tehnot≡ka

Informacije o proizvodu (EN)

HP laptop EliteBook 840 Aero G8 (5Z6G8EA/8)





Tehnoteka je online destinacija za upoređivanje cena i karakteristika bele tehnike, potrošačke elektronike i IT uređaja kod trgovinskih lanaca i internet prodavnica u Srbiji. Naša stranica vam omogućava da istražite najnovije informacije, detaljne karakteristike i konkurentne cene proizvoda.

Posetite nas i uživajte u ekskluzivnom iskustvu pametne kupovine klikom na link:

https://tehnoteka.rs/p/hp-laptop-elitebook-840-aero-g8-5z6g8ea8-akcija-cena/

Overview

HP EliteBook 840 Aero G8 Notebook PC



Left

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

- 7. Glass Clickpad
- 8. Smartcard Reader (Optional)
- 9. Audio Combo Jack
- 10. SuperSpeed USB Type-A 5Gbps signaling rate (USB 3.2 Gen 1)
- **11.** SuperSpeed USB Type-A 5Gbps signaling rate (1 Charging) (USB 3.2 Gen 1)
- **12**. Nano Security Lock Slot (Lock sold separately)

Overview



Right

- **1.** Power Button Key
- 2. Power Connector
- 3. HDMI 2.0b Port (Cable not included)
- **4.** Thunderbolt[™] 4 with USB4[™] Type-C[®] 40Gbps signaling rate (USB Power Delivery, DisplayPort[™] 1.4) ¹
- **5.** Thunderbolt[™] 4 with USB4[™] Type-C[®] 40Gbps signaling rate (USB Power Delivery, DisplayPort[™] 1.4) ¹
- 6. SIM Card Slot (Optional)
- 7. Touch Fingerprint Sensor (Select models)

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

Overview

AT A GLANCE

- Windows 11 Pro, other Windows OS or FreeDOS preinstalled
- Starting at less than 2.50 lbs (1.13 kg)¹ you can take the HP EliteBook 840 Aero anywhere without feeling weighed down
- Premium ultraslim design with precision-crafted and recycled magnesium chassis for a premium look and feel
- 11th Generation Intel[®] Core[™] i5, i7 Processors up to four-core
- Designed to support all HP docking options including the HP Universal Dock G5 (Sold separately)
- Featuring the redesigned 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:
 - 35.6 cm (14") diagonal FHD IPS Anti-Glare LED-backlit, 250 nits, 45% NTSC
 35.6 cm (14") diagonal FHD IPS Anti-Glare LED-backlit non-touch 400 nits, 72% NTSC
 35.6cm (14") diagonal FHD IPS Anti-Glare LED-backlit non-touch, 1000 nits, 100% sRGB with HP Sure View Reflect
 35.6cm (14") diagonal FHD IPS Anti-Glare On-Cell LED-backlit touch, 250 nits, 45% NTSC
- Enterprise grade security with HP Sure Sense, HP Sure Start Gen 6, HP Privacy Camera, HP Sure View Reflect, HP Sure Run Gen4, HP Sure Recover Gen4 with Embedded Reimaging, HP Sure Click, SmartCard Reader and Touch Fingerprint reader
- Connectivity with optional Intel® XMM™ 7360 LTE-Advanced Cat 9, Qualcomm® Snapdragon™ X55 5G ModemCat 20 and Thunderbolt™ Docking (Dock sold separately)
- Supports fast charging (50% in 30 minutes) with no impact on battery recharge cycles
- Choice of solid state drives up to 2 TB and DDR4 memory up to 64 GB
- Undergoes MIL-STD 810H tests²
- Intel[®] Iris[®] X[®] Graphics
- 1. WWAN, SureView Reflect, 250n panel, 2xDIMMs, Smart Card Slot and EMMC not available on configurations starting at less than 2.5 lbs on HP EliteBook 840 Aero G8.
- 2. 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.

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



Technical Specifications

PRODUCT NAME

HP FliteBook 840 Aero G8 Notebook PC

OPERATING SYSTEM

Preinstalled Windows 11 Pro ²

Windows 11 Pro Education ²

Windows 11 Home - HP recommends Windows 11 Pro for business ²

Windows 11 Home Single Language – HP recommends Windows 11 Pro for business 2

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

Agreement) 1

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

FreeDOS

- 1. Device comes with Windows 10 and a free Windows 11 upgrade or may be preloaded with Windows 11. Upgrade timing may vary by device. Features and app availability may vary by region. Certain features require specific hardware (see Windows 11 Specifications).
- 2. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.

PROCESSORS

Intel® Core™ i7-1165G7 processor (2.8 GHz base frequency, up to 4.7 GHz frequency with Intel® Turbo Boost Technology, 12 MB L3 cache, 4 cores) ^{3,4,5,6}

Intel® Core™ i7-1185G7 (3.0 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 4 cores), supports Intel® vPro® Technology ^{3,4,5,6}

Intel® Core™ i5-1135G7 processor (2.4 GHz base frequency, up to 4.2 GHz frequency with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores) ^{3,4,5,6}

Intel® Core™ i5-1145G7 (2.6 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores), supports Intel® vPro® Technology ^{3,4,5,6}

Processor Family

11th Generation Intel® Core™ i7 processor (i7-1165G7)6

11th Generation Intel® Core™ i7 processor (i7-1185G7)6

11th Generation Intel® Core™ i5 processor (i5-1135G7)6

11th Generation Intel® Core™ i5 processor (i5-1145G7)6

- 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.



Technical Specifications

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® Iris® Xe Graphics7

Supports

Support HD decode, DX12, HDMI 2.0b, HDCP 2.38

7. Intel® Iris® Xe Graphics capabilities require system to be configured with Intel® Core™ i5 or i7 processors and dual channel memory. Intel® Iris® Xe Graphics with Intel® Core™ i5 or 7 processors and single channel memory will only function as UHD graphics.

8. HDMI cable sold separately.

DISPLAY

Non-Touch

35.56 cm (14") diagonal FHD bent, anti-glare UMA eDP, 250 nits, 45% NTSC for HD + IR Camera for WWAN 4G (1920 \times 1080) 9,10

35.56 cm (14") diagonal FHD bent, anti-glare UMA eDP, 250 nits, 45% NTSC for HD + IR Camera for WWAN 5G (1920 \times 1080) 9,10

35.56 cm (14") diagonal FHD bent, anti-glare UMA eDP+PSR, 400 nits, 100% sRGB, Low Power Ambient Light Sensor for HD + IR Camera (1920 x 1080) 9,10

35.56 cm (14") diagonal FHD bent, anti-glare UMA eDP+PSR, 400 nits, 100% sRGB, Low Power Ambient Light Sensor for HD + IR Camera for WWAN 4G (1920 x 1080) 9,10

35.56 cm (14") diagonal FHD bent, anti-glare UMA eDP+PSR, 400 nits, 100% sRGB, Low Power Ambient Light Sensor for HD + IR Camera for WWAN 5G (1920 x 1080) 9,10

35.56 cm (14") diagonal FHD bent, anti-glare UMA eDP+PSR, 1000 nits, 100% sRGB with HP Sure View Reflect integrated privacy screen, Ambient Light Sensor for HD + IR Camera (1920 x 1080) 9,10,11,12

35.56 cm (14") diagonal FHD bent, anti-glare UMA eDP+PSR, 1000 nits, 72% NTSC with HP Sure View Reflect integrated privacy screen, Ambient Light Sensor for HD + IR Camera for WWAN 4G (1920 x 1080) 9,10,11,12

35.56 cm (14") diagonal FHD bent, anti-glare UMA eDP+PSR, 1000 nits, 72% NTSC with HP Sure View Reflect integrated privacy screen, Ambient Light Sensor for HD + IR Camera for WWAN 5G (1920 x 1080) 9,10,11,12

Touch

35.56 cm (14") diagonal FHD bent, anti-glare UMA eDP, 250 nits, 45% NTSC for HD + IR Camera for WWAN 4G Touch on Panel $(1920 \times 1080)^{9,10,11,12}$

HDMI 2.0¹³



Technical Specifications

Support resolution up to 4K @60 Hz

- 9. FHD/HD content required to view FHD/HD images.
- 10. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 11. HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.
- 12. Actual brightness will be lower with touchscreen or Sure View.
- 13. HDMI cable sold separately.

Docking station model (Sold separately)	Total number of supported displays (incl. the notebook) display)	Max resolutions supported for DP 1.4 hosts with DSC	Dock Connectors	Technical limitations / additional information For more details refer to HP Dock QuickSpecs http://h20195.www2.hp.com/v2/GetDocume nt.aspx?docname=c04168358 All information below applies to platforms running DP 1.4 with DSC
HP Thunderbolt Dock G2	Max number of displays = 4	Dual 8K@ 60Hz in high res mode	2xDP, 1xVGA, 1xTB, 1xUSB-C alt-mode	Max displays = 4 with max resolution of 5K@ 30Hz running Thunderbolt host Max resolution possible is dual 8K displays @ 60Hz running Thunderbolt host or running a non-Thunderbolt host in High Resolution mode The highest resolution for dual displays running a non-Thunderbolt host in Multifunction mode is one 5K dual cable (using both DP ports) + one 4K on USB-C DP port
HP USB-C Dock G5	3	Dual 5K@ 30Hz + 1 4K UHD (multi- function mode)	1xHDMI, 2xDP	Three maximum displays supported are two 5K@ 30 Hz on DP ports plus one 4K UHD@ 30 Hz on HDMI in Multi-function mode Highest resolution with dual displays is two 8K@ 60Hz host in High Resolution mode The highest resolution for running a non-Thunderbolt host in Multi-function mode is a single 5K dual cable (using both DP ports) + one 4K on HDMI port



Technical Specifications

HP USB-C/A Universal Dock G2	3	Triple 4K UHD@ 60Hz	1xHDMI, 2xDP	In High Resolution, mode the max available is one display. This dock's best use case is triple display. The best resolution for dual display is two 4K UHD@ 60Hz Highest triple displays resolution available is three 4KUHD @60Hz using both DP and 1 HDMI port. Best single display is with High Resolution mode using HDMI port.
HP USB-C Travel Dock G2	1	Single 4K@ 30 Hz 4960 x 2160 (via HDMI)	1xHDMI, 1xVGA	Single external display using either HDMI or VGA

STORAGE AND DRIVES

Primary M.2 Storage

2 TB PCIe® Gen3x4 NVMe™ M.2 SSD TLC14

1 TB PCle® Gen3x4 NVMe™ M.2 SSD TLC¹⁴

512 GB PCle® Gen3x4 NVMe™ M.2 SSD TLC 14

256 GB PCIe® Gen3x4 NVMe™ M.2 SSD TLC14

512 GB PCIe® NVMe™ Value M.2 SSD14

256 GB PCIe® NVMe™ Value M.2 SSD¹⁴

512 GB PCle®Gen 3x4 NVMe™ M.2 SED TLC OPAL214

256 GB PCIe® Gen3x4 NVMe™ M.2 SED TLC OPAL214

512 GB Intel® PCIe® NVMe™ QLC M.2 SSD with 32 GB Intel® Optane™ memory H10^{14,15}

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

15. Intel® Optane™ H10 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.



Technical Specifications

MEMORY

Maximum Memory

64 GB DDR4-3200 SDRAM16

Memory

64 GB DDR4-3200 SDRAM (2 x 32 GB)¹⁶
32 GB DDR4-3200 SDRAM (2 x 16 GB)¹⁶
16 GB DDR4-3200 SDRAM (2 x 8 GB)¹⁶
16 GB DDR4-3200 SDRAM (1 x 16 GB)¹⁶
8 GB DDR4-3200 SDRAM (1 x 8 GB)¹⁶

Memory Slots

2 SODIMM DDR4 SODIMMS, system runs at 3200 Supports Dual Channel Memory

16. 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 Wi-Fi® 6 AX201 802.11a/b/g/n/ac/ax (2x2) WLAN and Bluetooth® 5.2, vPro® Wireless Card ^{17, 18} Intel® Dual Band Wi-Fi® 6 AX201 802.11a/b/g/n/ac/ax (2x2) WLAN and Bluetooth® 5.2, non-vPro® Wireless Card ¹⁷

WWAN

Intel® XMM™ 7360 LTE-Advanced Cat 9 ¹⁹
Qualcomm® Snapdragon™ X55 5G Cat 20 ²⁰

Miracast

Native Miracast Support²¹

Near Field Communications (NFC) Module ²² HP Module with NXP NFC Controller NPC300 12C NCI

- 17. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs.
- 18. For full Intel® vPro™ functionality, Windows, a vPro supported processor, vPro enabled chipset, vPro enabled WLAN card and discrete TPM 2.0 are required. See https://www.intel.com/content/www/us/en/architecture-and-technology/vpro/vpro-platform-general.html
- 19. 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. LTE not available on all products, in all regions.
- 20. 5G module is an optional feature that must be configured at purchase. AT&T and T-Mobile networks supported in the U.S. Module designed for 5G networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP, requires activation and separately purchased service contract. 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. 5G not available on all products, in all regions. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select countries, where carrier supported. US Configurations: Verizon mobile broadband service is not supported with this module.
- 21. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
- 22. Sold separately or as an optional feature.



Technical Specifications

AUDIO/MULTIMEDIA

Audio

Audio by Bang & Olufsen
2 Integrated stereo speakers
Integrated microphone (3-Mic Array)
World- Facing microphone

Speaker Power

2W/4ohm Per speaker

Camera

720p HD+IR camera9,22

Sensors

Ambient light sensor Hall Sensor HP Tamper Lock²³

- 9. FHD/HD content required to view FHD/HD images.
- 22. Sold separately or as an optional feature.
- 23. HP Tamper Lock must be enabled by the customer or your administrator.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard 24

HP Premium Keyboard - spill-resistant, backlit keyboard

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
- F3 Brightness Down
- F4 Brightness Up
- F5 Audio Mute
- F6 Volume Down
- F7 Volume Up
- F8 Mic Mute
- F9 Blank or Backlit Toggle
- F10 Insert
- F11 Airplane Mode
- F12 HP Command Center (Programmable Key)

Print Screen

Power Button (with LED)



Technical Specifications

Hidden Function Keys

Fn+R - Break

Fn+S - Svs Ra

Fn+C - Scroll Lock

24. Keyboards are made from up to 50% post-consumer recycled plastic.

SOFTWARE AND SECURITY

Preinstalled Software

BIOS

HP BIOSphere Gen6²⁵

HP Drive Lock & Automatic Drive Lock

BIOS Update via Network

HP Secure Erase²⁶

Absolute Persistence Module²⁷

HP LAN-Wireless Protection

USB enable/disable (via BIOS)

Software

HP Easy Clean 55

HP Connection Optimizer²⁸

HP Hotkey Support

myHP

HP Support Assistant²⁹

HP QuickDrop 30

HP Noise Cancellation Software

Touchpoint Customizer for Commercial

HP Notifications

HP Privacy Settings

HP Wireless Button Driver

HP Power Manager

HP PC Hardware Diagnostics Windows

Microsoft Defender 32

Buy Microsoft Office (Sold separately)

HP Smart Support⁵⁶

Manageability Features

HP Driver Packs (download)33

HP Manageability Integration Kit Gen4 (download)34

HP System Software Manager (SSM) (download)

HP Client Catalog (download)

HP Client Management Script Library (download)

HP Image Assistant (download)

Security Management

HP Client Security Manager Gen7³⁵



Technical Specifications

Pre-boot Authentication HP Wolf Pro Security Edition³⁶

HP Sure Click³⁷

HP Sure Start Gen 638

HP Sure Sense³⁹

HP Sure Admin⁴⁰

HP Sure Recover Gen441

HP Sure Run Gen442

Touch Fingerprint Sensor (Select models) 43

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

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

UEFI version: 2.7 Class: Class 3

25. HP BIOSphere Gen6 is available on select HP Pro and Elite PCs. Features may vary depending on the platform and configurations.

26. 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™.

27. Absolute firmware module is shipped turned off and can only be activated with the purchase a license subscription and full activation of the software agent. License subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. Certain conditions apply. For full details visit:

https://www.absolute.com/about/legal/agreements/absolute/

28. HP Connection Optimizer requires Windows 10.

29. HP Support Assistant requires Windows and Internet access.

30. HP Quick Drop requires Internet access and Windows 10 PC preinstalled with HP QuickDrop app and either an Android device (phone or tablet) running Android 7 or higher with the Android HP QuickDrop app, and /or an iOS device (phone or tablet) running iOS 12 or higher with the iOS HP QuickDrop app.

- 32. Windows Defender Opt in and internet connection required for updates.
- 33. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
- 34. HP Manageability Integration Kit can be downloaded from

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

- 35. HP Client Security Manager Gen7 requires Windows and is available on the select HP Elite and Pro PCs.
- 36. HP Wolf Pro Security Edition (including HP Sure Click Pro and HP Sure Sense Pro) is available preloaded on select SKUs and, depending on the HP product purchased, includes a paid 1-year or 3-year license. The HP Wolf Pro Security Edition software is licensed under the license terms of the HP Wolf Security Software End-User license Agreement (EULA) that can be found at: https://support.hp.com/us-en/document/ish_3875769-3873014-16 as that EULA is modified by the following:
- "7. Term. Unless otherwise terminated earlier pursuant to the terms contained in this EULA, the license for the HP Wolf Pro Security Edition (HP Sure Sense Pro and HP Sure Click Pro) is effective upon activation and will continue for either a twelve (12) month or thirty-six (36) month license term ("Initial Term"). At the end of the Initial Term you may either (a) purchase a renewal license for the HP Wolf Pro Security Edition from HP.com, HP Sales or an HP Channel Partner, or (b) continue using the standard versions of HP Sure Click and HP Sure Sense at no additional cost with no future software updates or HP Support.

37.HP Sure Click requires Windows 10 Pro or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details

38. HP Sure Start Gen6 is available on select HP PCs and requires Windows 10.

39. HP Sure Sense is available on select HP PCs and is not available with Windows10 Home.

40. HP Sure Admin requires Windows 10, HP BIOS, HP Manageability Integration Kit from

http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.



Technical Specifications

- 41. HP Sure Recover Gen4 is available on select HP PCs and requires an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.
- 42.HP Sure Run Gen4 is available on select Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors.
- 43. HP Fingerprint sensor is an optional feature that must be configured at purchase.
- 55. HP Easy Clean requires Windows 10 RS3 and will disable the keyboard, touchscreen, and clickpad only. Ports are not disabled. See user guide for cleaning instructions. Expected availability March 2020.
- 56. HP Smart Support is available to commercial customers through your HP Service Representative and HP Factory Configuration Services; or it can be downloaded at: http://www.hp.com/smart-support. HP Smart Support automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration data and health insights.



Technical Specifications

SMART CARD READER

Smart Card Reader (Optional)

Smart card standard
Dimensions (L x W x H)
Smart Card support
Smart Card Interface

PC/SC 2.0 for Windows smart card standard 0.41x 0.08 x 0.32 in (10.5 x 2 x 8.2 mm) ISO 7816 Class A and AB smart cards

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

POWER

Power Supply

HP Smart 65 W External AC power adapter⁵⁶
HP Smart 65 W EM External AC power adapter⁵⁶
HP Smart 65 W USB Type-C adapter⁵⁶
HP Smart 45 W External AC power adapter⁵⁶
HP Smart 45 W External AC power adapter, 2-prong (Japan only) ⁵⁶

Power Cord

2-wire plug - 1.0m 3-wire plug - 1.0m

Primary Battery

HP Long Life 3-cell, 53 Wh Polymer^{44,45} Supports HP Fast Charge (Up to 50% in 30 minutes)⁴⁶

Battery Life

Up to 14 hours and 45 minutes⁴⁷

Battery Weight

0.45 lb 0.205 kg

- 56. Availability may vary by country.
- 44. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 45. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.
- 46. Supports HP Fast Charge with 65W AC Adapter. 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.
- 47. Windows 10 MM18 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See http://www.bapco.com for additional details.



Technical Specifications

WEIGHTS & DIMENSIONS

Product Weight

Non-Touch

Starting at 2.48 lb (1.13 kg)48

Touch

Starting at 2.88 lb (1.31 kg)⁴⁸

Product Dimensions (W x D x H)

12.73 x 8.45 x 0.71in 323.37 x 214.59 x 17.95mm

48. Weight will vary by configuration.

PORTS/SLOTS

Ports

- 2 Thunderbolt[™] 4 with USB4[™] Type-C[®] 40Gbps signaling rate (USB Power Delivery, DisplayPort[™] 1.4) ⁵⁴
- 2 SuperSpeed USB Type-A 5Gbps signaling rate includes 1 Charging port (USB 3.2 Gen 1)
- 1 HDMI 2.0b49
- 1 Headphone/microphone combo
- 1 4.5 mm AC power
- 1 nano SIM card slot50
- 1 Smartcard reader (Optional)
- 1 Nano Security Lock Slot (Lock sold separately)
- 49. HDMI cable sold separately.
- 50. 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.
- 54. SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.



Technical Specifications

SERVICE AND SUPPORT

1-year and 3-year limited warranties and 90 day software limited warranty options depending on country.

Batteries have a default one year limited warranty except for HP Long Life batteries which will follow the one or three year warranty of the platfor. 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. 51

51. 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

Nominal Operating Voltage 19.5V
Average Operating Power 1.825W
Integrated graphics Yes
Discrete Graphics N/A

Max Operating Power UMA < 45W

Temperature

Operating 32° to 95° F (0° to 35° C)

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

Operating40 G, 2 ms, half-sineNon-operating200 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® ENERGY STAR® Select models ⁵² **EPEAT®** EPEAT® Gold in United States ⁵³

Yes

Yes

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 EAC (Russia) Yes

Saudi Arabian Compliance (ICCP)

52. Configurations of the HP EliteBook 840 Aero G8 Notebook PC that are ENERGY STAR® qualified are identified as HP EliteBook 840 Aero G8 Notebook PC ENERGY STAR® on HP websites and on http://www.energystar.gov.



SABS

Technical Specifications

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

DISPLAYS

1. Actual brightness will be lower with touchscreen or Sure View.

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

Panel LCD 14 inch FHD (1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP 1.2 w/o PSR bent NWBZ Outline Dimensions (W x H) 316.17 x 186.4 mm (max) (w/ PCB)

Active Area 309.37 x 174.02 mm

Weight 300 g (max)
Diagonal Size 14.0 inch

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

Interface eDP 1.2

Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio 600:1

Refresh Rate 60 Hz

Brightness 250 nits

Pixel Resolution 1920 x 1080 (FHD)

Format RGB Stripe
Backlight LED
Color Gamut Coverage NTSC 45%

Color Depth 6 bits (Hi FRC supportive w/ condition to enable)

Viewing Angle UWVA 85/85/85

Panel LCD 14 inch FHD (1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP 1.2 w/o PSR bent Touch on Panel NWBZ Outline Dimensions (W x H) 316.17 x 186.4 mm (max) (w/ PCB)

Active Area 309.37 x 174.02 mm

Weight 305 g (max)
Diagonal Size 14.0 inch

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

Interface eDP 1.2

Surface Treatment Anti-Glare On-cell

Touch EnabledYesContrast Ratio600:1Refresh Rate60 HzBrightness250 nits1

Pixel Resolution 1920 x 1080 (FHD)

Format RGB Stripe
Backlight LED

Color Gamut Coverage NTSC 45%

Color Depth 6 bits (Hi FRC supportive w/ condition to enable)

Viewing Angle UWVA 85/85/85



Technical Specifications

Panel LCD 14 inch FHD (1920x1080) Anti-Glare WLED UWVA sRGB 100percent cg

400nits eDP

1.4+PSR2 bent LP NB2X

Outline Dimensions (W x H)

315.07 x 186.6 mm (max) **Active Area** 309.37 X 174.02 mm

Weight 200 g (max) **Diagonal Size** 14.0 inch

Thickness 2.0 mm/4.0 mm (w/PCB) (max)

Interface eDP 1.4 **Surface Treatment** Anti-Glare **Touch Enabled** No **Contrast Ratio** 1200:1 **Refresh Rate** 60 Hz **Brightness** 400 nits

Pixel Resolution 1920 x 1080 (FHD)

Format RGB Stripe Backlight LED

Color Gamut Coverage sRGB 100% (NTSC 72%)

Color Depth 8 bits

Viewing Angle UWVA 85/85/85/85

Panel LCD 14-in FHD (1920x1080) Anti-Glare WLED UWVA 100% sRGB 1000nits eDP 1.4+PSR HP **Sure View Reflect NB2Y bent**

Outline Dimensions (W x H x D)

Active Area

314.612 x 185.33 mm (max.)

309.312 x 173.99 mm

Weight 230 g (max.) **Diagonal Size** 14.0"

Thickness 3.9 mm (max.)

Interface eDP

Surface Treatment Anti-glare (AG)

Touch Enabled No **Contrast Ratio** 1500:1 **Refresh Rate** 60 Hz **Brightness** 1000 nits1

Pixel Resolution 1920 x 1080 (FHD)

Format RGB Backlight **LED**

Color Gamut Coverage 100% sRGB **Color Depth** 8 bits

Viewing Angle UWVA 85/85/85/85



Technical Specifications

STORAGE

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

SSD 1TB 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
 PCle NVMe Gen3X4

 Maximum Sequential Read
 Up to 3100 ~ 3500 MB/s

Maximum Sequential Write Up to 2700 ~ 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 256GB 2280 M2 PCIe-3x4 SS NVMe TLC Form Factor M.2 2280
Capacity 256 GB
NAND Type TLC

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Weight
 0.02 lb (10 g)

 Interface
 PCIe NVMe Gen3X4

 Maximum Sequential Read
 Up to 2800 ~ 3500 MB/s

Maximum Sequential Write Up to 1600 ~ 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 256GB 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 Gen3X2

 Maximum Sequential Read
 Up to 2100 ~ 2400 MB/s

Maximum Sequential Write Up to 950 ~ 1400 MB/s

Logical Blocks 500,118,192

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

Features ATA Security (Option); TRIM; L1.2

SSD 256GB 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

Up to 2800 ~ 3500 MB/s

Maximum Sequential Write

Up to 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

SSD 2TB 2280 PCIe-3x4 NVMe Three Layer Cell single-sided Form Factor M.2 2280
Capacity 2 TB
NAND Type TLC

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Weight
 0.02 lb (10 g)

 Interface
 PCle NVMe Gen3X4

 Maximum Sequential Read
 Up to 3100 ~ 3500 MB/s

Technical Specifications

Maximum Sequential Write Up to 2800 ~ 3000 MB/s

Logical Blocks 3,907,029,168

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

Features ATA Security; TRIM; L1.2

SSD 512GB 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
 Up to 3100 ~ 3500 MB/s

 Maximum Sequential Write
 Up to 2100 ~ 2956 MB/s

Logical Blocks

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

1,000,215,215

Features ATA Security; TRIM; L1.2

SSD 512GB 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 Gen3X2

 Maximum Sequential Read
 Up to 1500 ~ 2400 MB/s

 Maximum Sequential Write
 Up to 1000 ~ 1750 MB/s

Logical Blocks 1,000,215,215

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

Features ATA Security (Option); TRIM; L1.2



Technical Specifications

SSD 512GB 2280 PCIe-3x2x2 NVMe+SSD 32GB 3D Xpoint 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 1,000,215,215

Operating Temperature

Logical Blocks

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

Features ATA Security; TRIM; L1.2

SSD 512GB 2280 PCIe-3x4 NVMe Self Encrypted OPAL2 Three Layer Cell 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

Up to 3100 ~ 3500 MB/s

Maximum Sequential Write

Up to 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

Intel® Wi-Fi 6¹ AX201 and Wireless LAN Standards
Bluetooth® 5.2 Wireless
Card (802.11ax 2x2,
vPro®, supporting gigabit
file transfer speeds)⁵
(vPro®)

IEEE 802.11b
IEEE 802.11g
IEEE 802.11n
IEEE 802.11ac
IEEE 802.11d
IEEE 802.11d
IEEE 802.11e
IEEE 802.11h
IEEE 802.11i
IEEE 802.11k
IEEE 802.11r
IEEE 802.11v

IEEE 802.11a

Interoperability

Features Wi-Fi 6 technology

Frequency Band

•802.11b/g/n/ax 2.402 – 2.482 GHz •802.11a/n/ac/ax 4.9 – 4.95 GHz (Japan) 5.15 – 5.25 GHz 5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz

Data Rates

• 802.11b: 1, 2, 5.5, 11 Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11n: max 300Mbps802.11ac: 1733Mbps802.11ax: max 2.4Gbps

Modulation

Direct Sequence Spread Spectrum

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

Security³

• IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only

AES-CCMP: 128 bit in hardware

• 802.1x authentication

• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.

WPA2 certification
WPA3 certification
IEEE 802.11i
WAPI

Network Architecture

Models Roaming Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

Output Power²

IEEE 802.11 compliant roaming between access points

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

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



Technical Specifications

• 802.11ax HE40(2.4GHz) : +12dBm minimum • 802.11ax HE80(5GHz) : +10dBm minimum

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

Power Consumption •Transmit mode: 2.0 W

•Receive mode: 1.6 W

Idle mode (PSP) 180 mW (WLAN Associated)
Idle mode: 50 mW (WLAN unassociated)
Connected Standby/Modern Standby: 10mW

•Radio disabled: 8 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

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

802.11b, 11Mbps: -84dBm maximum
802.11a/g, 6Mbps: -86dBm maximum
802.11a/g, 54Mbps: -72dBm maximum
802.11n, MCS07: -67dBm maximum
802.11n, MCS15: -64dBm maximum

802.11ac, MCS0(VHT80): -84dBm maximum
802.11ac, MCS9(VHT80): -59dBm maximum
802.11ac, MCS9(VHT160): -58.5dBm maximum
802.11ax, MCS11(HE40): -57dBm maximum
802.11ax, MCS11(HE80): -54dBm maximum
802.11ax, MCS11(HE160): -53.5dBm maximum

Antenna type High efficiency antenna with spatial diversity, mounted in the display

enclosure

Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications

Form Factor PCI-Express M.2 MiniCard 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 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 White – Radio ON

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

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

Frequency Band 2402 to 2480 MHz

Number of Available Legacy: 0~79 (1 MHz/CH)

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

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

BLE: 1 Mbps signaling data rate¹ 0.2 Mbps

1. Actual throughput may vary.

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



Technical Specifications

channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps

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

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

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

Power Consumption Peak (Tx) 330 mW

Peak (Rx) 230 mW

Selective Suspend 17 mW

Bluetooth Software

Supported Link Topology Microsoft Windows Bluetooth Software

Power Management

Certifications

Power Management

Certifications

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

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)

BT5.2

ESR9/10 Compliance

LE Advertisement Extensions Channel Selection Algo

Limited High Duty Cycle Non-Connectable Advertising

2Mbps LE LE Long Range

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 (802.11ax) is backwards compatible with prior 802.11 specs.
- 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/q (OFDM modulation).
- 5. Wi-Fi 6 is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.



Technical Specifications

Intel® Wi-Fi 6¹ AX201 and Wireless LAN Standards Bluetooth® 5.2 Wireless Card (802.11ax 2x2, nonvPro®, supporting gigabit file transfer speeds)⁵ non-vPro®

IEEE 802.11b
IEEE 802.11g
IEEE 802.11n
IEEE 802.11ac
IEEE 802.11d
IEEE 802.11d
IEEE 802.11t
IEEE 802.11h
IEEE 802.11i
IEEE 802.11k
IEEE 802.11r
IEEE 802.11v

IEEE 802.11a

Interoperability

Features Wi-Fi 6 technology

Frequency Band

•802.11b/g/n/ax 2.402 – 2.482 GHz •802.11a/n/ac/ax 4.9 – 4.95 GHz (Japan) 5.15 – 5.25 GHz 5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz

Data Rates

• 802.11b: 1, 2, 5.5, 11 Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11n: max 300Mbps
802.11ac: 1733Mbps
802.11ax: max 2.4Gbps

Modulation

Direct Sequence Spread Spectrum

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

Security³

• 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 certificationWPA3 certificationIEEE 802.11iWAPI

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: +17dBm minimum
802.11g: +16dBm minimum
802.11a: +17dBm minimum

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



Technical Specifications

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

Power Consumption •Transmit mode 2.0 W

•Receive mode 1.6 W

•Idle mode (PSP) 180 mW (WLAN Associated) •Idle mode 50 mW (WLAN unassociated)

•Connected Standby 10mW •Radio disabled 8 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

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

802.11b, 11Mbps: -84dBm maximum
802.11a/g, 6Mbps: -86dBm maximum
802.11a/g, 54Mbps: -72dBm maximum
802.11n, MCS07: -67dBm maximum
802.11n, MCS15: -64dBm maximum

802.11ac, MCSO(VHT80): -84dBm maximum
802.11ac, MCS9(VHT80): -59dBm maximum
802.11ac, MCS9(VHT160): -58.5dBm maximum
802.11ax, MCS11(HE40): -57dBm maximum
802.11ax, MCS11(HE80): -54dBm maximum
802.11ax, MCS11(HE160): -53.5dBm maximum

Antenna type High efficiency antenna with spatial diversity, mounted in the display

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2. Type 126: 1.3 g

Operating Voltage 3.3v +/- 9%

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

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

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

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

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

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

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LED Off - Radio ON



Technical Specifications

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BLE: 1 Mbps signaling data rate¹ 0.2 Mbps

1. Actual throughput may vary.

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

channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps

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

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

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

Power Consumption Peak (Tx) 330 mW

> Peak (Rx) 230 mW Selective Suspend 17 mW

Bluetooth Software

Microsoft Windows Bluetooth Software **Supported Link Topology**

Power Management Microsoft Windows ACPI, and USB Bus Support

FCC (47 CFR) Part 15C, Section 15.247 & 15.249 Certifications

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 Laver

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)

BT5.2

ESR9/10 Compliance LE Advertisement Extensions Channel Selection Algo

Limited High Duty Cycle Non-Connectable Advertising

2Mbps LE LE Long Range

1. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs.2. The FCC has declared as of September 1, 2014 products that



Technical Specifications

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/q (OFDM modulation).
- 5. Wi-Fi 6 is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.



Technical Specifications

Qualcomm® Snapdragon™ X55 5G Cat 20 ¹ Technology/ Operating bands WCDMA/HSDPA/HSUPA/HSPA+ operating bands: Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL) Band 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL) Band 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL) Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL) Band 6: 830 to 840 MHz (UL), 875 to 885 MHz (DL) Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL) Band 9: 1750 to 1785 MHz(UL), 1845to 1880 MHz (DL) Band 19: 830 to 845 MHz (UL), 875 to 890 MHz (DL) LTE FDD/TDD operating bands: Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL) Band 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL) Band 3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL) Band 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL) Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL) Band 7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL) Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL) Band 12: 699 to 716 MHz (UL), 729 to 746 MHz (DL) Band 13: 777 to 787 MHz (UL), 746 to 756 MHz (DL) Band 14: 788 to 798 MHz (UL), 758 to 768 MHz (DL) Band 17: 704 to 716 MHz (UL), 734 to 746 MHz (DL) Band 18: 815 to 830 MHz (UL), 860 to 875 MHz (DL) Band 19: 830 to 845 MHz (UL), 875 to 890 MHz (DL) Band 20: 832 to 862 MHz (UL), 791 to 821 MHz (DL) Band 25: 1850 to 1915 MHz (UL), 1930 to 1995 MHz (DL) Band 26: 814 to 849 MHz (UL), 859 to 894 MHz (DL) Band 28: 703 to 748 MHz (UL), 758 to 803 MHz (DL) Band 29: 717 to 728 MHz (DL) Band 30: 2305 to 2315 MHz (UL) 2350 to 2360 MHz (DL) Band 34: 2010 to 2025 MHz (UL/DL) Band 38: 2570 to 2620 MHz (UL/DL) Band 39: 1880 to 1920 MHz (UL/DL) Band 40: 2300 to 2400 MHz (UL/DL) Band 41: 2496 to 2690 MHz (UL/DL) Band 42: 3400 to 3600 MHZ (UL/DL) Band 46: 5150 to 5925 MHZ (DL) Band 48: 3550 to 3700 MHZ (UL/DL) Band 66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL) 5GNR Sub 6GHZ: n1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL) n2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL) n3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL) n5: 824 to 849 MHz (UL), 869 to 894 MHz (DL) n7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL) n8: 880 to 915 MHz (UL), 925 to 960 MHz (DL) n12: 699 to 716 MHz (UL), 729 to 746 MHz (DL) n20: 832 to 862 MHz (UL), 791 to 821 MHz (DL) n28: 703 to 748 MHz (UL), 758 to 803 MHz (DL) n41: 2496 to 2690 MHz (UL/DL) n66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL) n77: 3300 to 4200 MHz (UL/DL) n78: 3300 to 3800 MHz (UL/DL) n79: 4400 to 5000 MHz (UL/DL)



Technical Specifications

Wireless protocol STANK Air Interface

andards 3GPP Rel15 5G NR sub-6

LTE Rel14

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

5x CA

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

WCDMA

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

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

GPS bands GPS: L1 (1575.42MHz)

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

Maximum data rates 5G sub 6G: 3.8 Gbps

LTE: ue-CategoryDL 20, (DL: 2 Gbps) ue-CategoryUL 18, (UL: 200Mbps)

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

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

LTE B41 HPUE = 26dBm HSPA+: 23.5 dBm

Maximum power consumption 5G Sub 6: 2500 mA

LTE: 1,300 mA (peak); 1100 mA (average) HSPA+: 1,100 mA (peak); 800 mA (average)

Form Factor M.2, 3042-S3 Key B

Weight 8 q

Dimensions

(Length x Width x Thickness)

42 m × 30 mm × 2.6 mm

1. 5G module is an optional feature that must be configured at purchase. AT&T and T-Mobile networks supported in the U.S. Module designed for 5G networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP, requires activation and separately purchased service contract. 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. 5G not available on all products, in all regions. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select countries, where carrier supported. US Configurations: Verizon mobile broadband service is not supported with this module



Technical Specifications

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

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, MAX 60MHz aggregation BW

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

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

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

1561.098 ± 2.046 MHz

Maximum data rates LTE: 450 Mbps (DL 3CA), 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 6.2 q

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.



Technical Specifications

NXP NPC300 Near Field Communication

Module

Dimensions (L x W x H)

Module 17 mm by 10 mm by 2.0 mm

Chipset

NPC300

System interface

I2C

NFC RF standards

ISO/IEC 14443 A ISO/IEC 14443 B ISO/IEC 15693 ISO/IEC 18092

ECMA-340 NFCIP-1 Target and Initiator

ECMA-320 NFCIP-2

NFC Forum Support

Reader (PCD-VCD)

Mode¹

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) Mode¹

ISO/IEC 14443 A

ISO/IEC 14443 B and B'

Reader/Writer, Peer-to-Peer

106, 212, 424, 848 kbps

MIFARE FeliCa

13.56 MHz **Frequency**

NFC Modes Supported

Raw RF Data Rates

Operating

0°C to 70°C

temperature

Storage temperature

Humidity

-20°C to 125°C

10-90% operating 5-95% non-operating

Supply Operating

voltage

2.97 to 5.5 Volts

I/O Voltage 1.8V or 3.3V

Power Consumption (Booster enable, **VBAT= 3.3V.** $VCC_BOOST = 5V$

Mode Power Consumption, Typical²

7.3 mA **Polling** 32.9 mA **Detected Test Tag**

Type 1

Detected Test Tag

70.7 mA

Type 2



Technical Specifications

Detected Test Tag

Туре 3

79.2 mA

Detected Test Tag

Type 4

64.9 mA

Antenna

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

external to module.

- 1. With application or UICC support
- 2. Actual Power Consumption is dependent on NFC antenna and matching circuit and on the particular polling sequence and period configured.



Technical Specifications

POWER

AC Adapter 45 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.0m
 Dimensions
 95x40x26.8mm

 Weight
 unit: 200g +/- 10g

Input

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

Input frequency range 47 ~ 63 Hz

Input AC current

Output

Max. 1.4 A at 90 Vac

Output power 45W DC output 19.5V

Hold-up time 5ms at 115 Vac input

Output current limit

Connector

<8.0A

Connector

Environmental Design
Operating temperature

4.5mm Barrel Type

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)

Humidity20% to 95%Storage Humidity10% to 95%

EMI and Safety Eg:

*CE Mark - full compliance with LVD and EMC directives

* Worldwide safety standards - IEC60950-1 and/or IEC62368-1, EN60950-1 and/or EN62368-1, UL60950-1 and/or UL62368-1, Class1,

SELV;

Agency approvals - C-UL-US, DENAN, EN55032 Class B, FCC Class B.

CISPR32 Class B, CCC, NOM-001 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.



Technical Specifications

AC Adapter 45 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.0m 2prong
 Dimensions
 95x40x26.8mm

 Weight
 unit: 200g +/- 10g

 Input

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

Input frequency range 47 ~ 63 Hz

Input AC current

Output

Max. 1.4 A at 90 Vac

Output power 45W **DC output** 19.5V

Hold-up time 5ms at 115 Vac input

Output current limit

Connector

<8.0A

Connector Environmental Design

Operating temperature

4.5mm Barrel Type

32°F to 95°F (0°to 35°C)

Non-operating

(storage) temperature

-4°F to 185°F (-20°to 85°C)

Non-operating (storage) temperature

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

Eq:

 Humidity
 20% to 95%

 Storage Humidity
 10% to 95%

EMI and Safety Certifications

*CE Mark - full compliance with LVD and EMC directives

* Worldwide safety standards - IEC60950-1 and/or IEC62368-1, EN60950-1 and/or EN62368-1, UL60950-1 and/or UL62368-1, Class1, SELV;

Agency approvals - C-UL-US, DENAN, EN55032 Class B, FCC Class B, CISPR32

Class B, CCC, NOM-001 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.

AC Adapter 65 Watt nPFC Slim USB type C[®] Straight 1.0m
 Dimensions
 88x53.5x21mm

 Weight
 unit: 220g +/- 10g

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 Output

Input

4.5.4

1.6 A at 90 VAC and maximum load

Output power 65W

DC output 5V/9V/12V/15V/20V



Technical Specifications

Hold-up time

5ms at 115 Vac input

Output current limit

Connector

<8.0A

Connector

USB Type C

Environmental Design

Operating temperature

32°Fto 95°F (0°to 35°C)

Non-operating

(storage) temperature

-4°Fto 185°F (-20°to 85°C)

Non-operating

(storage) temperature

0 to 16.400 ft (0 to 5000m)

Humidity
Storage Humidity

5% to 95% 5% to 95%

EMI and Safety

Eg:

Certifications

Altitude

*CE Mark - full compliance with LVD and EMC directives

* Worldwide safety standards - IEC60950-1 and/or IEC62368-1, EN60950-1 and/or EN62368-1, UL60950-1 and/or UL62368-1, Class1, SELV;
Agency approvals - C-UL-US, DENAN, EN55032 Class B, FCC Class B,

CISPR32 Class B, CCC, NOM-001 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.

AC Adapter 65 Watt nPFC Standard USB type C Straight 1.0m Dimensions

Weight

Input

90.0x51x28.5mm unit: 250g +/- 10g

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

Output

1.6 A at 90 VAC and maximum load

Output power 65W

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

Output current limit

Connector

8.0A Max.

Connector USB TYPE C

Environmental Design

Operating temperature 32°F to 95°F (0°to 35°C)

Non-operating (storage) temperature

-4°F to 185°F (-20°to 85°C)



Technical Specifications

Non-operating (storage) temperature

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

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

EMI and Safety Eq:

Certifications *CE Mark - full compliance with LVD and EMC directives

* Worldwide safety standards - IEC60950-1 and/or IEC62368-1, EN60950-1

and/or EN62368-1, UL60950-1 and/or UL62368-1, Class1, SELV;

Agency approvals - C-UL-US, DENAN, EN55032 Class B, FCC Class B, CISPR32

Class B, CCC, NOM-001 NYCE.

* MTBF - over 200.000 hours at 25°C ambient condition.

AC Adapter 65 Watt Smart nPFC EM Barrel 4.5mm New EM

Dimensions 102x55x30mm Weight unit: 250g +/- 10g

Input

Input Efficiency 88.0 % at 115 Vac and 89.0 % at 230Vac 47 ~ 63 Hz

Input frequency range

Input AC current

Output

Max. 1.7 A at 90 Vac

65W **Output power** 19.5V

5ms at 115 Vac input Hold-up time

Output current limit

Connector

DC output

<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)

Non-operating (storage) temperature

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

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

EMI and Safety

Certifications *CE Mark - full compliance with LVD and EMC directives

* Worldwide safety standards - IEC60950-1 and/or IEC62368-1, EN60950-1

and/or EN62368-1, UL60950-1 and/or UL62368-1, Class1, SELV;

Agency approvals - C-UL-US, DENAN, EN55032 Class B, FCC Class B, CISPR32

Class B, CCC, NOM-001 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.



Technical Specifications

AC Adapter 65 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.0m
 Dimensions
 90x51x28.5mm

 Weight
 unit: 230g +/- 10g

Input

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

47 ~ 63 Hz

Input frequency range

Input AC current

Output

Max. 1.7 A at 90 Vac

Output power 65W 19.5V

Hold-up time 5ms at 115 Vac input

Output current limit

Connector

<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)

Non-operating (storage) temperature

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

Humidity20% to 95%Storage Humidity10% to 95%

EMI and Safety

Certifications *CE Mark - full compliance with LVD and EMC directives

* Worldwide safety standards - IEC60950-1 and/or IEC62368-1, EN60950-1

and/or EN62368-1, UL60950-1 and/or UL62368-1, Class1, SELV;

Agency approvals - C-UL-US, DENAN, EN55032 Class B, FCC Class B, CISPR32

Class B, CCC, NOM-001 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.



Technical Specifications

Battery CC 3 Cell 53 Wh¹ 53 Long Life -PL Fast Charge **Dimensions (H x W x L)** 7.3 x 52.9 x 267.11mm (0.287 x 2.082 x 10.516 inch)

Weight 0.205 kg (0.45 lb)

Cells/Type 3cell Lithium-Ion Polymer cell

Energy

Voltage 11.55V Amp-hour capacity 4.59Ah Watt-hour capacity¹ 53Wh

Temperature

Operating (Charging) 32° to 113° F (0° to 45° C) **Operating** 14° to 140° F (-10° to 60° C)

(Discharging)

Fuel Gauge LED N/A

Warranty Depends on system offering

Optional Travel No

Battery Available

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

FINGERPRINT READER

Model:

Synaptics Validity VFS7604 touch sensor

Mobile Voltage Operation:

3.0V to 3.6V

Operating Temperature:

0~60°C

Current Consumption Image:

100mA Max

Low Latency Wait For Finger:

260 uA Capture Rate: <30msec per image ESD Resistance:

IEC 61000-4-2 4B (+/-15KV)

Detection Matrix:

363 dpi / 7.4x6mm sensor area

FRR (False Reject Rate) / FAR (False Acceptance Rate):

FRR < 1% @ 1:50K FAR



Technical Specifications

ENVIRONMENTAL DATA

	This are direct has received	avia in the average of bains as	wified to the fellowing appropriate and many		
Eco-Label Certifications & declarations	This product has received or is in the process of being certified to the following approvals and may				
& declarations	De labeled with one of more of these marks:				
Sustainable Impact	 be labeled with one or more of these marks: IT ECO declaration US ENERGY STAR® US Federal Energy Management Program (FEMP) EPEAT® Gold registered in the United States. See http://www.epeat.net for registration status in your country. TCO certified China Energy Conservation Program (CECP) China State Environmental Protection Administration (SEPA) Taiwan Green Mark Korea Eco-label Japan PC Green label* Ocean-bound plastic in Speaker box 				
Specifications	• 30% post-consumer rec				
•	External Power Supply 9	-			
	• Low halogen	·			
	Outside Box and corruga	ted cushions are 100% sustaina	ably sourced and recyclable		
		ion inside box is 100% sustainat	oly sourced and recyclable		
	Bulk packaging available				
System Configuration			d Declared Noise Emissions data for the		
	Notebook model is based	on a "Typically Configured Note	book".		
Energy Consumption (in accordance with US					
ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz		
ENERGY STAR® test	115VAC, 60Hz 6.36 W	230VAC, 50Hz 6.53 W	100VAC, 50Hz 6.61 W		
ENERGY STAR® test method) Normal Operation (Sort	-				
Normal Operation (Sort idle) Normal Operation (Long	6.36 W	6.53 W	6.61 W		
Normal Operation (Sort idle) Normal Operation (Long idle)	6.36 W 1.25 W	6.53 W 1.15 W	6.61 W		
ENERGY STAR® test method) Normal Operation (Sort idle) Normal Operation (Long idle) Sleep	6.36 W 1.25 W	6.53 W 1.15 W 1.15 W	6.61 W 1.11 W 1.11 W		



Technical Specifications

Heat Dissipation*	115VA(, 60Hz	230VAC	, 50Hz		100VAC, 50Hz	
Normal Operation (Short idle)	22 BT	U/hr	22 BTU/hr			23 BTU/hr	
Normal Operation (Long idle)	4 BT	J/hr	/hr 4 BTU/hr			4 BTU/hr	
Sleep	4 BT	J/hr	4 BTI	J/hr		4 BTU/hr	
Off	1 BTI	U/hr 1 BTU/hr			1 BTU/hr		
	*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.						
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)		Sound Power (L _{WAd} , bels)		Sound Pressure (L _{pAm} , decibels)			
Typically Configured – Idle		2.5		15.8			
Fixed Disk – Random writes		2.5		24.4			
Optical Drive – Sequential reads		2.7		15.5			
Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the spare parts are available throughout the warranty period and or for up to "5" years after the end of production.						
Additional Information	 This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC. This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see http://www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. This product is 95.2% recycle-able when properly disposed of at end of life. 						
Packaging Materials	External:	PAPER/Corr	ugated			41 g	
	Internal:	PAPER/Mol	ded pulp			163 g	
		PLASTIC/Polyethylene low density				14 g	
		PAPER/paperboard 220 g			220 g		
	The plastic packaging material contains at least 0% recycled content.						
	The corrugated paper packaging materials contains at least 0% recycled content.						



Technical Specifications

RoHS Compliance

HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam.

We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products.

We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the scope of the commitment to include further restricted substances as regulations continue to evolve.

To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.

Material Usage

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Bis(2-Ethylhexyl) phthalate (DEHP)
- Benzyl butyl phthalate (BBP)
- Dibutyl phthalate (DBP)
- Diisobutyl phthalate (DIBP)
- Formaldehvde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)



Technical Specifications

Packaging Usage	 HP follows these guidelines to decrease the environmental impact of product packaging: Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials. Eliminate the use of ozone-depleting substances (ODS) in packaging materials. Design packaging materials for ease of disassembly. Maximize the use of post-consumer recycled content materials in packaging materials. Use readily recyclable packaging materials such as paper and corrugated materials. Reduce size and weight of packages to improve transportation fuel efficiency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards. 			
End-of-life Management and Recycling	HP offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.			
	The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers . These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.			
HP, Inc. Corporate Environmental Information	For more information about HP's commitment to the environment: Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www8.hp.com/us/en/hp-information/environment/ecolabels.html ISO 14001 certificates: http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf			
footnotes	 Percentage of ocean-bound plastic contained in each component varies by product Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard. External power supplies, WWAN modules, power cords, cables and peripherals excluded. 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic materials. Plastic cushions are made from >90% recycled plastic. 			



HP EliteBook 840 Aero G8 Notebook PC

QuickSpecs

Technical Specifications

COUNTRY OF ORIGIN

China



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

Cases HP Exec 15.6 Top Load Case HP Executive Slim 14.1 Top Load Case 6KD05AA 6KD05AA Docking HP Thunderbolt Dock 120W G2 HP TB Dock w/ Combo Cable (230W) 3T887AA HP USB-C Mini Dock 1PM64AA HP USB-C Dock G5 5TW10AA Input/Output HP Wireless Rechargeable 950MK Mouse and Keyboard 3M165AA HP USB-C/A Universal Dock G2 3TW13AA Input/Output HP Wireless Rechargeable 950MK Mouse and Keyboard 3M165AA HP USB-C/A Universal Dock G2 4T544AA HP USB-C/A UNIVERSAL MOUSE 4T544AA HP DWIRELSS Premium Keyboard 29M11AA HP DWIRELSS Premium Keyboard 4T544AA HP DWIRELSS Premium Mouse 4T544AA HP USB Travet Mouse 65P30AA HP USB Travet Mouse 65P30AA HP USB Travet Mouse 65P30AA HP USB Premium Mouse 1JR32AA HP USB Laser 3 Button USB Mouse 4B811AA HP USB Keyboard 1JR32AA HP USB Keyboard 1GU20AA HP Stereo USB Headset 7TA67AA HP WILSB Keyboard 1GU20AA HP 225 Wired Mouse and Keyboard Combo 2B61AA HP USB-C to VGA 4M762AA HP USB-C to WGB Adapter 1W36AA HP USB-C to WGB Adapter 7W745AA HP USB-C to WGB Adapter 7W745AA HP USB-C Travet Hub G2 HP EW USB-C WGB Adapter 1M20AA H	Category	Description	Part Number
The Executive Stim 14.1 Top Load Case	Cases	HP Exec 15.6 Backpack	6KD07AA
Docking		HP Exec 15.6 Top Load Case	6KD06AA
HP TIB Dock w/ Combo Cable (230W)		HP Executive Slim 14.1 Top Load Case	6KD04AA
HP Thunderbolt 120W Dock w/Audio G2 HP USB-C Mini Dock HP USB-C Mini Dock HP USB-C Dock G5 HP USB-C LOck G5 HP USB-C/A Universal Dock G2 Input/Output HP Wireless Rechargeable 950MK Mouse and Keyboard HP Wireless Premium Keyboard HP Bluetooth Fingerprint Reader USB Mouse HP UsB Comfort Grip Wireless Mouse HP Comfort Grip Wireless Mouse HP USB Travel Mouse HP USB Travel Mouse HP USB Travel Mouse HP USB Travel Mouse HP USB Premium Mouse HP USB Roser 3 Button USB Mouse HP Stereo USB Headset HP 1185 Reyboard HP 125 Wireless Keyboard and Mouse HP 225 WIL Mouse and Keyboard Combo HP 125 Wired Keyboard HP 125 Wired Keyboard HP 125 Wired Mouse and Keyboard Combo HP 125 Wired Mouse and Keyboard HP 125 Wired Mouse and 125 Wired Mou	Docking	HP Thunderbolt Dock 120W G2	2UK37AA
HP USB-C Mini Dock HP USB-C Mini Dock HP USB-C Mini Dock HP USB-C Dock G5 5TW10AA HP USB-C/A Universal Dock G2 Imput/Output HP Wireless Rechargeable 950MK Mouse and Keyboard HP Wireless Premium Keyboard HP Wireless Premium Keyboard HP Bluetooth Fingerprint Reader USB Mouse HP Comfort Grip Wireless Mouse HP Comfort Grip Wireless Mouse HP USB Travel Mouse HP USB Travel Mouse HP Bluetooth Travel Mouse HP USB Premium Mouse HP USB Jeser 3 Button USB Mouse HP USB Laser 3 Button USB Mouse HP USB Laser 3 Button USB Mouse HP Stereo USB Headset HP UL USB Keyboard HP WIL USB Keyboard and Mouse HP 125 Wired Keyboard Combo HP 125 Wired Keyboard HP 125 Wired Keyboard Combo HP 125 Wired Keyboard HP USB-C to HDM 1.0 Adapter HP USB-C to HDM 1.0 Adapter HP USB-C to HDM 2.0 Adapter HP USB-C to HDM 2.0 Adapter HP USB-C Travel Hub G2 HP USB-C Travel Hub G2 HP Elite USB-C Hub Power HP 45W USB-C C Doali AC Power Adapter HP 45W USB-C Slim Power Adapter HP 45W USB-C Slim Power Adapter HP 45W USB-C Slim Power Adapter		HP TB Dock w/ Combo Cable (230W)	3TR87AA
HP USB-C Dock G5		HP Thunderbolt 120W Dock w/Audio G2	3YE87AA
Input/Output HP USB-C/A Universal Dock G2 Input/Output HP Wireless Rechargeable 950MK Mouse and Keyboard HP Wireless Premium Keyboard A HP Bluetooth Fingerprint Reader USB Mouse HP Comfort Grip Wireless Mouse HP Comfort Grip Wireless Mouse HP X4000b Bluetooth Mouse HP USB Travel Mouse HP USB Travel Mouse HP Bluetooth Travel Mouse HP Wireless Premium Mouse HP Wireless Premium Mouse HP Wireless Premium Mouse HP USB Premium Mouse HP USB Premium Mouse HP USB Laser 3 Button USB Mouse HP Elite Presenter Mouse HP Stereo USB Headset HP Stereo USB Headset HP Stereo USB Headset HP Stereo USB Headset HP WISB Keyboard HP SIm Wireless Keyboard and Mouse HP 235 WL Mouse and Keyboard Combo HP 1255 Wired Keyboard HP 1255 Wired Keyboard HP 1255 Wired Mouse and Keyboard Combo HP 1255 Wired Mouse and Keyboard Combo HP USB-C to VGA HP USB-C to VGA HP USB-C to HDMI 2.0 Adapter HP USB-C to HDMI 2.0 Adapter HP USB-C to RJ45 Adapter HP USB-C Travel Hub G2 HP USB-C Travel Hub G2 HP USB-C Travel Hub G2 HP Elite USB-C Hub Power HP 45W USB-C LC Dali AC Power Adapter HP 45W USB-C Slim Power Adapter		HP USB-C Mini Dock	1PM64AA
Input/Output HP Wireless Rechargeable 950MK Mouse and Keyboard HP Wireless Premium Keyboard HP Bluetooth Fingerprint Reader USB Mouse HP Comfort Grip Wireless Mouse HP Comfort Grip Wireless Mouse HP USB Travel Mouse HP USB Travel Mouse HP USB Travel Mouse HP Wireless Premium Mouse HP Wireless Premium Mouse HP USB Premium Mouse HP USB Laser 3 Button USB Mouse HP Elite Presenter Mouse HP Elite Presenter Mouse HP Stereo USB Headset HP WL USB Keyboard HP USB LSS Keyboard and Mouse HP 235 WL Mouse and Keyboard Combo HP 125 Wired Keyboard HP 225 Wired Mouse and Keyboard Combo HP 125 Wired Mouse and Keyboard Combo HP USB-C to HDMI 2.0 Adapter HP USB-C Travel Hub G2 7PJ38AA HP USB-C Travel Hub G2 7PJ38AA HP USB-C Travel Hub G2 7PJ38AA HP USB-C Hub Power HP 45W USB-C LC Dali AC Power Adapter HP 45W USB-C Power Adapter HP 45W USB-C Power Adapter HP 45W USB-C Slim Power Adapter		HP USB-C Dock G5	5TW10AA
HP Wireless Premium Keyboard 29N41AA HP Bluetooth Fingerprint Reader USB Mouse 4TS44AA HP Bluetooth Fingerprint Reader USB Mouse H2L63AA HP Comfort Grip Wireless Mouse H3T50AA HP USB Travel Mouse G1K28AA HP USB Travel Mouse G5P30AA HP Wireless Premium Mouse J1JR31AA HP USB Premium Mouse J1JR31AA HP USB Premium Mouse J1JR31AA HP USB Premium Mouse J1JR32AA HP USB Laser 3 Button USB Mouse H4BB1AA HP Litte Presenter Mouse C2C30AA HP Stire Vireles Vireles Headset T1A67AA HP WL USB Keyboard T6U20AA HP Slim Wireless Keyboard and Mouse HP 235 WL Mouse and Keyboard Combo T9135 WL Mouse and Keyboard Combo HP 225 Wired Keyboard Combo HP 225 Wired Mouse and Keyboard Combo HP 25Wired Keyboard AP USB-C to VGA HP HDMI to VGA HP USB-C to USA HP USB-C to USA HP USB-C to USA HP USB-C to USA HP USB-C to IDMI 2.0 Adapter W7W66AA HP USB-C to R145 Adapter V7W66AA HP USB-C to R145 Adapter N7P47AA HP USB-C Travel Hub G2 7P138AA HP USB-C To Wats Adapter N7P47AA HP USB-C Travel Hub G2 7P138AA HP USB-C To Wats Adapter N7P47AA HP USB-C Travel Hub G2 7P138AA HP USB-C		HP USB-C/A Universal Dock G2	5TW13AA
HP Bluetooth Fingerprint Reader USB Mouse HP Comfort Grip Wireless Mouse HP X4000b Bluetooth Mouse HB X4000b Bluetooth Mouse HP USB Travel Mouse HP Bluetooth Travel Mouse HP Bluetooth Travel Mouse HP Wireless Premium Mouse HP Wireless Premium Mouse HP USB Premium Mouse HP USB Laser 3 Button USB Mouse HP Elite Presenter Mouse HP Elite Presenter Mouse HP Stereo USB Headset HP Stereo USB Headset HP Sim Wireless Keyboard and Mouse HP Sim Wireless Keyboard And Mouse HP Sim Wireless Keyboard T6U20AA HP 125 Wired Keyboard Combo HP 235 WL Mouse and Keyboard Combo HP 125 Wired Keyboard HP 125 Wired Keyboard HP USB-C to VGA HP USB-C to VGA HP HDMI to VGA HP HDMI to VGA HP USB-C to RJAS Adapter HP USB-C Travel Hub G2 TPJ38AA HP USB-C Travel Hub G2 TPJ38AA HP USB-C Hub Power HP 45W USB-C Power Adapter HP 45W USB-C Power Adapter HP 65W USB-C Power Adapter	Input/Output	HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165AA
HP Comfort Grip Wireless Mouse HP X4000b Bluetooth Mouse HB USB Travel Mouse HP USB Travel Mouse HP Bluetooth Travel Mouse HP Wireless Premium Mouse HP Wireless Premium Mouse HP USB Premium Mouse HP USB Laser 3 Button USB Mouse HP USB Laser 3 Button USB Mouse HP USB Laser 3 Button USB Mouse HP Stereo USB Headset HP SUB SK eyboard HP SUB SK eyboard HP SUB Wireless Keyboard and Mouse HP SUB Wireless Keyboard Combo HP 125 Wired Keyboard Combo HP 125 Wired Keyboard Combo HP 125 Wired Mouse and Keyboard Combo HP 125 Wired Mouse and Keyboard Combo HP USB-C to VGA HP USB-C to VGA HP HDMI to VGA HP HDMI to VGA HP USB-C to DIMI 2.0 Adapter HP USB-C to DIMI 2.0 Adapter HP USB-C to Travel Hub G2 TPJ38AA HP USB-C Travel Hub G2 TPJ38AA HP USB-C Travel Hub G2 TPJ38AA HP Elite USB-C Hub HP 45W USB-C Power Adapter		HP Wireless Premium Keyboard	Z9N41AA
HP X4000b Bluetooth Mouse H3T50AA HP USB Travel Mouse G1K28AA HP Bluetooth Travel Mouse G5P30AA HP Wireless Premium Mouse HJR31AA HP USB Premium Mouse JJR31AA HP USB Laser 3 Button USB Mouse H4B81AA HP Elite Presenter Mouse ZCE30AA HP Stereo USB Headset HP Stim Wireless Keyboard HP Slim Wireless Keyboard HP Slim Wireless Keyboard And Mouse HP 235 WL Mouse and Keyboard Combo HP 125 Wired Keyboard HP 225 Wired Mouse and Keyboard Combo HP 125 Wired Mouse and Keyboard Combo HP DBH LO VGA HP USB-C to VGA HP USB-C to RJ45 Adapter HP USB-C to HDMI 2.0 Adapter HP USB-C to RJ45 Adapter HP USB-C Travel Hub G2 TPJ38AA HP USB-C Hub Power HP 45W USB-C LC Dali AC Power Adapter HP 45W USB-C Slim Power Adapter		HP Bluetooth Fingerprint Reader USB Mouse	4TS44AA
HP USB Travel Mouse HP Bluetooth Travel Mouse HP Bluetooth Travel Mouse HP Wireless Premium Mouse HP USB Premium Mouse HP USB Premium Mouse HP USB Premium Mouse HP USB Laser 3 Button USB Mouse HP Elite Presenter Mouse HP Elite Presenter Mouse ECE30AA HP Stereo USB Headset HP Stereo USB Headset HP Slim Wireless Keyboard HP Slim Wireless Keyboard And Mouse HP 235 WL Mouse and Keyboard Combo HP 125 Wired Keyboard HP 125 Wired Keyboard HP 125 Wired Mouse and Keyboard Combo HP 125 Wired Mouse and Keyboard Combo HP 125 Wired Mouse and Keyboard Combo HP USB-C to VGA HP USB-C to VGA HP USB-C to HDMI 2.0 Adapter HP USB-C to Gig RJ45 Adapter HP USB to Gig RJ45 Adapter HP USB to Gig RJ45 Adapter HP USB-C to RJ45 Adapter HP USB-C to HUB G2 TPJ38AA HP USB-C Hub HP Elite USB-C Hub HP 45W USB-C Power Adapter HP 65W USB-C Power Adapter HP 65W USB-C Power Adapter HP 65W USB-C Slim Power Adapter		HP Comfort Grip Wireless Mouse	H2L63AA
HP Bluetooth Travel Mouse HP Bluetooth Travel Mouse HP Wireless Premium Mouse 1JR31AA HP USB Premium Mouse 1JR32AA HP USB Premium Mouse 1JR32AA HP USB Laser 3 Button USB Mouse H4881AA HP Elite Presenter Mouse 2CE30AA HP Stereo USB Headset T1A67AA HP WL USB Keyboard HP Slim Wireless Keyboard and Mouse HP 235 WL Mouse and Keyboard Combo HP 125 Wired Keyboard HP 225 Wired Mouse and Keyboard Combo HP 125 Wired Mouse and Keyboard Combo HP 125 Wired Mouse and Keyboard Combo HP USB-C to VGA HP DUSB-C to VGA HP USB-C to HDMI 2.0 Adapter HP USB-C to RJ45 Adapter HP USB-C to RJ45 Adapter HP USB-C Travel Hub G2 TPJ38AA HP USB-C Travel Hub G2 HP Elite USB-C Hub Power HP 45W USB-C LC Dali AC Power Adapter HP 45W USB-C Power Adapter HP 65W USB-C Power Adapter HP 65W USB-C Power Adapter		HP X4000b Bluetooth Mouse	H3T50AA
HP Wireless Premium Mouse 1JR31AA HP USB Premium Mouse 1JR32AA HP USB Laser 3 Button USB Mouse H48B1AA HP Elite Presenter Mouse 2CE30AA HP Stereo USB Headset 1T1A67AA HP WL USB Keyboard 7GU20AA HP Slim Wireless Keyboard and Mouse 7GL04AA HP 235 WL Mouse and Keyboard Combo 1Y4D0AA HP 125 Wired Keyboard 266C9AA HP 225 Wired Mouse and Keyboard Combo 286J4AA HP USB-C to VGA N9K76AA HP HDMI to VGA H4F02AA HP HP USB-C to HDMI 2.0 Adapter 1WC36AA HP USB-C to RJ45 Adapter V7W66AA HP USB-C to RJ45 Adapter N7P47AA HP USB-C Travel Hub G2 7PJ38AA HP USB-C Travel Hub G2 7PJ38AA HP Elite USB-C Hub 4WX89AA Power HP 45W USB-C Power Adapter 1HE07AA HP 65W USB-C Power Adapter 3PN48AA HP 65W USB-C Power Adapter 3PN48AA		HP USB Travel Mouse	G1K28AA
HP USB Premium Mouse HP USB Laser 3 Button USB Mouse HP Elite Presenter Mouse HP Elite Presenter Mouse HP Stereo USB Headset HP WL USB Keyboard HP WL USB Keyboard HP Slim Wireless Keyboard and Mouse HP 235 WL Mouse and Keyboard Combo HP 125 Wired Keyboard HP 125 Wired Keyboard HP 125 Wired Mouse and Keyboard Combo HP USB-C to VGA HP USB-C to VGA HP USB-C to VGA HP HDMI to VGA HP HDMI to VGA HP USB-C to RJ45 Adapter HP USB-C to RJ45 Adapter HP USB-C to RJ45 Adapter HP USB-C Travel Hub G2 TPJ38AA HP USB-C Travel Hub G2 TPJ38AA HP Elite USB-C Hub Power Power HP 45W USB-C LC Dali AC Power Adapter HP 45W USB-C Power Adapter HP 65W USB-C Power Adapter HP 65W USB-C Power Adapter HP 65W USB-C Slim Power Adapter		HP Bluetooth Travel Mouse	6SP30AA
HP USB Laser 3 Button USB Mouse HP Elite Presenter Mouse HP Elite Presenter Mouse HP Stereo USB Headset HP WL USB Keyboard HP Slim Wireless Keyboard and Mouse HP Sim Wireless Keyboard Combo HP 125 Wired Keyboard Combo HP 125 Wired Keyboard Combo HP 125 Wired Mouse and Keyboard Combo HP 225 Wired Mouse and Keyboard Combo HP 225 Wired Mouse and Keyboard Combo HP USB-C to VGA HP USB-C to VGA HP HDMI to VGA HP USB-C to HDMI 2.0 Adapter HP USB-C to RJ45 Adapter HP USB-C to RJ45 Adapter HP USB-C Travel Hub G2 TPJ38AA HP USB-C Travel Hub G2 HP Elite USB-C Hub Power HP 45W USB-C Power Adapter HP 65W USB-C Power Adapter HP 65W USB-C Slim Power Adapter		HP Wireless Premium Mouse	1JR31AA
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65W USB-C Slim Power Adapter 3PN48AA		·	1HE08AA
. OTDETAA		·	3PN48AA
		•	3TB55AA



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

Memory HP 4GB DDR4 3200 Memory 286H5AA

HP 8GB DDR4 3200 Memory 286H8AA

HP 16GB DDR4 3200 Memory 286J1AA

Security HP Nano Keyed Cable Lock 1AJ39AA

HP Sure Key Cable Lock 6UW42AA



Summary of Changes

Date of change:	Version History:	Updated	Description of change:
March 25, 2021	V1 to V2	Update	Battery Life
April 19,2021	V2 to V3	Updated	Memory Section and Input/ Output Section Updated
April 23, 2021	V3 to V4	Added	BIOS information in Software section
May 6, 2021	V4 to V5	Removed	Processors base frequency/Added HP Smart Support
May 20, 2021	V5 to V6	Removed	HP Thunderbolt Dock 230W G2
May 27, 2021	V6 to V7	Update	HP Pro Security Edition to HP Wolf Pro Security Edition
June 11, 2021	V7 to V8	Removed	HP WorkWell from Software and Security section
September 2, 2021	V8 to V9	Added	Environmental Data
September 7, 2021	V9 to V10	Updated	Techspecs in Networking, Storage and Power section
September 16, 2021	V10 to V11	Updated	Environmental Data
November 11, 2021	V11 to V12	Updated	Windows 10 with Free upgrade to Windows 11 when available in OS section and footnote.
December 9, 2021	V12 to V13	Updated	OS footnotes and Wi-Fi 6 footnotes
December 14, 2021	V13 to V14	Updated	Windows OS section
February 28, 2022	V14 to V15	Added	Processors base frequency
April 20, 2022	V15 to V16	Added	Reference for USB ports
September 7, 2022	V16 to V17	Removed	Tile App
December 7, 2022	V17 to V18	Updated	Windows 0S
February 23, 2023	V18 to V19	Updated	Disclaimer for Qualcomm® Snapdragon™ X55 5G
March 6, 2023	V19 to V20	Updated	Networking and Communications section
June 8, 2023	V20 to V21	Updated	WWAN in Networking section
	V21 to V22		

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