altitude	0 to 16,400 ft (0 to 5000m)

AC Adapter 65 Watt Smart nPFC EM Barrel 4.5 mm New EM	Dimensions (H x W x D)	102 x 55 x 30 mm
	Weight	unit: 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 power	65 W
	DC output	19.5 V
Output	Hold-up time	5ms at 115 Vac input
	Output current limit	<11.0A
	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)
	Altitude	0 to 16,400 ft (0 to 5000m)
	Humidity	20% to 95%
EMI and Safety Certifications	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.



Technical Specifications

AC Adapter 65 Watt Smart nPFC Standard Barrel 4.5 mm Right Angle 1.8 m	Dimensions (H x W x D)	90.0 x 51 x 28.5 mm	
	Weight	unit: 230 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
	Output	Input AC current	Max. 1.7 A at 90 Vac
		Output power	65 W
		DC output	19.5 V
		Hold-up time	5ms at 115 Vac input
		Output current limit	<11.0 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)
		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.		

Battery CC 3 Cell WHr 56 Long Life -PL Fast Charge	Dimensions (H x W x D)	7.0 x 66.5 x 276.3 (0.275 x 2.618 x 10.877 inch)		
	Weight	0.215g (0.47 lb)		
	Cells/Type	3cell Lithium-Ion Polymer cell / 615383		
	Energy	Voltage	11.55 V	
		Amp-hour capacity	4.85 Ah	
		Watt-hour capacity	56 Wh	
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)	
		Operating (Discharging)	32° to 122° F (0° to 50° C)	
		Warranty	Depends on system offering	
	Optional Travel Battery Available	No		



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 Essential Top Load Case (up to 15.6")	H2W17AA
Docking	HP Thunderbolt Dock 120W G2	2UK37AA
	HP Thunderbolt Dock 230W G2	2UK38AA
	HP Thunderbolt Dock 120W G2 TAA	2UK37AA
	HP TB Dock Audio Module	3AQ21AA
	HP TB Dock 120W G2 cable	3XB94AA
	HP TB Dock G2 combo cable	3XB96AA
	HP USB-C Mini Dock	1PM64AA
	HP USB-C Dock G5	5TW10AA
	HP USB-C/A Universal Dock G2	5TW13AA
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 USB Travel Mouse	G1K28AA
	HP Ultra Mobile Wireless Mouse	H6F25AA
	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 Mono Headset	W3K08AA
	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
	HP USB-C Travel Hub G2	7PJ38AA
HP Elite USB-C Hub	4WX89AA	



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

Power	HP 65W Slim AC Adapter	H6Y82AA
	HP 45W Smart AC Adapter	H6Y88A
	HP 65W Smart AC Adapter	H6Y89AA
	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
	HP 1TB TLC PCI-e 3x4 NVMe M.2 SSD (2280)	6SK99AA
	HP 2TB TLC PCI-e 3x4 NVMe M.2 SSD (2280)	6SL00AA
Memory	HP 4 GB 2666 Mhz DDR4	4VN05AA
	HP 8 GB 2666 Mhz DDR4	4VN06AA
	HP 16 GB 2666 Mhz DDR4	4VN07AA
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



Change Log

Date of change:	Version History:		Description of change:
	From V1 to V2	Update	Overview, Processor section

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