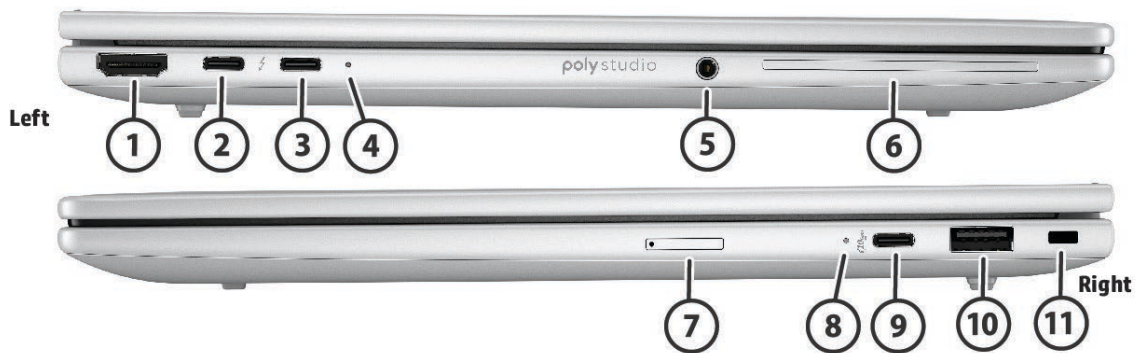


## HP EliteBook 8 G1i 13 inch Notebook AI PC



### Front

- |   |                      |   |                    |
|---|----------------------|---|--------------------|
| 1 | ACS & ALS Sensor     | 5 | Camera Shutter     |
| 2 | Microphone (2)       | 6 | IR LEDs (optional) |
| 3 | IR Camera (optional) | 7 | Web Cam LED        |
| 4 | Web Cam              | 8 | Touchpad           |



### Sides

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

### PRODUCT NAME

HP EliteBook 8 G1i 13 inch Notebook AI PC

### OPERATING SYSTEMS

#### Preinstalled

FreeDOS

Windows 11 Home - HP recommends Windows 11 Pro for business <sup>1</sup>

Windows 11 Home Single Language - HP recommends Windows 11 Pro for business <sup>1</sup>

Windows 11 Pro (Windows 11 Enterprise available with a Volume Licensing Agreement) <sup>1</sup>

Windows 11 Pro <sup>1</sup>

Windows 11 Pro Education <sup>1</sup>

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>.

### PROCESSORS

| Processor<br><small>2,3,4</small>  | Cores    | Number of P-cores | Number of E-cores | Number of LPE-cores | Threads | Smart Cache | Max Turbo Frequency |          | Intel SIPP/vPro® Enterprise | Integrated Graphics | NPU     |
|------------------------------------|----------|-------------------|-------------------|---------------------|---------|-------------|---------------------|----------|-----------------------------|---------------------|---------|
|                                    |          |                   |                   |                     |         |             | P-cores             | E-cores  |                             |                     |         |
| Intel® Core™ Ultra7 processor 265U | 12 cores | 2                 | 8                 | 2                   | 14      | 12 MB       | 5.30 GHz            | 4.20 GHz | x                           | Intel® Graphics     | 12 TOPS |
| Intel® Core™ Ultra7 processor 255U | 12 cores | 2                 | 8                 | 2                   | 14      | 12 MB       | 5.20 GHz            | 4.20 GHz |                             | Intel® Graphics     | 12 TOPS |



# QuickSpecs

|   |             |   |   |   |    |       |             |             |   |                    |            |
|---|-------------|---|---|---|----|-------|-------------|-------------|---|--------------------|------------|
| Intel® Core™<br>Ultra5<br>processor<br>235U | 12<br>cores | 2 | 8 | 2 | 14 | 12 MB | 4.90<br>GHz | 4.10<br>GHz | x | Intel®<br>Graphics | 12<br>TOPS |
| Intel® Core™<br>Ultra5<br>processor<br>225U | 12<br>cores | 2 | 8 | 2 | 14 | 12 MB | 4.80<br>GHz | 3.80<br>GHz |   | Intel®<br>Graphics | 12<br>TOPS |

### Processor Family

Intel® Core™ Ultra7 processor

Intel® Core™ Ultra5 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. Intel's numbering, branding and/or naming is not a measurement of higher performance.

3. 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>.

4. For full Intel® vPro® functionality, Windows 10 Pro 64 bit, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or WLAN card and TPM 2.0 are required. Some functionality requires additional 3rd party software in order to run. See

<http://intel.com/vpro>



### GRAPHICS

#### Integrated

Intel® Graphics

#### Supported Protocols

Support HDMI 2.1

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

Up to 4

#### Codec

Hardware Acceleration HEVC (H.265) CODEC is supported

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### DISPLAY

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

Availability may vary by country.

#### Non-Touch

33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, Low Blue Light, 800 nits, sRGB 100%, HP Sure View 5<sup>5</sup>

33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, WLED + Low Blue Light, 400 nits, Low Power, sRGB 100%

33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, WLED, 300 nits, sRGB 62.5%

#### Touch

33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), LCD, Touch, UWVA, Anti-Glare, WLED, 300 nits, sRGB 62.5%

#### Display Size (Diagonal)

33.8 cm (13.3")

#### Screen to Body Ratio

Up to 87.54%<sup>6</sup>

#### Aspect Ratio

16:10<sup>7</sup>

#### Max Hinge Open Angle

169 ± 3°

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.

6. Screen to body ratio is the percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk

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



### DOCKING (SOLD SEPARATELY)

|   |  |
|---|--|
| Docking station model #1  | HP Thunderbolt 4 100W G6 Dock  |
| Total number of supported displays (incl. the notebook display) | 4  |
| Max. resolutions supported                                      | (4) 4K @60Hz*<br>(2) 4K @ 120Hz*<br>(3) QHD @ 120Hz*<br>(1) QHD @ 360Hz*   |
| Dock Connectors   | 1x HDMI 2.1, 2x DisplayPort 1.4, 1x Thunderbolt 4  |
| HP Quick Connect Support  | Yes  |
| Technical limitations   | <b>HP Quick Connect is supported on this platform.</b><br>*Requires DisplayPort 1.4 support with Display Stream Compression (DSC).<br>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 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  | HP USB-C™ Dock G5  |
| Total number of supported displays (incl. the notebook display) | 3  |
| Max. resolutions supported                                      | Multi-Function Mode: (2) 5k @ 30Hz and (1) 4k UHD @ 30Hz on any port |



|  |   |
|--|---|
| <b>Dock Connectors</b>   | High-Resolution Mode: (2) 5k @ 60Hz on DisplayPort ports and (1) 4k UHD @ 60Hz on HDMI port   |
| <b>Technical limitations</b>   | 1x HDMI 2.0, 2x DisplayPort 1.4<br>Maximum resolution and display support is dependent on the maximum capability of the notebook.   |
| <b>Docking station model #3</b>  | Highest resolution with dual displays is two 8K@ 60Hz host in High Resolution mode.<br>Three maximum displays supported are two 5K@ 30 Hz on DP ports plus one 4K UHD@ 30 Hz on HDMI in Multi-function mode<br>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.  |
| <b>Total number of supported displays (incl. the notebook display)</b> | HP Thunderbolt™ 120W G4 Dock<br>4   |
| <b>Max. resolutions supported</b>                                      | Quad 4K @60Hz<br>Dual 8K single cable@30 for Thunderbolt hosts or USB-C hosts DisplayPort 1.4 with Display Stream Compression in High-Resolution Mode   |
| <b>Dock Connectors</b>   | 2x HDMI 2.0, 2x DisplayPort 1.4, 1x Thunderbolt 4, 1x USB-C 3.2 Gen 2 DisplayPort   |
| <b>Technical limitations</b>   | Maximum resolution and display support is dependent on the maximum capability of the notebook.<br><br>Thunderbolt Hosts:<br>Maximum of (4) displays with maximum resolution of 5K@ 30Hz running Thunderbolt host.<br>Maximum resolution possible is dual 8K displays @ 60Hz running Thunderbolt host or running a non-Thunderbolt host in high resolution mode @30Hz<br>Non-Thunderbolt hosts:<br>The highest resolution for dual displays running a non-Thunderbolt host in multi-function mode is<br>(1) 5K dual cable (using both DP ports) +(1) 4K on USB-C DP port<br>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.

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### STORAGE AND DRIVES

All Gen5 SSDs on this system run at Gen4 speed.

For Gen5 SSD, read and write speeds are an average of the maximum values measured under full load conditions. Actual performance may vary +/- 10%.

For Gen4 SSD, read and write speeds are an average of the maximum values measured under full load conditions. Actual performance may vary +/- 20%

2 TB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell<sup>8</sup>

1 TB PCIe® Gen5 NVMe™ SSD Value<sup>8</sup>

1 TB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell<sup>8</sup>

1 TB PCIe® NVMe™ SSD Value<sup>8</sup>

512 GB PCIe® Gen5 NVMe™ SSD Value<sup>8</sup>

512 GB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell<sup>8</sup>

512 GB PCIe® Gen4x4 NVMe™ Self Encrypted OPAL2 SSD Three Layer Cell<sup>8</sup>

512 GB PCIe® NVMe™ SSD Value<sup>8</sup>

256 GB PCIe® NVMe™ Self Encrypted OPAL2 SSD Value<sup>8</sup>

256 GB PCIe® NVMe™ SSD Value<sup>8</sup>

[8. 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.](#)

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### MEMORY

#### Maximum Memory

64 GB LPDDR5X-8533 MT/s (onboard)<sup>9</sup>

#### Memory

64 GB LPDDR5X-8533 MT/s (onboard)<sup>9</sup>

32 GB LPDDR5X-7500 MT/s (onboard)<sup>9</sup>

16 GB LPDDR5X-7500 MT/s (onboard)<sup>9</sup>

#### Memory Slots

No memory slots. Memory soldered down.

System runs at 7467 MT/s

Supports Dual Channel Memory

The memory is non-accessible / non-upgradeable.

[9. 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.](#)

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### NETWORKING /COMMUNICATIONS

Optional feature.

#### WLAN

Intel® BE201 Wi-Fi 7 Bluetooth® 5.4 vPro® WW WLAN <sup>10</sup>

Intel® BE201 Wi-Fi 7 Bluetooth® 5.4 non-vPro® WW WLAN <sup>10</sup>

Intel® AX211 Wi-Fi 6E Bluetooth® 5.3 vPro® WW WLAN <sup>10</sup>

Intel® AX211 Wi-Fi 6E Bluetooth® 5.3 non-vPro® WW WLAN <sup>10</sup>

#### WWAN

HP 5G Sub-6 CAT19 <sup>11,12</sup>

HP 4G CAT19 <sup>13</sup>

#### LPWAN

Qualcomm 9205 LTE-M (CAT-M1 fSVC) <sup>13</sup>

#### NFC

NFC Mirage WNC XRAV-1

#### Miracast

Native Miracast Support <sup>14</sup>

10. 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.

11. 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.

12. 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.

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

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

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### AUDIO/MULTIMEDIA

Select product only (Privacy panel SKU).

#### 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>15</sup>

Thermal Sensor

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

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

#### Keyboard

HP Premium NB Keyboard, spill-resistant, backlit, DuraKey keyboard.

HP Premium NB Keyboard, spill-resistant, DuraKey keyboard.

HP Premium NB Keyboard, 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 - HOME

Power Button (with LED)

Insert

Delete

End

Page up

Page down

Microsoft Copilot<sup>16</sup>



### Hidden Function Keys

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

16. Copilot in Windows requires Windows 11. Some features require an NPU. Timing of feature delivery and availability varies by market and device. Requires Microsoft account to log in. Where Microsoft in Windows is not available, the Copilot key will lead to the Bing search engine. Use of Recall requires customer authentication using Windows Hello Enhanced Sign in Security (ESS) which requires a fingerprint reader or facial recognition camera and may not be supported on all platforms. See <http://aka.ms/WindowsAIFeatures>

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### SOFTWARE AND SECURITY

#### Application Software

Buy Microsoft Office (Sold Separately)

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 <sup>17</sup>

HP Smart Support <sup>18</sup>

HP Support Assistant <sup>19</sup>

HSA Fusion for Commercial

HSA Telemetry for Commercial

myHP <sup>20</sup>

Poly Camera Pro

Poly Lens <sup>21</sup>

#### Manageability Features

HP Client Catalog ([download](#)) <sup>22</sup>

HP Client Management Script Library ([download](#)) <sup>23</sup>

HP Cloud Recovery <sup>24</sup>

HP Connect for Microsoft Endpoint Manager <sup>25</sup>

HP Driver Packs ([download](#)) <sup>26</sup>

HP Image Assistant ([download](#)) <sup>27</sup>

HP Manageability Integration Kit ([download](#)) <sup>28</sup>

HP Power Manager with Battery Health Manager ([download](#)) <sup>29</sup>



### Security Management

Secured-Core PC Enable <sup>30</sup>

Windows Hello Enhanced Sign-In Security (ESS)

HP Wolf Security for Business which includes: <sup>31</sup>

HP Sure Admin <sup>32</sup>

HP Sure Click <sup>33</sup>

HP Sure Recover <sup>34</sup>

HP Sure Run <sup>35</sup>

HP Sure Sense <sup>36</sup>

HP Sure Start <sup>37</sup>

HP Tamper Lock <sup>38</sup>

### 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>39</sup>

Audio Permanent Disable

BIOS Update via Network

HP Bios Recovery

HP BIOSphere <sup>40</sup>

HP DriveLock & Automatic DriveLock

HP Fingerprint Sensor <sup>41</sup>

HP Secure Erase <sup>42</sup>

HP Wake on WLAN

### Smartcard Reader

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

17. HP Services Scan is preinstalled and/or provided thru Windows Update and checks for service entitlement on each hardware device and downloads the HP Insights agent automatically. To disable this feature, please follow the instructions at <http://www.hpdaas.com/requirements>. 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. Select HP Workforce Solutions require an HP Insights agent for Windows, Mac, & Android, available for download at <https://admin.hp.com/software>. For full system requirements and services that require the agent, please visit <https://admin.hp.com/requirements>. The agent collects telemetry and analytics around devices and applications that integrate into the Workforce Experience platform and is not sold as a standalone service. Internet access with connection to the Workforce Experience platform is required. HP follows stringent GDPR privacy regulations, and the platform is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Not available in China.

18. 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 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>

19. HP Support Assistant is available on Windows. For more information, please visit <http://www.support.hp.com/help/hp-support-assistant>.

20. MyHP requires Windows 10 or higher OS.

21. Poly Lens Desktop requires a Windows OS.

22. HP Client Catalog not preinstalled, however available for download at <https://www.hp.com/us-en/solutions/client-management->



[solutions.html](#)

23. HP Client Management Script Library <https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools>

24. 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>.

25. 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.

26. HP Driver Packs not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.

27. HP Image Assistant not preinstalled, however available for download at <https://ftp.ext.hp.com/pub/caps-softpaq/cmit/HPIA.html>

28. HP Manageability Integration Kit not presintalled, however available for downloaded from <https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools>

29. 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](https://support.hp.com/in-en/document/ish_4449597-3519507-16)

30. 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.

31. 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.

32. 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.

33. HP Sure Click requires Windows 10 and higher. See [https://bit.ly/2PrLT6A\\_SureClick](https://bit.ly/2PrLT6A_SureClick) for complete details.

34. 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.

35. HP Sure Run is available on select HP PCs and requires Windows 10 and higher.

36. 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.

37. HP Sure Start is available on select HP PCs and requires Windows 10 and higher.

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

39. 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,



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check with Absolute for availability outside the U.S. Certain conditions apply. For full details visit:

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

40. HP BIOSphere features may vary depending on the platform and configuration.

41. HP Fingerprint Reader is an optional feature that requires Windows 10 or 11 and must be configured at purchase.

42. 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™.

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### POWER

Power supply availability may vary by country.

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

#### Power Supply (availability may vary by country)

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

HP 65W Standard USB Type-C® AC power adapter

HP 65W USB Type-C® Gallium Nitride AC power adapter

HP 65W Slim USB Type-C® AC power adapter

HP 65W Standard USB Type-C® Halogen Free AC power adapter

#### Power Cord

3-wired plug- 1.0m

#### Battery

HP Long Life 3 cell, 62Whr Polymer

Compliant with UL 1642/2054 Standard

#### Battery Recharge Time

Supports battery HP Fast Charge: approximately 50% in 30 minutes <sup>43</sup>

Up to 18 hours and 45 minutes with 62whr battery (HP Long Life 3-Cell, 62 Whr Polymer, UMA graphic, Intel Ultra 7 265U, Display set to 250 nits display (on a 400-nits display), 2\*8G LPDDR5 memory, 256 GB SSD) <sup>44</sup>

43. 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.

44. MobileMark 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 [www.bapco.com](http://www.bapco.com) for additional details.



### WEIGHT & DIMENSIONS

#### Product Weight

Starting at 1.299kg (2.86lb) with 62.00 Whr battery

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

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

301.80 mm (W) x 214.90 mm (D) x 11.80 mm (front)/ 15.50 mm (rear) (11.88 in (W) x 8.46 in (D) x 0.46 in (front)/ 0.61 in (rear))

Maximum height 18.95 mm (0.75)

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](#).

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### PORTS/SLOTS

#### Left side

2 x Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1) <sup>45</sup>

1 x HDMI 2.1

1 x headphone / mic combo jack

1 x Smart Card Reader (Optional)

#### Right side

1 x USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)

1 x USB Type-A 5Gbps signaling rate (Powered)

1 x Nano SIM card slot (Optional)

1 x Nano Security Slot (Integrated)

[45. USB 20Gbps signaling rate is not available with Thunderbolt™ 4. Actual throughput may vary.](#)

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### ENVIRONMENTAL DATA

| <b>Eco-Label Certifications &amp; declarations</b>  | <p>This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:</p> <ul style="list-style-type: none"> <li>• IT ECO declaration</li> <li>• US ENERGY STAR®</li> <li>• US Federal Energy Management Program (FEMP)</li> <li>• EPEAT® Gold registered in the United States. See <a href="http://www.epeat.net">http://www.epeat.net</a> for registration status in your country.</li> <li>• TCO Certified</li> <li>• China Energy Conservation Program (CECP)</li> <li>• China State Environmental Protection Administration (SEPA)</li> <li>• Taiwan Green Mark</li> <li>• Korea Eco-label</li> <li>• Japan PC Green label*</li> </ul>  |              |              |  |              |              |              |                              |        |        |        |                              |     |     |     |       |        |        |        |     |        |        |        |
|---|--|--------------|--------------|--|--------------|--------------|--------------|------------------------------|--------|--------|--------|------------------------------|-----|-----|-----|-------|--------|--------|--------|-----|--------|--------|--------|
| <b>Sustainable Impact Specifications</b>  | <ul style="list-style-type: none"> <li>• <a href="#">Product Carbon Footprint</a></li> <li>• At least 50% ocean bound plastic in the system fan and 30% in Speakers<sup>1</sup></li> <li>• At least 50% post-consumer recycled plastic<sup>2</sup></li> <li>• At least 80% recycled metal<sup>3</sup></li> <li>• Low Halogen<sup>4</sup></li> <li>• 100% of HP paper-based packaging is from recycled or certified sustainable sources<sup>5</sup></li> <li>• Bulk packaging available</li> </ul>  |              |              |  |              |              |              |                              |        |        |        |                              |     |     |     |       |        |        |        |     |        |        |        |
| <b>System Configuration</b><br><br><b>Energy Consumption (in accordance with US ENERGY STAR® test method)</b> | <p>The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a “Typically Configured Notebook”.</p> <table border="1" data-bbox="440 1371 1469 1692"> <thead> <tr> <th></th> <th>115VAC, 60Hz</th> <th>230VAC, 50Hz</th> <th>100VAC, 50Hz</th> </tr> </thead> <tbody> <tr> <td>Normal Operation (Sort idle)</td> <td>2.92 W</td> <td>2.98 W</td> <td>3.23 W</td> </tr> <tr> <td>Normal Operation (Long idle)</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Sleep</td> <td>0.63 W</td> <td>0.64 W</td> <td>0.62 W</td> </tr> <tr> <td>Off</td> <td>0.30 W</td> <td>0.33 W</td> <td>0.30 W</td> </tr> </tbody> </table> <p><b>NOTE:</b> Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for</p> |              |              |  | 115VAC, 60Hz | 230VAC, 50Hz | 100VAC, 50Hz | Normal Operation (Sort idle) | 2.92 W | 2.98 W | 3.23 W | Normal Operation (Long idle) | N/A | N/A | N/A | Sleep | 0.63 W | 0.64 W | 0.62 W | Off | 0.30 W | 0.33 W | 0.30 W |
|   | 115VAC, 60Hz   | 230VAC, 50Hz | 100VAC, 50Hz |  |              |              |              |                              |        |        |        |                              |     |     |     |       |        |        |        |     |        |        |        |
| Normal Operation (Sort idle)  | 2.92 W   | 2.98 W       | 3.23 W       |  |              |              |              |                              |        |        |        |                              |     |     |     |       |        |        |        |     |        |        |        |
| Normal Operation (Long idle)  | N/A  | N/A          | N/A          |  |              |              |              |                              |        |        |        |                              |     |     |     |       |        |        |        |     |        |        |        |
| Sleep   | 0.63 W   | 0.64 W       | 0.62 W       |  |              |              |              |                              |        |        |        |                              |     |     |     |       |        |        |        |     |        |        |        |
| Off   | 0.30 W   | 0.33 W       | 0.30 W       |  |              |              |              |                              |        |        |        |                              |     |     |     |       |        |        |        |     |        |        |        |



# QuickSpecs

## HP EliteBook 8 G1i 13 inch Notebook AI PC

|  |  |   |                     |
|--|--|---|---------------------|
|  | computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.   |   |                     |
| <b>Heat Dissipation*</b>   | <b>115VAC, 60Hz</b>  | <b>230VAC, 50Hz</b>                                   | <b>100VAC, 50Hz</b> |
| Normal Operation (Short idle)  | 10 BTU/hr  | 10 BTU/hr   | 11 BTU/hr           |
| Normal Operation (Long idle)   | N/A  | N/A   | N/A                 |
| Sleep  | 2.2 BTU/hr   | 2 BTU/hr  | 2.1 BTU/hr          |
| Off  | 1 BTU/hr   | 1 BTU/hr  | 1 BTU/hr            |
|  | *NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.  |   |                     |
| <b>Declared Noise Emissions<br/>(in accordance with<br/>ISO 7779 and ISO 9296)</b> | <b>Sound Power<br/>(L<sub>WAd</sub>, bels)</b>   | <b>Sound Pressure<br/>(L<sub>pAm</sub>, decibels)</b> |                     |
| Typically Configured - Idle  | 2.6  | 13.4  |                     |
| Fixed Disk - Random writes   | 2.6  | 13.6  |                     |
| Optical Drive - Sequential reads   | 2.8  | 17.7  |                     |
| <b>Longevity and Upgrading</b>   | <p>This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the</p> <p>Spare parts are available throughout the warranty period and or for up to “5” years after the end of production.</p>  |   |                     |
| <b>Additional Information</b>  | <ul style="list-style-type: none"> <li>• This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC.</li> <li>• This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC.</li> <li>• This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).</li> <li>• This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see <a href="http://www.epeat.net">www.epeat.net</a></li> <li>• Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.</li> <li>• This product is 93.2% recycle-able when properly disposed of at end of life.</li> </ul> |   |                     |
| <b>Packaging Materials</b>   | <b>External:</b>   | PAPER/Corrugated                                      | 237 g               |



|                        |  |       |
|------------------------|--|-------|
|                        | PAPER/paper  | 21 g  |
|                        | PAPER/Molded Pulp  | 103 g |
|                        | The plastic packaging material contains at least 0.0% recycled content.  |       |
|                        | The corrugated paper packaging materials contains at least 57.2% recycled content.   |       |
| <b>RoHS Compliance</b> | <p>HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam.</p> <p>We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products.</p> <p>We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the scope of the commitment to include further restricted substances as regulations continue to evolve.</p> <p>To obtain a copy of the HP RoHS Compliance Statement, see <a href="#">HP RoHS position statement</a>.</p> |       |
| <b>Material Usage</b>  | <p>This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at <a href="https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c05998906">https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c05998906</a>):</p> <ul style="list-style-type: none"> <li>• Asbestos</li> <li>• Certain Azo Colorants</li> <li>• Certain Brominated Flame Retardants - may not be used as flame retardants in plastics</li> <li>• Cadmium</li> <li>• Chlorinated Hydrocarbons</li> <li>• Chlorinated Paraffins</li> <li>• Bis(2-Ethylhexyl) phthalate (DEHP)</li> <li>• Benzyl butyl phthalate (BBP)</li> <li>• Dibutyl phthalate (DBP)</li> <li>• Diisobutyl phthalate (DIBP)</li> <li>• Formaldehyde</li> </ul>   |       |



|  |  |
|--|--|
|  | <ul style="list-style-type: none"> <li>• Halogenated Diphenyl Methanes</li> <li>• Lead carbonates and sulfates</li> <li>• Lead and Lead compounds</li> <li>• Mercuric Oxide Batteries</li> <li>• Nickel - finishes must not be used on the external surface designed to be frequently handled or carried by the user.</li> <li>• Ozone Depleting Substances</li> <li>• Polybrominated Biphenyls (PBBs)</li> <li>• Polybrominated Biphenyl Ethers (PBBEs)</li> <li>• Polybrominated Biphenyl Oxides (PBBOs)</li> <li>• Polychlorinated Biphenyl (PCB)</li> <li>• Polychlorinated Terphenyls (PCT)</li> <li>• Polyvinyl Chloride (PVC) - except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.</li> <li>• Radioactive Substances</li> <li>• Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)</li> </ul> |
| <p><b>Packaging Usage</b></p>                      | <ul style="list-style-type: none"> <li>• HP follows these guidelines to decrease the environmental impact of product packaging:</li> <li>• Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.</li> <li>• Eliminate the use of ozone-depleting substances (ODS) in packaging materials.</li> <li>• Design packaging materials for ease of disassembly.</li> <li>• Maximize the use of post-consumer recycled content materials in packaging materials.</li> <li>• Use readily recyclable packaging materials such as paper and corrugated materials.</li> <li>• Reduce size and weight of packages to improve transportation fuel efficiency.</li> <li>• Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.</li> </ul>  |
| <p><b>End-of-life Management and Recycling</b></p> | <p>HP offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: <a href="https://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c05403198">https://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c05403198</a> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.</p>  |



|  |   |
|--|---|
|  | <p>The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <a href="#">HP Product Disassembly Instruction Website</a>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.</p>  |
| <p><b>HP, Inc. Corporate Environmental Information</b></p> | <p>For more information about HP's commitment to the environment:</p> <ul style="list-style-type: none"> <li>• Sustainable Impact Report             <ul style="list-style-type: none"> <li>○ <a href="https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06040843">https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06040843</a></li> </ul> </li> <li>• Eco-label certifications             <ul style="list-style-type: none"> <li>○ <a href="https://www.hp.com/us-en/sustainable-impact/document-reports.html#filters_documents_reports=-document_type-type_energy_star,type_epeat,type_tcoISO">https://www.hp.com/us-en/sustainable-impact/document-reports.html#filters_documents_reports=-document_type-type_energy_star,type_epeat,type_tcoISO</a></li> </ul> </li> <li>• ISO 14001 certificates             <ul style="list-style-type: none"> <li>○ <a href="https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c04777932">https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c04777932</a></li> </ul> </li> </ul>  |
| <p><b>footnotes</b></p>                                    | <ul style="list-style-type: none"> <li>• Percentage of ocean-bound plastic contained in each component varies by product. Ocean Bound plastic is expressed as a percentage of the total weight plastic. Ocean Bound plastic is based on the definition set by the UL2809 standard.</li> <li>• Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT standard for computers, IEEE 1680.1-2018 standard.</li> <li>• Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.</li> <li>• External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.</li> <li>• HP paper and fiber-based packaging for PCs, displays, home and office print, and supplies is reported by suppliers as recycled or certified, with a minimum of 97% by volume verified by HP. Packaging is the box that comes with the product and all paper-based materials inside the box. Packaging for personal systems accessories and spare parts is not included. Plastic cushions are made from &gt;90% recycled plastic.</li> </ul> |



### 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 <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>46</sup>

46. 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.

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### SYSTEM UNIT

#### Stand-Alone Power Requirements

##### (AC Power)

|                           |                       |
|---------------------------|-----------------------|
| Nominal Operating Voltage | 20.0V                 |
| Max Operating Power       | UMA 65W<br>Discrete W |

##### Temperature

|               |  |
|---------------|--|
| Operating     | 0° to 35° C (32° to 95° F)<br>System performance may be reduced above 32°C (89.6°F)    |
| Non-operating | -20° to 60° C (-4° to 140° F)<br>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-I62C-3        |
| CSA/UL 62368-1          | Yes               |
| UL 62368-1              | Yes               |
| ENERGY STAR®            | Yes <sup>47</sup> |
| 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   |
| TCO   | Yes   |
| EPEAT Gold  | EPEAT® Gold in the United States <sup>48</sup>  |
| Low Blue Light                                    | Yes   |
| WW RoHS   | Yes   |
| CECP  | NO  |
|   | These are requirements from the Category PM, which usually occur after RTP.<br>At this stage, no requests have been received yet. |
| Medical EMC: IEC 60601-1-2:2014 EN60601-1-2: 2015 | Yes   |
|   | NO  |
| SEPA  | These are requirements from the Category PM, which usually occur after RTP.<br>At this stage, no requests have been received yet. |
| MIL-STD Testing                                   | MIL-STD 810H <sup>49</sup>  |

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

48. 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.

49. 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.

Power supply availability may vary by country.

|   |                                  |                            |
|---|----------------------------------|----------------------------|
| <b>33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, WLED, 300 nits, sRGB 62.5%</b> | <b>Active Area</b>               | 286.04 x 178.78 mm (typ)   |
|   | <b>Dimensions (W x H)</b>        | 292.040 x 189.800 mm (max) |
|   | <b>Weight</b>                    | 280 g (max)                |
|   | <b>Diagonal Size</b>             | 13.3 inch                  |
|   | <b>Surface Treatment</b>         | Anti-Glare                 |
|   | <b>Touch Enabled</b>             | No                         |
|   | <b>Contrast Ratio</b>            | 1,000 : 1 (typ)            |
|   | <b>Refresh Rate</b>              | 60 Hz (typ)                |
|   | <b>Brightness</b>                | 300 nits (typ)             |
|   | <b>Pixel Resolution</b>          | RGB                        |
|   | <b>Pixel Resolution - Format</b> | 1920 x 1200 (WUXGA)        |
|   | <b>Aspect Ratio</b>              | 16:10                      |
|   | <b>Backlight</b>                 | WLED                       |
|   | <b>Color Gamut Coverage</b>      | sRGB 62.5%                 |
|   | <b>Color Depth</b>               | 8 bit                      |
|   | <b>Viewing Angle</b>             | UWVA 89/89/89/89           |
| <b>Low Blue Light</b>   | No                               |                            |
| <b>Power Consumption</b>  | 2.28 W (max) / 2.80 W (max)      |                            |

|  |                           |                            |
|--|---------------------------|----------------------------|
| <b>33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, WLED + Low Blue Light, 400 nits, Low Power, sRGB 100%</b> | <b>Active Area</b>        | 286.040 x 178.780 mm (typ) |
|  | <b>Dimensions (W x H)</b> | 292.040 x 189.830 mm (max) |
|  | <b>Weight</b>             | 185 g (max)                |
|  | <b>Diagonal Size</b>      | 13.3 inch                  |
|  | <b>Surface Treatment</b>  | Anti-Glare                 |
|  | <b>Touch Enabled</b>      | No                         |
|  | <b>Contrast Ratio</b>     | 1,200 : 1 (typ)            |
|  | <b>Refresh Rate</b>       | 60 Hz (typ)                |
|  | <b>Brightness</b>         | 400 nits (typ)             |
|  | <b>Pixel Resolution</b>   | RGB                        |



|                                  |                             |
|----------------------------------|-----------------------------|
| <b>Pixel Resolution - Format</b> | 1920 x 1200 (WUXGA)         |
| <b>Aspect Ratio</b>              | 16:10                       |
| <b>Backlight</b>                 | WLED                        |
| <b>Color Gamut Coverage</b>      | sRGB 100%                   |
| <b>Color Depth</b>               | 8 bit                       |
| <b>Viewing Angle</b>             | UWVA 89/89/89/89            |
| <b>Low Blue Light</b>            | Yes                         |
| <b>Power Consumption</b>         | 1.21 W (max) / 1.45 W (max) |

33.8 cm (13.3") diagonal,  
WUXGA (1920 x 1200), LCD,  
UWVA, Anti-Glare, Low Blue  
Light, 800 nits, sRGB 100%,  
HP Sure View 5

|                                  |                             |
|----------------------------------|-----------------------------|
| <b>Active Area</b>               | 286.041 x 178.776 mm (typ)  |
| <b>Dimensions (W x H)</b>        | 291.340 x 188.180 mm (max)  |
| <b>Weight</b>                    | 230 g (max)                 |
| <b>Diagonal Size</b>             | 13.3 inch                   |
| <b>Surface Treatment</b>         | Anti-Glare                  |
| <b>Touch Enabled</b>             | No                          |
| <b>Contrast Ratio</b>            | 1,500 : 1 (typ)             |
| <b>Refresh Rate</b>              | 60 Hz (typ)                 |
| <b>Brightness</b>                | 800 nits (typ)              |
| <b>Pixel Resolution</b>          | RGB                         |
| <b>Pixel Resolution - Format</b> | 1920 x 1200 (WUXGA)         |
| <b>Aspect Ratio</b>              | 16:10                       |
| <b>Backlight</b>                 | WLED                        |
| <b>Color Gamut Coverage</b>      | sRGB 100%                   |
| <b>Color Depth</b>               | 8 bit                       |
| <b>Viewing Angle</b>             | UWVA 89/89/89/89            |
| <b>Low Blue Light</b>            | Yes                         |
| <b>Power Consumption</b>         | 1.61 W (max) / 1.98 W (max) |

33.8 cm (13.3") diagonal,  
WUXGA (1920 x 1200), LCD,  
Touch, UWVA, Anti-Glare,  
WLED, 300 nits, sRGB 62.5%

|                           |                            |
|---------------------------|----------------------------|
| <b>Active Area</b>        | 286.04 x 178.78 mm (typ)   |
| <b>Dimensions (W x H)</b> | 292.040 x 189.830 mm (max) |
| <b>Weight</b>             | 280 g (max)                |
| <b>Diagonal Size</b>      | 13.3 inch                  |
| <b>Surface Treatment</b>  | Anti-Glare                 |



# QuickSpecs

## HP EliteBook 8 G1i 13 inch Notebook AI PC

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|                                  |                             |
|----------------------------------|-----------------------------|
| <b>Touch Enabled</b>             | Yes                         |
| <b>Contrast Ratio</b>            | 1,000 : 1 (typ)             |
| <b>Refresh Rate</b>              | 60 Hz (typ)                 |
| <b>Brightness</b>                | 300 nits (typ)              |
| <b>Pixel Resolution</b>          | RGB                         |
| <b>Pixel Resolution - Format</b> | 1920 x 1200 (WUXGA)         |
| <b>Aspect Ratio</b>              | 16:10                       |
| <b>Backlight</b>                 | WLED                        |
| <b>Color Gamut Coverage</b>      | sRGB 62.5%                  |
| <b>Color Depth</b>               | 8 bit                       |
| <b>Viewing Angle</b>             | UWVA 89/89/89/89            |
| <b>Low Blue Light</b>            | No                          |
| <b>Power Consumption</b>         | 2.39 W (max) / 2.96 W (max) |

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### STORAGE

All Gen5 SSDs on this system run at Gen4 speed.

For Gen5 SSD, read and write speeds are an average of the maximum values measured under full load conditions. Actual performance may vary +/- 10%.

For Gen4 SSD, read and write speeds are an average of the maximum values measured under full load conditions. Actual performance may vary +/- 20%.

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.

|   |                         |                        |
|---|-------------------------|------------------------|
| <b>2 TB PCIe® Gen4x4 NVMe™<br/>SSD Three Layer Cell<sup>1</sup></b> | <b>Form Factor</b>      | M.2 2280               |
|   | <b>Capacity</b>         | 2TB                    |
|   | <b>NAND Type</b>        | TLC                    |
|   | <b>Weight</b>           | 10 g (0.02 lb)         |
|   | <b>Interface</b>        | PCIe NVMe Gen4X4       |
|   | <b>Sequential Read</b>  | 6400 MB/s ±20%         |
|   | <b>Sequential Write</b> | 5000 MB/s ±20%         |
|   | <b>Logical Blocks</b>   | 4,000,797,360          |
|   | <b>Features</b>         | Pyrite 2.0; TRIM; L1.2 |

Not all features are available in all versions.

|  |                         |                                      |
|--|-------------------------|--------------------------------------|
| <b>1 TB PCIe® Gen5 NVMe™ SSD<br/>Value<sup>1</sup></b> | <b>Form Factor</b>      | M.2 2280                             |
|  | <b>Capacity</b>         | 1 TB                                 |
|  | <b>NAND Type</b>        | Value                                |
|  | <b>Weight</b>           | 10g (0.02 lb)                        |
|  | <b>Interface</b>        | PCIe Gen5 NVMe                       |
|  | <b>Sequential Read</b>  | 7000 MB/s ±10% (in PCIe Gen4x4 slot) |
|  | <b>Sequential Write</b> | 6600 MB/s ±10% (in PCIe Gen4x4 slot) |
|  | <b>Logical Blocks</b>   | 2,00,04,09,264                       |
|  | <b>Features</b>         | Pyrite 2.0; TRIM; L1.2               |

Not all features are available in all versions.



|   |                         |                        |
|---|-------------------------|------------------------|
| <b>1 TB PCIe® Gen4x4 NVMe™<br/>SSD Three Layer Cell<sup>1</sup></b> | <b>Form Factor</b>      | M.2 2280               |
|   | <b>Capacity</b>         | 1TB                    |
|   | <b>NAND Type</b>        | TLC                    |
|   | <b>Weight</b>           | 10 g (0.02 lb)         |
|   | <b>Interface</b>        | PCIe NVMe Gen4X4       |
|   | <b>Sequential Read</b>  | 6400 MB/s ±20%         |
|   | <b>Sequential Write</b> | 5000 MB/s ±20%         |
|   | <b>Logical Blocks</b>   | 2,000,409,264          |
|   | <b>Features</b>         | Pyrite 2.0; TRIM; L1.2 |

Not all features are available in all versions.

|   |                         |                        |
|---|-------------------------|------------------------|
| <b>1 TB PCIe® NVMe™ SSD<br/>Value<sup>1</sup></b> | <b>Form Factor</b>      | M.2 2280               |
|   | <b>Capacity</b>         | 1TB                    |
|   | <b>NAND Type</b>        | Value                  |
|   | <b>Weight</b>           | 10 g (0.02 lb)         |
|   | <b>Interface</b>        | PCIe NVMe Gen4X4       |
|   | <b>Sequential Read</b>  | 3500 MB/s ±20%         |
|   | <b>Sequential Write</b> | 2700 MB/s ±20%         |
|   | <b>Logical Blocks</b>   | 2,000,409,264          |
|   | <b>Features</b>         | Pyrite 2.0; TRIM; L1.2 |

Not all features are available in all versions.

|  |                         |                                      |
|--|-------------------------|--------------------------------------|
| <b>512 GB PCIe® Gen5 NVMe™<br/>SSD Value<sup>1</sup></b> | <b>Form Factor</b>      | M.2 2280                             |
|  | <b>Capacity</b>         | 512 GB                               |
|  | <b>NAND Type</b>        | Value                                |
|  | <b>Weight</b>           | 10g (0.02 lb)                        |
|  | <b>Interface</b>        | PCIe Gen5 NVMe                       |
|  | <b>Sequential Read</b>  | 7000 MB/s ±10% (in PCIe Gen4x4 slot) |
|  | <b>Sequential Write</b> | 6000 MB/s ±10% (in PCIe Gen4x4 slot) |
|  | <b>Logical Blocks</b>   | 1,00,02,15,216                       |
|  | <b>Features</b>         | Pyrite 2.0; TRIM; L1.2               |

Not all features are available in all versions.



# QuickSpecs

|  |                         |   |
|--|-------------------------|---|
| <b>512 GB PCIe® Gen4x4<br/>NVMe™ SSD Three Layer Cell</b><br>1 | <b>Form Factor</b>      | M.2 2280  |
|  | <b>Capacity</b>         | 512GB   |
|  | <b>NAND Type</b>        | TLC   |
|  | <b>Weight</b>           | 10 g (0.02 lb)                                  |
|  | <b>Interface</b>        | PCIe NVMe Gen4X4                                |
|  | <b>Sequential Read</b>  | 6400 MB/s ±20%                                  |
|  | <b>Sequential Write</b> | 3500 MB/s ±20%                                  |
|  | <b>Logical Blocks</b>   | 1,000,215,215                                   |
|  | <b>Features</b>         | Pyrite 2.0; TRIM; L1.2                          |
|  |                         | Not all features are available in all versions. |

|   |                         |   |
|---|-------------------------|---|
| <b>512 GB PCIe® Gen4x4<br/>NVMe™ Self Encrypted<br/>OPAL2 SSD Three Layer Cell</b><br>1 | <b>Form Factor</b>      | M.2 2280  |
|   | <b>Capacity</b>         | 512GB   |
|   | <b>NAND Type</b>        | TLC   |
|   | <b>Weight</b>           | 10 g (0.02 lb)                                  |
|   | <b>Interface</b>        | PCIe NVMe Gen4X4                                |
|   | <b>Sequential Read</b>  | 6400 MB/s ±20%                                  |
|   | <b>Sequential Write</b> | 3500 MB/s ±20%                                  |
|   | <b>Logical Blocks</b>   | 1,000,215,215                                   |
|   | <b>Features</b>         | TCG Opal 2.0; TRIM; L1.2                        |
|   |                         | Not all features are available in all versions. |

|  |                         |   |
|--|-------------------------|---|
| <b>512 GB PCIe® NVMe™ SSD<br/>Value</b> <sup>1</sup> | <b>Form Factor</b>      | M.2 2280  |
|  | <b>Capacity</b>         | 512 GB  |
|  | <b>NAND Type</b>        | Value   |
|  | <b>Weight</b>           | 10 g (0.02 lb)                                  |
|  | <b>Interface</b>        | PCIe NVMe Gen4X4                                |
|  | <b>Sequential Read</b>  | 3500 MB/s ±20%                                  |
|  | <b>Sequential Write</b> | 1600 MB/s ±20%                                  |
|  | <b>Logical Blocks</b>   | 1,000,215,215                                   |
|  | <b>Features</b>         | Pyrite 2.0; TRIM; L1.2                          |
|  |                         | Not all features are available in all versions. |



# QuickSpecs

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|  |                         |   |
|--|-------------------------|---|
| <b>256 GB PCIe® NVMe™ Self Encrypted OPAL2 SSD Value</b><br><sup>1</sup> | <b>Form Factor</b>      | M.2 2280  |
|  | <b>Capacity</b>         | 256 GB  |
|  | <b>NAND Type</b>        | Value   |
|  | <b>Weight</b>           | 10 g (0.02 lb)  |
|  | <b>Interface</b>        | PCIe NVMe Gen4X4  |
|  | <b>Sequential Read</b>  | 3100 MB/s ±20%  |
|  | <b>Sequential Write</b> | 1200 MB/s ±20%  |
|  | <b>Logical Blocks</b>   | 500,118,192   |
|  | <b>Features</b>         | TCG Opal 2.0; TRIM; L1.2<br>Not all features are available in all versions. |

|  |                         |   |
|--|-------------------------|---|
| <b>256 GB PCIe® NVMe™ SSD Value</b> <sup>1</sup> | <b>Form Factor</b>      | M.2 2280  |
|  | <b>Capacity</b>         | 256 GB  |
|  | <b>NAND Type</b>        | Value   |
|  | <b>Weight</b>           | 10 g (0.02 lb)  |
|  | <b>Interface</b>        | PCIe NVMe Gen4X4  |
|  | <b>Sequential Read</b>  | 3100 MB/s ±20%  |
|  | <b>Sequential Write</b> | 1200 MB/s ±20%  |
|  | <b>Logical Blocks</b>   | 500,118,192   |
|  | <b>Features</b>         | Pyrite 2.0; TRIM; L1.2<br>Not all features are available in all versions. |

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### NETWORKING / COMMUNICATION

|  |                                      |   |
|--|--------------------------------------|---|
| <p>Intel® AX211 Wi-Fi 6E<br/>Bluetooth® 5.3 vPro® WLAN<sup>1</sup></p> | <p><b>Wireless LAN Standards</b></p> | <p>IEEE 802.11a<br/>IEEE 802.11ac<br/>IEEE 802.11ax<br/>IEEE 802.11b<br/>IEEE 802.11d<br/>IEEE 802.11e<br/>IEEE 802.11g<br/>IEEE 802.11h<br/>IEEE 802.11i<br/>IEEE 802.11k<br/>IEEE 802.11n<br/>IEEE 802.11r<br/>IEEE 802.11v</p>   |
|  | <p><b>Interoperability</b></p>       | <p>Wi-Fi certified</p>  |
|  | <p><b>Frequency Band</b></p>         | <ul style="list-style-type: none"> <li>▪ 802.11b/g/n/ax<br/>2.402 - 2.482 GHz</li> <li>▪ 802.11a/n/ac/ax<br/>4.9 - 4.95 GHz (Japan)<br/>5.15 - 5.25 GHz<br/>5.25 - 5.35 GHz<br/>5.47 - 5.725 GHz<br/>5.825 - 5.850 GHz<br/>5.955 - 6.415 GHz<br/>6.435 - 6.515 GHz<br/>6.535 - 6.875 GHz<br/>6.895 - 7.115 GHz</li> </ul> |
|  | <p><b>Data Rates</b></p>             | <ul style="list-style-type: none"> <li>▪ 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>▪ 802.11b: 1, 2, 5.5, 11 Mbps</li> <li>▪ 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> </ul>   |
|  | <p><b>Modulation</b></p>             | <p>Direct Sequence Spread Spectrum<br/>1024QAM, 16-QAM, 256-QAM, 64-QAM, BPSK, CCK, Direct<br/>Sequence Spread Spectrum, OFDM, QPSK</p>   |



|   |   |
|---|---|
| <b>Security</b>                         | <ul style="list-style-type: none"><li>▪ 802.1x authentication</li><li>▪ AES-CCMP: 128 bit in hardware</li><li>▪ IEEE 802.11i</li><li>▪ IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g mode only</li><li>▪ WAPI</li><li>▪ WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.</li><li>▪ WPA2 certification</li><li>▪ WPA3 (personal) certification</li></ul>   |
| <b>Network Architecture</b>             | Ad-hoc (Peer to Peer)   |
| <b>Models</b>                           | Infrastructure (Access Point Required)  |
| <b>Roaming</b>                          | IEEE 802.11 compliant roaming between access points   |
| <b>Output Power</b>                     | <ul style="list-style-type: none"><li>▪ 802.11b : +17dBm minimum</li><li>▪ 802.11g : +16dBm minimum</li><li>▪ 802.11a : +17dBm minimum</li><li>▪ 802.11n HT20(2.4GHz) : +14dBm minimum</li><li>▪ 802.11n HT40(2.4GHz) : +13dBm minimum</li><li>▪ 802.11n HT20(5GHz) : +14dBm minimum</li><li>▪ 802.11n HT40(5GHz) : +13dBm minimum</li><li>▪ 802.11ac VHT80(5GHz) : +10dBm minimum</li><li>▪ 802.11ac VHT160(5GHz) : +10dBm minimum</li><li>▪ 802.11ax HE40(2.4GHz) : +12dBm minimum</li><li>▪ 802.11ax HE80(5GHz) : +10dBm minimum</li><li>▪ 802.11ax HE160(5GHz) : +10dBm minimum</li></ul> |
| <b>Power Consumption</b>                | <ul style="list-style-type: none"><li>▪ Transmit mode: 2.0 W</li><li>▪ Receive mode: 1.6 W</li><li>▪ Idle mode (PSP) : 180 mW (WLAN Associated)</li><li>▪ Idle mode: 50 mW (WLAN unassociated)</li><li>▪ Connected Standby/Modern Standby : 10 mW</li><li>▪ Radio disabled : 8 mW</li></ul>   |
| <b>Power Management</b>                 | ACPI and PCI Express compliant power management   |
| <b>Receiver Sensitivity<sup>2</sup></b> | <ul style="list-style-type: none"><li>▪ 802.11b, 1Mbps : -93.5dBm maximum</li><li>▪ 802.11b, 11Mbps : -84dBm maximum</li></ul>  |



|   |  |
|---|--|
|   | <ul style="list-style-type: none"> <li>▪ 802.11a/g, 6Mbps : -86dBm maximum</li> <li>▪ 802.11a/g, 54Mbps : -72dBm maximum</li> <li>▪ 802.11n, MCS07 : -67dBm maximum</li> <li>▪ 802.11n, MCS15 : -64dBm maximum</li> <li>▪ 802.11ac, MCS0(VHT80) : -84dBm maximum</li> <li>▪ 802.11ac, MCS9(VHT80) : -59dBm maximum</li> <li>▪ 802.11ac, MCS9(VHT160) : -58.5dBm maximum</li> <li>▪ 802.11ax, MCS11(HE40): -57dBm maximum</li> <li>▪ 802.11ax, MCS11(HE80): -54dBm maximum</li> <li>▪ 802.11ax, MCS11(HE160): -53.5dBm maximum</li> </ul> |
| <b>Antenna type</b>                         | <p>High efficiency antenna with spatial diversity</p> <p>Two embedded tri-band 2.4/5/6 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications</p>  |
| <b>Form Factor</b>                          | PCI-Express M.2 MiniCard   |
| <b>Dimensions</b>                           | 2.30 x 22.00 x 30.00 mm (0.09 x 0.87 x 1.18 inch)  |
| <b>Weight</b>                               | <p>1. Type 2230: 2.8 g</p> <p>2. Type 1216: g</p>  |
| <b>Operating Voltage</b>                    | 3.3 v +/- 9 %  |
| <b>Integrated Bluetooth® specifications</b> |  |
| <b>Bluetooth® Specification</b>             | 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Compliant  |
| <b>Frequency Band</b>                       | 2402 to 2480 MHz   |
| <b>Number of Available Channels</b>         | <p>Legacy : 0~79 (1 MHz/CH)</p> <p>BLE : 0~39 (2 MHz/CH)</p>   |
| <b>Data Rates and Throughput</b>            | <p>Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps BLE : 1 Mbps data rate; throughput up to 0.2 Mbps Legacy :</p> <p>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)</p>  |
| <b>Transmit Power</b>                       | The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 4 dBm for BR and EDR.  |



|                                      |   |
|--------------------------------------|---|
| <b>Power Consumption</b>             | Peak (Tx): 330 mW<br>Peak (Rx): 230 mW<br>Selective Suspend: 17 mW  |
| <b>Bluetooth® Software</b>           | Microsoft Windows Bluetooth Software  |
| <b>Supported Link Topology</b>       |   |
| <b>Certifications</b>                | FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407; ETSI 300 328, ETSI 301 893, ETSI 303 687   |
| <b>Bluetooth® Profiles Supported</b> | 2Mbps LE<br>Advanced Audio Distribution Profile (A2DP)<br>Basic Imaging Profile (BIP)<br>Bluetooth 4.1 -ESR 5/6/7 Compliance<br>Bluetooth 4.2 ESR08 Compliance<br>Bluetooth 5.2<br>Bluetooth 5.3 wireless card<br>Channel Selection Algo<br>ESR9/10 Compliance<br>FAX Profile (FAX)<br>Hands Free Profile (HFP)<br>Headset Profile (HSP)<br>LE Advertisement Extensions<br>LE Data Packet Length Extension<br>LE Dual Mode<br>LE L2CAP Connection Oriented Channels<br>LE Link Layer<br>LE Link Layer Ping<br>LE Long Range<br>LE Low Duty Cycle Directed Advertising<br>LE Privacy 1.2 -Extended Scanner Filter Policies<br>LE Privacy 1.2 -Link Layer Privacy<br>LE Secure Connection- Basic/Full<br>Limited High Duty Cycle Non-Connectable Advertising<br>Train Nudging & Interlaced Scan |



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.
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).

|   |                               |                        |
|---|-------------------------------|------------------------|
| <b>Intel® AX211 Wi-Fi 6E</b>              | <b>Wireless LAN Standards</b> | IEEE 802.11a           |
| <b>Bluetooth® 5.3 WW WLAN<sup>1</sup></b> |                               | IEEE 802.11ac          |
|   |                               | IEEE 802.11ax          |
|   |                               | IEEE 802.11b           |
|   |                               | 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           |
|   | <b>Interoperability</b>       | Wi-Fi certified        |
|   | <b>Frequency Band</b>         | ▪ 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      |



|                             |   |
|-----------------------------|---|
| <b>Data Rates</b>           | <ul style="list-style-type: none"><li>▪ 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li><li>▪ 802.11b: 1, 2, 5.5, 11 Mbps</li><li>▪ 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li></ul>   |
| <b>Modulation</b>           | Direct Sequence Spread Spectrum<br>1024QAM, 16-QAM, 256-QAM, 64-QAM, BPSK, CCK, Direct Sequence Spread Spectrum, OFDM, QPSK   |
| <b>Security</b>             | <ul style="list-style-type: none"><li>▪ 802.1x authentication</li><li>▪ AES-CCMP: 128 bit in hardware</li><li>▪ IEEE 802.11i</li><li>▪ IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g mode only</li><li>▪ WAPI</li><li>▪ WPA, WPA2: 802.1x, WPA-PSK, WPA2-PSK, TKIP, and AES.</li><li>▪ WPA2 certification</li><li>▪ WPA3 (personal) certification</li></ul>   |
| <b>Network Architecture</b> | Ad-hoc (Peer to Peer)   |
| <b>Models</b>               | Infrastructure (Access Point Required)  |
| <b>Roaming</b>              | IEEE 802.11 compliant roaming between access points   |
| <b>Output Power</b>         | <ul style="list-style-type: none"><li>▪ 802.11b : +17dBm minimum</li><li>▪ 802.11g : +16dBm minimum</li><li>▪ 802.11a : +17dBm minimum</li><li>▪ 802.11n HT20(2.4GHz) : +14dBm minimum</li><li>▪ 802.11n HT40(2.4GHz) : +13dBm minimum</li><li>▪ 802.11n HT20(5GHz) : +14dBm minimum</li><li>▪ 802.11n HT40(5GHz) : +13dBm minimum</li><li>▪ 802.11ac VHT80(5GHz) : +10dBm minimum</li><li>▪ 802.11ac VHT160(5GHz) : +10dBm minimum</li><li>▪ 802.11ax HE40(2.4GHz) : +12dBm minimum</li><li>▪ 802.11ax HE80(5GHz) : +10dBm minimum</li><li>▪ 802.11ax HE160(5GHz) : +10dBm minimum</li></ul> |
| <b>Power Consumption</b>    | <ul style="list-style-type: none"><li>▪ Transmit mode : 2.0 W</li><li>▪ Receive mode : 1.6 W</li><li>▪ Idle mode (PSP) : 180 mW (WLAN Associated)</li></ul>   |



|   |   |
|---|---|
| <b>Power Management</b>                     | <ul style="list-style-type: none"> <li>▪ Idle mode: 50 mW (WLAN unassociated)</li> <li>▪ Connected Standby/Modern Standby : 10 mW</li> <li>▪ Radio disabled : 8 mW</li> </ul> <p>ACPI and PCI Express compliant power management</p>  |
| <b>Receiver Sensitivity <sup>2</sup></b>    | <ul style="list-style-type: none"> <li>▪ 802.11b, 1Mbps : -93.5dBm maximum</li> <li>▪ 802.11b, 11Mbps : -84dBm maximum</li> <li>▪ 802.11a/g, 6Mbps : -86dBm maximum</li> <li>▪ 802.11a/g, 54Mbps : -72dBm maximum</li> <li>▪ 802.11n, MCS07 : -67dBm maximum</li> <li>▪ 802.11n, MCS15 : -64dBm maximum</li> <li>▪ 802.11ac, MCS0(VHT80) : -84dBm maximum</li> <li>▪ 802.11ac, MCS9(VHT80) : -59dBm maximum</li> <li>▪ 802.11ac, MCS9(VHT160) : -58.5dBm maximum</li> <li>▪ 802.11ax, MCS11(HE40): -57dBm maximum</li> <li>▪ 802.11ax, MCS11(HE80): -54dBm maximum</li> <li>▪ 802.11ax, MCS11(HE160): -53.5dBm maximum</li> </ul> |
| <b>Antenna type</b>                         | <p>High efficiency antenna with spatial diversity</p> <p>Two embedded tri-band 2.4/5/6 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications</p>   |
| <b>Form Factor</b>                          | PCI-Express M.2 MiniCard  |
| <b>Dimensions</b>                           | 2.30 x 22.00 x 30.00 mm (0.09 x 0.87 x 1.18 inch)   |
| <b>Weight</b>                               | <p>1. Type 2230: 2.8 g</p> <p>2. Type 1216: g</p>   |
| <b>Operating Voltage</b>                    | 3.3 v +/- 9 %   |
| <b>Integrated Bluetooth® specifications</b> |   |
| <b>Bluetooth® Specification</b>             | 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Compliant   |
| <b>Frequency Band</b>                       | 2402 to 2480 MHz  |
| <b>Number of Available Channels</b>         | Legacy : 0~79 (1 MHz/CH)  |
| <b>Channels</b>                             | BLE : 0~39 (2 MHz/CH)   |
| <b>Data Rates and Throughput</b>            | <p>Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps BLE : 1 Mbps data rate; throughput up to 0.2 Mbps Legacy :</p> <p>Synchronous Connection Oriented links up to 3, 64 kbps, voice</p>  |



|                                      |   |
|--------------------------------------|---|
|                                      | channels Legacy : Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)  |
| <b>Transmit Power</b>                | The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 4 dBm for BR and EDR.   |
| <b>Power Consumption</b>             | Peak (Tx): 330 mW<br>Peak (Rx): 230 mW<br>Selective Suspend: 17 mW  |
| <b>Bluetooth® Software</b>           | Microsoft Windows Bluetooth Software  |
| <b>Supported Link Topology</b>       |   |
| <b>Certifications</b>                | FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407; ETSI 300 328, ETSI 301 893, ETSI 303 687   |
| <b>Bluetooth® Profiles Supported</b> | 2Mbps LE<br>Advanced Audio Distribution Profile (A2DP)<br>Basic Imaging Profile (BIP)<br>Bluetooth 4.1 -ESR 5/6/7 Compliance<br>Bluetooth 4.2 ESR08 Compliance<br>Bluetooth 5.2<br>Bluetooth 5.3 wireless card<br>Channel Selection Algo<br>Encryption key size control enhancements<br>ESR9/10 Compliance<br>FAX Profile (FAX)<br>Hands Free Profile (HFP)<br>Headset Profile (HSP)<br>LE Advertisement Extensions<br>LE Data Packet Length Extension<br>LE Dual Mode<br>LE L2CAP Connection Oriented Channels<br>LE Link Layer<br>LE Link Layer Ping<br>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. 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.
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).

|   |                                      |  |
|---|--------------------------------------|--|
| <p><b>Intel® BE201 Wi-Fi 7</b></p> <p><b>Bluetooth® 5.4 non-vPro® WW</b></p> <p><b>WLAN<sup>1</sup></b></p> | <p><b>Wireless LAN Standards</b></p> | <p>IEEE 802.11a</p> <p>IEEE 802.11ac</p> <p>IEEE 802.11ax</p> <p>IEEE 802.11b</p> <p>IEEE 802.11be</p> <p>IEEE 802.11d</p> <p>IEEE 802.11e</p> <p>IEEE 802.11g</p> <p>IEEE 802.11h</p> <p>IEEE 802.11i</p> <p>IEEE 802.11k</p> <p>IEEE 802.11n</p> <p>IEEE 802.11r</p> <p>IEEE 802.11v</p> |
|   | <p><b>Interoperability</b></p>       | <p>Wi-Fi certified</p>   |
|   | <p><b>Frequency Band</b></p>         | <p>▪ 802.11b/g/n/ax</p> <p>2.402 - 2.482 GHz</p>   |



|                             |   |
|-----------------------------|---|
|                             | <ul style="list-style-type: none"><li>▪ 802.11a/n/ac/ax</li><li>4.9 - 4.95 GHz (Japan)</li><li>5.15 - 5.25 GHz</li><li>5.25 - 5.35 GHz</li><li>5.47 - 5.725 GHz</li><li>5.825 - 5.850 GHz</li><li>5.955 - 6.415 GHz</li><li>6.435 - 6.515 GHz</li><li>6.535 - 6.875 GHz</li><li>6.895 - 7.115 GHz</li></ul>   |
| <b>Data Rates</b>           | <ul style="list-style-type: none"><li>▪ 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li><li>▪ 802.11ac: MCS0 ~ MCS9, (20MHz, 40MHz, 80MHz, 160MHz)</li><li>▪ 802.11ax: MCS0 ~ MCS11, (20MHz, 40MHz, 80MHz, 160MHz)</li><li>▪ 802.11b: 1, 2, 5.5, 11 Mbps</li><li>▪ 802.11be: MCS0~13, (20MHz, 40MHz, 80MHz, 160MHz, 320MHz)</li><li>▪ 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li><li>▪ 802.11n: MCS 0 ~ MCS 15, (20MHz, 40MHz)</li></ul> |
| <b>Modulation</b>           | Direct Sequence Spread Spectrum<br>1024QAM, 16-QAM, 256-QAM, 4096QAM, 64-QAM, BPSK, CCK,<br>Direct Sequence Spread Spectrum, OFDM, QPSK   |
| <b>Security</b>             | <ul style="list-style-type: none"><li>▪ 802.1x authentication</li><li>▪ AES-CCMP: 128 bit in hardware</li><li>▪ IEEE 802.11i</li><li>▪ IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g mode only</li><li>▪ WAPI</li><li>▪ WPA, WPA2: 802.1x, WPA-PSK, WPA2-PSK, TKIP, and AES.</li><li>▪ WPA2 certification</li><li>▪ WPA3 (personal) certification</li></ul>   |
| <b>Network Architecture</b> | Ad-hoc (Peer to Peer)   |
| <b>Models</b>               | Infrastructure (Access Point Required)  |
| <b>Roaming</b>              | IEEE 802.11 compliant roaming between access points   |



|   |   |
|---|---|
| <b>Output Power</b>                     | <ul style="list-style-type: none"><li>▪ 802.11b, 1Mbps : +17dBm minimum</li><li>▪ 802.11g, 6Mbps : +16dBm minimum</li><li>▪ 802.11a, 6Mbps : +17dBm minimum</li><li>▪ 802.11n, MCS7(HT20) : +14dBm minimum</li><li>▪ 802.11n, MCS7(HT40) : +13.5dBm minimum</li><li>▪ 802.11ac MCS9(VHT20) : 13.5dBm minimum</li><li>▪ 802.11ac MCS9(VHT40) : +13.5dBm minimum</li><li>▪ 802.11ac MCS9(VHT80) : +12.5dBm minimum</li><li>▪ 802.11ac MCS9(VHT160) : +10.5dBm minimum</li><li>▪ 802.11ax MCS11(HE20)(6GHz) : +11.5dBm minimum</li><li>▪ 802.11ax MCS11(HE40)(6GHz) : +7.5dBm minimum</li><li>▪ 802.11ax MCS11(HE80)(6GHz) : +7.5dBm minimum</li><li>▪ 802.11ax MCS11(HE160)(6GHz) : +7.5dBm minimum</li><li>▪ 802.11be MCS13(EHT20)(6GHz) : 11.5dBm</li><li>▪ 802.11be MCS13(EHT40)(6GHz) : 7.5dBm</li><li>▪ 802.11be MCS13(EHT80)(6GHz) : 7.5dBm</li><li>▪ 802.11be MCS13(EHT160)(6GHz) : 6.5dBm</li><li>▪ 802.11be MCS13(EHT320)(6GHz) : 4.5dBm</li></ul> |
| <b>Power Consumption</b>                | <ul style="list-style-type: none"><li>▪ Transmit mode : 3.4 W</li><li>▪ Receive mode : 1.8 W</li><li>▪ Idle mode (PSP) : 180 mW (WLAN Associated)</li><li>▪ Idle mode: 50 mW (WLAN unassociated)</li><li>▪ Connected Standby/Modern Standby : 10 mW</li><li>▪ Radio disabled : 8 mW</li></ul>   |
| <b>Power Management</b>                 | ACPI and PCI Express compliant power management   |
| <b>Receiver Sensitivity<sup>2</sup></b> | <ul style="list-style-type: none"><li>▪ 802.11b, 1Mbps : -93.5dBm maximum</li><li>▪ 802.11b, 11Mbps : -85dBm maximum</li><li>▪ 802.11a/g, 6Mbps : -90.5dBm maximum</li><li>▪ 802.11a/g, 54Mbps : -72.5dBm maximum</li><li>▪ 802.11n, MCS0(HT20) : -90dBm maximum</li><li>▪ 802.11n, MCS7(HT20) : -71.5dBm maximum</li><li>▪ 802.11n, MCS0(HT40) : -88.5dBm maximum</li><li>▪ 802.11n, MCS7(HT40) : -68.5dBm maximum</li></ul>   |



|   |   |
|---|---|
|   | <ul style="list-style-type: none"> <li>▪ 802.11ac, MCS9(VHT20) : -88.5dBm maximum</li> <li>▪ 802.11ac, MCS9(VHT40) : -65.5dBm maximum</li> <li>▪ 802.11ac, MCS9(VHT80) : -60.5dBm maximum</li> <li>▪ 802.11ac, MCS9(VHT160) : -58.5dBm maximum</li> <li>▪ 802.11ax, MCS11(HE20)(6GHz) : -59.5dBm maximum</li> <li>▪ 802.11ax, MCS11(HE40)(6GHz) : -56.5dBm maximum</li> <li>▪ 802.11ax, MCS11(HE80)(6GHz) : -53.5dBm maximum</li> <li>▪ 802.11ax, MCS11(HE160)(6GHz) : -51.5dBm maximum</li> <li>▪ 802.11be, MCS13(EHT20)(6GHz) : -55.5dBm maximum</li> <li>▪ 802.11be, MCS13(EHT40)(6GHz) : -53.5dBm maximum</li> <li>▪ 802.11be, MCS13(EHT80)(6GHz) : -51.5dBm maximum</li> <li>▪ 802.11be, MCS13(EHT160)(6GHz) : -48.5dBm maximum</li> <li>▪ 802.11be, MCS13(EHT320)(6GHz) : -45.5dBm maximum</li> </ul> |
| <b>Antenna type</b>                         | <p>High efficiency antenna with spatial diversity</p> <p>Two embedded tri-band 2.4/5/6 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications</p>   |
| <b>Form Factor</b>                          | PCI-Express M.2 MiniCard with CNVi Interface  |
| <b>Dimensions</b>                           | 30.00 x 22.00 x 2.30 mm (1.18 x 0.87 x 0.09 inch)   |
| <b>Weight</b>                               | <p>1. Type 2230: 3.1 g</p> <p>2. Type 1216: 0.8 g</p>   |
| <b>Operating Voltage</b>                    | 3.3 v +/- 5 %   |
| <b>Integrated Bluetooth® specifications</b> |   |
| <b>Bluetooth® Specification</b>             | 4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Compliant   |
| <b>Frequency Band</b>                       | 2042 to 2480 MHz  |
| <b>Number of Available Channels</b>         | Legacy : 0~79 (1 MHz/CH)<br>BLE : 0~39 (2 MHz/CH)   |
| <b>Data Rates and Throughput</b>            | <p>Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps BLE : 1 Mbps data rate; throughput up to 0.2 Mbps Legacy :</p> <p>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)</p>   |



|  |   |
|--|---|
| <b>Transmit Power</b>                              | The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 4 dBm for BR and EDR.   |
| <b>Power Consumption</b>                           | Peak (Tx): 330 mW<br>Peak (Rx): 230 mW<br>Selective Suspend: 17 mW  |
| <b>Bluetooth® Software Supported Link Topology</b> | Microsoft Windows Bluetooth Software  |
| <b>Certifications</b>                              | FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407; ETSI 300 328, ETSI 301 893, ETSI 303 687   |
| <b>Bluetooth® Profiles Supported</b>               | 2Mbps LE<br>Advanced Audio Distribution Profile (A2DP)<br>Basic Imaging Profile (BIP)<br>Bluetooth 4.1 -ESR 5/6/7 Compliance<br>Bluetooth 4.2 ESR08 Compliance<br>Bluetooth 5.2<br>Bluetooth 5.3 wireless card<br>Channel Selection Algo<br>Encryption key size control enhancements<br>ESR9/10 Compliance<br>FAX Profile (FAX)<br>Hands Free Profile (HFP)<br>Headset Profile (HSP)<br>LE Advertisement Extensions<br>LE Data Packet Length Extension<br>LE Dual Mode<br>LE L2CAP Connection Oriented Channels<br>LE Link Layer<br>LE Link Layer Ping<br>LE Long Range<br>LE Low Duty Cycle Directed Advertising<br>LE Privacy 1.2 -Extended Scanner Filter Policies<br>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 7 requires a Wi-Fi 7 router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 7 is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 7 is supported. Wi-Fi 7 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. 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).

|   |                                      |  |
|---|--------------------------------------|--|
| <p><b>Intel® BE201 Wi-Fi 7</b><br/> <b>Bluetooth® 5.4 vPro® WW</b><br/> <b>WLAN<sup>1</sup></b></p> | <p><b>Wireless LAN Standards</b></p> | <p>IEEE 802.11a<br/>                 IEEE 802.11ac<br/>                 IEEE 802.11ax<br/>                 IEEE 802.11b<br/>                 IEEE 802.11be<br/>                 IEEE 802.11d<br/>                 IEEE 802.11e<br/>                 IEEE 802.11g<br/>                 IEEE 802.11h<br/>                 IEEE 802.11i<br/>                 IEEE 802.11k<br/>                 IEEE 802.11n<br/>                 IEEE 802.11r<br/>                 IEEE 802.11v</p> |
|   | <p><b>Interoperability</b></p>       | <p>Wi-Fi certified</p>   |
|   | <p><b>Frequency Band</b></p>         | <p>▪ 802.11b/g/n/ax<br/>                 2.402 - 2.482 GHz<br/>                 ▪ 802.11a/n/ac/ax<br/>                 4.9 - 4.95 GHz (Japan)<br/>                 5.15 - 5.25 GHz</p>   |



|                             |   |
|-----------------------------|---|
|                             | 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   |
| <b>Data Rates</b>           | <ul style="list-style-type: none"><li>▪ 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li><li>▪ 802.11ac: MCS0 ~ MCS9, (20MHz, 40MHz, 80MHz, 160MHz)</li><li>▪ 802.11ax: MCS0 ~ MCS11, (20MHz, 40MHz, 80MHz, 160MHz)</li><li>▪ 802.11b: 1, 2, 5.5, 11 Mbps</li><li>▪ 802.11be: MCS0~13, (20MHz, 40MHz, 80MHz, 160MHz, 320MHz)</li><li>▪ 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li><li>▪ 802.11n: MCS 0 ~ MCS 15, (20MHz, 40MHz)</li></ul> |
| <b>Modulation</b>           | Direct Sequence Spread Spectrum<br>1024QAM, 16-QAM, 256-QAM, 4096QAM, 64-QAM, BPSK, CCK,<br>Direct Sequence Spread Spectrum, OFDM, QPSK   |
| <b>Security</b>             | <ul style="list-style-type: none"><li>▪ 802.1x authentication</li><li>▪ AES-CCMP: 128 bit in hardware</li><li>▪ IEEE 802.11i</li><li>▪ IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g mode only</li><li>▪ WAPI</li><li>▪ WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.</li><li>▪ WPA2 certification</li><li>▪ WPA3 (personal) certification</li></ul>   |
| <b>Network Architecture</b> | Ad-hoc (Peer to Peer)   |
| <b>Models</b>               | Infrastructure (Access Point Required)  |
| <b>Roaming</b>              | IEEE 802.11 compliant roaming between access points   |
| <b>Output Power</b>         | <ul style="list-style-type: none"><li>▪ 802.11b, 1Mbps: +17dBm minimum</li><li>▪ 802.11g, 6Mbps: +16dBm minimum</li><li>▪ 802.11a, 6Mbps: +17dBm minimum</li></ul>  |



|  |   |
|--|---|
|  | <ul style="list-style-type: none"><li>▪ 802.11n, MCS7(HT20) : +14dBm minimum</li><li>▪ 802.11n, MCS7(HT40) : +13.5dBm minimum</li><li>▪ 802.11ac MCS9(VHT20) : 13.5dBm minimum</li><li>▪ 802.11ac MCS9(VHT40) : +13.5dBm minimum</li><li>▪ 802.11ac MCS9(VHT80) : +12.5dBm minimum</li><li>▪ 802.11ac MCS9(VHT160) : +10.5dBm minimum</li><li>▪ 802.11ax MCS11(HE20)(6GHz) : +11.5dBm minimum</li><li>▪ 802.11ax MCS11(HE40)(6GHz) : +7.5dBm minimum</li><li>▪ 802.11ax MCS11(HE80)(6GHz) : +7.5dBm minimum</li><li>▪ 802.11ax MCS11(HE160)(6GHz) : +7.5dBm minimum</li><li>▪ 802.11be MCS13(EHT20)(6GHz) : 11.5dBm</li><li>▪ 802.11be MCS13(EHT40)(6GHz) : 7.5dBm</li><li>▪ 802.11be MCS13(EHT80)(6GHz) : 7.5dBm</li><li>▪ 802.11be MCS13(EHT160)(6GHz) : 6.5dBm</li><li>▪ 802.11be MCS13(EHT320)(6GHz) : 4.5dBm</li></ul> |
| <b>Power Consumption</b>                 | <ul style="list-style-type: none"><li>▪ Transmit mode : 3.4 W</li><li>▪ Receive mode : 1.8 W</li><li>▪ Idle mode (PSP) : 180 mW (WLAN Associated)</li><li>▪ Idle mode: 50 mW (WLAN unassociated)</li><li>▪ Connected Standby/Modern Standby : 10 mW</li><li>▪ Radio disabled : 8 mW</li></ul>   |
| <b>Power Management</b>                  | ACPI and PCI Express compliant power management   |
| <b>Receiver Sensitivity <sup>2</sup></b> | <ul style="list-style-type: none"><li>▪ 802.11b, 1Mbps : -93.5dBm maximum</li><li>▪ 802.11b, 11Mbps : -85dBm maximum</li><li>▪ 802.11a/g, 6Mbps : -90.5dBm maximum</li><li>▪ 802.11a/g, 54Mbps : -72.5dBm maximum</li><li>▪ 802.11n, MCS0(HT20) : -90dBm maximum</li><li>▪ 802.11n, MCS7(HT20) : -71.5dBm maximum</li><li>▪ 802.11n, MCS0(HT40) : -88.5dBm maximum</li><li>▪ 802.11n, MCS7(HT40) : -68.5dBm maximum</li><li>▪ 802.11ac, MCS9(VHT20) : -88.5dBm maximum</li><li>▪ 802.11ac, MCS9(VHT40) : -65.5dBm maximum</li><li>▪ 802.11ac, MCS9(VHT80) : -60.5dBm maximum</li></ul>  |

|   |   |
|---|---|
|   | <ul style="list-style-type: none"> <li>▪ 802.11ac, MCS9(VHT160) : -58.5dBm maximum</li> <li>▪ 802.11ax, MCS11(HE20)(6GHz) : -59.5dBm maximum</li> <li>▪ 802.11ax, MCS11(HE40)(6GHz) : -56.5dBm maximum</li> <li>▪ 802.11ax, MCS11(HE80)(6GHz) : -53.5dBm maximum</li> <li>▪ 802.11ax, MCS11(HE160)(6GHz) : -51.5dBm maximum</li> <li>▪ 802.11be, MCS13(EHT20)(6GHz) : -55.5dBm maximum</li> <li>▪ 802.11be, MCS13(EHT40)(6GHz) : -53.5dBm maximum</li> <li>▪ 802.11be, MCS13(EHT80)(6GHz) : -51.5dBm maximum</li> <li>▪ 802.11be, MCS13(EHT160)(6GHz) : -48.5dBm maximum</li> <li>▪ 802.11be, MCS13(EHT320)(6GHz) : -45.5dBm maximum</li> </ul> |
| <b>Antenna type</b>                         | <p>High efficiency antenna with spatial diversity</p> <p>Two embedded tri-band 2.4/5/6 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications</p>   |
| <b>Form Factor</b>                          | PCI-Express M.2 MiniCard with CNVi Interface  |
| <b>Dimensions</b>                           | 30.00 x 22.00 x 2.30 mm (1.18 x 0.87 x 0.09 inch)   |
| <b>Weight</b>                               | <p>1. Type 2230: 3.1 g</p> <p>2. Type 1216: 0.8 g</p>   |
| <b>Operating Voltage</b>                    | 3.3 v +/- 5 %   |
| <b>Integrated Bluetooth® specifications</b> |   |
| <b>Bluetooth® Specification</b>             | 4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Compliant   |
| <b>Frequency Band</b>                       | 2042 to 2480 MHz  |
| <b>Number of Available Channels</b>         | <p>Legacy : 0~79 (1 MHz/CH)</p> <p>BLE : 0~39 (2 MHz/CH)</p>  |
| <b>Data Rates and Throughput</b>            | <p>Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps BLE : 1 Mbps data rate; throughput up to 0.2 Mbps Legacy :</p> <p>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)</p>   |
| <b>Transmit Power</b>                       | The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 4 dBm for BR and EDR.   |



|                                      |  |
|--------------------------------------|--|
| <b>Power Consumption</b>             | Peak (Tx): 330 mW<br>Peak (Rx): 230 mW<br>Selective Suspend: 17 mW   |
| <b>Bluetooth® Software</b>           | Microsoft Windows Bluetooth Software   |
| <b>Supported Link Topology</b>       |  |
| <b>Power Management</b>              | Microsoft Windows ACPI, and USB Bus Support  |
| <b>Certifications</b>                | FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407; ETSI 300 328, ETSI 301 893, ETSI 303 687  |
| <b>Bluetooth® Profiles Supported</b> | 2Mbps LE<br>Advanced Audio Distribution Profile (A2DP)<br>Basic Imaging Profile (BIP)<br>Bluetooth 4.1 -ESR 5/6/7 Compliance<br>Bluetooth 4.2 ESR08 Compliance<br>Bluetooth 5.2<br>Bluetooth 5.3 wireless card<br>Channel Selection Algo<br>Encryption key size control enhancements<br>ESR9/10 Compliance<br>FAX Profile (FAX)<br>Hands Free Profile (HFP)<br>Headset Profile (HSP)<br>LE Advertisement Extensions<br>LE Data Packet Length Extension<br>LE Dual Mode<br>LE L2CAP Connection Oriented Channels<br>LE Link Layer<br>LE Link Layer Ping<br>LE Long Range<br>LE Low Duty Cycle Directed Advertising<br>LE Privacy 1.2 -Extended Scanner Filter Policies<br>LE Privacy 1.2 -Link Layer Privacy<br>LE Secure Connection- Basic/Full<br>Limited High Duty Cycle Non-Connectable Advertising |



Periodic Advertisement interval  
 Train Nudging & Interlaced Scan  
 Windows Bluetooth profiles support

1. Wi-Fi 7 requires a Wi-Fi 7 router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 7 is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 7 is supported. Wi-Fi 7 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. 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<sup>1</sup>

#### 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)   |
| <b>Wireless protocol standards</b> | 5G NR Air Interface<br>3GPP Rel15 5G NR sub-6<br>LTE Rel15<br>3GPP Release 8 UMTS Specification   |
| <b>GPS</b>                         | Standalone/A-GPS (MS-A, MS-B)   |
| <b>GPS bands</b>                   | GPS L1 (1575.42MHz), GLONASS L1 (1602MHz), Beidou B1 (1561.098MHz), Galileo E1 (1575.42MHz), QZSS (1575.42MHz)  |
| <b>Maximum data rates</b>          | SA 5G/NR sub-6 Peak: 4.67 Gbps(Download), 1.25 Gbps(Upload)   |
| <b>Maximum output power</b>        | HSPA+: 23.5 dBm<br>LTE (all bands except B41): 23.0 dBm (Not support HPUE)<br>NR (all band except n41, n77, n78, n79): 23.0 dBm (Not support HPUE)<br>NR n41, n77, n78, n79 HPUE: 26.0 dBm (Support HPUE) |
| <b>Maximum power consumption</b>   | 5G Sub 6: 3,500 mA<br>LTE: 2,500 mA (peak); mA (average)  |
| <b>Form Factor</b>                 | M.2; 3052-S3 Key B  |
| <b>Weight</b>                      | 8.6 g (0.303 oz)  |



|  |   |
|--|---|
| <b>Dimensions</b><br><b>(Length x Width x Thickness)</b> | 30.00 x 52.00 x 2.30 mm (1.18 x 2.05 x 0.09 inch) |
| <b>embedded eSIM</b>                                     | Yes   |

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<sup>1</sup>

#### 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)  |
| <b>Wireless protocol standards</b>             | LTE Rel15<br>3GPP Release 8 UMTS Specification   |
| <b>GPS</b>                                     | Standalone/A-GPS (MS-A, MS-B)  |
| <b>GPS bands</b>                               | GPS L1 (1575.42MHz), GLONASS L1 (1602MHz), Beidou B1 (1561.098MHz), Galileo E1 (1575.42MHz), QZSS (1575.42MHz) |
| <b>Maximum data rates</b>                      | UE Category DL 19 (1.6 Gbps Download) , UE Category UL 18 (211 Mbps Upload)                                    |
| <b>Maximum output power</b>                    | LTE (all bands except B41): 23.0 dBm (Not support HPUE)  |
| <b>Maximum power consumption</b>               | LTE: 2,500 mA (peak)   |
| <b>Form Factor</b>                             | M.2; 3052-S3 Key B   |
| <b>Weight</b>                                  | 8.4 g (0.296 oz)   |
| <b>Dimensions (Length x Width x Thickness)</b> | 30.00 x 52.00 x 2.30 mm (1.18 x 2.05 x 0.09 inch)  |
| <b>embedded eSIM</b>                           | 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.

|  |   |  |
|--|---|--|
| <b>NFC Mirage WNC XRAV-1</b>           | <b>Dimensions (L x W x H)</b>               | 17.00 x 10.00 x 2.00 mm (0.67 x 0.39 x 0.08 inch)  |
|  | <b>Chipset</b>                              | NPC300   |
|  | <b>System interface</b>                     | I2C  |
|  | <b>NFC RF standards</b>                     | 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                                   |
|  | <b>NFC Forum Support</b>                    | Type 1, Type 2, Type 3 / Type 4, NFCIP-1 / NFCIP-2 |
|  | <b>Reader (PCD-VCD) Mode</b>                | ISO/IEC 14443 A                                    |
|  |   | ISO/IEC 14443 B                                    |
|  |   | ISO/IEC 15693                                      |
|  |   | MIFARE 1K  |
|  |   | MIFARE 4K  |
| MIFARE DESFire                         |   |  |
| FeliCa                                 |   |  |
|  | Jewel and Topaz                             |  |
| <b>Card Emulation (PICC-VICC) Mode</b> | ISO/IEC 14443 A                             |  |
| <b>Mode</b>                            | ISO/IEC 14443 B and B'                      |  |
|  | MIFARE                                      |  |
|  | FeliCa                                      |  |
| <b>Frequency</b>                       | 13.56 MHz                                   |  |
| <b>NFC Modes Supported</b>             | Reader/Writer, Peer-to-Peer                 |  |
| <b>Raw RF Data Rates</b>               | 106 kbps, 212 kbps, 424 kbps, 848 kbps      |  |
| <b>Operating temperature</b>           | Operating: 0 °C to 70 °C (32 °F to 158 °F)  |  |
|  | Storage: -20 °C to 125 °C (-4 °F to 257 °F) |  |
| <b>Storage temperature</b>             | Operating: 10% - 90% (non-condensing)       |  |
|  | Non-Operating: 5% - 95% (non-condensing)    |  |



|   |  |
|---|--|
| <b>Humidity</b>   | Operating: 10% - 90% (non-condensing)<br>Non-Operating: 5% - 95% (non-condensing)  |
| <b>Supply Operating voltage</b>   | 4.35 to 5.25 Volts   |
| <b>I/O Voltage</b>  | 1.8V or 3.3V   |
| <b>Power Consumption</b><br>(Booster enable, VBAT= 3.3V,<br>VCC_BOOST = 5V) | Booster enable, VBAT= 3.3V, VCC_BOOST = 5V   |
| <b>Mode</b>   | Power Consumption, Typical   |
| <b>Polling</b>  | 7.3 mA   |
| <b>Detected Test Tag Type 1</b>   | Total 283.8 mA<br>Net Module 236.8 mA  |
| <b>Detected Test Tag Type 2</b>   | Total 288.8 mA<br>Net Module 241.8 mA  |
| <b>Detected Test Tag Type 3</b>   | Total 287.7 mA<br>Net Module 240.7 mA  |
| <b>Detected Test Tag Type 4</b>   | Total 282.3 mA<br>Net Module 235.3 mA  |
| <b>Antenna</b>  | Antenna connector, 0.5mm pitch, 7 connector FPC. Antenna matching is external to module.   |
| <b>Qualcomm 9205 LTE-M (CAT-M1 fSVC)<sup>1</sup></b>                        | <b>Technology/Operating bands</b>  |
|   | FDD LTE:<br>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 19 upper), 850 (Band 26), 850 (Band 5), 900 (Band 8) MHz |
|   | GSM/GPRS/EGPRS:<br>1800, 1900, 850, 900 MHz  |
| <b>Wireless protocol standards</b>  | 3GPP TS 21.111 V10.0.0: USIM and IC card requirements<br>3GPP TS 27.005 V10.0.1: Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short   |



|  |  |
|--|--|
|  | <p>Message Service (SMS) and Cell Broadcast Service (CBS)</p> <p>3GPP TS 27.007 V10.0.8: AT command set for User Equipment (UE)</p> <p>3GPP TS 31.102 V10.11.0: Characteristics of the Universal Subscriber Identity Module (USIM) application</p> <p>3GPP TS 31.11 V10.16.0: Universal Subscriber Identity Module (USIM) Application Toolkit (USAT)</p> <p>3GPP TS 36.124 V10.3.0: Electro Magnetic Compatibility (EMC) requirements for mobile terminals and ancillary equipment</p> <p>3GPP TS 36.521-1 V14.3.0: User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing</p> <p>3GPP TS 51.010-1 V10.5.0: Mobile Station (MS) conformance specification; Part 1: Conformance specification</p> <p>3GPP TS 51.011 V4.15.0: Specification of the Subscriber Identity Module -Mobile Equipment (SIM-ME) interface</p> |
| <b>GPS</b>                                     | Standalone GPS/Beidou/GLONASS/A-GPS (XTRA)   |
| <b>GPS bands</b>                               | 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou 1561.098 MHz   |
| <b>Maximum data rates</b>                      | <p>LTE FDD: 375.00 Kbps(Download), 1119.00 Kbps(Upload)</p> <p>GPRS: 107.00 Kbps(Download), 85.60 Kbps(Upload)</p> <p>EGPRS: 296.00 Kbps(Download), 236.80 Kbps(Upload)</p>  |
| <b>Maximum output power</b>                    | <p>LTE (all bands except B41): 21.5 dBm</p> <p>GSM: 34.0 dBm</p>   |
| <b>Maximum power consumption</b>               | LTE: 151 mA(peak), 16 mA(average)  |
| <b>Form Factor</b>                             | M.2  |
| <b>Weight</b>                                  | 4.0 g (0.141 oz)   |
| <b>Dimensions (Length x Width x Thickness)</b> | 22.00 x 42.00 x 2.30 mm (0.87 x 1.65 x 0.09 inch)  |
| <b>embedded eSIM</b>                           | Support  |



### POWER

Power supply availability may vary by country.

|  |                                     |   |
|--|-------------------------------------|---|
| <b>HP 100W Slim USB Type-C®<br/>AC power adapter</b> | <b>Weight (DC Cable Included)</b>   | 340g ± 10g (Not including power cord. Power cord varies by country.)  |
|  | <b>Input</b>                        | 100 ~ 240 Vac   |
|  | <b>Input Efficiency</b>             | 81.50% min at 115 Vac / 230 Vac @5.00V<br>86.70% min at 115 Vac / 230 Vac @9.00V<br>88.00% min at 115 Vac / 230 Vac @12.00V<br>89.00% min at 115 Vac / 230 Vac @15.00V<br>89.00% min at 115 Vac / 230 Vac @20.00V |
|  | <b>Input frequency range</b>        | 47 ~ 63Hz   |
|  | <b>Input AC current</b>             | Max. 1.6 A at 90 Vac  |
|  | <b>Output</b>                       |   |
|  | Output power                        | 5V/15W<br>9V/27W<br>12V/60W<br>15V/75W<br>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   |
|  | <b>Connector</b>                    |   |
|  | Connector                           | C6  |
|  | <b>Environmental Design</b>         |   |
|  | Operating temperature               | 0° to 35° C (32° to 95° F)  |
|  | Non-operating (storage) temperature | -20° to 85° C (-4° to 185° F)   |
|  | Altitude                            | 0 to 5,000 m (0 to 16,400 ft)   |



|                               |   |
|-------------------------------|---|
| Humidity                      | 20% to 95%  |
| Storage Humidity              | 10% to 95%  |
| EML and Safety Certifications | CE Mark - full compliance with LVD and EMC directives<br>Worldwide safety standards - IEC60950-1, IEC 62368-1:2014 and IEC62368-1 : 2018, EN62368-1:2020+A11, UL 62368-1<br>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) |

|   |                                   |   |
|---|-----------------------------------|---|
| <b>HP 65W Standard USB Type-C® AC power adapter</b> | <b>Weight (DC Cable Included)</b> | 220g ± 10g (Not including power cord. Power cord varies by country.)  |
|   | <b>Input</b>                      | 100 ~ 240 Vac   |
|   | <b>Input Efficiency</b>           | 81.50% min at 115 Vac / 230 Vac @5.00V<br>86.70% min at 115 Vac / 230 Vac @9.00V<br>88.00% min at 115 Vac / 230 Vac @12.00V<br>89.00% min at 115 Vac / 230 Vac @15.00V<br>89.00% min at 115 Vac / 230 Vac @20.00V |
|   | <b>Input frequency range</b>      | 47 ~ 63Hz   |
|   | <b>Input AC current</b>           | Max. 1.6 A at 90 Vac  |
|   | <b>Output</b>                     |   |
|   | <b>Output power</b>               | 5V/15W<br>9V/27W<br>12V/60W<br>15V/65W<br>20V/65W   |
|   | <b>DC output</b>                  | 5V/9V/12V/15V/20V   |
|   | <b>Hold-up time</b>               | 100% load 5ms at 115 Vac input  |
|   | <b>Output Over Current</b>        | < 8.0A  |
|   | <b>Protection</b>                 |   |
|   | <b>AC Inlet Type</b>              | C6  |
|   | <b>DC Cable Connector</b>         | USB type C  |



|  |   |
|--|---|
| DC Cable Material  | PVC   |
| <b>Connector</b>   |   |
| Connector  | C6  |
| <b>Environmental Design</b>                                |   |
| Operating temperature                                      | 0° to 35° C (32° to 95° F)  |
| Non-operating (storage) temperature                        | -20° to 85° C (-4° to 185° F)   |
| Altitude   | 0 to 5,000 m (0 to 16,400 ft)   |
| Humidity   | 20% to 95%  |
| Storage Humidity   | 10% to 95%  |
| <b>EMI and Safety</b>                                      | CE Mark - full compliance with LVD and EMC directives   |
| <b>Certifications</b>                                      | Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL 62368-1<br>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 |
| <b>HP 65W USB Type-C® Gallium Nitride AC power adapter</b> |   |
| <b>Weight (DC Cable Included)</b>                          | 105g ± 10g (Not including power cord. Power cord varies by country.)  |
| <b>Input</b>   | 100 ~ 240 Vac   |
| <b>Input Efficiency</b>                                    | 81.50% min at 115 Vac / 230 Vac @5.00V<br>86.70% min at 115 Vac / 230 Vac @9.00V<br>89.00% min at 115 Vac / 230 Vac @15.00V<br>89.00% min at 115 Vac / 230 Vac @20.00V  |
| <b>Input frequency range</b>                               | 47 ~ 63Hz   |
| <b>Input AC current</b>                                    | Max. 1.6 A at 90 Vac  |
| <b>Output</b>  |   |
| Output power   | 5V/15W<br>9V/27W<br>15V/65W<br>20V/65W  |



|   |   |
|---|---|
| DC output                                       | 5V/9V/15V/20V   |
| Hold-up time                                    | 100% load 5ms at 115 Vac input  |
| Output Over Current                             | 115% ~ 125%   |
| Protection                                      |   |
| AC Inlet Type                                   | C6  |
| DC Cable Connector                              | USB type C  |
| DC Cable Material                               | PVC   |
| <b>Connector</b>                                |   |
| Connector                                       | C6  |
| Environmental Design                            |   |
| Operating temperature                           | 0° to 35° C (32° to 95° F)  |
| Non-operating (storage) temperature             | -20° to 85° C (-4° to 185° F)   |
| Altitude  | 0 to 5,000 m (0 to 16,400 ft)   |
| Humidity  | 20% to 95%  |
| Storage Humidity                                | 10% to 95%  |
| <b>EMI and Safety</b>                           | CE Mark - full compliance with LVD and EMC directives   |
| <b>Certifications</b>                           | Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL 62368-1<br>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 |
| <b>HP 65W Slim USB Type-C® AC power adapter</b> |   |
| <b>Weight (DC Cable Included)</b>               | 200g ± 10g (Not including power cord. Power cord varies by country.)  |
| <b>Input</b>                                    | 100 ~ 240Vac  |
| <b>Input Efficiency</b>                         | 81.50% min at 115 Vac / 230 Vac @5.00V<br>86.70% min at 115 Vac / 230 Vac @9.00V<br>88.00% min at 115 Vac / 230 Vac @12.00V<br>89.00% min at 115 Vac / 230 Vac @15.00V<br>89.00% min at 115 Vac / 230 Vac @20.00V   |



|                                     |   |
|-------------------------------------|---|
| <b>Input frequency range</b>        | 47 ~ 63Hz   |
| <b>Input AC current</b>             | Max. 1.6 A at 90 Vac  |
| <b>Output</b>                       |   |
| Output power                        | 5V/15W<br>9V/27W<br>12V/60W<br>15V/65W<br>20V/65W   |
| DC output                           | 5V/9V/12V/15V/20V   |
| Hold-up time                        | 100% load 5ms at 115 Vac input  |
| Output Over Current                 | < 8.0A  |
| Protection                          |   |
| AC Inlet Type                       | C6  |
| DC Cable Connector                  | USB type C  |
| DC Cable Material                   | PVC   |
| <b>Connector</b>                    |   |
| Connector                           | C6  |
| <b>Environmental Design</b>         |   |
| Operating temperature               | 0° to 35° C (32° to 95° F)  |
| Non-operating (storage) temperature | -20° to 85° C (-4° to 185° F)   |
| Altitude                            | 0 to 5,000 m (0 to 16,400 ft)   |
| Humidity                            | 20% to 95%  |
| Storage Humidity                    | 10% to 95%  |
| <b>EMI and Safety</b>               | CE Mark - full compliance with LVD and EMC directives   |
| <b>Certifications</b>               | Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL 62368-1<br>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 |



|  |   |  |
|--|---|--|
| <b>HP 65W Standard USB Type-C® Halogen Free AC power adapter</b> | <b>Weight (DC Cable Included)</b>                     | 220g ± 10g (Not including power cord. Power cord varies by country.) |
|  | <b>Input</b>  | 100 ~ 240 Vac  |
|  | <b>Input Efficiency</b>                               | 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                              |
|  | <b>Input frequency range</b>                          | 47 ~ 63Hz  |
|  | <b>Input AC current</b>                               | Max. 1.6 A at 90 Vac   |
|  | <b>Output</b>   |  |
|  | 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 Over Current Protection                        | < 8.0A   |
|  | AC Inlet Type   | C6   |
|  | DC Cable Connector                                    | USB type C   |
|  | DC Cable Material                                     | Halogen Free   |
|  | <b>Connector</b>                                      |  |
| Connector  | C6  |  |
| <b>Environmental Design</b>                                      |   |  |
| Operating temperature  | 0° to 35° C (32° to 95° F)                            |  |
| Non-operating (storage) temperature                              | -20° to 85° C (-4° to 185° F)                         |  |
| Altitude   | 0 to 5,000 m (0 to 16,400 ft)                         |  |
| Humidity   | 20% to 95%  |  |
| Storage Humidity   | 10% to 95%  |  |
| <b>EMI and Safety</b>  | CE Mark - full compliance with LVD and EMC directives |  |



### Certifications

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

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

|   |  |                                 |
|---|--|---------------------------------|
| <b>HP Long Life 3 cell, 62Whr<br/>Polymer</b> | <b>Weight</b>                            | Max 236.0 g (0.52 lb)           |
|   | <b>Cells/Type</b>                        | 3 cell Lithium-Ion Polymer cell |
|   | <b>Energy</b>                            |                                 |
|   | <b>Voltage</b>                           | 11.58 V                         |
|   | <b>Amp-hour capacity</b>                 | 5355 mAh / 5086 mAh             |
|   | <b>Watt-hour capacity</b>                | 62 Whr                          |
|   | <b>Temperature</b>                       |                                 |
|   | <b>Operating (Charging)</b>              | 0° C ~ 40° C (32° to 104° F)    |
|   | <b>Operating (Discharging)</b>           | -10° C ~ 40° C (14° to 104° F)  |
|   | <b>Optional Travel Battery Available</b> | No                              |



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|                                   |   |
|-----------------------------------|---|
| <b>AUDIO</b>                      |   |
| <b>Codec</b>                      | Realtek ALC3315   |
| <b>Audio I/O Ports</b>            | 3.5mm Headset: CTIA only; Headphone-out   |
| <b>Internal Speaker Amplifier</b> | Cirrus Logic High-Efficiency Boosted Class D Amplifier  |
| <b>Multi-streaming Capable</b>    | 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.,<br>Following MSFT Behavior |
| <b>Sampling</b>                   | DAC: Supports resolutions from 16-bit to 24-bit;48.0 kHz to 48.0 kHz<br>ADC: Supports resolutions from 16-bit to 24-bit;44.1 kHz to 48.0 kHz  |
| <b>Internal Speaker</b>           | Yes   |

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### FINGERPRINT READER

|                             |                                    |
|-----------------------------|------------------------------------|
| Sensor vendor               | SYNAPTICS                          |
| Sensor type                 | Capacitive                         |
| DPI resolution              | 363 DPI                            |
| Scan area                   | 104 x 86 pixels                    |
| False Rejection Rate        | < 3%                               |
| False Acceptance Rate       | < 0.001%                           |
| Mobile Voltage Operation    | 2.7 V ~ 3.6 Vf                     |
| Operating Temperature       | 5°C ~ 60°C (41°F ~ 140°F)          |
| Current Consumption Image   | 100 mA max                         |
| Low Latency Wait For Finger | 260 uA                             |
| Capture Rate                | 50 frames/sec                      |
| ESD Resistance              | IEC 61000-4-2 4B (+15KV)           |
| Detection Matrix            | 363 dpi / 7.4 x 6.0 mm sensor area |

|                             |                                    |
|-----------------------------|------------------------------------|
| Sensor vendor               | ELAN                               |
| Sensor type                 | Capacitive                         |
| DPI resolution              | 363 DPI                            |
| Scan area                   | 56 x 56 pixels                     |
| False Rejection Rate        | < 3%                               |
| False Acceptance Rate       | < 0.001%                           |
| Mobile Voltage Operation    | 2.8 V ~ 3.6 V                      |
| Operating Temperature       | -20°C ~ 80°C (-4°F ~ 176°F)        |
| Current Consumption Image   | 100 mA max                         |
| Low Latency Wait For Finger | 300 uA                             |
| Capture Rate                | 50 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 Adapter +Basic Charge Case - New AMO          | 7Y8H4AA   |                 |
|   | Poly Voyager Free 60 UC M Carbon Black Earbuds +BT700 USB-A Adapter +Basic Charge Case - New AMO        | 7Y8L7AA   |                 |
|   | Poly Voyager Free 60 UC M Carbon Black Earbuds +BT700 USB-C Adapter +Basic Charge Case - New AMO        | 7Y8L8AA   |                 |
|   | Poly Voyager Free 60/60+ Black Earbuds (2 Pieces) - New AMO   | 8L649AA,8L5A6AA   |                 |
|   | Poly Voyager Free 60/60+ Microsoft Teams Certified Black Earbuds (2 Pieces) - New AMO                   | 8L5A8AA   |                 |
|   | Poly Voyager Free 60+ UC Carbon Black Earbuds +BT700 USB-C Adapter +Touchscreen Charge Case - New AMO   | 7Y8G4AA,7Y8H2AA   |                 |
|   | Poly Voyager Free 60+ UC M Carbon Black Earbuds +BT700 USB-C Adapter +Touchscreen Charge Case - New AMO | 7Y8H0AA   |                 |
|   | Audio - Headset   | Poly Blackwire 3210 Monaural USB-C Headset +USB-C/A Adapter Batch 2 - New AMO             | 8X214AA         |
|   |   | Poly Blackwire 3215 Monaural USB-C Headset +3.5mm Plug +USB-C/A Adapter Batch 2 - New AMO | 8X227AA         |
|   |   | Poly Blackwire 3220 Stereo USB-C Headset +USB-C/A Adapter Batch 2 - New AMO               | 93S87AA,8X228AA |
| Poly Blackwire 3310 Monaural Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Batch 2 - New AMO |   | 8X216AA   |                 |
| Poly Blackwire 3310 Monaural USB-C Headset +USB-C/A Adapter Batch 2 - New AMO                           |   | 8X215AA   |                 |
| Poly Blackwire 3315 Monaural Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Batch 2 - New AMO |   | 8X218AA   |                 |



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| Headset +3.5mm Plug+USB-C/A Adapter Batch 2 - New AMO   |                 |
| Poly Blackwire 3315 Monaural USB-C Headset +3.5mm Plug +USB-C/A Adapter Batch 2 - New AMO                 | 8X217AA         |
| Poly Blackwire 3320 Stereo Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Batch 2 - New AMO     | 8X220AA         |
| Poly Blackwire 3320 Stereo USB-C Headset +USB-C/A Adapter Batch 2 - New AMO                               | 8X219AA         |
| Poly Blackwire 3325 Stereo Microsoft Teams Certified USB-C Headset +3.5mm Plug +USB-C/A Adapter - New AMO | 8X222AA         |
| Poly Blackwire 3325 Stereo USB-C Headset +3.5mm Plug +USB-C/A Adapter Batch 2 - New AMO                   | 8X221AA         |
| Poly Blackwire 5210 Monaural USB-C Headset +3.5mm Plug +USB-C/A Adapter Batch 2 - New AMO                 | 8X230AA         |
| Poly Blackwire 5220 Stereo USB-C Headset +3.5mm Plug +USB-C/A Adapter Batch 2 - New AMO                   | 8X231AA,93S88AA |
| Poly Blackwire 8225 Stereo Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Batch 2 - New AMO     | 8X225AA         |
| Poly Blackwire 8225 Stereo USB-C Headset +USB-C/A Adapter Batch 2 - New AMO                               | 8X223AA         |
| Poly EncorePro 310 Monaural USB-A Headset TAA Batch 1 - New AMO   | 767G1AA         |
| Poly EncorePro 310 Monoaural with Quick Disconnect Headset TAA Batch 1 - New AMO                          | 77T43AA         |
| Poly EncorePro 310 USB-C Monoaural Headset TAA Batch 1 - New AMO  | 760Q8AA         |
| Poly EncorePro 320 Stereo USB-A Headset TAA Batch 1 - New AMO   | 767G0AA         |
| Poly EncorePro 320 Stereo USB-C Headset TAA Batch 1 - New AMO   | 767F9AA         |
| Poly EncorePro 320 with Quick Disconnect Binaural Headset TAA Batch 1 - New AMO                           | 77T26AA         |
| Poly EncorePro 510 Monaural Headset +Quick Disconnect Batch 1 - New AMO                                   | 783Q2AA         |



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| Poly EncorePro 515 Microsoft Teams Certified Monoaural with USB-A Headset Batch 1 - New AMO | 783R1AA |
| Poly EncorePro 515 Monoaural with USB-A Headset Batch 1 - New AMO                           | 783R0AA |
| Poly EncorePro 520 Binaural Headset +Quick Disconnect - New AMO                             | 783P7AA |
| Poly EncorePro 525 Microsoft Teams Certified Stereo with USB-A Headset Batch 1 - New AMO    | 783R2AA |
| Poly EncorePro 525 USB-A Stereo Headset Batch 1 - New AMO                                   | 783R3AA |
| Poly EncorePro 530 Headset +Quick Disconnect Batch 1 - New AMO                              | 783P3AA |
| Poly EncorePro 540 Convertible Headset +Quick Disconnect Batch 1 - New AMO                  | 783P1AA |
| Poly EncorePro 715 USB-A Monoaural Headset TAA Batch 1 - New AMO                            | 783N5AA |
| Poly EncorePro 720 Binaural Headset +Quick Disconnect - New AMO                             | 8R707AA |
| Poly EncorePro 725 USB-A Stereo Headset TAA Batch 1 - New AMO                               | 783M6AA |
| Poly EncorePro HW710 Single Ear Headset +Carry Case +Quick Disconnect - New AMO             | 8R708AA |
| Poly Savi 7310 Office DECT 1880-1900 MHz Single Ear Headset - New AMO                       | 8D3G3AA |
| Poly Savi 7310 Office Monoaural DECT 1920-1930 MHz Headset Batch 2 - New AMO                | 7S430AA |
| Poly Savi 7310 UC Monoaural DECT 1880-1900 MHz Headset - New AMO                            | 8L561AA |
| Poly Savi 7310 UC Monoaural DECT 1920-1930 MHz Headset - New AMO                            | 8L570AA |
| Poly Savi 7310 UC Monoaural Microsoft Teams Certified DECT 1880-1900 MHz Headset - New AMO  | 8L575AA |
| Poly Savi 7310 UC Monoaural Microsoft Teams Certified DECT 1920-1930 MHz Headset - New AMO  | 8L585AA |



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| Poly Savi 7310-M Office DECT 1880-1900 MHz Single Ear Headset - New AMO                 | 8D3K7AA |
| Poly Savi 7310-M Office DECT 1920-1930 MHz Single Ear Headset Batch 2 - New AMO         | 7S439AA |
| Poly Savi 7320 Office Stereo DECT 1880-1900 MHz Headset - New AMO                       | 8D3F7AA |
| Poly Savi 7320 Office Stereo DECT 1893-1906 MHz Headset - New AMO                       | 8D3F8AA |
| Poly Savi 7320 Office Stereo DECT 1910-1920 MHz Headset - New AMO                       | 8D3G0AA |
| Poly Savi 7320 Office Stereo DECT 1920-1930 MHz Headset Batch 2 - New AMO               | 7S429AA |
| Poly Savi 7320 UC Stereo DECT 1880-1900 MHz Headset - New AMO                           | 8L545AA |
| Poly Savi 7320 UC Stereo DECT 1893-1906 MHz Headset - New AMO                           | 8L546AA |
| Poly Savi 7320 UC Stereo DECT 1920-1930 MHz Headset - New AMO                           | 8L549AA |
| Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1880-1900 MHz Headset - New AMO | 8L553AA |
| Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1893-1906 MHz Headset - New AMO | 8L555AA |
| Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1920-1930 MHz Headset - New AMO | 8L559AA |
| Poly Savi 7320-M Office Stereo DECT 1880-1900 MHz Headset - New AMO                     | 8D3J6AA |
| Poly Savi 7320-M Office Stereo DECT 1893-1906 MHz Headset - New AMO                     | 8D3K2AA |
| Poly Savi 7320-M Office Stereo DECT 1910-1920 MHz Headset - New AMO                     | 8D3K0AA |
| Poly Savi 7320-M Office Stereo DECT 1920-1930 MHz Headset Batch 2 - New AMO             | 7S435AA |
| Poly Savi 7410 Office Monaural DECT 1880-1900 MHz Headset                               | 8L589AA |



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| - New AMO   |         |
| Poly Savi 7410 Office Monaural DECT 1893-1906 MHz Headset                                     | 8L591AA |
| - New AMO   |         |
| Poly Savi 7410 Office Monaural DECT 1920-1930 MHz Headset                                     | 8L7D5AA |
| - New AMO   |         |
| Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT 1880-1900 MHz Headset - New AMO | 8L593AA |
| Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT 1893-1906 MHz Headset - New AMO | 8L594AA |
| Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT 1910-1920 MHz Headset - New AMO | 8L597AA |
| Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT 1920-1930 MHz Headset - New AMO | 8L7D7AA |
| Poly Savi 7420 Office Stereo DECT 1880-1900 MHz Headset - New AMO                             | 8L560AA |
| Poly Savi 7420 Office Stereo DECT 1893-1906 MHz Headset - New AMO                             | 8L563AA |
| Poly Savi 7420 Office Stereo DECT 1910-1920 MHz Headset - New AMO                             | 8L564AA |
| Poly Savi 7420 Office Stereo DECT 1920-1930 MHz Headset - New AMO                             | 8L567AA |
| Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1880-1900 MHz Headset - New AMO   | 8L574AA |
| Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1893-1906 MHz Headset - New AMO   | 8L576AA |
| Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1910-1920 MHz Headset - New AMO   | 8L579AA |
| Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1920-1930 MHz Headset - New AMO   | 8L583AA |
| Poly Savi 8210 Office DECT 1880-1900 MHz Single Ear Headset - New AMO                         | 8D3K5AA |
| Poly Savi 8210 Office DECT 1910-1920 MHz Single Ear Headset - New AMO                         | 8D3K6AA |



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| Poly Savi 8210 Office DECT 1920-1930 MHz Single Ear Headset TAA Batch 2 - New AMO      | 7S445AA |
| Poly Savi 8210 UC DECT 1880-1900 MHz USB-A Headset - New AMO                           | 8D3E9AA |
| Poly Savi 8210 UC DECT 1920-1930 MHz USB-A Headset - New AMO                           | 77T29AA |
| Poly Savi 8210 UC Microsoft Teams Certified DECT 1880-1900 MHz USB-A Headset - New AMO | 8D3F1AA |
| Poly Savi 8210 UC Microsoft Teams Certified DECT 1920-1930 MHz USB-A Headset - New AMO | 77T31AA |
| Poly Savi 8210-M Office DECT 1880-1900 MHz Single Ear Headset - New AMO                | 8D3J8AA |
| Poly Savi 8210-M Office DECT 1910-1920 MHz Single Ear Headset - New AMO                | 8D3K1AA |
| Poly Savi 8210-M Office DECT 1920-1930 MHz Single Ear Headset TAA Batch 2 - New AMO    | 7S447AA |
| Poly Savi 8220 Office Stereo DECT 1880-1890 MHz Headset - New AMO                      | 8D3J1AA |
| Poly Savi 8220 Office Stereo DECT 1880-1900 MHz Headset - New AMO                      | 8D3J2AA |
| Poly Savi 8220 Office Stereo DECT 1910-1920 MHz Headset - New AMO                      | 8D3J4AA |
| Poly Savi 8220 Office Stereo DECT 1920-1930 MHz Headset TAA Batch 2 - New AMO          | 7S4B5AA |
| Poly Savi 8220 Stereo DECT 1880-1900 MHz Top +Charging Cradle - New AMO                | 8Y9C4AA |
| Poly Savi 8220 UC DECT 1880-1900 MHz USB-A Headset - New AMO                           | 8D3F2AA |
| Poly Savi 8220 UC DECT 1920-1930 MHz USB-A Headset - New AMO                           | 77T33AA |
| Poly Savi 8220 UC Microsoft Teams Certified DECT 1880-1900 MHz USB-A Headset - New AMO | 8D3F5AA |
| Poly Savi 8220 UC Microsoft Teams Certified DECT 1920-1930                             | 77Y82AA |



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| MHz USB-A Headset - New AMO  |         |
| Poly Savi 8220-M Office Stereo DECT 1880-1900 MHz Headset - New AMO                              | 8D3H8AA |
| Poly Savi 8220-M Office Stereo DECT 1910-1920 MHz Headset - New AMO                              | 8D3J0AA |
| Poly Savi 8220-M Office Stereo DECT 1920-1930 MHz Headset TAA Batch 2 - New AMO                  | 7S4B6AA |
| Poly Savi 8245 DECT 1880-1900 MHz Headset +USB-A to USB-C Cable +D400 - New AMO                  | 8D3H2AA |
| Poly Savi 8245 Office DECT 1880-1900 MHz USB-A Headset - New AMO                                 | 8D3H1AA |
| Poly Savi 8245 Office DECT 1920-1930 MHz USB-A Headset TAA - New AMO                             | 7W6D1AA |
| Poly Savi 8245-M Microsoft Teams Certified DECT 1880-1900 MHz USB-A Headset +D200 - New AMO      | 8D3F4AA |
| Poly Savi 8245-M Office Microsoft Teams Certified DECT 1880-1900 MHz USB-A Headset - New AMO     | 8D3H7AA |
| Poly Savi 8245-M Office Microsoft Teams Certified DECT 1920-1930 MHz USB-A Headset TAA - New AMO | 7W069AA |
| Poly Savi 8410 Office Monaural DECT 1880-1900 MHz Headset - New AMO                              | 8L5A7AA |
| Poly Savi 8410 Office Monaural DECT 1920-1930 MHz Headset - New AMO                              | 8L7E6AA |
| Poly Savi 8410 Office Monaural Microsoft Teams Certified DECT 1880-1900 MHz Headset - New AMO    | 8L5A9AA |
| Poly Savi 8410 Office Monaural Microsoft Teams Certified DECT 1920-1930 MHz Headset - New AMO    | 8L7E9AA |
| Poly Savi 8420 Office Stereo DECT 1880-1900 MHz Headset - New AMO                                | 8L5B2AA |
| Poly Savi 8420 Office Stereo DECT 1920-1930 MHz Headset - New AMO                                | 8L7F2AA |
| Poly Savi 8420 Office Stereo Microsoft Teams Certified DECT 1880-1900 MHz Headset - New AMO      | 8L5B3AA |



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| Poly Savi 8420 Office Stereo Microsoft Teams Certified DECT 1920-1930 MHz Headset - New AMO                 | 8L7F5AA |
| Poly Savi 8445 Office DECT 1880-1900 MHz Convertible Headset - New AMO                                      | 8L5B4AA |
| Poly Savi 8445 Office DECT 1920-1930 MHz Convertible Headset - New AMO                                      | 8L7F8AA |
| Poly Savi 8445 Office Microsoft Teams Certified DECT 1880-1900 MHz Convertible Headset - New AMO            | 8L5B6AA |
| Poly Savi 8445 Office Microsoft Teams Certified DECT 1920-1930 MHz Convertible Headset - New AMO            | 8L7F1AA |
| Poly Voyager 4310 Microsoft Teams Certified Headset +BT700 dongle +Charging Stand - New AMO                 | 77Y93AA |
| Poly Voyager 4310 Microsoft Teams Certified USB-A Headset +BT700 dongle Batch 1 - New AMO                   | 77Y91AA |
| Poly Voyager 4310 Microsoft Teams Certified USB-C Headset +BT700 dongle Batch 1 - New AMO                   | 77Y95AA |
| Poly Voyager 4310 UC Monaural Headset +BT700 USB-A Adapter +Charging Stand - New AMO                        | 77Y92AA |
| Poly Voyager 4310 USB-A Headset +BT700 dongle Batch 1 - New AMO   | 76U48AA |
| Poly Voyager 4310 USB-C Headset +BT700 dongle +Charging Stand Batch 1 - New AMO                             | 77Y96AA |
| Poly Voyager 4310 USB-C Headset +BT700 dongle Batch 1 - New AMO   | 77Y94AA |
| Poly Voyager 4310-M Microsoft Teams Certified USB-C Headset +BT700 dongle +Charging Stand Batch 1 - New AMO | 77Y97AA |
| Poly Voyager 4310-M UC Headset +USB-A to USB-C Cable +BT700 dongle Batch 2 - New AMO                        | 7Y210AA |
| Poly Voyager 4320 Microsoft Teams Certified Headset +BT700 dongle +Charging Stand - New AMO                 | 77Z00AA |
| Poly Voyager 4320 Microsoft Teams Certified USB-A Headset +BT700 dongle Batch 1 - New AMO                   | 77Y98AA |
| Poly Voyager 4320 Microsoft Teams Certified USB-C Headset   | 77Z30AA |



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|                       | +BT700 dongle Batch 1 - New AMO   |                 |
|                       | Poly Voyager 4320 UC Stereo USB-A Headset +BT700 USB-A Adapter +Charging Stand - New AMO                                  | 77Y99AA         |
|                       | Poly Voyager 4320 USB-A Headset +BT700 dongle Batch 1 - New AMO   | 76U49AA         |
|                       | Poly Voyager 4320 USB-C Headset +BT700 dongle +Charging Stand Batch 1 - New AMO   | 77Z31AA         |
|                       | Poly Voyager 4320 USB-C Headset +BT700 dongle Batch 1 - New AMO   | 76U50AA         |
|                       | Poly Voyager 4320-M +USB-A to USB-C Cable +BT700 dongle Batch 2 - New AMO   | 7Y211AA         |
|                       | Poly Voyager 4320-M Microsoft Teams Certified Headset +BT700 dongle +Charging Stand Batch 1 - New AMO                     | 77Z32AA         |
|                       | Poly Voyager Focus 2 Microsoft Teams Certified USB-C-C Headset +USB-C/A Adapter +Charging Stand (Tactical 6316) - New AMO | 9T9J6AA         |
|                       | Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter (Tactical 6316) - New AMO   | 9T9J3AA         |
|                       | Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter +Charging Stand (Tactical 6316) - New AMO                           | 9T9J5AA         |
|                       | Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Black Headset +USB-C/A Adapter - New AMO                      | 9D452AA         |
|                       | Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Batch 2 - New AMO                    | 8H2G3AA,8G7U0AA |
|                       | Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Demo - New AMO                       | 9C6W5AA         |
|                       | Poly Voyager Surround 80 UC USB-C Headset +USB-C/A Adapter Batch 2 - New AMO  | 8G7T9AA         |
|                       | Poly Voyager Surround 85 UC Microsoft Teams Certified USB-C Headset+USB-C/A Adapter+ChargingStandBatch2 - New AMO         | 8G7T8AA         |
|                       | Poly Voyager Surround 85 UC USB-C Headset +USB-C/A Adapter +Charging Stand Batch 2 - New AMO                              | 8G7T7AA         |
| Audio - Speaker phone | Poly Sync 10 Microsoft Teams Certified USB-A Speakerphone -   | 77P34AA         |



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|--------|---|-----------------|
|        | New AMO   |                 |
|        | Poly Sync 10 Speakerphone +USB-A to USB-C Cable Batch 2 -     | 7S4M6AA         |
|        | New AMO   |                 |
|        | Poly Sync 10 USB-A USB-C Speakerphone - New AMO               | 772C3AA         |
|        | Poly Sync 20 Microsoft Teams Certified USB-A Speakerphone -   | 772C8AA         |
|        | New AMO   |                 |
|        | Poly Sync 20 USB-A Speakerphone - New AMO                     | 772D2AA         |
|        | Poly Sync 20 USB-C Speakerphone Batch 1 - New AMO             | 7F0J7AA         |
|        | Poly Sync 20+ Microsoft Teams Certified USB-A Speakerphone    | 772C9AA         |
|        | Batch 1 - New AMO   |                 |
|        | Poly Sync 20+ Microsoft Teams Certified USB-C Speakerphone    | 772D1AA         |
|        | Batch 1 - New AMO   |                 |
|        | Poly Sync 20+ USB-A Speakerphone Batch 1 - New AMO            | 772C6AA         |
|        | Poly Sync 20+ USB-C Speakerphone Batch 1 - New AMO            | 772D0AA         |
|        | Poly Sync 20+M Speakerphone +USB-A to USB-C Cable +BT700      | 7Y215AA         |
|        | dongle +Pouch Batch 2 - New AMO                               |                 |
|        | Poly Sync 20-M Microsoft Teams Certified USB-C Speakerphone   | 7F0J8AA         |
|        | Batch 1 - New AMO   |                 |
|        | Poly Sync 20-M Speakerphone +USB-A to USB-C Cable Batch 2 -   | 7S4M1AA         |
|        | New AMO   |                 |
|        | Poly Sync 40 Microsoft Teams Certified USB-A Speakerphone -   | 77P35AA         |
|        | New AMO   |                 |
|        | Poly Sync 40 USB-A USB-C BT Speakerphone - New AMO            | 772C4AA         |
|        | Poly Sync 40+ Microsoft Teams Certified USB-A USB-C           | 77P36AA         |
|        | Speakerphone +BT700 USB-A Adapter - New AMO                   |                 |
|        | Poly Sync 40+ USB-A USB-C Speakerphone +BT700 USB-A           | 772C5AA         |
|        | Adapter - New AMO   |                 |
|        | Poly Sync 60 Microsoft Teams Certified Speakerphone Batch 1 - | 77P41AA         |
|        | New AMO   |                 |
|        | Poly Sync 60 Speakerphone - New AMO                           | 772C2AA         |
| Camera | HP 625 Webcam   | 6Y7L1AA         |
|        | HP USB-A 325 Webcam   | 53X27AA,53X27UT |
| Cases  | HP 14 Convertible Laptop Backpack Tote                        | 9C2H1AA         |



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|-----------|---|-----------------|
|           | HP 14 Modular Laptop Sleeve                       | 9J499AA         |
|           | HP 15.6 Modular Laptop Backpack                   | 9J496AA         |
|           | HP 15.6 Modular Laptop Bag                        | 9J497AA         |
|           | HP 15.6 Modular Laptop Sleeve                     | 9J498AA         |
|           | HP Campus blue Backpack                           | 7K0E5AA         |
|           | HP Campus green Backpack                          | 7K0E4AA         |
|           | HP Campus XL Marble Stone Backpack                | 7K0E2AA         |
|           | HP Campus XL Tie Dye Backpack                     | 7K0E3AA         |
|           | HP Convertible Laptop Stand                       | 9C2H2AA         |
|           | HP Prelude 15.6 Backpack                          | 1E7D6UT,50P32AA |
|           | HP Prelude 15.6 Top Load                          | 1E7D7AA,50P31AA |
|           | HP Prelude Pro Recycled 15.6 Backpack             | 1X644AA         |
|           | HP Prelude Pro Recycled 15.6 Top Load             | 1X645AA         |
|           | 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            | 3E2U5UT         |
|           | HP Renew Business 17.3 Laptop Bag                 | 3E2U6AA         |
|           | HP Renew Executive 14.1 Laptop Sleeve             | 6B8Y3AA         |
|           | HP Renew Executive 16 Laptop Backpack             | 6B8Y1AA,6B8Y1UT |
|           | HP Renew Executive 16 Laptop Bag                  | 6B8Y2AA         |
|           | HP Travel 18 Liter 15.6 iron gray Laptop Backpack | 6H2D9AA         |
|           | HP Travel 25 Liter 15.6 iron gray Laptop Backpack | 6H2D8AA         |
| Commodity | HP USB DVD-Writer External ODD                    | F2B56AA         |
|           | 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         |
|           | HP Thunderbolt 4 Ultra 180W G6 Dock               | 9X481UT         |
|           | HP Thunderbolt 4 Ultra 280W G6 Dock               | AW5M5UT         |
|           | HP Thunderbolt™ 120W G4 Dock                      | 4J0A2AA         |



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|------------------------|--|------------------|
|                        | HP Thunderbolt™ 280W G4 Dock w/Combo Cable                         | 4J0G4AA          |
|                        | HP USB-C™ 120W G5 Dock   | 5TW10AA          |
|                        | HP USB-C™/A 120W G2 Universal Dock                                 | 5TW13AA          |
| Hub                    | HP 4K USB-C Multiport Hub  | 6G843AA,6G843UT  |
|                        | 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 Wired Keyboard  | 266C9AA          |
|                        | HP 320K USB Wired Keyboard   | 9SR37AA,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                                  | 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                              | 286J4AA          |
|                        | HP 225 Wired Mouse and Keyboard Combo White                        | 86J24AA          |
|                        | HP 655 Wireless Keyboard and Mouse Combo                           | 4R009AA, 4R009UT |
|                        | 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 Combo | 9T5B0UT          |
|                        | HP Wired Desktop 320MK Mouse and Keyboard                          | 9SR36AA,9SR36UT  |
| Mouse                  | HP 105 Mouse Pad   | 8X595AA          |
|                        | HP 125 Wired Mouse   | 265A9UT          |
|                        | HP 128 Laser Wired Mouse   | 265D9AA          |
|                        | HP 205 Desk Mat  | 8X597AA          |
|                        | HP 320M Wired Mouse  | 9VA80AA          |
|                        | HP 685 Comfort Dual-Mode Mouse                                     | 8T6M0UT          |



# QuickSpecs

## HP EliteBook 8 G1i 13 inch Notebook AI PC

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|                            |  |                  |
|----------------------------|--|------------------|
|                            | 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              | 1DOK8AA          |
|                            | HP Multi-Device Black 635 Wireless Mouse         | 1DOK2AA          |
| Power                      | HP 110W USB-C Laptop Charger                     | 8B3Y2UT          |
|                            | HP 65W LC USB-C AC power adapter                 | 1P3K6AA          |
|                            | HP 65W GaN USB-C Laptop Charger                  | 600Q8UT          |
|                            | HP 65W USB-C Laptop Charger                      | 671R3AA, 671R3UT |
| 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                                 |
|--------------------|-----------------|------------------|---|
| April 1, 2025      | V1 to V2        | Added<br>Updated | Battery Life<br>Overview and Ports Section            |
| April 2, 2025      | V2 to V3        | Added            | Environmental Section                                 |
| May 20, 2025       | V3 to V4        | Updated          | Docking Section                                       |
| May 21, 2025       | V4 to V5        | Updated          | Camera Section  |
| June 17, 2025      | V5 to V6        | Updated          | Audio/Multimedia                                      |
| July 18, 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<br>Options Section |
| September 4, 2025  | V9 to V10       | Updated          | Networking /Communications Section                    |
| September 17, 2025 | V10 to V11      | Updated          | Software and Security Section                         |
| October 16, 2025   | V11 to V12      | Updated          | Processor Section                                     |
| December 11, 2025  | V12 to V13      | Updated          | Display Section<br>Weight and Dimensions Section      |
| December 24, 2025  | V13 to V14      | Updated          | Graphics Section                                      |
| January 28, 2026   | V14 to V15      | Updated          | Callouts Section<br>Ports Section                     |
| May 27, 2026       | V15 to V16      | Updated          | Storage and Drives Section                            |

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