## HP EliteBook 8 G1a 16 inch Notebook Next Gen AI PC



- 2 Webcam
- 3 Camera Shutter

## **Front**

- 4 Webcam LED
- 5 Touchpad





Sides					
1	HDMI 2.1	7	Nano SIM card slot (Optional)		
2	Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1) ¹	8	LED Indicator		
3	Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1) ¹	9	Multi-Function USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)		
4	Power Indicator LED	10	Super Speed USB Type-A® 5Gbps signaling rate (Powered)		
5	Headphone/mic combo jack	11	Security lock slot (Integrated)		
6	Smart Card Reader (Optional)				

1. USB 20Gbps signaling rate is not available with Thunderbolt™ 4. Actual throughput may vary.



### **PRODUCT NAME**

HP EliteBook 8 G1a 16 inch Notebook Next Gen AI PC

#### **OPERATING SYSTEM**

**FreeDOS** 

Windows 11 Home - HP recommends Windows 11 Pro for business 1

Windows 11 Home Single Language - HP recommends Windows 11 Pro for business 1

Windows 11 Pro (Windows 11 Enterprise is available with a Volume Licensing Agreement) 1

Windows 11 Pro 1

Windows 11 Pro Education

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 <a href="http://www.windows.com">http://www.windows.com</a>.

#### **PROCESSORS**

Processor <sup>2,3,4</sup>	Cores	Threads	L3 Cache	<b>Max Boost Frequency</b>	<b>Base Frequency</b>	Pro	NPU
AMD Ryzen™ AI 7 PRO - 350	8 cores	16	16 MB	5.00 GHz	2.00 GHz	Χ	50TOPS
AMD Ryzen™ AI 7 - 350	8 cores	16	16 MB	5.00 GHz	2.00 GHz		50TOPS
AMD Ryzen™ AI 5 PRO - 340	6 cores	12	16 MB	4.80 GHz	2.00 GHz	Χ	50TOPS
AMD Rvzen™ AI 5 - 340	6 cores	12	16 MB	4.80 GHz	2.00 GHz		50TOPS

#### **Processor Family**

AMD Ryzen™ AI 7 PRO - processor

AMD Ryzen™ AI 7 - processor

AMD Ryzen™ AI 5 PRO - processor

AMD Ryzen™ AI 5 - processor

- 2. 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. AMD's numbering is not a measurement of clock speed.
- 3. AMD Max Boost frequency performance varies depending on hardware, software and overall system configuration.
- 4. Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third party software may have specific configuration or compatibility requirements. Potential NPU inferencing performance varies by use, configuration, and other factors.



# QuickSpecs

### **GRAPHICS**

Integrated

AMD Radeon™ Graphics

**Supported Protocols** 

**HDMI 2.1** 

Displays supported (including Internal display; dock may be required)

Up to 4



## QuickSpecs

### **DISPLAY**

Actual brightness will be lower with touchscreen or HP Sure View. Availability may vary by country

#### **Non-Touch**

40.6 cm (16") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, Low Blue Light, 800 nits, sRGB 100%, HP Sure View 5 <sup>5</sup> 40.6 cm (16") diagonal, 2.5K (2560 x 1600), LCD, 120Hz (VRR), UWVA, Anti-Glare, WLED+Low Blue Light, 400 nits, Adobe 100% + DCI-P3 100%

40.6 cm (16") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, WLED+Low Blue Light, 400 nits, Low Power, sRGB 100% 40.6 cm (16") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, WLED, 300 nits, sRGB 62.5%

#### Touch

40.6 cm (16") diagonal, WUXGA (1920 x 1200), LCD, Touch, UWVA, Anti-Glare, WLED, 300 nits, sRGB 62.5%

#### Display Size (Diagonal)

40.6 cm (16")

#### **Screen to Body Ratio**

89.3%

#### **Aspect Ratio**

16:10

#### Max Hinge Open Angle

169 ± 3° (from 172°)

5. HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.



## HP EliteBook 8 G1a 16 inch Notebook Next Gen Al PC

### **DOCKING (SOLD SEPARATELY)**

Docking station model #1

Total number of supported displays (incl. the

notebook display)

Max. resolutions supported

**Dock Connectors** 

**HP Quick Connect Support Technical limitations** 

HP Thunderbolt 4 100W G6 Dock

(4) 4K @60Hz\*

(2) 4K @ 120Hz\*

(3) QHD @ 120Hz\*

(1) QHD @ 360Hz\*

1x HDMI 2.1, 2x DisplayPort 1.4, 1x Thunderbolt 4

Yes

HP Quick Connect is supported on this platform.

\*Requires DisplayPort 1.4 support with Display Stream Compression (DSC). Bluetooth required for HP Quick Connect. HP Quick Connect available on select HP notebooks. Maximum resolution and display support is dependent on the maximum capability of the notebook.

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

#### **Thunderbolt Hosts:**

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

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

**Dock Connectors** 

**Technical limitations** 

Max. resolutions supported

HP USB-C Dock G5

3

Multi-Function Mode: (2) 5k @ 30Hz and (1) 4k UHD @ 30Hz on any port

High-Resolution Mode: (2) 5k @ 60Hz on DisplayPort ports and (1) 4k UHD @ 60Hz on

**HDMI** port

1x HDMI 2.0, 2x DisplayPort 1.4

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. 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.



## HP EliteBook 8 G1a 16 inch Notebook Next Gen AI PC

Docking station model #3 Total number of supported displays (incl. the notebook display)

Max. resolutions supported

Dock Connectors
Technical limitations

HP Thunderbolt™ 120W G4 Dock

4

Quad 4K @60Hz

Dual 8K single cable@30 for Thunderbolt hosts or USB-C hosts DisplayPort 1.4 with Display Stream Compression in High-Resolution Mode

2x HDMI 2.0, 2x DisplayPort 1.4, 1x Thunderbolt 4, 1x USB-C 3.2 Gen 2 DisplayPort 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 multifunction 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.



256 GB PCIe® NVMe™ SSD Value <sup>6</sup>

### **STORAGE AND DRIVES**

### Storage

2 TB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell <sup>6</sup>
1 TB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell <sup>6</sup>
1 TB PCIe® NVMe™ SSD Value <sup>6</sup>
512 GB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell <sup>6</sup>
512 GB PCIe® Gen4x4 NVMe™ Self Encrypted OPAL2 SSD Three Layer Cell <sup>6</sup>
512 GB PCIe® NVMe™ SSD Value <sup>6</sup>
256 GB PCIe® NVMe™ Self Encrypted OPAL2 SSD Value <sup>6</sup>

6. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 32 GB is reserved for system recovery software.



### **MEMORY**

### **Maximum Memory**

64GB DDR5-5600 MT/s (2 x 32 GB) 7

#### **Memory**

64GB DDR5-5600 MT/s (2  $\times$  32 GB) <sup>7</sup> 32GB DDR5-5600 MT/s (1  $\times$  32 GB) <sup>7</sup> 32GB DDR5-5600 MT/s (2  $\times$  16 GB) <sup>7</sup> 24GB DDR5-5600 MT/s (2  $\times$  12 GB) <sup>7</sup> 16GB DDR5-5600 MT/s (1  $\times$  16 GB) <sup>7</sup> 16GB DDR5-5600 MT/s (2  $\times$  8 GB) <sup>7</sup>

#### **Memory Slots**

2 SODIMM

System runs at 5600 MT/s

Supports Dual Channel Memory(optional).

The memory is accessible/upgradeable by IT or self-maintainers only

7. Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.



### **NETWORKING / COMMUNICATIONS**

Items below may be optional.

#### **WLAN**

Qualcomm® Fast Connect 7800 Wi-Fi 7 Bluetooth® 5.4 AIM-T WW WLAN 8 Mediatek MT7925 Wi-Fi 7 Bluetooth® 5.4 AIM-T WW WLAN 8 Mediatek RZ616 Wi-Fi 6E Bluetooth® 5.3 AIM-T WLAN 8

#### **WWAN**

HP 5G Sub-6 CAT19 9 HP 4G CAT19 10

#### **LPWAN**

Qualcomm 9205 LTE-M (CAT-M1 fSVC) 11

#### NFC

NFC Mirage WNC XRAV-1

#### Miracast

Native Miracast Support 12

- 8. 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.
- 9. 5G module is optional. WWAN-ready configuration must be selected at purchase to add WWAN at a later date. 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.
- 10. 4G module is optional. WWAN-ready configuration must be selected at purchase to add WWAN at a later date. 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.
- 11. LPWAN (also called Mobile Narrowband) support HP Protect & Trace with Wolf Connect service through the subscription term, but do not support mobile broadband use.
- 12. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.



### **AUDIO/MULTIMEDIA**

Privacy panel is only available on select models.

## Audio

Audio by Poly Studio
2 Integrated stereo speakers
Discrete Amplifiers
2 Integrated dual array microphone

### **Speaker Power**

1W / 8 ohm per speaker

#### Camera

5MP camera, 5MP camera with Image Signal Processing (ISP) and AI Presence Detection, IR camera

#### **Sensors**

Ambient Light Sensor
Color Sensor with Ambient Light Sensing (optional)
Fingerprint Sensor (optional)
Hall Effect Sensor
HP Sure Platform
HP Tamper Lock <sup>13</sup>
Thermal Sensor

13. HP Tamper Lock must be enabled by the customer or your administrator.



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

### Keyboard

HP Premium Keyboard, with numeric keypad, spill-resistant, backlit, Durakey, keyboard. HP Premium Keyboard, with numeric keypad, spill-resistant, Privacy, backlit, Durakey, keyboard.

#### **Pointing Device**

Clickpad

Microsoft Precision Touchpad Default Gestures Support Multi-touch gesture support

#### **Function Keys**

**ESC - System information** 

F1 - Display Switching

F2 - Blank or Privacy

F3 - Brightness Down

F4 - Brightness Up

F5 - Blank or Keyboard Backlight

F6 - Audio Mute

F7 - Volume Down

F8 - Volume Up

F9 - Mic Mute

F10 - Play and Pause

F11 – Programmable Key

F12 - Print Screen

Power Button (with LED)

Insert

Delete

Home

End

Page up

Page down

Microsoft Copilot 14

### **Hidden Function Keys**

Fn+R - Break, Fn+S - Sys Rq, Fn+C - Scroll Lock

14. May require Windows Update or app download from the Microsoft Store. Microsoft Copilot is NOT available in China, Russia, Belarus, and embargoed regions Cuba, Iran, North Korea, Crimea.



### **SOFTWARE AND SECURITY**

### **Application Software**

Buy Microsoft Office (Sold Separately)

**HP AI Companion** 

**HP Connection Optimizer** 

**Edge Customization** 

**HP Hotkey Support** 

**HP Mac Address Manager** 

**HP Notifications** 

**HP PC Hardware Diagnostics UEFI** 

**HP PC Hardware Diagnostics Windows** 

**HP Privacy Settings** 

HP Services Scan 15

HP Smart Support 16

HP Support Assistant 17

myHP

**HSA Fusion for Commercial** 

**HSA Telemetry for Commercial** 

Poly Lens 18

Poly Camera Pro

### **Manageability Features**

HP Client Catalog (download) 19

HP Client Management Script Library (download) 20

HP Cloud Recovery 21

**HP Connect for Microsoft Endpoint Manager** 

HP Driver Packs (download) 22

HP Image Assistant (download) 23

HP Manageability Integration Kit (download) 24

HP Power Manager with Battery Health Manager (download) 25

#### **Security Features**

Secured-Core PC Enable

Windows Hello Enhanced Sign-In Security (ESS)

HP Wolf Security for Business which includes: 26

**HP Tamper Lock** 

HP Sure Admin 27

HP Sure Click 28

HP Sure Recover 29

HP Sure Run 30

HP Sure Sense 31

**HP Sure Start** 



## QuickSpecs

#### **Security-TPM**

Model: Nuvoton NPCT760HACYX Firmware Version: 7.2.4.0 TCG TPM 2.0 FIPS 140-2 Compliant: Yes

#### BIOS

Absolute Persistence Module <sup>32</sup>
Audio Permanent Disable
HP BIOS Recovery
HP Fingerprint Sensor <sup>33</sup>
BIOS Update via Network
HP BIOSphere Gen6 <sup>34</sup>
HP DriveLock & Automatic DriveLock
HP Secure Erase <sup>35</sup>
HP Wake on WLAN

#### **Smartcard Reader**

Model number Alcorlink AK9563E66-GAF-GR (QFN) FIPS 140-2 Compliant:Yes

#### **IPv6 Support**

Yes

### **FirstNet Certified**

Yes

### Does the BIOS implement the ISO/IEC 19678:2015 (formerly NIST 800-147) guidelines?: Yes

**UEFI version:** 2.7b

HP BIOS UEFI Specification Level version 2.9 supported with BIOS update

#### Class: 3

15. HP Services Scan is preinstalled and/or provided thru Windows Update and checks for service entitlement on each hardware device and downloads the applicable software agent automatically. To disable this feature, please follow the instructions at <a href="http://www.hpdaas.com/requirements">http://www.hpdaas.com/requirements</a>. The HP Insights agent is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access with connection to the HP Insights agent is required. For full system requirements, please visit <a href="http://www.hpdaas.com/requirements">http://www.hpdaas.com/requirements</a>. Not available in China.

16. HP Smart Support requires the HP Insights agent to be installed. For more information about how to enable or to download HP Smart Support, please visit http://www.hp.com/smart-support. HP Services Scan is preinstalled and/or provided thru Windows Update and will check entitlement on each hardware device to determine if an HP Insights agent-enabled service has been purchased, and will download



## QuickSpecs

applicable software automatically. HP Insights agent is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access is required. For full system requirements or to disable this feature, please visit https://www.hpdaas.com/requirements.

- 17. HP Support Assistant is available on Windows. For more information, please visit https://support.hp.com/us-en/help/hp-support-assistant.
- 18. Poly Lens Desktop requires a Windows OS.
- 19. HP Client Catalog not preinstalled, however available for download at (https://www.hp.com/us-en/solutions/client-management-solutions.html).
- 20. HP Client Management Script Library (https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools).
- 21. 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, network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: https://support.hp.com/us-en/computer.
- 22. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
- 23. HP Image Assistant not preinstalled, however available for download at (https://ftp.ext.hp.com/pub/caps-softpag/cmit/HPIA.html),
- 24. HP Manageability Integration Kit not preinstalled, however available for downloaded from https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools.
- 25. HP Power Manager with Battery Health can be downloaded by entering your system information here: https://support.hp.com/in-en/document/ish\_4449597-3519507-16.
- 26. HP Wolf Security for Business requires Windows 10 or 11 Pro 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.
- 27. HP Sure Admin requires HP G8 or newer platforms, Windows 10 or higher, HP BIOS, HP Manageability Kit or KMS Service from http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.
- 28. HP Sure Click requires Windows 10 and higher. See https://bit.ly/2PrLT6A\_SureClick for complete details.
- 29. HP Sure Recover is available on select HP PCs and requires Windows 10 or 11 and an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. HP Sure Recover Gen6 with Embedded Reimaging is an optional feature on select HP PCs which requires Windows 10 or 11 must be configured at purchase. You must back up important files, data, photos, videos, etc. before use to avoid loss of data.
- 30. HP Sure Run is available on select HP PCs and requires Windows 10 and higher.
- 31. HP Sure Sense requires Windows 10 and higher. See product specifications for availability. On units with WWAN shipping to China, HP Sure Sense is only available via Softpaq download.
- 32. Absolute Persistence 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/.
- 33. HP Fingerprint Reader is an optional feature that requires Windows 10 or 11 and must be configured at purchase.
- 34. HP BIOSphere Gen6 features may vary depending on the platform and configuration.
- 35. HP Secure Erase implements the methods outlined in the National Institute of Standards and Technology Special Publication 800-88r "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.



## QuickSpecs

#### **POWER**

Power supply availability may vary by country. Battery is internal. Serviceable by warranty.

#### **Power Supply**

HP 100W Slim USB Type-C® AC power adapter

#### **Power Cord**

3-wired plug- 1.0m

#### **Battery**

HP Long Life 3 cell, 62Whr Polymer HP Long Life 8 cell, 77Whr Polymer Compliant with UL 1642/2054 Standard

### **Battery Recharge Time**

Supports battery HP Fast Charge: approximately 50% in 30 minutes 36

### **Battery life**

Up to 17 hours 45 minutes with 62Whr battery (AMD AI KRA R7, UMA graphic, brightness set to 250nits on a 16-inch WUXGA 400nits LP LCD display, 2x8GB DDR5 memory, 256GB SSD) 37

Up to 21 hours 45 minutes with 77Whr battery (AMD AI KRA R7, UMA graphic, brightness set to 250nits on a 16-inch WUXGA 400nits LP LCD display, 2x8GB DDR5 memory, 256GB SSD) <sup>37</sup>

36. Recharges your battery up to 50% within 30 minutes when the system is off or in standby mode.

Power adapter minimum of 65 watts required for battery capacities 56Whr or less.

Power adapter minimum of 100 watts required for battery capacities greater than 56Whr and less than 83Whr.

Power adapter minimum of 120 watts required for battery capacities greater than 83Whr and less than 100Whr.

After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.

37. Mobile Mark 25 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.



## QuickSpecs

### **WEIGHT & DIMENSIONS**

### **Product Weight**

Starting at 1.69 kg (3.73 lb) with 62.00 Wh battery Weight will vary by configuration. Does not include power adapter.

#### Product Dimensions (w x d x h)

359.00 mm (W) x 250.00 mm (D) x 11.55 mm (front)/ 15.50 mm (rear) (14.13 in (W) x 9.84 in (D) x 0.45 in (front)/ 0.61 in (rear)) Maximum height 21.65 mm (0.85)

Front height measurement is near the front edge where the chassis bottom cover taper begins. Back height measurement is near the back edge where the chassis bottom cover taper ends.

#### **Packaging and Pallet Dimensions**

Product packaging size varies based on options chosen. Please contact your HP representative for your packaging size details. For detailed packaging information, access the HP Commercial Notebooks Packaging Guide.



### **PORTS/SLOTS**

#### Left side

- 2 x Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1) 38
- 1 x HDMI 2.1
- 1 x Power connector
- 1 x headphone/mic combo jack
- 1 x Smart Card Reader (Optional)

### **Right side**

- 1 x Multi-Function USB Type-C<sup>®</sup> 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)
- 1 x Super Speed USB Type-A® 5Gbps signaling rate (Powered)
- 1 x Nano SIM card slot (Optional)
- 1 x Security lock slot (Integrated)

38. USB 20Gbps signaling rate is not available with Thunderbolt™ 4. Actual throughput may vary.



## QuickSpecs

### **SERVICE AND SUPPORT**

1-year warranty and 90 day software limited warranty options depending on country. HP Worldwide Limited Warranty for the battery is aligned with the warranty period of the HP Hardware Product. Refer to <a href="http://www.hp.com/support/batterywarranty/">http://www.hp.com/support/batterywarranty/</a> 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: <a href="http://www.hp.com/go/cpc">http://www.hp.com/go/cpc</a>. 39

39. HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit <a href="http://www.hp.com/go/cpc">http://www.hp.com/go/cpc</a>. 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 (AC Power)

Nominal Operating Voltage 20.0V Max Operating Power UMA 100W

Discrete W

**Temperature** 

Operating 0° to 35° C (32° to 95° F)

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

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

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

**Relative Humidity** 

Operating 10% to 90 % (non-condensing)

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

Shock

Operating 40 G, 2 ms, half-sine Non-operating 240 G, 2 ms, half-sine

**Random Vibration** 

Operating 1.043 grms Non-operating 3.500 grms

Altitude (unpressurized)

Operating 3048 m (10000 ft) Non-operating 12192 m (40000 ft)

**Industry Standard Certifications** 

Regulatory Model Number HSN-I63C-6

CSA/UL 62368-1 Yes
UL 62368-1 Yes
ENERGY STAR® Yes 40
FCC/ICES/CISPR/VCCI Yes
CE MARKING Yes
GS Mark Yes

Related commodity should comply with ISO 9241 Standards.

China CCC/SRRC/CEL Yes Taiwan BSMI/NCC Yes Korea KCC/KC/KES Yes Ukraine NSoC/TEC Yes **EAEU Compliance** Yes Saudi Arabian Compliance Yes TC0 Yes **EPEAT Gold** Yes 41 Low Blue Light Yes **WW RoHS** Yes **CECP TBD** 

These are requirements from the Category PM, which usually occur after RTP.

At this stage, no requests have been received yet.



## HP EliteBook 8 G1a 16 inch Notebook Next Gen AI PC

Medical EMC: IEC 60601-1-2:2014 EN60601-1-2: Yes

2015

SEPA TBD

These are requirements from the Category PM, which usually occur after RTP.

At this stage, no requests have been received yet.

MIL-STD Testing Yes 42

40. Configurations that are ENERGY STAR® qualified are identified as ENERGY STAR on HP websites and on http://www.energystar.gov 41. 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.

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



### **DISPLAYS**

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

Availability may vary by country

16.0 cm (6.3") diagonal, WUXGA (1920 x 1200), LCE, UWVA, Anti-Glare, WLED, 300 nits, sRGB 62.5% **Active Area** 344.6784 x 215.424 mm (typ) **Dimensions (W x H)** 350.680 x 226.070 mm (max)

Weight 390 g (max)
Diagonal Size 16 inch
Surface Treatment Anti-Glare
Touch Enabled No

Contrast Ratio1,000:1(typ)Refresh Rate60 Hz (typ)Brightness300 nits (typ)

Pixel Resolution RGB

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

Aspect Ratio 16:10

Backlight WLED

Color Gamut Coverage SRGB 62.5%

**Color Depth** 8 bit

Viewing Angle UWVA 89/89/89

**Low Blue Light** No

**Power Consumption** 2.7 W (max) / 3.4 W (max)

16.0 cm (6.3") diagonal, 2.5K (2560 x 1600), LCD, 120Hz (VRR), UWVA, Anti-Glare, WLED+Low Blue Light, 400 nits, Adobe 100% + DCI-P3 100% **Active Area** 344.6784 x 215.424 mm (typ) **Dimensions (W x H)** 349.98 x 224.82 mm (max)

Weight 280 g (max)
Diagonal Size 16 inch
Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio2,000:1 (typ)Refresh Rate120 Hz (typ)Brightness400 nits (typ)

**Pixel Resolution** RGB

**Pixel Resolution - Format** 2560 x 1600 (2.5K)

Aspect Ratio 16:10 Backlight WLED

**Color Gamut Coverage** Adobe RGB 100% + DCI-P3 100%

Color Depth 8 bit

Viewing Angle UWVA 89/89/89

**Low Blue Light** Yes

**Power Consumption** 2.5 W (max) / 3.0 W (max)



16.0 cm (6.3") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, WLED+Low Blue Light, 400 nits, Low Power, sRGB 100% 

 Active Area
 344.678 x 215.424 mm (typ)

 Dimensions (W x H)
 350.680 x 226.470 mm (max)

Weight 330 g (max)
Diagonal Size 16 inch
Surface Treatment Anti-Glare
Touch Enabled No

Contrast Ratio1,000:1 (typ)Refresh Rate60 Hz (typ)Brightness400 nits (typ)

Pixel Resolution RGB

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

Aspect Ratio 16:10
Backlight WLED
Color Gamut Coverage SRGB 100%
Color Depth 8 bit

Viewing Angle UWVA 89/89/89

Low Blue Light Yes

**Power Consumption** 1.60 W (max) / 1.95 W (max)

16.0 cm (6.3") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, Low Blue Light, 800 nits, sRGB 100%, HP Sure View 5 **Active Area** 344.680 x 215.420 mm (typ) **Dimensions (W x H)** 349.980 x 224.82 mm (max)

Weight 310 g (max)
Diagonal Size 16 inch
Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio1,500:1 (typ)Refresh Rate60 Hz (typ)Brightness800 nits (typ)

Pixel Resolution RGB

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

Aspect Ratio 16:10
Backlight WLED
Color Gamut Coverage SRGB 100%
Color Depth 8 bit

Viewing Angle UWVA 89/89/89

Low Blue Light Yes

**Power Consumption** 1.93 W (max) / 2.38 W (max)

16.0 cm (6.3") diagonal, WUXGA (1920 x 1200), LCD, Touch, UWVA, Anti-Glare, WLED, 300 nits, sRGB 62.5% 

 Active Area
 344.680 x 215.420 mm (typ)

 Dimensions (W x H)
 350.680 x 226.070 mm (max)

Weight 400 g (max)
Diagonal Size 16 inch
Surface Treatment Anti-Glare
Touch Enabled Yes



## HP EliteBook 8 G1a 16 inch Notebook Next Gen AI PC

Contrast Ratio1,000 : 1(typ)Refresh Rate60 Hz (typ)Brightness300 nits (typ)

**Pixel Resolution** RGB

Pixel Resolution - Format 1920 x 1200 (WUXGA)

Aspect Ratio 16:10
Backlight WLED
Color Gamut Coverage SRGB 62.5%
Color Depth 8 bit

Viewing Angle UWVA 89/89/89

Low Blue Light No

**Power Consumption** 2.43 W (max) / 3.03 W (max)



### **STORAGE**

2 TB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell ¹ Form Factor M.2 2280
Capacity 2TB
NAND Type TLC

 Weight
 10 g (0.02 lb)

 Interface
 PCIe NVMe Gen4X4

 Sequential Read
 6400 MB/s ±20%

 Sequential Write
 5000 MB/s ±20%

 Logical Blocks
 4,000,797,360

 Features
 Pyrite 2.0; TRIM; L1.2

Not all features are available in all versions.

1 TB PCIe<sup>®</sup> Gen4x4 NVMe<sup>™</sup> SSD Three Layer Cell <sup>1</sup> Form Factor M.2 2280
Capacity 1TB
NAND Type TLC

 Weight
 10 g (0.02 lb)

 Interface
 PCIe NVMe Gen4X4

 Sequential Read
 6400 MB/s ±20%

 Sequential Write
 5000 MB/s ±20%

 Logical Blocks
 2,000,409,264

 Features
 Pyrite 2.0; TRIM; L1.2

Not all features are available in all versions.

1 TB PCIe® NVMe™ SSD Value 1

Form Factor M.2 2280
Capacity 1TB
NAND Type Value

 Weight
 10 g (0.02 lb)

 Interface
 PCIe NVMe Gen4X4

 Sequential Read
 3500 MB/s ±20%

 Sequential Write
 2700 MB/s ±20%

 Logical Blocks
 2,000,409,264

 Features
 Pyrite 2.0; TRIM; L1.2

Not all features are available in all versions.

512 GB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell ¹ Form Factor M.2 2280 Capacity 512GB NAND Type TLC

 Weight
 10 g (0.02 lb)

 Interface
 PCle NVMe Gen4X4

 Sequential Read
 6400 MB/s ±20%

 Sequential Write
 3500 MB/s ±20%

 Logical Blocks
 1,000,215,215

 Features
 Pyrite 2.0; TRIM; L1.2

Not all features are available in all versions.



512 GB PCIe® Gen4x4 NVMe™ Self Encrypted OPAL2 SSD Three Layer Cell ¹ Form Factor M.2 2280
Capacity 512GB
NAND Type TLC

 Weight
 10 g (0.02 lb)

 Interface
 PCle NVMe Gen4X4

 Sequential Read
 6400 MB/s ±20%

 Sequential Write
 3500 MB/s ±20%

 Logical Blocks
 1,000,215,215

Features TCG Opal 2.0; TRIM; L1.2

Not all features are available in all versions.

512 GB PCIe® NVMe™ SSD Value

. . . . . .

 Form Factor
 M.2 2280

 Capacity
 512 GB

 NAND Type
 Value

 Weight
 10 g (0.02

 Weight
 10 g (0.02 lb)

 Interface
 PCIe NVMe Gen4X4

 Sequential Read
 2200 MB/s ±20%

 Sequential Write
 1000 MB/s ±20%

 Logical Blocks
 1,000,215,215

 Features
 Pyrite 2.0; TRIM; L1.2

Not all features are available in all versions.

256 GB PCIe® NVMe™ Self
Encrypted OPAL2 SSD Value <sup>1</sup>

Form Factor M.2 2280
Capacity 256 GB
NAND Type Value

 Weight
 10 g (0.02 lb)

 Interface
 PCIe NVMe Gen4X4

 Sequential Read
 2000 MB/s ±20%

 Sequential Write
 900 MB/s ±20%

 Logical Blocks
 500,118,192

Features TCG Opal 2.0; TRIM; L1.2

Not all features are available in all versions.

256 GB PCIe<sup>®</sup> NVMe<sup>™</sup> SSD Value

Capacity NAND Type

**Form Factor** 

256 GB Value 10 g (0.02 lb) PCIe NVMe Gen

M.2 2280

 Weight
 10 g (0.02 lb)

 Interface
 PCle NVMe Gen4X4

 Sequential Read
 2000 MB/s ±20%

 Sequential Write
 900 MB/s ±20%

 Logical Blocks
 500,118,192

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

Not all features are available in all versions.



# QuickSpecs

1. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 32 GB is reserved for system recovery software.



### **NETWORKING / COMMUNICATION**

Mediatek RZ616 Wi-Fi 6E Wireless LAN Standards IEEE 802.11a Bluetooth® 5.3 AIM-T WLAN 1,2 IEEE 802.11ac IEEE 802.11ax IEEE 802.11b IEEE 802.11d IEEE 802.11e IEEE 802.11q IEEE 802.11h IEEE 802.11i IEEE 802.11i IEEE 802.11k IEEE 802.11mc IEEE 802.11n 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** 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11ac: MSC0~MCS9, (20MHz, 40MHz, 80MHz, 160MHz) 802.11ax: MSC0~MCS11, (20MHz, 40MHz, 80MHz, 160MHz) 802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: MSC0~MCS15, (20MHz, 40MHz) Modulation 1024QAM, 16-QAM, 256-QAM, 64-QAM, BPSK, CCK, Direct Sequence Spread Spectrum, OFDM, QPSK

802.1x authentication

AES-CCMP: 128 bit in hardware

IEEE 802.11i

IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g mode

only

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

WPA2 certification

WPA3 (personal) certification

**Network Architecture Models** Ad-hoc (Peer to Peer)

Security



## Roaming Output Power

Infrastructure (Access Point Required)

IEEE 802.11 compliant roaming between access points

2.4GHz (MIMO, typical):

• 802.11b: +18dBm

• 802.11g: +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: 2.0 W

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

Connected Standby/Modern Standby: 10 mW

Radio disabled: 8 mW

ACPI and PCI Express compliant power management

802.11 compliant power saving mode

### Receiver Sensitivity<sup>3</sup>

**Power Management** 

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

Two embedded tri-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** 30.00 x 22.00 x 2.30 mm (1.18 x 0.87 x 0.09 inch)

**Weight** 1. Type 2230: 2.8 g **Operating Voltage** 3.3 v +/- 9 %

Integrated Bluetooth® specifications

**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 Channels** Legacy : 0~79 (1 MHz/CH)

BLE: 0~39 (2 MHz/CH)

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

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

**Power Management** 

Supported Link Topology

**Certifications** FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407; ETSI 300

328, ETSI 301 893, ETSI 303 687

Bluetooth® Profiles Supported 2Mbps LE

Advanced Audio Distribution Profile (A2DP)

Microsoft Windows ACPI, and USB Bus Support

Microsoft Windows Bluetooth Software

Basic Imaging Profile (BIP)

Bluetooth 4.1 -ESR 5/6/7 Compliance Bluetooth 4.2 ESR08 Compliance

Bluetooth 5.2

Bluetooth 5.3 wireless card Channel Selection Algo

Encryption key size control enhancements

ESR9/10 Compliance FAX Profile (FAX) Hands Free Profile (HFP)

Headset Profile (HSP)

LE Advertisement Extensions



LE Data Packet Length Extension

LE Dual Mode

LE L2CAP Connection Oriented Channels

LE Link Layer

**LE Link Layer Ping** 

LE Long Range

LE Low Duty Cycle Directed Advertising

LE Privacy 1.2 - Extended Scanner Filter Policies

LE Privacy 1.2 -Link Layer Privacy

LE Secure Connection- Basic/Full

Limited High Duty Cycle Non-Connectable Advertising

Periodic Advertisement interval

Train Nudging & Interlaced Scan

Windows Bluetooth profiles support

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.

2. 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.

3. 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 MT7	7925 Wi-Fi 7
Bluetooth® 5.	4 AIM-T WW
WLAN <sup>1</sup>	

Wireless LAN Standards	IEEE 802.11a
	IEEE 802.11ac
	IEEE 802.11ax
	IEEE 802.11b
	IEEE 802.11be
	IEEE 802.11d
	IEEE 802.11e
	IEEE 802.11g
	IEEE 802.11h
	IEEE 802.11i
	IEEE 802.11k
	IEEE 802.11n
	IEEE 802.11r
	IEEE 802.11v
Interoperability	Wi-Fi certified
Frequency Band	802.11b/g/n/ax
	2.402 – 2.482 GHz
	802.11a/n/ac/ax
	4.9 – 4.95 GHz (Japan)
	5.15 – 5.25 GHz
	5.25 – 5.35 GHz



5.47 - 5.725 GHz

5.825 – 5.850 GHz 5.955 – 6.415 GHz 6.435 – 6.515 GHz 6.535 – 6.875 GHz 6.895 – 7.115 GHz

**Data Rates** 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11ac: MSC0~MCS9, (20MHz, 40MHz, 80MHz, 160MHz) 802.11ax: MSC0~MCS11, (20MHz, 40MHz, 80MHz, 160MHz)

802.11b: 1, 2, 5.5, 11 Mbps

802.11be: MCS0~13, (20MHz, 40MHz, 80MHz, 160MHz)

802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: MSCO~MCS15, (20MHz, 40MHz)

Modulation 1024QAM, 16-QAM, 256-QAM, 4096-QAM, 64-QAM, BPSK, CCK,

Direct Sequence Spread Spectrum, OFDM, QPSK

**Security** 802.1x authentication

AES-CCMP: 128 bit in hardware

IEEE 802.11i

IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g mode

only WAPI

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

WPA2 certification

WPA3 (personal) certification

Network Architecture Models Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

Roaming Output Power IEEE 802.11 compliant roaming between access points

802.11b, 1Mbps: +17dBm minimum
802.11g, 6Mpbs: +16dBm minimum
802.11a, 6Mbps: +17dBm minimum
802.11n, MCS7(HT20): +14dBm minimum
802.11n, MCS7(HT40): +13.5dBm minimum

802.11ac MCS9(VHT20): 13.5dBm minimum
802.11ac MCS9(VHT40): +13.5dBm minimum
802.11ac MCS9(VHT80): +12.5dBm minimum
802.11ac MCS9(VHT160): +10.5dBm minimum

802.11ax MCS11(HE20)(6GHz): +11.5dBm minimum
 802.11ax MCS11(HE40)(6GHz): +7.5dBm minimum
 802.11ax MCS11(HE80)(6GHz): +7.5dBm minimum
 802.11ax MCS11(HE160)(6GHz): +7.5dBm minimum

802.11be MCS13(EHT20)(6GHz): +11.5dBm
 802.11be MCS13(EHT40)(6GHz): +7.5dBm
 802.11be MCS13(EHT80)(6GHz): +7.5dBm

802.11be MCS13(EHT160)(6GHz): +6.5dBm

**Power Consumption** Transmit mode: 2.7 W



Receive mode: 1.8 W

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

Radio disabled: 8 mW

**Receiver Sensitivity<sup>2</sup>** •802.11b, 1Mbps: -93.5dBm maximum

•802.11b, 11Mbps : -85dBm maximum

• 802.11a/g, 6Mbps : -90.5dBm maximum

802.11a/g, 54Mbps: -72.5dBm maximum
 802.11n, MCS0(HT20): -90dBm maximum

• 802.11n, MCS7(HT20) : -71.5dBm maximum

• 802.11n, MCS0(HT40) : -88.5dBm maximum

• 802.11n, MCS7(HT40): -68.5dBm maximum

802.11ac, MCS9(VHT20): -88.5dBm maximum

• 802.11ac, MCS9(VHT40): -65.5dBm maximum

• 802.11ac, MCS9(VHT80): -60.5dBm maximum

• 802.11ac, MCS9(VHT160): -58.5dBm maximum

• 802.11ax, MCS11(HE20)(6GHz) : -59.5dBm maximum

802.11ax, MCS11(HE40)(6GHz): -56.5dBm maximum

• 802.11ax, MCS11(HE80)(6GHz): -53.5dBm maximum

• 802.11ax, MCS11(HE160)(6GHz): -51.5dBm maximum

802.11be, MCS13(EHT20)(6GHz): -55.5dBm maximum

802.11be, MCS13(EHT40)(6GHz): -53.5dBm maximum

• 802.11be, MCS13(EHT80)(6GHz) : -51.5dBm maximum

• 802.11be, MCS13(EHT160)(6GHz) : -48.5dBm maximum

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

**Dimensions** 30.00 x 22.00 x 2.30 mm (1.18 x 0.87 x 0.09 inch)

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

Integrated Bluetooth® specifications

Antenna type

**Bluetooth® Specification** 4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Compliant

Frequency Band 2402 to 2480 MHz

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

BLE: 0~39 (2 MHz/CH)

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

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)



## HP EliteBook 8 G1a 16 inch Notebook Next Gen Al PC

**Transmit Power** The Bluetooth component shall operate as a Class I Bluetooth

device with a maximum transmit power of +15.5 dBm for BR and

+13dBm for 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

Microsoft Windows ACPI, and USB Bus Support FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407; ETSI 300

328, ETSI 301 893, ETSI 303 687

Bluetooth® Profiles Supported 2Mbps LE

Advanced Audio Distribution Profile (A2DP)

Basic Imaging Profile (BIP) Channel Selection Algo

Encryption key size control enhancements

ESR9/10 Compliance FAX Profile (FAX) Hands Free Profile (HFP) Headset Profile (HSP)

LE Advertisement Extensions LE Data Packet Length Extension

LE Dual Mode

LE L2CAP Connection Oriented Channels

LE Link Layer LE Link Layer Ping LE Long Range

LE Low Duty Cycle Directed Advertising

LE Privacy 1.2 - Extended Scanner Filter Policies

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

Limited High Duty Cycle Non-Connectable Advertising

Train Nudging & Interlaced Scan

1. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows OS, select processor, and a Wi-Fi 7 router, sold separately. Wi-Fi 7 is backwards compatible with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported. The specification for 802.11BE is a draft specification and is not final. If the final specification differs from the draft specification, it may affect the ability of the device to communicate with other 802.11BE devices.

2.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).



Qualcomm® Fast Connect 7800	Wireless LAN Standards	IEEE 902 115
Wi-Fi 7 Bluetooth® 5.4 AIM-T	Wireless LAN Standards	IEEE 802.11a IEEE 802.11ac
WW WLAN <sup>1</sup>		IEEE 802.11ax
WW WEAK		IEEE 802.11b
		IEEE 802.11be
		IEEE 802.11d
		IEEE 802.11e
		IEEE 802.11g
		IEEE 802.11h
		IEEE 802.11i
		IEEE 802.11k
		IEEE 802.11n
		IEEE 802.11r
		IEEE 802.11v
	Interoperability	Wi-Fi certified
	Frequency Band	802.11b/g/n/ax
		2.402 – 2.482 GHz
		802.11a/n/ac/ax
		4.9 – 4.95 GHz (Japan)
		5.15 – 5.25 GHz
		5.25 – 5.35 GHz
		5.47 – 5.725 GHz
		5.825 – 5.850 GHz
		5.955 – 6.415 GHz
		6.435 – 6.515 GHz
		6.535 – 6.875 GHz
		6.895 – 7.115 GHz
	Data Rates	802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
		802.11ac: MCS0 ~ MCS9, (20MHz, 40MHz, 80MHz, 160MHz)
		802.11ax: MCS0 ~ MCS11, (20MHz, 40MHz, 80MHz, 160MHz)
		802.11b: 1, 2, 5.5, 11 Mbps
		802.11be: MCS0~13, (20MHz, 40MHz, ,80MHz, 160MHz, 320MHz)
		802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
		802.11n: MCS 0 ~ MCS 15, (20MHz, 40MHz)
	Modulation	1024QAM, 16-QAM, 256-QAM, 4096QAM, 64-QAM, BPSK, CCK,
		Direct Sequence Spread Spectrum, OFDM, QPSK
	Security	802.1x authentication
		AES-CCMP: 128 bit in hardware
		IEEE 802.11i
		IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g mode
		only
		WAPI



WPA2 certification

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

WPA3 (personal) certification

Network Architecture Models

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

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

• 802.11b, 1Mbps: +17dBm minimum • 802.11g, 6Mpbs: +16dBm minimum

• 802.11a, 6Mbps : +17dBm minimum

• 802.11n, MCS7(HT20): +14dBm minimum

• 802.11n, MCS7(HT40): +13.5dBm minimum

• 802.11ac MCS9(VHT20) : 13.5dBm minimum

• 802.11ac MCS9(VHT40) : +13.5dBm minimum

• 802.11ac MCS9(VHT80) : +12.5dBm minimum

• 802.11ac MCS9(VHT160): +10.5dBm minimum

• 802.11ax MCS11(HE20)(6GHz): +11.5dBm minimum

• 802.11ax MCS11(HE40)(6GHz): +7.5dBm minimum

• 802.11ax MCS11(HE80)(6GHz): +7.5dBm minimum

• 802.11ax MCS11(HE160)(6GHz): +7.5dBm minimum

• 802.11be MCS13(EHT20)(6GHz): 11.5dBm

• 802.11be MCS13(EHT40)(6GHz): 7.5dBm

802.11be MCS13(EHT80)(6GHz): 7.5dBm
 802.11be MCS13(EHT160)(6GHz): 6.5dBm

002.116c11c513(EHT 100)(CGH2): 0.548H1

• 802.11be MCS13(EHT320)(6GHz): 4.5dBm

**Power Consumption** Transmit mode: 3.1 W

Receive mode: 1.8 W

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

Radio disabled: 8 mW

**Power Management** ACPI and PCI Express compliant power management; 802.11

compliant power saving mode

**Receiver Sensitivity**<sup>2</sup> •802.11b, 1Mbps: -93.5dBm maximum

•802.11b, 11Mbps: -85dBm maximum

• 802.11a/q, 6Mbps: -90.5dBm maximum

• 802.11a/g, 54Mbps : -72.5dBm maximum

• 802.11n, MCS0(HT20) : -90dBm maximum

• 802.11n, MCS7(HT20): -71.5dBm maximum

• 802.11n, MCS0(HT40) : -88.5dBm maximum

• 802.11n, MCS7(HT40): -68.5dBm maximum

• 802.11ac, MCS9(VHT20): -88.5dBm maximum

• 802.11ac, MCS9(VHT40): -65.5dBm maximum

• 802.11ac, MCS9(VHT80): -60.5dBm maximum

• 802.11ac, MCS9(VHT160): -58.5dBm maximum

• 802.11ax, MCS11(HE20)(6GHz): -59.5dBm maximum

• 802.11ax, MCS11(HE40)(6GHz): -56.5dBm maximum



802.11ax, MCS11(HE80)(6GHz): -53.5dBm maximum
802.11ax, MCS11(HE160)(6GHz): -51.5dBm maximum
802.11be, MCS13(EHT20)(6GHz): -55.5dBm maximum
802.11be, MCS13(EHT40)(6GHz): -53.5dBm maximum
802.11be, MCS13(EHT80)(6GHz): -51.5dBm maximum
802.11be, MCS13(EHT160)(6GHz): -48.5dBm maximum
802.11be, MCS13(EHT320)(6GHz): -45.5dBm maximum

Antenna type High efficiency antenna with spatial diversity

Two embedded tri-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** 30.00 x 22.00 x 2.35 mm (1.18 x 0.87 x 0.09 inch)

**Weight** 1. Type 2230: 3.1 g **Operating Voltage** 3.3 v +/- 9 %

Integrated Bluetooth® specifications

**Bluetooth® Specification** 4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Compliant

Frequency Band 2402 to 2480 MHz

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

BLE: 0~39 (2 MHz/CH)

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

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)
The Bluetooth component shall operate as a Class I Bluetooth

**Transmit Power** The Bluetooth component shall operate as a Class I Bluetooth device with a maximum transmit power of +15.5 dBm for BR and

device with a maximum transmit power of +15.5 doin for by and

+13dBm for 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

**Certifications** FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407; ETSI 300

328, ETSI 301 893, ETSI 303 687

**Bluetooth® Profiles Supported** 2Mbps LE

Advanced Audio Distribution Profile (A2DP)

Basic Imaging Profile (BIP)

Bluetooth 4.1 -ESR 5/6/7 Compliance Bluetooth 4.2 ESR08 Compliance

Bluetooth 5.2

Bluetooth 5.3 wireless card



### HP EliteBook 8 G1a 16 inch Notebook Next Gen AI PC

**Channel Selection Algo** 

Encryption key size control enhancements

ESR9/10 Compliance

FAX Profile (FAX)

Hands Free Profile (HFP)

Headset Profile (HSP)

LE Advertisement Extensions

LE Data Packet Length Extension

LE Dual Mode

LE L2CAP Connection Oriented Channels

LE Link Layer

**LE Link Layer Ping** 

LE Long Range

LE Low Duty Cycle Directed Advertising

LE Privacy 1.2 - Extended Scanner Filter Policies

LE Privacy 1.2 -Link Layer Privacy

LE Secure Connection- Basic/Full

Limited High Duty Cycle Non-Connectable Advertising

Periodic Advertisement interval

Train Nudging & Interlaced Scan

Windows Bluetooth profiles support

1. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows OS, select processor, and a Wi-Fi 7 router, sold separately. Wi-Fi 7 is backwards compatible with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported. The specification for 802.11BE is a draft specification and is not final. If the final specification differs from the draft specification, it may affect the ability of the device to communicate with other 802.11BE devices.

2.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).

HP 5G Sub-6 CAT19

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 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)

Wireless protocol standards 5GNR Air Interface

3GPP Rel15 5G NR sub-6

LTE Rel15

3GPP Release 8 UMTS Specification

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

GPS bands GPS L1 (1575.42MHz), GLONASS L1 (1602MHz), Beidou B1

(1561.098MHz), Galileo E1 (1575.42MHz), QZSS (1575.42MHz)

Maximum data rates SA 5G/NR sub-6 Peak: 4.67 Gbps(Download), 1.25 Gbps(Upload)

Maximum output power HSPA+: 23.5 dBm

uni output powei norat. 25.5 ubili

LTE (all bands except B41): 23.0 dBm (Not support HPUE)
NR (all band except n41, n77, n78, n79): 23.0 dBm (Not support

HPUE,

NR n41, n77, n78, n79 HPUE: 26.0 dBm (Support HPUE)

**Maximum power consumption** 5G Sub 6: 3,500 mA

LTE: 2,500 mA (peak); mA (average)

 Form Factor
 M.2; 3052-S3 Key B

 Weight
 8.6 g (0.303 oz)

**Dimensions** 30.00 x 52.00 x 2.30 mm (1.18 x 2.05 x 0.09 inch)

(Length x Width x Thickness)

embedded eSIM Yes



#### HP EliteBook 8 G1a 16 inch Notebook Next Gen Al PC

## QuickSpecs

1. 5G module is optional. WWAN-ready configuration must be selected at purchase to add WWAN at a later date. 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.

**HP 4G CAT19** 

#### **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)

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 34: 2010 to 2025 MHz (UL/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)



Wireless protocol standards LTE Rel15

3GPP Release 8 UMTS Specification Standalone/A-GPS (MS-A, MS-B)

GPS Standalone/A-GPS (MS-A, MS-B)
GPS bands GPS L1 (1575.42MHz), GLONASS L1 (1602MHz), Beidou B1

(1561.098MHz), Galileo E1 (1575.42MHz), QZSS (1575.42MHz)

Maximum data rates UE Category DL 19 (1.6 Gbps Download), UE Category UL 18 (211

Mbps Upload)

Maximum output power LTE (all bands except B41): 23.0 dBm (Not support HPUE)

**Maximum power consumption** 

LTE: 2,500 mA (peak)

 Form Factor
 M.2; 3052-S3 Key B

 Weight
 8.4 g (0.296 oz)

**Dimensions** 30.00 x 52.00 x 2.30 mm (1.18 x 2.05 x 0.09 inch)

(Length x Width x Thickness)

embedded eSIM Yes

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 Mirage WNC XRAV-1 Dimensions (L x W x H) 17.00 x 10.00 x 2.00 mm (0.67 x 0.39 x 0.08 inch)

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 Type 1, Type 2, Type 3 / Type 4, NFCIP-1 / NFCIP-2

Reader (PCD-VCD) Mode ISO/IEC 14443 A

ISO/IEC 14443 B ISO/IEC 15693 MIFARE 1K MIFARE 4K MIFARE DESFire

FeliCa

Jewel and Topaz ISO/IEC 14443 A

Mode ISO/IEC 14443 B and B'

MIFARE FeliCa

Frequency 13.56 MHz

**Card Emulation (PICC-VICC)** 



## QuickSpecs HP EliteBook 8 G1a 16 inch Notebook Next Gen AI PC

NFC Modes Supported Reader/Writer, Peer-to-Peer

**Raw RF Data Rates** 106 kbps, 212 kbps, 424 kbps, 848 kbps **Operating temperature** Operating: 0 °C to 70 °C (32 °F to 158 °F) Storage: -20 °C to 125 °C (-4 °F to 257 °F)

**Storage temperature** Operating: 10% - 90% (non-condensing)

Non-Operating: 5% - 95% (non-condensing) Operating: 10% - 90% (non-condensing)

Non-Operating: 5% - 95% (non-condensing) **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\_B00ST = 5V

(Booster enable, VBAT= 3.3V,

VCC\_BOOST = 5V)

**Humidity** 

**Mode** Power Consumption, Typical

Polling 7.3 mA

**Detected Test Tag Type 1** Total 283.8 mA

Net Module 236.8 mA

**Detected Test Tag Type 2** Total 288.8 mA

Net Module 241.8 mA

Detected Test Tag Type 3 Total 287.7 mA

Net Module 240.7 mA

**Detected Test Tag Type 4** Total 282.3 mA

Net Module 235.3 mA

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

matching is external to module.

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.

Qualcomm 9205 LTE-M (CAT-M1 fSVC) <sup>1</sup> Technology/Operating bands

FDD LTE:

1700/2100 (Band 4), 1700/2100 (Band 66), 1800 (Band 3), 1900 (Band 2), 1900 (Band 25), 2100 (Band 1), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 14 upper), 700 (Band 28), 700 (band 85), 800 (Band 20), 800 (Band 27), 850 (Band 18 lower), 850 (Band 18 lo

19 upper), 850 (Band 26), 850 (Band 5), 900 (Band 8) MHz

GSM/GPRS/EGPRS:

1800, 1900, 850, 900 MHz

Wireless protocol standards 3GPP TS 21.111 V10.0.0: USIM and IC card requirements

3GPP TS 27.005 V10.0.1: Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)

3GPP TS 27.007 V10.0.8: AT command set for User Equipment (UE)



#### HP EliteBook 8 G1a 16 inch Notebook Next Gen Al PC

3GPP TS 31.102 V10.11.0: Characteristics of the Universal

Subscriber Identity Module (USIM) application

3GPP TS 31.11 V10.16.0: Universal Subscriber Identity Module

(USIM) Application Toolkit (USAT)

3GPP TS 36.124 V10.3.0: Electro Magnetic Compatibility (EMC) requirements for mobile terminals and ancillary equipment 3GPP TS 36.521-1 V14.3.0: User Equipment (UE) conformance specification; Radio transmission and reception; Part 1:

Conformance testing

3GPP TS 51.010-1 V10.5.0: Mobile Station (MS) conformance

specification; Part 1: Conformance specification

3GPP TS 51.011 V4.15.0: Specification of the Subscriber Identity

Module -Mobile Equipment (SIM-ME) interface

GPS Standalone GPS/Beidou/GLONASS/A-GPS (XTRA)

**GPS bands** 1575.42 MHz ± 1.023 MHz, GL0NASS 1596-1607MHz, Beidou

1561.098 MHz

Maximum data rates LTE FDD: 375.00 Kbps(Download), 1119.00 Kbps(Upload)

GPRS: 107.00 Kbps(Download), 85.60 Kbps(Upload)
EGPRS: 296.00 Kbps(Download), 236.80 Kbps(Upload)

Maximum output power LTE (all bands except B41): 21.5 dBm

GSM: 34.0 dBm

**Maximum power consumption** LTE: 151 mA(peak), 16 mA(average)

Form Factor M.2

**Weight** 4.0 g (0.141 oz)

**Dimensions** 22.00 x 42.00 x 2.30 mm (0.87 x 1.65 x 0.09 inch)

(Length x Width x Thickness)

embedded eSIM Support

1. LPWAN (also called Mobile Narrowband) support HP Protect & Trace with Wolf Connect service through the subscription term, but do not support mobile broadband use.



#### **POWER**

Power supply availability may vary by country.

HP 100W Slim USB Type-C® AC

power adapter

Weight (DC Cable Included) 340g(+/-10g) (Not including power cord. Power cord varies by

country.)

Input 100 ~ 240 Vac

Input Efficiency 81.50% min at 115 Vac / 230 Vac @5.00V

86.70% min at 115 Vac / 230 Vac @9.00V 88.00% min at 115 Vac / 230 Vac @12.00V 89.00% min at 115 Vac / 230 Vac @15.00V 89.00% min at 115 Vac / 230 Vac @20.00V

Input frequency range 47 ~ 63Hz

Input AC current Max. 1.6 A at 90 Vac

Output

Output power 5V/15W

9V/27W 12V/60W 15V/75W 20V/100W

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

Hold-up time 100% load 5ms at 115 Vac input / 80% load 10ms at 115 Vac input

Output Over Current Protection 5V/9V/12V/15V<125% max current, 20V<135% max current

AC Inlet Type C6

DC Cable Connector USB type C
DC Cable Material PVC

Connector

Connector C6

**Environmental Design** 

Operating temperature 0° to 35° C (32° to 95° F) Non-operating (storage) -20° to 85° C (-4° to 185° F)

temperature

Altitude 0 to 5,000 m (0 to 16,400 ft)

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, IEC 62368-1:2014 and

IEC62368-1:2018, EN62368-1:2020+A11, UL 62368-1

Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC, CU(EAC), KCC(Safety+EMC), NOM-001 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC, Ukraine(CoC+DoC+RoHS+ECO)



### HP EliteBook 8 G1a 16 inch Notebook Next Gen AI PC

#### **Battery**

Battery is internal. Serviceable by warranty.

HP Long Life 3 cell 62Whr

**Polymer** 

Dimensions (H x W x L)

Weight Max 236.0g

Cells/Type 3cell Lithium-Ion Polymer cell

Energy

Voltage 11.58V

Amp-hour capacity 5355mAh / 5086mAh

Watt-hour capacity 62Whr

**Temperature** 

Operating (Charging) 0° C ~ 40° C Operating (Discharging) -10° C ~ 40° C

Optional Travel Battery No

Available

HP Long Life 8 cell 77Whr

Polymer

Dimensions (H x W x L)

L 268 mm\* W 73 mm\* T 10.06 mm

L 255.8 mm\* W 67.8mm\* T 7.4mm

Weight Max 300g

Cells/Type 8cell Lithium-Ion Polymer cell

Energy

Voltage 15.44V

Amp-hour capacity 4988mAh / 4738mAh

Watt-hour capacity 77Whr

Temperature

Operating (Charging) 0° C ~ 40° C Operating (Discharging) -10° C ~ 40° C

Optional Travel Battery No

Available



**Multi-streaming Capable** 

### HP EliteBook 8 G1a 16 inch Notebook Next Gen AI PC

**AUDIO** 

Codec Realtek ALC3315

**Audio I/O Ports** 3.5mm Headset: CTIA only; Headphone-out

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

Playback multi-streaming can be enabled in the audio control panel to allow

independent audio streams to be sent to/from the front jacks or integrated speaker.,

Following MSFT Behavior

Sampling DAC: Supports resolutions from 16-bit to 24-bit;48.0 kHZ to 48.0 kHz

ADC: Supports resolutions from 16-bit to 24-bit;44.1 kHZ to 48.0 kHz

**Internal Speaker** Yes



### HP EliteBook 8 G1a 16 inch Notebook Next Gen AI PC

## QuickSpecs

### **FINGERPRINT READER**

Sensor vendorSYNAPTICSSensor typeCapacitiveDPI resolution363 DPIScan area104 x 86 pixels

False Rejection Rate < 3%False Acceptance Rate < 0.001%Mobile Voltage Operation  $2.7 \text{ V} \sim 3.6 \text{ V}$ 

**Operating Temperature**  $5^{\circ}\text{C} \sim 60^{\circ}\text{C} (41^{\circ}\text{F} \sim 140^{\circ}\text{F})$ 

Current Consumption Image100 mA maxLow Latency Wait For Finger260 uACapture Rate50 frames/sec

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

**Detection Matrix** 363 dpi / 7.4 x 6.0 mm sensor area

Sensor vendorELANSensor typeCapacitiveDPI resolution363 DPIScan area56 x 56 pixels

**Operating Temperature**  $-20^{\circ}\text{C} \sim 80^{\circ}\text{C} (-4^{\circ}\text{F} \sim 176^{\circ}\text{F})$ 

Current Consumption Image100 mA maxLow Latency Wait For Finger300 uACapture Rate50 frames/sec

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

**Detection Matrix** 363 dpi / 4.0 x 4.0 mm sensor area



OPTIONS		
Category	Description	Part Number
Adapters	HP HDMI to VGA Adapter	H4F02AA
	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z7Z7AA
	HP USB-C to DisplayPort Adapter G2	8Y8Y1AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to RJ45 Adapter G2	4Z527AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to VGA Adapter	N9K76AA
Audio - Earbuds	Poly Voyager Free 60 UC Carbon Black Earbuds +BT700 USB-C	7Y8H4AA
	Adapter +Basic Charge Case	
	Poly Voyager Free 60 UC M Carbon Black Earbuds +BT700 USB-C Adapter +Basic Charge Case	7Y8L8AA
	Poly Voyager Free 60+ UC Carbon Black Earbuds +BT700 USB-C	7Y8G4AA,7Y8H2AA
	Adapter +Touchscreen Charge Case	71004AA,710112AA
	Poly Voyager Free 60+ UC M Carbon Black Earbuds +BT700 USB-C	7Y8H0AA
	Adapter +Touchscreen Charge Case	
Audio - Headset	Poly Blackwire 3210 Monaural USB-C Headset +USB-C/A Adapter	8X214AA
	Poly Blackwire 3215 Monaural USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X227AA
	Poly Blackwire 3220 Stereo USB-C Headset +USB-C/A Adapter	93S87AA,8X228AA
	Poly Blackwire 3310 Monaural Microsoft Teams Certified USB-C Headset +USB-C/A Adapter	8X216AA
	Poly Blackwire 3310 Monaural USB-C Headset +USB-C/A Adapter	8X215AA
	Poly Blackwire 3315 Monaural Microsoft Teams Certified USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X218AA
	Poly Blackwire 3315 Monaural USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X217AA
	Poly Blackwire 3320 Stereo Microsoft Teams Certified USB-C Headset +USB-C/A Adapter	8X220AA
	Poly Blackwire 3320 Stereo USB-C Headset +USB-C/A Adapter	8X219AA
	Poly Blackwire 3325 Stereo Microsoft Teams Certified USB-C	8X222AA
	Headset +3.5mm Plug +USB-C/A Adapter	
	Poly Blackwire 3325 Stereo USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X221AA
	Poly Blackwire 5210 Monaural USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X230AA
	Poly Blackwire 5220 Stereo USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X231AA,93S88AA
	Poly Blackwire 8225 Stereo Microsoft Teams Certified USB-C Headset +USB-C/A Adapter	8X225AA



Poly Blackwire 8225 Stereo USB-C Headset +USB-C/A Adapter	8X223AA
Poly EncorePro 310 Monaural USB-A Headset	767G1AA
Poly EncorePro 310 Monoaural with Quick Disconnect Headset	77T43AA
Poly EncorePro 310 USB-C Monoaural Headset	760Q8AA
Poly EncorePro 320 Stereo USB-A Headset	767G0AA
Poly EncorePro 320 Stereo USB-C Headset	767F9AA
Poly EncorePro 320 with Quick Disconnect Binaural Headset	77T26AA
Poly EncorePro 510 Monaural Headset +Quick Disconnect	783Q2AA
Poly EncorePro 515 Microsoft Teams Certified Monoaural with	783R1AA
USB-A Headset	
Poly EncorePro 515 Monoaural with USB-A Headset	783R0AA
Poly EncorePro 520 Binaural Headset +Quick Disconnect	783P7AA
Poly EncorePro 525 Microsoft Teams Certified Stereo with USB-A	783R2AA
Headset	
Poly EncorePro 525 USB-A Stereo Headset	783R3AA
Poly EncorePro 530 Headset +Quick Disconnect	783P3AA
Poly EncorePro 540 Convertible Headset +Quick Disconnect	783P1AA
Poly EncorePro 715 USB-A Monoaural Headset	783N5AA
Poly EncorePro 720 Binaural Headset +Quick Disconnect	8R707AA
Poly EncorePro 725 USB-A Stereo Headset	783M6AA
Poly EncorePro HW710 Single Ear Headset +Carry Case +Quick	8R708AA
Disconnect	
Poly Savi 7310 Office DECT 1880-1900 MHz Single Ear Headset	8D3G3AA
(EMEA + APJ)	
Poly Savi 7310 Office Monaural DECT 1920-1930 MHz Headset (NA)	7S430AA
Poly Savi 7310 UC Monaural DECT 1880-1900 MHz Headset (EMEA + APJ)	8L561AA
Poly Savi 7310 UC Monaural DECT 1920-1930 MHz Headset (NA)	8L570AA
Poly Savi 7310 UC Monaural Microsoft Teams Certified DECT 1880-	8L575AA
1900 MHz Headset (EMEA + APJ)	023737
Poly Savi 7310 UC Monaural Microsoft Teams Certified DECT 1920-	8L585AA
1930 MHz Headset (NA)	023037111
Poly Savi 7310-M Office DECT 1880-1900 MHz Single Ear Headset	8D3K7AA
(EMEA + APJ)	
Poly Savi 7310-M Office DECT 1920-1930 MHz Single Ear Headset	7S439AA
(NA)	
Poly Savi 7320 Office Stereo DECT 1880-1900 MHz Headset (EMEA	8D3F7AA
+ APJ)	0005044
Poly Savi 7320 Office Stereo DECT 1893-1906 MHz Headset (Japan)	8D3F8AA
Poly Savi 7320 Office Stereo DECT 1910-1920 MHz Headset (NA)	8D3G0AA
Poly Savi 7320 Office Stereo DECT 1920-1930 MHz Headset (NA)	7S429AA
Poly Savi 7320 UC Stereo DECT 1880-1900 MHz Headset (EMEA +	8L545AA
APJ)  Poly Savi 7320 UC Stores DECT 1803, 1006 MHz Hoadcet (Japan)	01 54644
Poly Savi 7320 UC Stereo DECT 1893-1906 MHz Headset (Japan)	8L546AA



Poly Savi 7320 UC Stereo DECT 1920-1930 MHz Headset (NA)	8L549AA
Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1880-	8L553AA
1900 MHz Headset (EMEA + APJ)	
Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1893-	8L555AA
1906 MHz Headset (Japan)	
Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1920-	8L559AA
1930 MHz Headset (NA)	
Poly Savi 7320-M Office Stereo DECT 1880-1900 MHz Headset	8D3J6AA
(EMEA + APJ)	
Poly Savi 7320-M Office Stereo DECT 1893-1906 MHz Headset	8D3K2AA
(Japan)	
Poly Savi 7320-M Office Stereo DECT 1910-1920 MHz Headset (NA)	8D3K0AA
Poly Savi 7320-M Office Stereo DECT 1920-1930 MHz Headset (NA)	7S435AA
Poly Savi 7410 Office Monaural DECT 1880-1900 MHz Headset	8L589AA
(EMEA + APJ)	
Poly Savi 7410 Office Monaural DECT 1893-1906 MHz Headset	8L591AA
(Japan)	
Poly Savi 7410 Office Monaural DECT 1920-1930 MHz Headset (NA)	8L7D5AA
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT	8L593AA
1880-1900 MHz Headset (EMEA + APJ)	
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT	8L594AA
1893-1906 MHz Headset (Japan)	
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT	8L597AA
1910-1920 MHz Headset (NA)	
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT	8L7D7AA
1920-1930 MHz Headset (NA)	
Poly Savi 7420 Office Stereo DECT 1880-1900 MHz Headset (EMEA	8L560AA
+ APJ)	
Poly Savi 7420 Office Stereo DECT 1893-1906 MHz Headset (Japan)	8L563AA
Poly Savi 7420 Office Stereo DECT 1910-1920 MHz Headset (NA)	8L564AA
Poly Savi 7420 Office Stereo DECT 1920-1930 MHz Headset (NA)	8L567AA
Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1880-	8L574AA
1900 MHz Headset (EMEA + APJ)	
Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1893-	8L576AA
1906 MHz Headset (Japan)	
Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1910-	8L579AA
1920 MHz Headset (NA)	
Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1920-	8L583AA
1930 MHz Headset (NA)	
Poly Savi 8210 Office DECT 1880-1900 MHz Single Ear Headset	8D3K5AA
(EMEA + APJ)	
Poly Savi 8210 Office DECT 1910-1920 MHz Single Ear Headset	8D3K6AA
(NA)	
Poly Savi 8210 Office DECT 1920-1930 MHz Single Ear Headset	7S445AA



(NA)	
Poly Savi 8210 UC DECT 1880-1900 MHz USB-A Headset (EMEA +	8D3E9AA
APJ)	ODJEJAA
Poly Savi 8210 UC DECT 1920-1930 MHz USB-A Headset (NA)	77T29AA
Poly Savi 8210 UC Microsoft Teams Certified DECT 1880-1900 MHz	8D3F1AA
USB-A Headset (EMEA + APJ)	020
Poly Savi 8210 UC Microsoft Teams Certified DECT 1920-1930 MHz	77T31AA
USB-A Headset (NA)	
Poly Savi 8210-M Office DECT 1880-1900 MHz Single Ear Headset	8D3J8AA
(EMEA + APJ)	
Poly Savi 8210-M Office DECT 1910-1920 MHz Single Ear Headset	8D3K1AA
(NA)	
Poly Savi 8210-M Office DECT 1920-1930 MHz Single Ear Headset	7S447AA
(NA)	
Poly Savi 8220 Office Stereo DECT 1880-1890 MHz Headset (EMEA	8D3J1AA
+ APJ)	
Poly Savi 8220 Office Stereo DECT 1880-1900 MHz Headset (EMEA	8D3J2AA
+ APJ)	
Poly Savi 8220 Office Stereo DECT 1910-1920 MHz Headset (NA)	8D3J4AA
Poly Savi 8220 Office Stereo DECT 1920-1930 MHz Headset (NA)	7S4B5AA
Poly Savi 8220 Stereo DECT 1880-1900 MHz Top +Charging Cradle	8Y9C4AA
(EMEA + APJ)	
Poly Savi 8220 UC DECT 1880-1900 MHz USB-A Headset (EMEA +	8D3F2AA
APJ)	7777744
Poly Savi 8220 UC DECT 1920-1930 MHz USB-A Headset (NA)	77T33AA
Poly Savi 8220 UC Microsoft Teams Certified DECT 1880-1900 MHz USB-A Headset (EMEA + APJ)	8D3F5AA
Poly Savi 8220 UC Microsoft Teams Certified DECT 1920-1930 MHz	77Y82AA
USB-A Headset (NA)	11102AA
Poly Savi 8220-M Office Stereo DECT 1880-1900 MHz Headset	8D3H8AA
(EMEA + APJ)	ODSHOM
Poly Savi 8220-M Office Stereo DECT 1910-1920 MHz Headset (NA)	8D3J0AA
Poly Savi 8220-M Office Stereo DECT 1920-1930 MHz Headset (NA)	7S4B6AA
Poly Savi 8245 DECT 1880-1900 MHz Headset +USB-A to USB-C	8D3H2AA
Cable +D400 (APJ)	
Poly Savi 8245 Office DECT 1880-1900 MHz USB-A Headset (APJ)	8D3H1AA
Poly Savi 8245 Office DECT 1920-1930 MHz USB-A Headset (NA)	7W6D1AA
Poly Savi 8245-M Microsoft Teams Certified DECT 1880-1900 MHz	8D3F4AA
USB-A Headset +D200 (APJ)	
Poly Savi 8245-M Office Microsoft Teams Certified DECT 1880-	8D3H7AA
1900 MHz USB-A Headset ( APJ)	
Poly Savi 8245-M Office Microsoft Teams Certified DECT 1920-	7W069AA
1930 MHz USB-A Headset (NA)	
Poly Savi 8410 Office Monaural DECT 1880-1900 MHz Headset	8L5A7AA



(EMEA + APJ)	
Poly Savi 8410 Office Monaural DECT 1920-1930 MHz Headset (NA)	8L7E6AA
Poly Savi 8410 Office Monaural Microsoft Teams Certified DECT	8L5A9AA
1880-1900 MHz Headset (EMEA + APJ)	
Poly Savi 8410 Office Monaural Microsoft Teams Certified DECT	8L7E9AA
1920-1930 MHz Headset (NA)	
Poly Savi 8420 Office Stereo DECT 1880-1900 MHz Headset (EMEA	8L5B2AA
+ APJ)	
Poly Savi 8420 Office Stereo DECT 1920-1930 MHz Headset (NA)	8L7F2AA
Poly Savi 8420 Office Stereo Microsoft Teams Certified DECT 1880-	8L5B3AA
1900 MHz Headset (EMEA + APJ)	
Poly Savi 8420 Office Stereo Microsoft Teams Certified DECT 1920-	8L7F5AA
1930 MHz Headset (NA)	
Poly Savi 8445 Office DECT 1880-1900 MHz Convertible Headset (	8L5B4AA
APJ)	
Poly Savi 8445 Office DECT 1920-1930 MHz Convertible Headset	8L7F8AA
(NA)	
Poly Savi 8445 Office Microsoft Teams Certified DECT 1880-1900	8L5B6AA
MHz Convertible Headset ( APJ)	
Poly Savi 8445 Office Microsoft Teams Certified DECT 1920-1930	8L7F1AA
MHz Convertible Headset (NA)	
Poly Voyager 4310 Microsoft Teams Certified Headset +BT700	77Y93AA
dongle +Charging Stand	
Poly Voyager 4310 Microsoft Teams Certified USB-A Headset	77Y91AA
+BT700 dongle	
Poly Voyager 4310 Microsoft Teams Certified USB-C Headset	77Y95AA
+BT700 dongle	
Poly Voyager 4310 UC Monaural Headset +BT700 USB-A Adapter	77Y92AA
+Charging Stand	
Poly Voyager 4310 USB-A Headset +BT700 dongle	76U48AA
Poly Voyager 4310 USB-C Headset +BT700 dongle +Charging Stand	77Y96AA
Poly Voyager 4310 USB-C Headset +BT700 dongle	77Y94AA
Poly Voyager 4310-M Microsoft Teams Certified USB-C Headset	77Y97AA
+BT700 dongle +Charging Stand	=1/04.04.4
Poly Voyager 4310-M UC Headset +USB-A to USB-C Cable +BT700	7Y210AA
dongle	7770044
Poly Voyager 4320 Microsoft Teams Certified Headset +BT700	77Z00AA
dongle +Charging Stand	771/0044
Poly Voyager 4320 Microsoft Teams Certified USB-A Headset	77Y98AA
+BT700 dongle	7772044
Poly Voyager 4320 Microsoft Teams Certified USB-C Headset	77Z30AA
+BT700 dongle	7770044
Poly Voyager 4320 UC Stereo USB-A Headset +BT700 USB-A Adapter +Charging Stand	77Y99AA
Adapter Charging Stand	



Audio - Speaker phone

Poly Voyager 4320 USB-A Headset +BT700 dongle	76U49AA
1 oty voyaget 4320 03b A fieddaet 1 b 1700 doingte	/ UU <del>1</del> 3AA
Poly Voyager 4320 USB-C Headset +BT700 dongle +Charging Stand	77Z31AA
Poly Voyager 4320 USB-C Headset +BT700 dongle	76U50AA
	7Y211AA
	77Z32AA
Poly Voyager Focus 2 Microsoft Teams Certified USB-C-C Headset	9T9J6AA
	9T9J3AA
Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter	9T9J5AA
+Charging Stand	
Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C	9D452AA
Black Headset +USB-C/A Adapter	
Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C	8H2G3AA,8G7U0AA
Headset +USB-C/A Adapter	
Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C	9C6W5AA
Headset +USB-C/A Adapter Demo	
Poly Voyager Surround 80 UC USB-C Headset +USB-C/A Adapter	8G7T9AA
Poly Voyager Surround 85 UC Microsoft Teams Certified USB-C	8G7T8AA
Headset +USB-C/A Adapter +Charging Stand	
Poly Voyager Surround 85 UC USB-C Headset +USB-C/A Adapter	8G7T7AA
+Charging Stand	
Poly Sync 10 Microsoft Teams Certified Speakerphone	77P34AA
Poly Sync 10 Speakerphone +USB-A to USB-C Cable	7S4M6AA
Poly Sync 10 USB-A USB-C Speakerphone	772C3AA
Poly Sync 20 Microsoft Teams Certified USB-A Speakerphone	772C8AA
Poly Sync 20 USB-A Speakerphone	772D2AA
Poly Sync 20 USB-C Speakerphone	7F0J7AA
	772C9AA
Poly Sync 20+ Microsoft Teams Certified USB-C Speakerphone	772D1AA
Poly Sync 20+ USB-A Speakerphone	772C6AA
	772D0AA
Poly Sync 20+M Speakerphone +USB-A to USB-C Cable +BT700	7Y215AA
dongle +Pouch	
	7F0J8AA
	7S4M1AA
	77P35AA
	772C4AA
	77P36AA
	772C5AA
	77P41AA
	772C2AA
HP 625 Webcam	6Y7L1AA
	Poly Voyager 4320 USB-C Headset +BT700 dongle +Charging Stand Poly Voyager 4320 USB-C Headset +BT700 dongle Poly Voyager 4320-M +USB-A to USB-C Cable +BT700 dongle Poly Voyager 4320-M Hicrosoft Teams Certified Headset +BT700 dongle +Charging Stand Poly Voyager Focus 2 Microsoft Teams Certified USB-C-C Headset +USB-C/A Adapter +Charging Stand Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Black Headset +USB-C/A Adapter Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Poly Voyager Surround 80 UC USB-C Headset +USB-C/A Adapter Poly Voyager Surround 80 UC USB-C Headset +USB-C/A Adapter Poly Voyager Surround 85 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter +Charging Stand Poly Voyager Surround 85 UC USB-C Headset +USB-C/A Adapter +Charging Stand Poly Sync 10 Microsoft Teams Certified Speakerphone Poly Sync 10 Microsoft Teams Certified Speakerphone Poly Sync 10 USB-A USB-C Speakerphone Poly Sync 20 Microsoft Teams Certified USB-A Speakerphone Poly Sync 20 Microsoft Teams Certified USB-A Speakerphone Poly Sync 20 Hicrosoft Teams Certified USB-A Speakerphone Poly Sync 20+ Microsoft Teams Certified USB-A Speakerphone Poly Sync 20+ USB-A Speakerphone Poly Sync 20+ USB-A Speakerphone Poly Sync 20+ USB-A Speakerphone Poly Sync 20-M Microsoft Teams Certified USB-C Speakerphone Poly Sync 40-M Microsoft Teams Certified Speakerphone Poly Sync 40-M Microsoft Teams Certified Speakerphone Poly Sync 40-M Microsoft Teams Certified Speakerphone Poly Sync 40-M USB-A USB-C Speakerphone +BT700 USB-A Adapter Poly Sync 40-M USB-A USB-C Speakerphone +BT700 USB-A Adapter Poly Sync 60 Microsoft Teams Certified Sp



Camera

### HP EliteBook 8 G1a 16 inch Notebook Next Gen AI PC

	HP USB-A 325 Webcam	53X27AA,53X27UT
Cases	HP Campus XL Marble Stone Backpack	7K0E2AA
cases	HP Campus XL Tie Dye Backpack	7K0E3AA
	HP Convertible Laptop Stand	9C2H2AA
	HP Renew Business 17.3 Laptop Backpack	3E2U5UT
	HP Renew Business 17.3 Laptop Backpack  HP Renew Business 17.3 Laptop Bag	3E2U6AA
	HP Renew Executive 16 Laptop Backpack	6B8Y1AA,6B8Y1UT
	HP Renew Executive 16 Laptop Backpack  HP Renew Executive 16 Laptop Bag	6B8Y2AA
Commodity	HP USB DVD-Writer External ODD	F2B56AA
Commodity	HP Combination Nano Cable Lock	63B28AA
	HP Essential Combination Nano Cable Lock	63B31AA
	HP Nano Keyed Cable Lock	1AJ39AA
	HP Nano Master Keyed Cable Lock	1AJ40AA
	HP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA
Docking	HP Thunderbolt 4 100W G6 Dock	9X472UT
Docking	HP Thunderbolt 4 Ultra 180W G6 Dock	
		9X481UT
	HP Thunderbolt 4 Ultra 280W G6 Dock HP Thunderbolt™ 120W G4 Dock	AW5M5UT 4J0A2AA
	HP Thunderbolt 280W G4 Dock w/Combo Cable	4J0G4AA
	HP USB-C™ 120W G5 Dock	5TW10AA
II.d.	HP USB-C™/A 120W G2 Universal Dock	5TW13AA
Hub	HP 4K USB-C Multiport Hub	6G843AA,6G843UT
	HP Portable USB-C Hub	B8SU8UT
	HP Universal USB-C Hub and Laptop Charger Combo	9H0H9AA
	HP Universal USB-C Multiport Hub	50H55UT
	HP USB-C to USB-A Hub	Z6A00AA
	HP USB-C Travel Hub G3	86S97AA,86S97UT
Keyboard	HP 125 G2 Wired USB Keyboard	AY2Y7AA
	HP 320K G2 Wired USB Keyboard	9SR37UT
	HP 405 Multi-Device Backlit Wired Keyboard	7N7C1AA,7N7C1UT
	HP 435 Programmable Wireless Keypad	7N7C3AA
	HP 455 Programmable Wireless Keyboard	4R177AA
	HP 475 Dual-Mode Wireless Keyboard	7N7B9AA,7N7B9UT
	HP 485 Comfort Wired Keyboard	8T6M2AA
	HP 685 Comfort Dual-Mode Keyboard	8T6L9AA,8T6L9UT
	HP 725 Multi-Device Rechargeable Wireless Keyboard	9T5B2AA
	HP 965 black Ergonomic Wireless Keyboard	7E756AA
	HP 975 Dual-Mode USB+Bluetooth Wireless Keyboard	3Z726AA
Keyboard & Mouse Combo	HP 225 Wired Mouse and Keyboard Combo G2	AX2Y7AA
	HP 225 Wired Mouse and Keyboard Combo G2 White	AW5S6AA
	HP 655 Wireless Keyboard and Mouse Combo	4R009AA
	HP 655 Wireless Keyboard and Mouse Combo White	860P8AA
	HP 685 Comfort Dual-Mode Keyboard and Mouse Combo	8T6L7UT
	HP 725 Multi-Device Rechargeable Wireless Keyboard and Mouse	9T5B0UT



### HP EliteBook 8 G1a 16 inch Notebook Next Gen AI PC

	Combo	
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36UT
Mouse	HP 105 Mouse Pad	8X595AA
	HP 205 Desk Mat	8X597AA
	HP 685 Comfort Dual-Mode Mouse	8T6MOUT
	HP 695 Qi-Charging Wireless Mouse	8F1Y4AA
	HP 715 Rechargeable Multi-Device Bluetooth Mouse	6E6F0AA
	HP 925 Ergonomic Vertical Wireless Mouse	6H1A5AA
	HP Creator Black 935 Wireless Mouse	1D0K8AA
	HP Multi-Device Black 635 Wireless Mouse	1D0K2AA
Power	HP 110W USB-C Laptop Charger	8B3Y2AA,8B3Y2UT
Networking /Communications	HP 4G LTE-Advanced Pro Cat19 WWAN	B8BD3AA
	HP 5G Sub-6 WWAN	B8BD4AA



#### **CHANGELOG**

Date of change	Version History		Description of change
May 14, 2025	V1 to V2	Updated	Battery Life Section
May 22, 2025	V2 to V3	Updated	Docking Section
			Camera Section
May 26, 2025	V3 to V4	Updated	Ports Section
June 11, 2025	V4 to V5	Updated	Weight & Dimensions
June 17, 2025	V5 to V6	Updated	Audio/Multimedia
July 21, 2025	V6 to V7	Updated	Power Section
August 19, 2025	V7 to V8	Updated	Software and Security Section
September 1, 2025	V8 to V9	Updated	Networking /Communications
			Section
			Options Section
September 5, 2025	V9 to V10	Updated	Networking /Communications
			Section
September 15, 2025	V10 to V11	Updated	Software and Security Section

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