### **Overview**

#### HP EliteBook 845 14 inch G10 Notebook PC



#### Left

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

- 8. Glass Clickpad
- 9. Smartcard Reader (Optional)
- 10. LED Indicator
- **11.** USB4 Type-C<sup>®</sup> (USB Power Delivery, DisplayPort<sup>™</sup> 1.4)
- **12.** USB4 Type-C<sup>®</sup> (USB Power Delivery, DisplayPort<sup>™</sup> 1.4)
- 13. SuperSpeed USB Type-A 5Gbps signaling rate
- 14. HDMI 2.1 Port (Cable not included)

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

### **Overview**



#### Right

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

#### **Overview**

#### At a Glance

- Premium ultraslim design with precision-crafted all-metal chassis for a premium look and feel
- Latest AMD® Ryzen PRO and non-PRO 7000 U and HS series processors
- Preinstalled with Windows 11 versions or FreeDOS
- New 16:10 ratio screen reduces the need to scroll by showing more vertical content than 16:9
- Optional ultrabright displays with HP Eye Ease, ambient light and ambient color sensors
- New 5MP camera4 with HP Auto Frame8 allows you around a little without losing viewers' attention during video calls
- New DDR5 5600 memory and PCI Gen4 SSDs provide fast access to your work.
- Choice of displays:
  - 35.6 cm (14") diagonal WUXGA IPS Anti-Glare LED-backlit, 250 nits, 45% NTSC
    35.6cm (14") diagonal WUXGA IPS Anti-Glare On-Cell LED-backlit touch, 250 nits, 45% NTSC
    35.6 cm (14") diagonal WUXGA IPS Anti-Glare LED-backlit non-touch 400 nits, 100% sRGB
    35.6cm (14") diagonal WUXGA IPS Anti-Glare LED-backlit non-touch, 1000 nits, 100% sRGB with HP Sure View Reflect
- Redesigned keyboard layout to include easy use of discrete PgUp/Dn, End, and Home keys
- Choose from 38Whr or 51Whr battery options
- HP Wolf Security for Business creates a hardware-enforced, always-on, resilient defense.
- Larger Clickpad surface for easier, more intuitive input
- Connectivity with optional 4G LTE WWAN available, and USB-C Docking (Dock sold separately)
- Undergoes MIL-STD 810H tests<sup>1</sup>
- Supports fast charging (50% in 30 minutes) with no impact on battery recharge cycles
- Larger Clickpad surface for easier, more intuitive input
- Can be wiped up to 10,000 times with germicidal cleaning wipes<sup>2</sup>
- 1. MIL-STD 810H is not intended to demonstrate fitness of U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.
- 2. Approved germicidal wipes for use on Select HP Platforms https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-9819ENW

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



# **Technical Specifications**

#### **PRODUCT NAME**

HP EliteBook 845 14 inch G10 Notebook PC

#### **OPERATING SYSTEMS**

**Preinstalled** Windows 11 Pro <sup>1</sup>

Windows 11 Pro Education 1

Windows 11 Home - HP recommends Windows 11 Pro for Business1

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

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

Agreement) 1

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

FreeDOS

- 1. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.
- 2. This system is preinstalled with Windows 10 Pro software and also comes with a license for Windows 11 Pro software and provision for recovery software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.

#### **PROCESSORS**

Processor 3,4,5,6	Cores	Threads	L3 Cache	Max Boost Frequency <sup>5</sup>	Base Frequency	Pro
AMD Ryzen™ 9 PRO 7940HS	8	16	16MB	5.20 GHz	4.00 GHz	Х
AMD Ryzen™ 7 PRO 7840HS	8	16	16MB	5.10 GHz	3.80 GHz	Х
AMD Ryzen™ 7 PRO 7840U	8	16	16MB	5.10 GHz	3.30 GHz	Х
AMD Ryzen™ 5 PRO 7540U	6	12	16MB	4.90 GHz	3.50 GHz	Х
AMD Ryzen™ 7-7840U	8	16	16MB	5.10 GHz	3.30 GHz	
AMD Ryzen™ 5-7540U	6	12	16MB	4.90 GHz	3.50 GHz	

- 3. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.
- 4. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
- 5. Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.
- 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

AMD Radeon™ Graphics7

#### Supports

Support HW decode, DX12, HDMI 2.1, HDCP 2.3

7. HD content required to view HD images.

#### **DISPLAY**

#### **Non-Touch**

35.6 cm (14") diagonal WUXGA Bent, anti-glare UWVA eDP1.2, micro-edge, 250 nits, 45% NTSC, Narrow Bezel (1920 x 1200)<sup>7,8</sup>

35.6 cm (14") diagonal WUXGA Bent, anti-glare UWVA, 250 nits, 45% NTSC for 5MP camera for WWAN (1920 x 1200) 7.8

35.6 cm (14") diagonal WUXGA Bent, anti-glare UWVA, 250 nits, 45% NTSC for 5MP+IR camera for WWAN (1920 x 1200) 7.8

35.6 cm (14") diagonal WUXGA Bent, anti-glare UWVA, 250 nits, 45% NTSC for 5MP+IR camera (1920 x 1200) 7.8

35.6 cm (14") diagonal WUXGA Bent, anti-glare UWVA, 250 nits, 45% NTSC for 5MP camera (1920 x 1200) 7.8

35.6 cm (14") diagonal WUXGA Bent, an [8,9,10]ti-glare UWVA, 250 nits, 45% NTSC for WWAN (1920 x 1200) 7.8

35.6 cm (14") diagonal WUXGA Bent, anti-glare UWVA eDP1.2, micro-edge, no-mic, 250 nits, 45% NTSC, Narrow Bezel (1920 x 1200) 7,8

35.6 cm (14") diagonal WUXGA Bent, Low Blue Light, anti-glare UWVA eDP+PSR, 400 nits, 100% sRGB, Low Power, Ambient Light Sensor for 5MP Camera (1920 x 1200) with HP Eye Ease <sup>7,8</sup>

35.6 cm (14") diagonal WUXGA Bent, Low Blue Light, anti-glare UWVA eDP+PSR, 400 nits, 100% sRGB, Low Power, Ambient Light Sensor for 5MP+IR Camera (1920 x 1200) with HP Eye Ease 7,8

35.6 cm (14") diagonal WUXGA Bent, Low Blue Light, anti-glare UWVA eDP+PSR, 400 nits, 100% sRGB, Low Power, Ambient Light Sensor for 5MP+IR Camera for WWAN (1920 x 1200) with HP Eye Ease <sup>7,8</sup>

35.6 cm (14") diagonal, WQXGA, anti-glare UWVA, HP DreamColor eDP 1.4+PSR, micro-edge, 500 nits, Narrow Bezel for 5MP Webcam + IR camera (2560 x 1600) 7.8

35.6 cm (14") diagonal, WQXGA, anti-glare UWVA, HP DreamColor eDP 1.4+PSR, micro-edge, 500 nits, Narrow Bezel for 5MP Webcam + IR camera for WWAN (2560 x 1600) 7,8

35.6 cm (14") diagonal WUXGA Bent, Low Blue Light, anti-glare UWVA eDP1.3+PSR, 1000 nits, 100% sRGB with HP Sure View Reflect integrated privacy screen, Ambient Light Sensor for 5MP camera (1920 x 1200) with HP Eye Ease <sup>7,8,9,10</sup>

35.6 cm (14") diagonal WUXGA Bent, Low Blue Light, anti-glare UWVA eDP1.3+PSR, 1000 nits, 100% sRGB with HP Sure View Reflect integrated privacy screen, Ambient Light Sensor for 5MP+IR camera (1920 x 1200) with HP Eye Ease 7,8,9,10

35.6 cm (14") diagonal WUXGA Bent, Low Blue Light, anti-glare UWVA eDP1.3+PSR, 1000 nits, 100% sRGB with HP Sure View Reflect integrated privacy screen, Ambient Light Sensor 5MP+IR camera for WWAN (1920 x 1200) with HP Eye Ease<sup>7,8,9,10</sup>



#### Touch

35.6 cm (14") diagonal WUXGA Bent, anti-glare UWVA, 250 nits, 45% NTSC for 5MP+IR camera Touch on Panel (1920 x 1200)<sup>7,8,10</sup>

35.6 cm (14") diagonal WUXGA Bent, anti-glare UWVA, 250 nits, 45% NTSC for 5MP+IR camera for WWAN Touch on Panel (1920 x 1200) 7,8,10

#### DisplayPort™ 1.2

Support HW decode, DX12, HDMI 2.1, HDCP 2.3 via HDMI/DP up to 4K@60Hz

#### **Displays support**

Supports 4 independent displays through the dock.

#### **Display Size (Diagonal)**

14"

35.6 cm (14")

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

#### **DOCKING (Sold Separately)**

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

**Docking station model #3** HP USB-C Dock G5

**Docking station model #4** HP USB-C/A Universal Dock G2 For additional aftermarket options and docking specs please see page 36.

#### STORAGE AND DRIVES

#### **Primary M.2 Storage**

1 TB PCle 2280 OPAL2 NVME TLC SSD 11

1 TB PCle 2280 NVMe TLC SSD 11

2 TB PCle 2280 NVMe TLC SSD 11

512 GB PCle 2280 OPAL2 NVME TLC SSD 11

512 GB PCle NVMe Value SSD 11

512 GB PCle NVMe TLC SSD 11

256 GB PCle 2280 OPAL2 NVMe Val SSD

256 GB PCle NVMe Value SSD 11

11. 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.



# **Technical Specifications**

#### **MEMORY**

#### **Maximum Memory**

64GB DDR5-5600 (2 x 32 GB) 12

#### Memory

64GB DDR5-5600 (2 x 32 GB) <sup>12</sup>
32GB DDR5-5600 (2 x 16 GB) <sup>12</sup>
32GB DDR55600 (1 x 32 GB) <sup>12</sup>
16GB DDR5-5600 (2 x 8 GB) <sup>12</sup>
16GB DDR55600 (1 x 16 GB) <sup>12</sup>
8GB DDR55600 (1 x 8 GB) <sup>12</sup>

#### Memory Slots<sup>13</sup>

2 SODIMM

**Supports Dual Channel Memory** 

- 12. 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.
- 13. All slots are non-accessible / non-upgradeable.

#### **NETWORKING/COMMUNICATIONS**

#### **WLAN**

Mediatek RZ616 Wi-Fi 6E Bluetooth® 5.3 AIM-T WLAN Wireless Card <sup>14</sup>
Realtek 8852CE Wi-Fi 6E + Bluetooth® 5.3 M.2 2230 PCI-e+ USB WLAN Wireless Card <sup>14</sup>

#### **WWAN**

Intel® XMM 7560 R+ LTE-Advanced Pro WWA <sup>15</sup> Intel® 5000 5G Solution WWAN <sup>15,16</sup>

#### NFC

NFC Mirage WNC XRAV-1

#### Miracast

Native Miracast Support 17

- 14. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.
- 15. WWAN module is optional, must be configured at the factory, 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. 4G LTE not available on all products, in all regions.
- 16. Intel® 5G module is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards



compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported.

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

#### **AUDIO/MULTIMEDIA**

#### Audio

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

#### **Speaker Power**

2W/4ohm Per speaker

#### Camera

Dual Array Digital Microphone 5MP USB2 Narrow Field of View Integrated Camera
Dual Array Digital Microphone 5MP USB2 Infrared Narrow Field of View Integrated Camera
5 MP + IR camera for face authentication with Windows Hello

#### **KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS**

#### Keyboard

HP Premium Keyboard, spill resistant with optional Backlit keyboard 18

#### **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)

#### **Hidden Function Keys**

Fn+R - Break

Fn+S - Sys Rq

Fn+C - Scroll Lock



# **Technical Specifications**

18. Backlit keyboard is an optional feature.

#### **SOFTWARE AND SECURITY**

#### **Preinstalled Software**

#### **Software**

HP Easy Clean 19

**HP PC Hardware Diagnostics Windows** 

myHP

HP Smart Support 20

HP Services Scan 21

**HP Connection Optimizer** 

**HP Hotkey Support** 

HP Support Assistant 22

**HP Notifications** 

**HP Privacy Settings** 

HP Power Manager<sup>23</sup>

Microsoft Office sold separately and requires Internet access for activation

#### **Manageability Features**

HP Connect 24

HP Image Assistant Gen5 (download)

HP Manageability Integration Kit (download) 25

HP Client Management Script Library (download)

HP Patch Assistant (download) 26

HP Driver Packs (download)

**HP Client Catalog (download)** 

HP Cloud Recovery 27

#### **Security Management**

HP Wolf Security for Business 28 includes:

HP Sure Click 29

HP Sure Sense 30

HP Sure Run 31

HP Sure Recover 32

HP Sure Start 33

HP Tamper Lock 34

HP Sure Admin 35

#### **BIOS**

HP BIOSphere Gen6 36

HP Secure Erase 37

Absolute Persistence Module 38

**BIOS Update via Network** 

HP Wake on WLAN

Secured-Core PC Enable 39

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

HP Fingerprint Sensor 40



# **Technical Specifications**

#### Security TPM

Model: Nuvoton NPCT760HABYX

Version: 7.2.3.1 Revision: TPM 2.0

FIPS 140-2 Compliant: Yes

#### **Smartcard Reader**

Model number: Alcor AU9560 FIPS 201 Compliant: Yes

#### **IPv6 Support**

Yes

#### FirstNet Certified

Yes

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

**UEFI** version: 2.7

Class: 3

- 19. HP Easy Clean requires Windows 10 RS3 and higher and will disable the keyboard, touchscreen, and clickpad only. Ports are not disabled. See user guide for cleaning instructions
- 20. HP Smart Support requires HP TechPulse to be installed. For more information about how to enable or to download HP Smart Support, please visit http://www.hp.com/smart-support.
- 21.HP Services Scan is provided with Windows Update on select products and will check entitlement on each hardware device to determine if an HP TechPulse-enabled service has been purchased, and will download applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP TechPulse follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access with connection to TechPulse portal is required. For full system requirements or to disable this feature, please visit http://www.hpdaas.com/requirements. Not applicable in China.
- 22. HP Support Assistance requires Windows and Internet Access
- 23. HP Power Manager requires Windows 10 and higher and can be downloaded from the Microsoft Store.
- 24. HP Connect for Microsoft Endpoint Manager is available from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager. Subscription to Microsoft Endpoint Manager required and sold separately. Network connection required.
- 25. HP Manageability Integration Kit can be downloaded from
- http://www8.hp.com/us/en/ads/clientmanagement/overview.html.
- 26. HP Patch Assistant available on select HP PCs with the HP Manageability Kit that are managed through Microsoft System Center Configuration Manager. HP Manageability Integration Kit can be downloaded from
- http://www8.hp.com/us/en/ads/clientmanagement/overview.html.
- 27. HP Cloud Recovery is available for Z by HP, HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, wired network connection. **NOTE:** You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Details please refer to: https://support.hp.com/us-en/document/c05115630.
- 28. HP Wolf Security for Business requires Windows 10 or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features and OS requirement.
- 29. HP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://bit.ly/2PrLT6A\_SureClick for complete details.



# **Technical Specifications**

- 30. HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS
- 31. HP Sure Run Gen5 is available on select HP PCs and requires Windows 10 and higher.
- 32. HP Sure Recover Gen5 with Embedded Reimaging is an optional feature which requires Windows 10 and higher must be configured at purchase. You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Network based recovery using Wi-Fi is only available on PCs with Intel Wi-Fi Module
- 33. HP Sure Start Gen7 is available on select HP PCs and requires Windows 10 and higher
- 34. HP Tamper Lock must be enabled by the customer or your administrator
- 35. HP Sure Admin requires Windows 10 or higher, HP BIOS, HP Manageability Integration Kit from http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store
- 36. HP BIOSphere Gen6 features may vary depending on the platform and configuration.
- 37. 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™.
- 38. 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/
- 39. Secured-Core PC Enable requires an Intel® vPro®, AMD Ryzen™ Pro processor or Qualcomm® processor with SD850 or higher and requires 8 GB or more system memory. Secured-core PC is enabled from the factory.
- 40. HP Fingerprint sensor is an optional feature that must be configured at purchase.



#### **POWER**

#### **Power Supply**

HP Smart 65 W USB Type-C adapter 41

#### **Battery**

HP Long Life 3-cell, 38 Wh Polymer <sup>42,43</sup> HP Long Life 3-cell, 51 Wh Polymer <sup>42,43</sup>

#### **Power Cord**

3-wire plug - 1m <sup>41</sup> 2-wire plug - 1m<sup>41</sup>

#### **Battery Life**

Up to XX 44

- 41. Availability may vary by country.
- 42. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 43. 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.
- 44. MM18 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.

#### **WEIGHTS & DIMENSIONS**

Product Weightt 45

Starting at 2.93lb Starting at 1.33kg

#### Product Dimensions (W x D x H)

12.42 x 8.82 x 0.76 in 31.56 x 22.4 x 1.92 cm

45. Weight will vary by configuration. Does not include power adapter.



### **Technical Specifications**

#### **PORTS/SLOTS**

- 2 USB4 Type-C<sup>®</sup> 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)<sup>46</sup>
- 2 Super Speed USB Type-A 5Gbps signaling rate (1 charging)
- 1 HDMI 2.1 47
- 1 Headphone/microphone combo jack
- 46. SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.
- 47. HDMI cable sold separately.

#### **SERVICE AND SUPPORT**

1-year warranty and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty. 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.<sup>48</sup>

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



#### **SYSTEM UNIT**

**Stand-Alone Power Requirements** Type-C Adapter

(AC Power)

Nominal Operating Voltage AC 20V

**Average Operating Power** 

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

**Temperature** 

Operating 32° to 95° F (0° to 35° C)

(No sustained direct exposure to sunlight)

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

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

**Relative Humidity** 

Operating 10% to 90% (non-condensing)

Non-operating 5% to 95%

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

Shock

Operating 40 G, 2 ms, half-sine Non-operating 200 G, 2 ms, half-sine

**Random Vibration** 

Operating 1.043 grams
Non-operating 3.5 grams

Altitude (unpressurized)

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

**Planned Industry Standard** 

Certifications

Regulatory Model Number HSN-149C-4

CSA/UL 62368-1 Yes ENERGY STAR® Yes <sup>49</sup>

EPEAT® Gold in the United States 50

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

Related commodity should comply with ISO 9241 Standards.

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



49. Configurations of the HP EliteBook 845 14 inch G10 Notebook PC that are ENERGY STAR® qualified are identified as HP EliteBook 845 14 inch G10 Notebook PC cording to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit http://www.epeat.net for more information.

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

#### **DISPLAYS**

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

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

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

Outline Dimensions (W x H x D) 301.590 x 188.500 (typ) **Active Area** 307.590 x 199.550 (max)

Weight 300 (max)

**Diagonal Size** 14

**Surface Treatment** Anti-Glare

**Touch Enabled** No

**Contrast Ratio** 1000:1(typ) **Refresh Rate** 60 Hz **Brightness** 250 nits1

**Pixel Resolution - Format** 1920 x 1200 (WUXGA)

**Backlight WLED Pixel Resolution RGB** 

**Color Gamut Coverage NTSC 45%** 

Color Depth 8

UWVA 89/89/89/89 **Viewing Angle** 

**Low Blue Light** No

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

2.20 (max) / 2.70 (max)

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

Outline Dimensions (W x H x D) 301.590 x 188.500 (typ)

**Active Area** 307.590 x 199.550 (max)

Weight 300 (max)

**Diagonal Size** 14

**Surface Treatment** Anti-Glare **Touch Enabled** Yes1

**Contrast Ratio** 1000:1(typ) **Refresh Rate** 60 Hz **Brightness** 250 nits1

**Pixel Resolution - Format** 1920 x 1200 (WUXGA)



BacklightWLEDPixel ResolutionRGB

**Color Gamut Coverage** NTSC 45%

Color Depth 8

Viewing Angle UWVA 89/89/89

Low Blue Light No

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

2.10 (max) / 2.60 (max)

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

 Outline Dimensions (W x H x D)
 301.590 x 188.500 (typ)

 Active Area
 307.590 x 199.550 (max)

Weight 210 (max)

Diagonal Size 14

**Surface Treatment** Anti-Glare

**Touch Enabled** No

Contrast Ratio1000:1(typ)Refresh Rate60 HzBrightness400 nits1

**Pixel Resolution - Format** 1920 x 1200 (WUXGA)

BacklightWLEDPixel ResolutionRGB

Color Gamut Coverage sRGB 100%

Color Depth 8

Viewing Angle UWVA 89/89/89

**Low Blue Light** Yes

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

1.29 (max) / 1.66 (max)

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

 Outline Dimensions (W x H x D)
 301.680 x 188.500 (typ)

 Active Area
 307.600 x 199.550 (max)

Weight 238 (max)

**Diagonal Size** 14

Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio 1500:1 (typ)
Refresh Rate 60 Hz
Brightness 1000 nits<sup>1</sup>

Pixel Resolution - Format 1920 x1200 (WUXGA)

Backlight WLED



**Pixel Resolution RGB** 

**Color Gamut Coverage** sRGB 100%

**Color Depth** 8

UWVA 85/85/85/85 **Viewing Angle** 

**Low Blue Light** Yes

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

N/A

14.0 in WQXGA DRM (2560 x Outline Dimensions (W x H x D) 1600) Anti-Glare UWVA LED Active Area DCI-P3 NB2X 500 eDP 1.4+PSR2 100 120Hz bent **LCD Panel** 

301.594 x 188.496 (tvp) 307.594 x 199.546 (max)

Weight 230 (max)

**Diagonal Size** 14

**Surface Treatment** Anti-Glare

**Touch Enabled** No

**Contrast Ratio** 1200:1(typ) **Refresh Rate** 120 Hz **Brightness** 500 nits1

**Pixel Resolution - Format** 2560 x1600 (WQXGA)

**Backlight WLED Pixel Resolution** RGB

**Color Gamut Coverage** DCI-P3 100%

**Color Depth** 8

**Viewing Angle** UWVA 89/89/89/89

**Low Blue Light** Nο

Power Consumption (W, EBL@ 2.88 (max) / 3.44 (max) 150nits max/ 200nits max)

#### STORAGE AND DRIVES

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

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

InterfacePCIe NVMe Gen4X4Maximum Sequential Read6400 MB/s ±20%Maximum Sequential Write5000 MB/s ±20%Logical Blocks2,000,409,264FeaturesPyrite 2.0; TRIM; L1.2

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

 Interface
 PCIe NVMe Gen4X4

 Maximum Sequential Read
 6400 MB/s ±20%

 Maximum Sequential Write
 5000 MB/s ±20%

 Logical Blocks
 4,000,797,360

 Features
 Pyrite 2.0; TRIM; L1.2

256GB PCIe 2280 NVMe Self Encrypted OPAL2 Value Solid State Drive Form Factor M.2 2280
Capacity 256GB
NAND Type TLC

InterfacePCIe NVMe Gen4X4Maximum Sequential Read2000 MB/s ±20%Maximum Sequential Write900 MB/s ±20%Logical Blocks500,118,192

Features TCG Opal 2.0; TRIM; L1.2

512GB PCIe-4x4 2280 NVME Self Encrypted OPAL2 Three Layer Cell Solid State Drive Form Factor M.2 2280
Capacity 512GB
NAND Type TLC

InterfacePCIe NVMe Gen4X4Maximum Sequential Read6400 MB/s ±20%Maximum Sequential Write3500 MB/s ±20%Logical Blocks1,000,215,215

Features TCG Opal 2.0; TRIM; L1.2

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

Capacity1TBNAND TypeTLC

InterfacePCIe NVMe Gen4X4Maximum Sequential Read6400 MB/s ±20%Maximum Sequential Write5000 MB/s ±20%Logical Blocks2,000,409,264

Features TCG Opal 2.0; TRIM; L1.2

SSD 256GB 2280 PCIe NVMe Value Form Factor M.2 2280
Capacity 256 GB
NAND Type TLC

InterfacePCIe NVMe Gen4X4Maximum Sequential Read2000 MB/s ±20%Maximum Sequential Write900 MB/s ±20%Logical Blocks500,118,192

**Features** Pyrite 2.0; TRIM; L1.2

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

**Features** 

InterfacePCIe NVMe Gen4X4Maximum Sequential Read2200 MB/s ±20%Maximum Sequential Write1000 MB/s ±20%Logical Blocks1,000,215,215

Pyrite 2.0; TRIM; L1.2

#### NETWORKING/COMMUNICATIONS

NETWORKING/COMM	NUNICATIONS	
Realtek RTL8852CE 802.11ax 2x2 Wi-Fi 6E + Bluetooth® 5.3 Wireless Card¹ (802.11ax 2x2, supporting gigabit data rate)	Wireless LAN Standards	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 802.11h IEEE 802.11i IEEE 802.11k
	Interoperability	Wi-Fi certified
	Frequency Band	•802.11b/g/n/ax 2.402 – 2.482 GHz •802.11a/n/ac/ax 5.15 – 5.25 GHz 5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz
	Data Rates	<ul> <li>802.11b: 1, 2, 5.5, 11 Mbps</li> <li>802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)</li> <li>802.11ac: MCS0 ~ MCS9, (20MHz, 40MHz, ,80MHz &amp; 160MHz)</li> <li>802.11ax: MCS0 ~ MCS11, (20MHz, 40MHz, ,80MHz &amp; 160MHz)</li> </ul>
	Modulation	Direct Sequence Spread Spectrum OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
	Security <sup>2</sup>	<ul> <li>IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g mode only</li> <li>AES-CCMP: 128 bit in hardware</li> <li>802.1x authentication</li> <li>WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.</li> <li>WPA2 certification</li> <li>WPA3 (personal) certification</li> <li>IEEE 802.11i</li> <li>WAPI</li> <li>EAP</li> </ul>
	Network Architecture	Ad-hoc (Peer to Peer)

Models Roaming Infrastructure (Access Point Required)

**Roaming** IEEE 802.11 compliant roaming between access points

• 802.11b: +17dBm minimum

• 802.11g: +16dBm minimum • 802.11g: +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
802.11ax HE80(5GHz): +10dBm minimum

802.11ax HE160(5GHz): +10dBm minimum
 802.11ax HE80(6GHz): +10dBm minimum

• 802.11ax HE160(6GHz): +10dBm minimum

Power Consumption • Transmit mode :2.5 W

• Receive mode: 2 W

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

Radio disabled: 8 mW

**Power Management** ACPI and PCI Express compliant power management

802.11 compliant power saving mode

**Receiver Sensitivity<sup>4</sup>** •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

•802.11n, 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(HE80): -53.5dBm maximum

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

enclosure

Two embedded dual band 2.4/5/6 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications

Form Factor PCI-Express M.2 MiniCard

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

2. Type 1216: 1.67 x 12.0 x 16.0 mm

**Weight** 1. Type 2230 : 2.8g

2. Type 1216: 1.3g

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 60% (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 N/A

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

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



**Frequency Band** 2402 to 2480 MHz

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

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

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

channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps

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

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

a maximum transmit power of + 4 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 & 15.407

**Power Management** ETS 300 328

Low Voltage Directive

Certifications **CE Mark** 

**Bluetooth Profiles** 

BT4.1-ESR 5/6/7 Compliance Supported 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

Windows BT profiles support



#### HP EliteBook 845 14 inch G10 Notebook PC

# **Technical Specifications**

BT5.3

Periodic Advertisement interval Encryption key size control enhancements

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



Mediatek RZ616 Wi-Fi 6E Wireless LAN Standards IEEE 802.11a
+ Bluetooth® 5.3 Wireless IEEE 802.11b
Card¹ (802.11ax 2x2, IEEE 802.11g
supporting gigabit data IEEE 802.11a
rate) IEEE 802.11a

IEEE 802.11ac
IEEE 802.11ax
IEEE 802.11d
IEEE 802.11e
IEEE 802.11h
IEEE 802.11i
IEEE 802.11j
IEEE 802.11k
IEEE 802.11mc
IEEE 802.11r
IEEE 802.11v
IEEE 802.11w

Interoperability Wi-Fi certified

Frequency Band •802.11b/g/n/ax

2.402 – 2.482 GHz •802.11a/n/ac/ax 5.15 – 5.25 GHz 5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz 5.925 – 7.125 GHz

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

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

802.11ac: MCS0 ~ MCS9, (20MHz, 40MHz, ,80MHz & 160MHz)
 802.11ax: MCS0 ~ MCS11, (20MHz, 40MHz, ,80MHz & 160MHz)

**Modulation** Direct Sequence Spread Spectrum

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

• IEEE and WiFi certified 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 (personal) certification

• IEEE 802.11i

WAPI

**Network Architecture** 

dala

Models

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

**Roaming** IEEE 802.11 compliant roaming between access points

Output Power <sup>3</sup> 2.4GHz (MIMO, typical):

• 802.11b: +18dBm • 802.11q: +16.5dBm

• 802.11n/ac/ax (HT20/VHT20/HE20): +16dBm

802.11n/ac/ax (HT40/VHT40/HE40): +12.5dBm

#### 5GHz (MIMO, typical):

- 802.11a: +13dBm
- 802.11n/ac/ax (HT20/VHT20/HE20): +13.5dBm 802.11n/ac/ax (HT40/VHT40/HE40): +12.5dBm
- 802.11ac/ax (VHT80/HE80): +11.5dBm
- 802.11ax HE160: +11.5dBm

#### 6GHz LPI mode (MIMO, typical):

- 802.11a: 0dBm
- 802.11ax HE20: +1dBm • 802.11ax HE40: +4dBm 802.11ax HE80: +7dBm
- 802.11ax HE160: +7.5dBm

#### **Power Consumption**

- Transmit mode: 2.5 W
- Receive mode: 2 W
- Idle mode (PSP) 180 mW (WLAN Associated) • Idle mode:50 mW (WLAN unassociated) Connected Standby/Modern Standby: 10mW
- Radio disabled: 8 mW

#### **Power Management**

ACPI and PCI Express compliant power management

802.11 compliant power saving mode

#### Receiver Sensitivity 4

2.4GHz (SISO):

- •802.11b, 11Mbps: -82dBm maximum 802.11q, 54Mbps: -71dBm maximum 802.11n, MCS7: -64dBm maximum • 802.11ac, MCS9: -52dBm maximum
- •802.11ax, MCS11(HT40): -49dBm maximum

#### 5GHz (SISO):

- 802.11a, 54Mbps: -71dBm maximum • 802.11n, MCS07: -64dBm maximum 802.11ac, MCS9: -52dBm maximum
- •802.11ax, MCS11(HE80/HE160): -46dBm maximum

#### 6GHz (SISO):

- 802.11a, 54Mbps: -71dBm maximum 802.11n, MCS7: -64dBm maximum • 802.11ac, MCS9: -52dBm maximum
- •802.11ax, MCS11(HE160): -46dBm maximum

#### Antenna type

High efficiency antenna with spatial diversity, mounted in the display

enclosure

Two embedded dual band 2.4/5/6 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications

#### **Form Factor** PCI-Express M.2 MiniCard

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

2. Type 1216: 1.67 x 12.0 x 16.0 mm



Weight 1. Type 2230: 2.8q

2. Type 1216: 1.3g

**Operating Voltage** 3.3v +/- 9%

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

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

**Humidity** Operating 10% to 60% (non-condensing)

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

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

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

**LED Activity** N/A

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

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

**Frequency Band** 2402 to 2480 MHz

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

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

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

channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps

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

**Transmit Power** The Bluetooth component shall operate as a Class 1.5 Bluetooth device

with a maximum transmit power of + 14 dBm and 10 dBm for BR and EDR,

respectively.

**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 & 15.407

**Power Management** ETS 300 328

Low Voltage Directive

Certifications **CE Mark** 

**Bluetooth Profiles** BT4.1-ESR 5/6/7 Compliance Supported

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

Windows BT profiles support

BT5.3

Periodic Advertisement interval

Encryption key size control enhancements

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



Intel® (R) 5G Solution 5000¹

Technology/Operating bands

WCDMA/HSPA+ operating bands:

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

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

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

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

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

LTE FDD/TDD operating bands:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Band 29: 717 to 728 MHz (DL)

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

Band 32: 1452 to 1496 MHz (DL)

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

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

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

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

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

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

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

Band 46: 5150 to 5925 MHZ (DL)

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

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

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

5GNR Sub 6GHZ

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

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

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

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

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

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

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

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

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

n38: 2570 to 2620 MHz (UL/DL)



n40: 2300 to 2400 MHz (UL/DL) n41: 2496 to 2690 MHz (UL/DL) n48: 3550 to 3700 MHZ (UL/DL)

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

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

Wireless protocol standards

5GNR Air Interface 3GPP Rel15 5G NR sub-6

LTE Rel14

20 layers and 2 Gbps downlink (DL) throughput  $-4 \times 4$  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) QZSS(1575.42 MHz)

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

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

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

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

LTE B41 HPUE = 26dBm

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

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

HSPA+: 23.5 dBm

Maximum power 5G Sub 6: 2500 mA

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

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

Form Factor M.2, 3052-S3 Key B

Weight 8 g

**Dimensions** 52 mm × 30 mm × 2.3 mm

(Length x Width x

Thickness)

embedded eSIM Support

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



compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries. where carrier supported.

Intel® XMM™ 7560 R+ LTE- Technology/Operating Advanced Pro 1

bands

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

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

(Band 30), 1700/2100 (Band 66), 600 (band 71).

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

5200 (Band 46 RX only) MHz:

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

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

Wireless protocol

standards

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

throughput up to 978Mbps; UL-CAT.13 40MHz throughput up to 150Mbps

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

**GPS** Standalone GPS/Beidou/Glonass, A-GPS (MS-A, MS-B)

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

Maximum data rates LTE: 978 Mbps (Download), 150 Mbps (Upload)

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

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

> LTE B41 HPUE = 26dBm HSPA+: 23.5 dBm

Maximum power

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

**Form Factor** M.2, 3042-S3 Key B

Weight 6 g

**Dimensions** 42 x 30 x 2.3 mm

(Length x Width x

Thickness)

embedded eSIM Support

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



NFC NXP NPC300 Dimensions (L x W x H) 17 x 10 x 2.0 mm

> Chipset **NPC300 System interface** I2C

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

ECMA-340 NFCIP-1 Target and Initiator

**NFC RF standards** ECMA-320 NFCIP-2

**NFC Forum Support** 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

Reader (PCD-VCD) Mode Jewel and Topaz cards

ISO/IEC 14443 A

ISO/IEC 14443 B and B'

Card Emulation (PICC-VICC) MIFARE

Mode FeliCa Frequency 13.56 MHz

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

0°C to 70°C Operating temperature Storage temperature -20°C to 125°C 10-90% operating

**Humidity** 5-95% non-operating Supply Operating voltage 4.35 to 5.25 Volts

I/O Voltage

1.8V or 3.3V **Power Consumption** 

(Booster enable. VBAT= 3.3V.

 $VCC_BOOST = 5V$ 

Mode Power Consumption, Typical

7.3 mA Polling

Total 283.8 mA

**Detected Test Tag Type 1** Net Module 236.8 mA

Total 288.8 mA

Net Module 241.8 mA **Detected Test Tag Type 2** 

Total 287.7 mA

**Detected Test Tag Type 3** Net Module 240.7 mA

Total 282.3 mA

**Detected Test Tag Type 4** Net Module 235.3 mA

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

Antenna matching is external to module.



#### **POWER**

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

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

Straight 1.8m

Output

3.543 x 2.008 x 1.122 in (9.0x5.1x2.85cm)

Weiaht 0.53 lb (240 g) max

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

Input 100-240Vac

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

> > load condition with 115Vac/230Vac Spec:

5V:81.5% 9V:86.7% 12V:88.0% 15V:89.0% 20V:89.0%

Input frequency range 47-63Hz

**Input AC current** Max. 1.6 A at 90 Vac

**Output power** 5V/15W

> 9V/27W 12V/60W 15V/65W 20V/65W

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

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

**Output current limit** < 8.0A

Connector USB Type-C®

**Environmental Design** Operating

32°F to 95°F (0°to 35°C) temperature

Non-operating (storage)

temperature

-4°F to 185°F (-20°to 85°C)

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

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

**EMI and Safety** Certifications

CE Mark - full compliance with LVD and EMC directives

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

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

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

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

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

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

Weight

Output

0.49 lb (220 g) max

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

**Input** 100-240Vac

Input Efficiency Avera

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

load condition with 115Vac/230Vac Spec:

5V: 81.5% 9V: 86.7% 12V: 88.0% 15V: 89.0% 20V: 89.0%

**Input frequency range** 47-63Hz

Input AC current Max. 1.6 A at 90 Vac

Output power 5V/15W

9V/27W 12V/60W 15V/65W 20V/65W

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

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

Output current limit < 8.0A

**Connector** USB TYPE C®

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

temperature

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

temperature

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

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 IEC62368-1: 2018,

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HP 3-cell Long Life Li-Ion Weight (WP 38Wh)1

0.184kg +/- 10g (0.406lb)

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

11.58V Energy Voltage

> Amp-hour capacity 3.283Ah

Watt-hour capacity1 38Wh

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

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

**Optional Travel Battery** No

**Available** 

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

HP 3-cell Long Life Li-Ion Weight

0.178kg +/- 10g (0.392lb)

(WQ 38Wh)1

Cells/Type 3cell Lithium-Ion Polymer cell / 604975

Energy Voltage 11.55V

> Amp-hour capacity 3.291Ah Watt-hour capacity<sup>1</sup> 38Wh

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

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

Optional Travel 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

HP 3-cell Long Life Li-Ion Weight

0.229kg +/- 10g (0.505 lb)

(51 Wh)1

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

Voltage 11.58V Energy

> Amp-hour capacity 4.431Ah Watt-hour capacity<sup>1</sup> 51.3Wh

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

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

Optional Travel Battery No

Available

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



**AUDIO** 

HD Stereo Codec Realtek ALC3315

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

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

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

Following MSFT Behaviour

Sampling DAC:48kHz

ADC:48kHz

**Wavetable Syntheses** 

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

# of Channels on Line-Out

Internal Speaker Yes

FINGERPRINT READER

**Sensor vendor** Main source : Synaptics FS7605

2nd source: ELAN 80SW

Sensor type Capacitive

**DPI resolution** Main source : 363 DPI

2nd source: 508 DPI

**Scan area** Main source : 104 x 86 pixels

2nd source: 80x80 pixels

False Rejection Rate FRR=≤ 3%

False Acceptance Rate Main source : FAR 1/100K

2nd source: < 0.001%

Mobile Voltage Operation Main source: 3.0V to 3.6V

2nd source: 2.7V~3.6V

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

2nd source : -20°C - +80°C

Current Consumption Main source : 100mA max

Image 2nd source: 35mA peak

Low Latency Wait For Main source : 260uA

**Finger** 2nd source : 300uA

**Capture Rate** Main source : Image transmitter output frequency 9.6MHz

2nd source : 50 frame/sec

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

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

2nd source: 508 dpi / 4x4mm sensor area

#### **COUNTRY OF ORIGIN**

China



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

HP Thunderbolt 120W G4 Dock

#### **DOCKING (Sold Separately)**

Docking station model #1

Total number of supported displays

(incl. the notebook display)

Max. resolutions supported

Quad 4K @60Hz

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

mode

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

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

capability of the notebook.

Thunderbolt Hosts:

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

Thunderbolt host.

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

Non-Thunderbolt hosts:

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

multi-function mode is

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

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

(1) 4K UHD @ 30Hz.

Docking station model #2

Total number of supported displays

(incl. the notebook display)
Max. resolutions supported

**Technical limitations** 

HP Thunderbolt 280W G4 Dock

4

Quad 4K @60Hz

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

mode

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

Maximum resolution and display support is dependent on the maximum

capability of the notebook.

Thunderbolt Hosts:

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

Thunderbolt host.

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

Non-Thunderbolt hosts:

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

multi-function mode is

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

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

(1) 4K UHD @ 30Hz.



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

Docking station model #3

Total number of supported displays

(incl. the notebook display)

Max. resolutions supported

**Dock Connectors** 

**Technical limitations** 

HP USB-C Dock G5

3

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

1xHDMI. 2xDP

Maximum resolution and display support is dependent on the maximum

capability of the notebook.

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

mode.

3

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

UHD@ 30 Hz on HDMI in Multi-function mode

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

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

Docking station model #4

Total number of supported displays

(incl. the notebook display)

Max. resolutions supported

Dual 4K @ 60Hz Single 5K @ 60Hz

**Dock Connectors** 1xHDMI, 2xDP

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

HP USB-C/A Universal Dock G2

capability of the notebook.

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

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

host.



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

Туре	Description	Part Number
Audio	HP Wired USB-A Stereo Headset	428K6AA
	HP Wired 3.5mm Stereo Headset	428K7AA
	HP 365 BT Speaker	567D3AA#ACJ
Video	HP 325 FHD USB-A Webcam	53X27AA
	HP 965 4K USB-A STR Webcam	695J5AA
Docking	HP Thunderbolt 120W G4 Dock	4J0A2AA
Docking	HP Thunderbolt 280W Dock	4J0G4AA
	HP USB-C G5 Dock	5TW10AA
	HP USB-C/A Universal G2 Dock	5TW13AA
	THE OSD CITY OTHER DECK	51W15/M
Cases	HP Prelude G2 15.6 Backpack	1E7D6AA
	HP Prelude G2 15.6 Top Load	1E7D7AA
	HP Prelude Pro Recycled 15.6 Backpack	1X644AA
	HP Prelude Pro Recycled 15.6 Top Load	1X645AA
	HP Renew 14 Laptop Sleeve	2E6U9AA
	HP Renew Business 14.1 Laptop Bag	3E5F9AA
	HP Renew Business 14.1 Laptop Sleeve	3E2U7AA
	HP Renew Business 15.6 Laptop Bag	3E5F8AA
	HP Renew Business 17.3 Laptop Backpack	3E2U5AA
	HP Renew Business 17.3 Laptop Bag	3E2U6AA
	HP Renew Executive 14.1 Laptop Sleeve	6B8Y3AA
	HP Renew Executive 16 Laptop Backpack	6B8Y1AA
	HP Renew Executive 16 Laptop Bag	6B8Y2AA
	HP Travel 18L 15.6 Iron Gray Laptop Backpack	6H2D9AA
	HP Travel 25L 15.6 Iron Gray Laptop Backpack	6H2D8AA
Hub	HP 4K USB-C Multiport Hub	6G842AA
nuo	HP Universal USB-C Multiport Hub	50H55AA
	HP USB-C Travel Dock G2	7PJ38AA
	HP USB-C to USB-A Hub	Z6A00AA
	652 Cto 652a5	25/103/111
Adapter	HP USB-C to RJ45 Adapter G2	4Z527AA
	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z7Z7AA
	HP HDMI to VGA Adapter	H4F02AA
	HP USB-C to DisplayPort Adapter	N9K78AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA



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

	HP USB-C to VGA Adapter	N9K76AA
Keyboard/Combo	HP 125 WD USB Keyboard	266C9AA
	HP 320K WD USB Keyboard	9SR37AA
	HP 355 Compact Multi-Device BT Keyboard	692S9AA
	HP 455 Programmable Wireless Keyboard	4R177AA
	HP 975 USB+BT Dual-Mode Wireless Keyboard	3Z726AA
	HP 155 Wired Mouse and Keyboard Combo	5B8C0AA#ACJ
	HP 225 Antimicrobial Wired Mouse and Keyboard Combo	286K3AA#AB2
	HP 225 Wired Mouse and Keyboard Combo	286J4AA
	HP 235 Wireless Mouse and Keyboard Combo	1Y4D0AA
	HP 655 Wireless Keyboard and Mouse Combo	4R009AA
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
	HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165AA
Mouse	HP 125 USB-A Wired Mouse	265A9AA
	HP 128 USB Laser Wired Mouse	265D9AA
	HP 155 USB-A Wired Mouse	5B8B7AA#ACJ
	HP 235 Wireless 2.4GHz Slim Wireless Mouse	4E407AA
	HP 320M USB-A Wired Mouse	9VA80AA
	HP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse	3B4Q5AA
	HP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse	6E6F0AA
	HP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	6H1A5AA
	HP Creator USB-A+Bluetooth 935 Wireless Mouse Black	1D0K8AA
	HP USB Premium Wireless Mouse	1JR31AA
	HP USB-A+Bluetooth Multi-Device 635 Wireless Mouse Black	1D0K2AA
	HP USB-A+Bluetooth Travel Bluetooth Mouse	6SP30AA
Power	HP 65W GaN USB-C Laptop Charger	600Q7AA
	HP 65W USB-C Laptop Charger	671R3AA
	HP 65W USB-C LC AC Power Adapter	1P3K6AA
Commodity	HP USB DVD-Writer EXT ODD	F2B56AA
	HP Nano Keyed Cable Lock	1AJ39AA
	HP Nano Master Keyed Cable Lock	1AJ40AA
	HP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA
	HP Combination Nano Cable Lock	63B28AA
	HP Essential Combination Nano Cable Lock	63B31AA



### HP EliteBook 845 14 inch G10 Notebook PC

# QuickSpecs

# Change Log

Date of change:	Version History:	Description of change:	
	V1 to V2		

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