

## HP EliteBook X Flip G1i 14 inch Notebook Next Gen AI PC



**Front**

- 1 Internal Microphone (2)
- 2 IR Camera
- 3 Webcam
- 4 Camera Shutter
- 5 Touchpad



		<b>Sides</b>	
1	1 x HDMI 2.1	6	1 x Nano SIM card slot (optional)
2	2 x Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1) 45	7	Power Indicator LED
3	2 x Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1) 45	8	1 x USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)
4	Power Indicator LED	9	1 x USB Type-A 5Gbps signaling rate (Powered)
5	1 x Headphone/mic combo jack	10	1 x Security lock slot

### PRODUCT NAME

HP EliteBook X Flip G1i 14 inch Notebook Next Gen AI PC

### OPERATING SYSTEM

FreeDOS

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

Windows 11 Pro <sup>1</sup>

Windows 11 Home Single Language - HP recommends Windows 11 Pro for business <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 <sup>2,3,4</sup>	Cores	Number of P-cores	Number of E-cores	Number of LP E-cores	Threads	Smart Cache	Max Turbo Frequency		Intel SIPP/vPro <sup>®</sup> Enterprise	NPU
							P-cores	LPE-cores		
Intel® Core™ Ultra7 processor 268V	8 cores	4	N/A	4	8	12 MB	5.00 GHz	3.70 GHz	X	48 TOPS
Intel® Core™ Ultra7 processor 266V	8 cores	4	N/A	4	8	12 MB	5.00 GHz	3.70 GHz	X	48 TOPS
Intel® Core™ Ultra7 processor 258V	8 cores	4	N/A	4	8	12 MB	4.80 GHz	3.70 GHz		47 TOPS
Intel® Core™ Ultra7 processor 256V	8 cores	4	N/A	4	8	12 MB	4.80 GHz	3.70 GHz		47 TOPS
Intel® Core™ Ultra5 processor 238V	8 cores	4	N/A	4	8	8 MB	4.70 GHz	3.50 GHz	X	40 TOPS
Intel® Core™ Ultra5 processor 236V	8 cores	4	N/A	4	8	8 MB	4.70 GHz	3.50 GHz	X	40 TOPS
Intel® Core™ Ultra5 processor 228V	8 cores	4	N/A	4	8	8 MB	4.50 GHz	3.50 GHz		40 TOPS
Intel® Core™ Ultra5 processor 226V	8 cores	4	N/A	4	8	8 MB	4.50 GHz	3.50 GHz		40 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. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
  4. Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.
  5. 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>.
  6. Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third party software may have specific configuration or compatibility requirements. Performance varies by use, configuration, and other factors.
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### GRAPHICS

#### Integrated

Intel® ARC™ Graphics <sup>7</sup>

#### Supported Protocols

Support DX12, HDMI 2.1 (4K/60Hz only), HDCP 2.3

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

Up to 3

7. Intel® Arc™ graphics only available on select Intel® Core™ Ultra V-series processor-powered systems with at least 16GB of system memory in dual channel configuration.

### DISPLAY

Availability may vary by country

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

#### Touch

35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Touch, BrightView, WLED, 800 nits, sRGB 100%, HP Sure View 5<sup>8</sup>

35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Touch, Anti-Glare, WLED, 800 nits, sRGB 100%, HP Sure View 5<sup>8</sup>

35.6 cm (14") diagonal, 2.5K (2560 x 1600), LCD, UWVA, Touch, 120Hz (VRR), Anti-Glare, WLED + Low Blue Light, 400 nits, DCI-P3 100% + Adobe 100%

35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Touch, Anti-Glare, WLED, 400 nits, Low power, sRGB 100%

35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Touch, BrightView, WLED, 400 nits, Low power, sRGB 100%

#### Display Size (Diagonal)

35.6 cm (14.0")

#### Screen to Body Ratio

88.20%

#### Aspect Ratio

16:10

#### Max Hinge Open Angle

360°

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



### DOCKING (SOLD SEPARATELY)

<b>Docking station model name</b>	HP Thunderbolt Dock G4
<b>Total number of supported displays (incl.the notebook) display)</b>	4
<b>Max.resolutions supported</b>	Quad 4K @60Hz Dual 8K single cable@30 for Thunderbolt hosts or USB-C hosts DisplayPort 1.4 with Display Stream Compression in High-Resolution Mode
<b>Dock Connectors</b>	2x HDMI 2.0, 2x DisplayPort 1.4, 1x Thunderbolt 4, 1x USB-C 3.2 Gen 2 DisplayPort
<b>Technicallimitations</b>	Maximum resolution and display support is dependent on the maximum capability of the notebook.

#### Thunderbolt Hosts:

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

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

#### Non-Thunderbolt hosts:

The highest resolution for dual displays running a non-Thunderbolt host in multi-function mode is

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

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

<b>Docking station model name</b>	HP USB-C Dock G5
<b>Total number of supported displays (incl.the notebook) display)</b>	3
<b>Max.resolutions supported</b>	

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

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

1x HDMI 2.0, 2x DisplayPort 1.4

<b>Dock Connectors</b>	
<b>Technicallimitations</b>	

Maximum resolution and display support is dependent on the maximum capability of the notebook.

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

Three maximum displays supported are two 5K@ 30 Hz on DP ports plus one 4K UHD@ 30 Hz on HDMI in Multi-function mode

The highest resolution for a non-Thunderbolt host in Multi-function mode is a single 5K dual cable (using both DP ports) + (1) 4K on HDMI port.



### STORAGE AND DRIVES

#### Primary Storage

2 TB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell <sup>9</sup>

1 TB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell <sup>9</sup>

1 TB PCIe® NVMe™ SSD Value <sup>9</sup>

512 GB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell <sup>9</sup>

512 GB PCIe® Gen4x4 NVMe™ Self Encrypted OPAL2 SSD Three Layer Cell <sup>9</sup>

512 GB PCIe® NVMe™ SSD Value <sup>9</sup>

256 GB PCIe® NVMe™ SSD Value <sup>9</sup>

<sup>9</sup> For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB is reserved for system recovery software.



### MEMORY

#### Maximum Memory

32GB LPDDR5X- 8533 MT/s

#### Memory

32GB LPDDR5X- 8533 MT/s

16GB LPDDR5X- 8533 MT/s

#### Memory Slots

No memory slots. Memory on package.

System runs at 8533 MT/s

Supports Dual Channel Memory.

The memory is non-accessible / non-upgradeable.



### 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>

#### WWAN

HP R15 5G Solution <sup>11</sup>

HP R15 4G LTE-Advanced Pro <sup>12</sup>

#### LPWAN

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

#### NFC (optional)

NFC Mirage WNC XRAV-1

#### Miracast

Native Miracast Support <sup>14</sup>

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

11. 5G module is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported.

12. 4G LTE module is optional, must be configured at the factory, requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions."ustry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.

13. Cat M1 LPWAN (Mobile Narrowband) cards support select platforms with the HP Protect & Trace with Wolf Connect service, but do not support mobile broadband/Internet use.

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



### AUDIO/MULTIMEDIA

Select product only (Privacy panel SKU).

#### Audio

Audio by Poly Studio

4 Integrated stereo speakers

Discrete Amplifiers

2 Integrated dual array microphone

#### Speaker Power

1W / 8 ohm per speaker

#### Camera

5 MP camera, IR camera

#### Sensors

Accelerometer

Ambient Light Sensor

Color Sensor with Ambient Light Sensing

Fingerprint Sensor (optional)

Gyroscope

Hall Effect Sensor

Inertial Measurement Unit Sensor

Magnetometer

Thermal Sensor



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

#### Keyboard

HP Premium Keyboard, spill-resistant, Backlit, Durakey keyboard.

HP Premium Keyboard, spill-resistant, Privacy, Backlit, Durakey keyboard

#### Pointing Device

Clickpad

Microsoft Precision Touchpad Default Gestures Support

Multi-touch gesture support

#### Function Keys

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. See [aka.ms/copilotpluspcs](https://aka.ms/copilotpluspcs)

ESC - System information

F1 - Display Switching

F2 - Blank or Privacy

F3 - Brightness Down

F4 - Brightness Up

F5 - Keyboard Backlight

F6 - Audio Mute

F7 - Volume Down

F8 - Volume Up

F9 - Mic Mute

F10 - Play and Pause

F11 - Programmable key

F12 - HOME

End

Insert

Delete

Power Button (with LED)

Microsoft Copilot

#### Hidden Function Keys

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



### SOFTWARE AND SECURITY

#### Application Software

Buy Microsoft Office (Sold Separately)  
Edge Customization  
HP AI Companion  
HP Connection Optimizer  
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>15</sup>  
HP Smart Support <sup>16</sup>  
HP Support Assistant <sup>17</sup>  
HSA Fusion for Commercial  
HSA Telemetry for Commercial  
myHP <sup>18</sup>  
Poly Camera Pro  
Poly Lens <sup>19</sup>

#### Manageability Features

HP Client Catalog ([download](#)) <sup>20</sup>  
HP Client Management Script Library ([download](#)) <sup>21</sup>  
HP Cloud Recovery <sup>22</sup>  
HP Connect for Microsoft Endpoint Manager <sup>23</sup>  
HP Driver Packs ([download](#)) <sup>24</sup>  
HP Image Assistant ([download](#)) <sup>25</sup>  
HP Manageability Integration Kit ([download](#)) <sup>26</sup>  
HP Power Manager with Battery Health Manager ([download](#)) <sup>27</sup>

#### Security Management

Secured-Core PC Enable <sup>28</sup>  
Windows Hello Enhanced Sign-In Security (ESS)  
HP Wolf Security for Business which includes: <sup>29</sup>  
HP Sure Admin <sup>30</sup>  
HP Sure Click <sup>31</sup>  
HP Sure Recover <sup>32</sup>  
HP Sure Run <sup>33</sup>  
HP Sure Sense <sup>34</sup>  
HP Sure Start <sup>35</sup>  
HP Tamper Lock <sup>36</sup>

#### Security- TPM



Model: Nuvoton NPCT760HABYX  
TCG TPM 2.0  
Firmware Version: 7.2.4.0  
FIPS 140-2 Compliant: Yes

### BIOS

Absolute Persistence Module<sup>37</sup>  
Audio Permanent Disable  
BIOS Update via Network  
HP Bios Recovery  
HP BIOSphere.<sup>38</sup>  
HP DriveLock & Automatic DriveLock  
HP Fingerprint Sensor<sup>39</sup>  
HP Secure Erase<sup>40</sup>  
HP Wake on WLAN

### IPv6 Support

Yes

### FirstNet Certified

Yes

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

**UEFI version:** 2.7

**Class:** 3

15. HP Services Scan is preinstalled and/or provided thru Windows Update and checks for service entitlement on each hardware device and downloads the 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.

16. HP Smart Support requires the HP Insights agent to be installed. For more information about how to enable or to download HP Smart Support, please visit <http://www.hp.com/smart-support>. HP Services Scan is preinstalled and/or provided thru Windows Update and will check entitlement on each hardware device to determine if an HP Insights agent-enabled service has been purchased, and will download applicable software automatically. HP Insights agent is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access is required. For full system requirements or to disable this feature, please visit <https://www.hpdaas.com/requirements>

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



18. MyHP requires Windows 10 or higher OS.
19. Poly Lens Desktop requires a Windows OS.
20. HP Client Catalog not preinstalled, however available for download at <https://www.hp.com/us-en/solutions/client-management-solutions.html>
21. HP Client Management Script Library <https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools>
22. 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>.
23. 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.
24. HP Driver Packs not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.
25. HP Image Assistant not preinstalled, however available for download at <https://ftp.ext.hp.com/pub/caps-softpaq/cmit/HPIA.html>
26. HP Manageability Integration Kit not preinstalled, however available for download from <https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools>
27. 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)
28. 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.
29. 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.
30. 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.
31. HP Sure Click requires Windows 10 and higher. See [https://bit.ly/2PrLT6A\\_SureClick](https://bit.ly/2PrLT6A_SureClick) for complete details.
32. 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.
33. HP Sure Run is available on select HP PCs and requires Windows 10 and higher.
34. 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.
35. HP Sure Start is available on select HP PCs and requires Windows 10 and higher.
36. HP Tamper Lock must be enabled by the customer or your administrator.
37. Absolute Persistence firmware module is shipped turned off and can only be activated with the purchase a license subscription and full activation of the software agent. License subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. Certain conditions apply. For full details visit: <https://www.absolute.com/about/legal/agreements/absolute/>
38. HP BIOSphere.features may vary depending on the platform and configuration.
39. HP Fingerprint Reader is an optional feature that requires Windows 10 or 11 and must be configured at purchase.
40. 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™.



### POWER

Power supply availability may vary by country.

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

#### Power Supply

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

#### Battery

HP Long Life 6 cell, 68Whr Polymer

HP Long Life 3 cell, 56Whr Polymer

#### Battery Recharge Time

Supports battery HP Fast Charge: approximately 50% in 30 minutes <sup>41</sup>

#### Power Cord

3-wired plug- 1.0m

#### Battery life

Up to 24 hours 30 minutes with 68Whr battery (Intel Ultra 7 vPro, UMA graphic, brightness set to 250nits on a WUXGA 400nits LCD touch display, 16GB LPDDR5x memory, 256GB SSD) <sup>42</sup>

Up to 19 hours 30 minutes with 56Whr battery (Intel Ultra 7 vPro, UMA graphic, brightness set to 250nits on a WUXGA 400nits LCD touch display, 16GB LPDDR5x memory, 256GB SSD) <sup>42</sup>

41. 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.

42. 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 <http://www.bapco.com> for additional details.



### WEIGHT & DIMENSIONS

#### Product Weight

Starting at 1.40 kg (3.09 lb) with 56.00 Wh battery

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

#### Product Dimensions (w x d x h)<sup>43</sup>

313.9 mm (W) x 219.90 mm (D) x 10.50 mm (front)/ 14.70 mm (rear) (12.36 in (W) x 8.66 in (D) x 0.41 in (front)/ 0.58 in (rear))

Maximum height 17.45 mm (0.69 in)

#### 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](#).

43. Front height measurement is near the front edge where the mechanical chassis taper begins. Back height measurement is near the rear edge where the mechanical chassis taper ends.



### PORTS/SLOTS

#### Left side

- 2 x Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1) <sup>44</sup>
- 1 x HDMI 2.1
- 1 x Headphone/mic combo jack

#### 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 Security lock slot

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

### 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 (CPU Fan)<sup>1</sup> and 30% ocean bound plastic in the (Speaker)<sup>1</sup></li> <li>• At least 40% post-consumer recycled plastic<sup>2</sup></li> <li>• At least 65% 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>	<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>		
<b>Energy Consumption (in accordance with US ENERGY STAR® test method)</b>	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 50Hz</b>
Normal Operation (Sort idle)	6.09 W	5.96 W	6.19 W
Normal Operation (Long idle)	N/A	N/A	N/A
Sleep	0.79 W	0.86 W	0.80 W
Off	0.28 W	0.32 W	0.27 W
<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 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.</p>			
<b>Heat Dissipation*</b>	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 50Hz</b>
Normal Operation (Short idle)	21 BTU/hr	20 BTU/hr	21 BTU/hr
Normal Operation (Long idle)	N/A	N/A	N/A
Sleep	3 BTU/hr	3 BTU/hr	3 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr
<p><b>*NOTE:</b> Heat dissipation is calculated based on the measured watts, assuming the service</p>			



	level is attained for one hour.		
<b>Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)</b>	<b>Sound Power (<math>L_{WAd}</math>, bels)</b>	<b>Sound Pressure (<math>L_{pAm}</math>, decibels)</b>	
Typically Configured – Idle	2.6	13.3	
Fixed Disk – Random writes	2.9	17.6	
Optical Drive – Sequential reads	N/A	N/A	
<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 93.8% recycle-able when properly disposed of at end of life.</li> </ul>		
<b>Packaging Materials</b>	<b>External:</b>	PAPER/Corrugated	255 g
		PAPER/Molded Pulp	90 g
		PAPER/Paper	24 g
	The plastic packaging material contains at least 0.00% recycled content.		
	The corrugated paper packaging materials contains at least 54.5% 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>	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		



	<p><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> <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>	<p>HP follows these guidelines to decrease the environmental impact of product packaging:</p> <ul style="list-style-type: none"> <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>	<ol style="list-style-type: none"> <li>1. 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>2. 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>3. 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>4. External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.</li> <li>5. 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> </ol>

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### SERVICE AND SUPPORT

1-year warranty and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty. 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>45</sup>

45. 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)

<b>Nominal Operating Voltage</b>	20.0V
<b>Max Operating Power</b>	UMA 65W Discrete W

#### Temperature

Operating	Operating: 0° to 35° C (32° to 95° F) System performance may be reduced above 32°C (89.6°F)
Non-operating	Non-operating: -20° to 60° C ( -4° to 140° F) System performance may be reduced above 32°C (89.6°F)

#### Relative Humidity

Operating	Operating: 10% to 90 % (non-condensing)
Non-operating	Non-operating: 5% to 95 %, 38.7° C (101.6° F) maximum wet bulb temperature

#### Shock

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

#### Random Vibration

Operating	Operating: 1.043 grms
Non-operating	Non-operating: 12192.000 grms

#### Altitude (unpressurized)

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

#### Planned Industry Standard Certifications

Regulatory Model Number	HSN-I61C
CSA/UL 62368-1	Yes
ENERGY STAR®	Yes <sup>46</sup>
FCC/ICES/CISPR/VCCI	Yes
CE MARKING	Yes
GS Mark	No
China CCC/SRRC	Yes
Taiwan BSMI/NCC	Yes
Korea KCC/KC/KES	Yes
Ukraine NSoC/TEC	Yes
EAEU Compliance	Yes
Saudi Arabian Compliance	Yes
TCO	Yes
EPEAT®	EPEAT® Gold in the United States <sup>47</sup>
Low Blue Light	Yes
WW RoHS	Yes
CECP	Yes
Medical EMC: IEC 60601-1-2:2014 EN60601-1-2: 2015	Yes
MIL-STD Testing	MIL-STD 810H <sup>48</sup>



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

47. 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.

48. MIL STD 810H 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.

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### DISPLAYS

**35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Touch, BrightView, WLED, 800 nits, sRGB 100%, HP Sure View 5<sup>1</sup>**

<b>Outline Dimensions (W x H)</b>	369.690 x 209.930 (max)
<b>Active Area</b>	301.590 x 188.500 (typ)
<b>Weight</b>	346(max)
<b>Diagonal Size</b>	14
<b>Surface Treatment</b>	Bright View
<b>Touch Enabled</b>	Yes
<b>Contrast Ratio</b>	1500 : 1 (typ)
<b>Refresh Rate</b>	60 (typ)
<b>Brightness</b>	800 (typ)
<b>Pixel Resolution</b>	RGB
<b>Pixel Resolution - Format</b>	1920 x 1200 (WUXGA)
<b>Aspect Ratio</b>	16:10:00
<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 (W, EBL@ 150nits max/ 200nits max))</b>	1.48 (max)/1.8(max)

**35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Touch, Anti-Glare, WLED, 800 nits, sRGB 100%, HP Sure View 5<sup>1</sup>**

<b>Outline Dimensions (W x H)</b>	369.690 x 209.930 (max)
<b>Active Area</b>	301.590 x 188.500 (typ)
<b>Weight</b>	346(max)
<b>Diagonal Size</b>	14
<b>Surface Treatment</b>	Anti-Glare
<b>Touch Enabled</b>	Yes
<b>Contrast Ratio</b>	1500 : 1 (typ)
<b>Refresh Rate</b>	60 (typ)
<b>Brightness</b>	800 (typ)
<b>Pixel Resolution</b>	RGB
<b>Pixel Resolution - Format</b>	1920 x 1200 (WUXGA)
<b>Aspect Ratio</b>	16:10:00
<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 (W, EBL@ 150nits max/ 200nits max))</b>	1.48 (max)/1.8(max)

**35.6 cm (14") diagonal, 2.5K (2560 x 1600), LCD, UWVA, Touch, 120Hz (VRR), Anti-**

<b>Outline Dimensions (W x H)</b>	309.690 x 209.930 (max)
<b>Active Area</b>	301.594 x 188.496 (typ)
<b>Weight</b>	289.16 (max)



# QuickSpecs

## HP EliteBook X Flip G1i 14 inch Notebook Next Gen AI PC

<b>Glare, WLED + Low Blue Light, 400 nits, DCI-P3 100% + Adobe 100%</b>	<b>Diagonal Size</b>	14
	<b>Surface Treatment</b>	Anti-Glare
	<b>Touch Enabled</b>	Yes
	<b>Contrast Ratio</b>	2000:1 (typ)
	<b>Refresh Rate</b>	120 (typ)
	<b>Brightness</b>	400 (typ)
	<b>Pixel Resolution</b>	RGB
	<b>Pixel Resolution - Format</b>	2560 x 1600 (2.5K)
	<b>Aspect Ratio</b>	16:10:00
	<b>Backlight</b>	WLED
	<b>Color Gamut Coverage</b>	Adobe RGB 100% + DCI-P3 100%
	<b>Color Depth</b>	8
	<b>Viewing Angle</b>	UWVA 89/89/89/89
	<b>Low Blue Light</b>	Yes
	<b>Power Consumption (W, EBL@ 150nits max/ 200nits max))</b>	2.3 (max)/ 2.7 (max)
<b>35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Touch, Anti-Glare, WLED, 400 nits, Low power, sRGB 100%</b>	<b>Outline Dimensions (W x H)</b>	309.690 x 209.930 (max)
	<b>Active Area</b>	301.590 x 188.500 (typ)
	<b>Weight</b>	293 (max)
	<b>Diagonal Size</b>	14
	<b>Surface Treatment</b>	Anti-Glare
	<b>Touch Enabled</b>	Yes
	<b>Contrast Ratio</b>	1000:1(typ)
	<b>Refresh Rate</b>	60 (typ)
	<b>Brightness</b>	400 (typ)
	<b>Pixel Resolution</b>	RGB
	<b>Pixel Resolution - Format</b>	1920 x 1200 (WUXGA)
	<b>Aspect Ratio</b>	16:10:00
	<b>Backlight</b>	WLED
	<b>Color Gamut Coverage</b>	sRGB 100%
	<b>Color Depth</b>	8
<b>Viewing Angle</b>	UWVA 89/89/89/89	
<b>Low Blue Light</b>	Yes	
<b>Power Consumption (W, EBL@ 150nits max/ 200nits max))</b>	1.29 (max) / 1.66 (max)	
<b>35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Touch, BrightView, WLED, 400 nits, Low power, sRGB 100%</b>	<b>Outline Dimensions (W x H)</b>	309.690 x 210.130 (max)
	<b>Active Area</b>	301.590 x 188.500 (typ)
	<b>Weight</b>	289 (max)
	<b>Diagonal Size</b>	14
	<b>Surface Treatment</b>	Bright View
	<b>Touch Enabled</b>	Yes
<b>Contrast Ratio</b>	1000:1(typ)	



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<b>Refresh Rate</b>	60 (typ)
<b>Brightness</b>	400 (typ)
<b>Pixel Resolution</b>	RGB
<b>Pixel Resolution - Format</b>	1920 x 1200 (WUXGA)
<b>Aspect Ratio</b>	16:10:00
<b>Backlight</b>	WLED
<b>Color Gamut Coverage</b>	sRGB 100%
<b>Color Depth</b>	8
<b>Viewing Angle</b>	UWVA 89/89/89/89
<b>Low Blue Light</b>	Yes
<b>Power Consumption (W, EBL@ 150nits max/ 200nits max))</b>	1.29 (max) / 1.66 (max)

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

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### STORAGE

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

<b>2 TB PCIe® Gen4x4 NVMe™ 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>Interface</b>	PCIe NVMe Gen4X4
	<b>Maximum Sequential Read</b>	6400 MB/s ±20%
	<b>Maximum Sequential Write</b>	5000 MB/s ±20%
	<b>Logical Blocks</b>	4,000,797,360
	<b>Features</b>	Pyrite 2.0; TRIM; L1.2

<b>1 TB PCIe® Gen4x4 NVMe™ 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>Interface</b>	PCIe NVMe Gen4X4
	<b>Maximum Sequential Read</b>	6400 MB/s ±20%
	<b>Maximum Sequential Write</b>	5000 MB/s ±20%
	<b>Logical Blocks</b>	2,000,409,264
	<b>Features</b>	Pyrite 2.0; TRIM; L1.2

<b>1 TB PCIe® NVMe™ SSD Value <sup>1</sup></b>	<b>Form Factor</b>	M.2 2280
	<b>Capacity</b>	1TB
	<b>NAND Type</b>	TLC
	<b>Interface</b>	PCIe NVMe Gen4X4
	<b>Maximum Sequential Read</b>	2200 MB/s ±20%
	<b>Maximum Sequential Write</b>	1600 MB/s ±20%
	<b>Logical Blocks</b>	2,000,409,264
	<b>Features</b>	Pyrite 2.0; TRIM; L1.2

<b>512 GB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell <sup>1</sup></b>	<b>Form Factor</b>	M.2 2280
	<b>Capacity</b>	512GB
	<b>NAND Type</b>	TLC
	<b>Interface</b>	PCIe NVMe Gen4X4
	<b>Maximum Sequential Read</b>	6400 MB/s ±20%
	<b>Maximum Sequential Write</b>	3500 MB/s ±20%
	<b>Logical Blocks</b>	1,000,215,215
	<b>Features</b>	Pyrite 2.0; TRIM; L1.2

<b>512 GB PCIe® Gen4x4 NVMe™ Self Encrypted OPAL2 SSD Three Layer Cell <sup>1</sup></b>	<b>Form Factor</b>	M.2 2280
	<b>Capacity</b>	512GB
	<b>NAND Type</b>	TLC
	<b>Interface</b>	PCIe NVMe Gen4X4
	<b>Maximum Sequential Read</b>	6400 MB/s ±20%



<b>Maximum 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

### 512 GB PCIe® NVMe™ SSD Value 1

<b>Form Factor</b>	M.2 2280
<b>Capacity</b>	512 GB
<b>NAND Type</b>	TLC
<b>Interface</b>	PCIe NVMe Gen4X4
<b>Maximum Sequential Read</b>	2200 MB/s ±20%
<b>Maximum Sequential Write</b>	1000 MB/s ±20%
<b>Logical Blocks</b>	1,000,215,215
<b>Features</b>	Pyrite 2.0; TRIM; L1.2

### 256 GB PCIe® NVMe™ SSD Value 1

<b>Form Factor</b>	M.2 2280
<b>Capacity</b>	256 GB
<b>NAND Type</b>	TLC
<b>Interface</b>	PCIe NVMe Gen4X4
<b>Maximum Sequential Read</b>	2000 MB/s ±20%
<b>Maximum Sequential Write</b>	900 MB/s ±20%
<b>Logical Blocks</b>	500,118,192
<b>Features</b>	Pyrite 2.0; TRIM; L1.2



### NETWORKING / COMMUNICATION

Intel® BE201 Wi-Fi 7

Wireless LAN Standards

IEEE 802.11a

Bluetooth® 5.4 vPro WW WLAN

IEEE 802.11ac

1

IEEE 802.11ax

IEEE 802.11b

IEEE 802.11be

IEEE 802.11d

IEEE 802.11e

IEEE 802.11g

IEEE 802.11h

IEEE 802.11i

IEEE 802.11k

IEEE 802.11n

IEEE 802.11r

IEEE 802.11v

Interoperability

Wi-Fi certified

Frequency Band

- 802.11b/g/n/ax

2.402 – 2.482 GHz

- 802.11a/n/ac/ax

4.9 – 4.95 GHz (Japan)

5.15 – 5.25 GHz

5.25 – 5.35 GHz

5.47 – 5.725 GHz

5.825 – 5.850 GHz

5.955 – 6.415 GHz

6.435 – 6.515 GHz

6.535 – 6.875 GHz

6.895 – 7.115 GHz

Data Rates

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

- 802.11ac : MCS0 ~ MCS9, (20MHz, 40MHz, 80MHz, 160MHz)

- 802.11ax : MCS0 ~ MCS11, (20MHz, 40MHz, 80MHz, 160MHz)

- 802.11b: 1, 2, 5.5, 11 Mbps

- 802.11be : MCS0~13, (20MHz, 40MHz, ,80MHz, 160MHz, 320MHz)

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

- 802.11n: MCS 0 ~ MCS 15, (20MHz, 40MHz)

Modulation

Direct Sequence Spread Spectrum

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

Direct Sequence Spread Spectrum, OFDM, QPSK

Security

- 802.1x authentication

- AES-CCMP: 128 bit in hardware

- IEEE 802.11i

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

- WAPI



<b>Network Architecture Models</b>	<ul style="list-style-type: none"> <li>• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.</li> <li>• WPA2 certification</li> <li>• WPA3 (personal) certification</li> </ul>
<b>Roaming</b>	Ad-hoc (Peer to Peer)
<b>Output Power</b>	Infrastructure (Access Point Required) IEEE 802.11 compliant roaming between access points <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>	Transmit mode : 3.4 W Receive mode : 1.8 W Idle mode (PSP) : 180 mW (WLAN Associated) Idle mode: 50 mW (WLAN unassociated) Connected Standby/Modern Standby : 10 mW Radio disabled : 8 mW
<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> <li>• 802.11ac, MCS9(VHT160) : -58.5dBm maximum</li> <li>• 802.11ax, MCS11(HE20)(6GHz) : -59.5dBm maximum</li> </ul>



	<ul style="list-style-type: none"> <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>	High efficiency antenna with spatial diversity Two embedded tri-band 2.4/5/6 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications
<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>	1. Type 2230: 3.1 g 2. Type 1216: 0.8 g
<b>Operating Voltage</b>	3.3 v +/- 5 %
<b>HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Wireless Technology</b>	
<b>Bluetooth Specification</b>	4.0 4.1 4.2 5.0 5.1 5.2 5.3 5.4
<b>Frequency Band</b>	2042 to 2480 MHz
<b>Number of Available Channels</b>	Legacy : 0~79 (1 MHz/CH) BLE : 0~39 (2 MHz/CH)
<b>Data Rates and Throughput</b>	Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps BLE : 1 Mbps data rate; throughput up to 0.2 Mbps Legacy : Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy : Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)
<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 Peak (Rx): 230 mW Selective Suspend: 17 mW
<b>Bluetooth Software Supported</b>	Microsoft Windows Bluetooth Software
<b>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



### Bluetooth Profiles Supported

2Mbps LE  
 Advanced Audio Distribution Profile (A2DP)  
 Basic Imaging Profile (BIP)  
 Channel Selection Algo  
 Encryption key size control enhancements  
 ESR9/10 Compliance  
 FAX Profile (FAX)  
 Hands Free Profile (HFP)  
 Headset Profile (HSP)  
 LE Advertisement Extensions  
 LE Data Packet Length Extension  
 LE Dual Mode  
 LE L2CAP Connection Oriented Channels  
 LE Link Layer  
 LE Link Layer Ping  
 LE Long Range  
 LE Low Duty Cycle Directed Advertising  
 LE Privacy 1.2 –Extended Scanner Filter Policies  
 LE Privacy 1.2 –Link Layer Privacy  
 LE Secure Connection- Basic/Full  
 Limited High Duty Cycle Non-Connectable Advertising  
 Train Nudging & Interlaced Scan

**Intel® BE201 Wi-Fi 7**  
**Bluetooth® 5.4 non-vPro WW**  
**WLAN<sup>1</sup>**

### Wireless LAN Standards

IEEE 802.11a  
 IEEE 802.11ac  
 IEEE 802.11ax  
 IEEE 802.11b  
 IEEE 802.11be  
 IEEE 802.11d  
 IEEE 802.11e  
 IEEE 802.11g  
 IEEE 802.11h  
 IEEE 802.11i  
 IEEE 802.11k  
 IEEE 802.11n  
 IEEE 802.11r  
 IEEE 802.11v  
 Wi-Fi certified

- 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

### Interoperability Frequency Band



	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 1024QAM, 16-QAM, 256-QAM, 4096QAM, 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 Models</b>	Ad-hoc (Peer to Peer) 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> </ul>



<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>• 802.11be MCS13(EHT160)(6GHz) : 6.5dBm</li> <li>• 802.11be MCS13(EHT320)(6GHz) : 4.5dBm</li> </ul> Transmit mode : 3.4 W Receive mode : 1.8 W Idle mode (PSP) : 180 mW (WLAN Associated) Idle mode: 50 mW (WLAN unassociated) Connected Standby/Modern Standby : 10 mW Radio disabled : 8 mW
<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> <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>	High efficiency antenna with spatial diversity Two embedded tri-band 2.4/5/6 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications
<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>	1. Type 2230: 3.1 g 2. Type 1216: 0.8 g
<b>Operating Voltage</b>	3.3 v +/- 5 %

### HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Wireless Technology

<b>Bluetooth Specification</b>	4.0 4.1 4.2 5.0 5.1 5.2 5.3 5.4
<b>Frequency Band</b>	2042 to 2480 MHz
<b>Number of Available Channels</b>	Legacy : 0~79 (1 MHz/CH) BLE : 0~39 (2 MHz/CH)
<b>Data Rates and Throughput</b>	Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps BLE : 1 Mbps data rate; throughput up to 0.2 Mbps Legacy : Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy : Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)
<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 Peak (Rx): 230 mW Selective Suspend: 17 mW
<b>Bluetooth Software Supported</b>	Microsoft Windows Bluetooth Software
<b>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 Advanced Audio Distribution Profile (A2DP) Basic Imaging Profile (BIP) Channel Selection Algo Encryption key size control enhancements ESR9/10 Compliance FAX Profile (FAX) Hands Free Profile (HFP) Headset Profile (HSP) LE Advertisement Extensions LE Data Packet Length Extension LE Dual Mode LE L2CAP Connection Oriented Channels LE Link Layer LE Link Layer Ping LE Long Range LE Low Duty Cycle Directed Advertising



LE Privacy 1.2 –Extended Scanner Filter Policies  
LE Privacy 1.2 –Link Layer Privacy  
LE Secure Connection- Basic/Full  
Limited High Duty Cycle Non-Connectable Advertising  
Train Nudging & Interlaced Scan

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

2. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

### HP R15 5G Solution<sup>3</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 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 2: 1850 to 1910 MHz (UL), 1930 to 1990 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 3: 1710 to 1785 MHz (UL), 1805 to 1880 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 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (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)



	<p>Band 46: 5150 to 5925 MHz (DL)            Band 48: 3550 to 3700 MHz (UL/DL)            Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL)            Band 66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL)            Band 7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL)            Band 71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)            Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)</p>
<b>Wireless protocol standards</b>	<p>5G NR Air Interface            3GPP Rel15 5G NR sub-6            LTE Rel15            3GPP Release 8 UMTS Specification</p>
<b>GPS</b>	<p>Standalone/A-GPS (MS-A, MS-B)</p>
<b>GPS bands</b>	<p>GPS L1 (1575.42MHz), GLONASS L1 (1602MHz), Beidou B1 (1561.098MHz), Galileo E1 (1575.42MHz), QZSS (1575.42MHz)</p>
<b>Maximum data rates</b>	<p>SA 5G/NR sub-6 Peak: 4.67 Gbps(Download), 1.25 Gbps(Upload)</p>
<b>Maximum output power</b>	<p>HSPA+: 23.5 dBm ()            LTE (all bands except B41): 23.0 dBm (Not support HPUE)            NR (all band except n41, n77, n78, n79): 23.0 dBm (Not support HPUE)            NR n41, n77, n78, n79 HPUE: 26.0 dBm (Support HPUE)</p>
<b>Maximum power consumption</b>	<p>5G Sub 6: 3,500 mA            LTE: 2,500 mA (peak)</p>
<b>Form Factor</b>	<p>M.2; 3052-S3 Key B</p>
<b>Weight</b>	<p>8.6 g (0.303 oz)</p>
<b>Dimensions (Length x Width x Thickness)</b>	<p>30.00 x 52.00 x 2.30 mm (1.18 x 2.05 x 0.09 inch)</p>
<b>embedded eSIM</b>	<p>Yes</p>
<b>HP R15 4G LTE-Advanced Pro <sup>4</sup></b>	<p><b>Technology/Operating bands</b></p> <p>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)</p> <p>LTE FDD/TDD operating bands:            Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 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 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)</p>



	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 3: 1710 to 1785 MHz (UL), 1805 to 1880 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 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (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 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL)
	Band 66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL)
	Band 7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL)
	Band 71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)
	Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)
<b>Wireless protocol standards</b>	LTE Rel15 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 - LTE</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

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



4. 4G LTE module is optional, must be configured at the factory, requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.

<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 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) 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> <b>(Booster enable, VBAT= 3.3V, VCC_BOOST = 5V)</b>
	<b>Mode</b>	Power Consumption, Typical
	<b>Polling</b>	7.3 mA
	<b>Detected Test Tag Type 1</b>	Total 283.8 mA Net Module 236.8 mA



<b>Detected Test Tag Type 2</b>	Total 288.8 mA Net Module 241.8 mA
<b>Detected Test Tag Type 3</b>	Total 287.7 mA Net Module 240.7 mA
<b>Detected Test Tag Type 4</b>	Total 282.3 mA Net Module 235.3 mA
<b>Antenna</b>	Antenna connector, 0.5mm pitch, 7 connector FPC. Antenna matching is external to module.

**Qualcomm 9205 LTE-M (CAT-M1 fSVC) <sup>5</sup>**

<b>Technology/Operating bands-FDD LTE</b>	Band 1: 2100 Band 2: 1900 Band 3: 1800 Band 4: 1700/2100 Band 5: 850 Band 8: 900 Band 12 lower: 700 Band 13 upper: 700 Band 14 upper: 700 Band 18 lower: 850 Band 19 upper: 850 Band 20: 800 Band 25: 1900 Band 26: 850 Band 27: 800 Band 28: 700 Band 66: 1700/2100 Band 85: 700
<b>Technology/Operating bands-GSM/GPRS/EGPRS:</b>	850 900 1800 1900
<b>Wireless protocol standards</b>	3GPP TS 21.111 V10.0.0: USIM and IC card requirements 3GPP TS 27.005 V10.0.1: Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS) 3GPP TS 27.007 V10.0.8: AT command set for User Equipment (UE) 3GPP TS 31.102 V10.11.0: Characteristics of the Universal Subscriber Identity Module (USIM) application 3GPP TS 31.11 V10.16.0: Universal Subscriber Identity Module (USIM) Application Toolkit (USAT) 3GPP TS 36.124 V10.3.0: Electro Magnetic Compatibility (EMC) requirements for mobile terminals and ancillary equipment 3GPP TS 36.521-1 V14.3.0: User Equipment (UE) conformance specification; Radio transmission and reception; Part 1:



	Conformance testing 3GPP TS 51.010-1 10.5.0: Mobile Station (MS) conformance specification; 1551.mas. fictification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface
<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>	LTD FDD: 375 Kbps (download); 1119.00 Kbps (upload) GPRS: 107.00 Kbps (download); 85.60 Kbps (upload) EGPRS: 296.00 Kbps (download); 236.80 Kbps (upload)
<b>Maximum output power</b>	LTE (all bands except B41): 21.5 dBm GSM: 34.0 dBm
<b>Maximum power consumption</b>	LTE: 151 mA (peak) ; 16 mA (average)
<b>Form Factor</b>	M.2
<b>Dimensions (L x W x Thickness)</b>	22.00 x 42.00 x 2.30mm ( 0.87 x 1.65 x 0.09 inch )
<b>Weight</b>	4.0g (0.141 oz)
<b>Embedded eSIM</b>	Yes

5. Cat M1 LPWAN (Mobile Narrowband) cards support select platforms with the HP Protect & Trace with Wolf Connect service, but do not support mobile broadband/Internet use.

<b>POWER</b>																																											
<b>HP 100W Slim USB Type-C® AC power adapter</b>	<table border="0"> <tr> <td><b>Weight</b></td> <td>380g ± 10g</td> </tr> <tr> <td><b>Input</b></td> <td>100-240Vac</td> </tr> <tr> <td><b>Input Efficiency</b></td> <td>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</td> </tr> <tr> <td><b>Input frequency range</b></td> <td>47-63Hz</td> </tr> <tr> <td><b>Input AC current</b></td> <td>Max. 1.6 A at 90 Vac</td> </tr> <tr> <td><b>Output</b></td> <td></td> </tr> <tr> <td>Output power</td> <td>5V/15W 9V/27W 12V/60W 15V/75W 20V/100W</td> </tr> <tr> <td>DC output</td> <td>5V/9V/12V/15V/20V</td> </tr> <tr> <td>Hold-up time</td> <td>100% load 5ms at 115 Vac input/80% load 10ms at 115 Vac input</td> </tr> <tr> <td>Output Over Current Protection</td> <td>5V/9V/12V/15V&lt;125% max current, 20V&lt;135% max current</td> </tr> <tr> <td>AC Inlet Type</td> <td>C6</td> </tr> <tr> <td>DC Cable Connector</td> <td>USB type C</td> </tr> <tr> <td>DC Cable Material</td> <td>PVC</td> </tr> <tr> <td><b>Connector</b></td> <td>C6</td> </tr> <tr> <td><b>Environmental Design</b></td> <td></td> </tr> <tr> <td>Operating temperature</td> <td>0° to 35° C (32° to 95° F)</td> </tr> <tr> <td>Non-operating (storage) temperature</td> <td>-20° to 85° C (-4° to 185° F)</td> </tr> <tr> <td>Altitude</td> <td>0 to 5,000 m (0 to 16,400 ft)</td> </tr> <tr> <td>Humidity</td> <td>20% to 95%</td> </tr> <tr> <td>Storage Humidity</td> <td>10% to 95%</td> </tr> <tr> <td>EMI and Safety Certifications</td> <td>CE Mark - full compliance with LVD and EMC directives Worldwide safety standards - IEC60950-1, IEC 62368-1:2014 and IEC62368-1 : 2018, EN62368-1:2020+A11, UL 62368-1 Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC, CU(EAC), KCC(Safety+EMC), NOM-001 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC, Ukraine(CoC+DoC+RoHS+ECO)</td> </tr> </table>	<b>Weight</b>	380g ± 10g	<b>Input</b>	100-240Vac	<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/75W 20V/100W	DC output	5V/9V/12V/15V/20V	Hold-up time	100% load 5ms at 115 Vac input/80% load 10ms at 115 Vac input	Output Over Current Protection	5V/9V/12V/15V<125% max current, 20V<135% max current	AC Inlet Type	C6	DC Cable Connector	USB type C	DC Cable Material	PVC	<b>Connector</b>	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%	EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives Worldwide safety standards - IEC60950-1, IEC 62368-1:2014 and IEC62368-1 : 2018, EN62368-1:2020+A11, UL 62368-1 Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC, CU(EAC), KCC(Safety+EMC), NOM-001 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC, Ukraine(CoC+DoC+RoHS+ECO)
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<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	PVC
<b>Connector</b>	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)
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<b>HP 65W USB Type-C® Gallium Nitride AC power adapter</b>	
<b>Weight</b>	105g(+/-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 86.70% min at 115 Vac/ 230 Vac @9.00V 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



	15V/65W
	20V/65W
DC output	5V/9V/15V/20V
Hold-up time	100% load 5ms at 115 Vac input
Output Over Current Protection	115%-125%
AC Inlet Type	C6
DC Cable Connector	USB type C
DC Cable Material	PVC
<b>Connector</b>	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%
EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL 62368-1 Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC
<b>HP 65W Slim USB Type-C® AC power adapter</b>	
<b>Weight</b>	220g ± 10g
<b>Input</b>	100-240Vac
<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	PVC
<b>Connector</b>	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%
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EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL 62368-1 Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC
<b>HP 65W Standard USB Type-C® Halogen Free AC power adapter</b>	
<b>Weight</b>	240g ± 10g
<b>Input</b>	100-240Vac
<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>	C6
<b>Environmental Design</b>	
Operating temperature	0° to 35° C (32° to 95° F)
Non-operating (storage)	-20° to 85° C (-4° to 185° F)

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Altitude	0 to 5,000 m (0 to 16,400 ft)
Humidity	20% to 95%
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EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL 62368-1 Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC

### HP Long Life 6 cell, 68Whr Polymer

Dimensions	255.8 x 67.8 x 6.68mm (10.07 x 2.67 x 0.26 inch)
Weight	0.205kg +/- 10g(0.474 lb)
Cells/Type	3cell Lithium-Ion Polymer cell / 586075
<b>Energy</b>	
Voltage	11.58V
Amp-hour capacity	4.84Ah
Watt-hour capacity	56.04Wh
<b>Temperature</b>	
Operating (Charging)	32° to 113° F (0° to 45° C)
Operating (Discharging)	14° to 140° F (-10° to 60° C)
Optional Travel Battery Available	No

### HP Long Life 3 cell, 56Whr Polymer

Dimensions	275.3 x 87.5 x 6.79mm (10.83 x 3.44 x 0.26 inch)
Weight	0.255kg +/- 10g(0.562 lb)
Cells/Type	6cell Lithium-Ion Polymer cell /594461
<b>Energy</b>	
Voltage	11.58V
Amp-hour capacity	5.88Ah
Watt-hour capacity	68Wh
<b>Temperature</b>	
Operating (Charging)	0° to 45° C (32° to 113° F)
Operating (Discharging)	-10° to 60° C (14° to 140° F)
Optional Travel Battery Available	No



### AUDIO

Table Values

Codec	Realtek ALC3315
Audio I/O Ports	3.5mm Headset: CTIA only;Headphone-out
Internal Speaker Amplifier	Cirrus Logic High-Efficiency Boosted Class D Amplifier
Multi-streaming Capable	Playback multi-streaming can be enabled in the audio control panel to allow independent audio streams to be sent to/from the front jacks or integrated speaker., Following MSFT Behavior
Sampling	DAC: Supports resolutions from 16-bit to 24-bit;48.0 kHz to 48.0 kHz ADC: Supports resolutions from 16-bit to 24-bit;44.1 kHz to 48.0 kHz
Internal Speaker	Yes

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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 V
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

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### 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 60/60+ Black Earbuds (2 Pieces)	8L5A6AA
	Poly Voyager Free 60/60+ Microsoft Teams Certified Black Earbuds (2 Pieces)	8L5A8AA
	Poly Voyager Free 60/60+ Microsoft Teams Certified White Earbuds (2 Pieces)	8L5B0AA
	Poly Voyager Free 60/60+ White Earbuds (2 Pieces)	8L5B1AA
	Poly Voyager Free 60 Carbon Black Earbuds	7Y8H3AA
	Poly Voyager Free 60 Carbon Black Earbuds	7Y8H4AA
	Poly Voyager Free 60 Carbon Black Earbuds	7Y8L7AA
	Poly Voyager Free 60 Carbon Black Earbuds	7Y8L8AA
	Poly Voyager Free 60 Carbon Black Earbuds +Basic Charge Case	7Y8M2AA
	Poly Voyager Free 60 UC Black Earbuds +BT700 USB-C Adapter +Basic Charge Case	7Y8M0AA
	Poly Voyager Free 60 White Sand Earbuds	7Y8L3AA
	Poly Voyager Free 60 White Sand Earbuds	7Y8L4AA
	Poly Voyager Free 60 White Sand Earbuds	7Y8L5AA
	Poly Voyager Free 60 White Sand Earbuds	7Y8L6AA
	Poly Voyager Free 60/60+ Black Earbuds (2 Pieces)	8L649AA,8L5A6AA
	Poly Voyager Free 60+ Carbon Black Earbuds	7Y8G3AA
	Poly Voyager Free 60+ Carbon Black Earbuds	7Y8G4AA
	Poly Voyager Free 60+ Carbon Black Earbuds	7Y8G9AA
	Poly Voyager Free 60+ Carbon Black Earbuds	7Y8H0AA
	Poly Voyager Free 60+ White Sand Earbuds	7Y8G5AA
	Poly Voyager Free 60+ White Sand Earbuds	7Y8G6AA
	Poly Voyager Free 60+ White Sand Earbuds	7Y8G7AA
	Poly Voyager Free 60+ White Sand Earbuds	7Y8G8AA
Audio - Headset	Poly Blackwire 3210 Monaural USB-C Headset +USB-C/A Adapter	8X214AA
	Poly Blackwire 3215 Monaural USB-C Headset	8X227AA
	Poly Blackwire 3220 Stereo USB-C Headset	8X228AA
	Poly Blackwire 3225 Stereo USB-C Headset	8X229AA
	Poly Blackwire 3310 Monaural USB-C Headset	8X215AA
	Poly Blackwire 3310 Monaural USB-C Headset	8X216AA
	Poly Blackwire 3315 Monaural USB-C Headset	8X217AA



Poly Blackwire 3315 Monaural USB-C Headset	8X218AA
Poly Blackwire 3320 Stereo USB-C Headset	8X219AA
Poly Blackwire 3320 Stereo USB-C Headset	8X220AA
Poly Blackwire 3325 Stereo Microsoft Teams Certified USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X222AA
Poly Blackwire 3325 Stereo USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X221AA
Poly Blackwire 5210 Monaural USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X230AA
Poly Blackwire 5220 Stereo USB-C Headset	8X231AA
Poly Blackwire 8225 Stereo USB-C Headset	8X223AA
Poly Blackwire 8225 Stereo USB-C Headset	8X225AA
Poly EncorePro 310 Monaural USB-A Headset	767G1AA
Poly EncorePro 320 Binaural Headset	77T26AA
Poly EncorePro 320 Stereo USB-A Headset	767G0AA
Poly EncorePro 320 Stereo USB-C Headset	767F9AA
Poly EncorePro 510 Monaural Headset	783Q2AA
Poly EncorePro 510 Monoaural Headset	783Q1AA
Poly EncorePro 520 Binaural Headset	783P6AA
Poly EncorePro 520 Binaural Headset	783P7AA
Poly EncorePro 530 Discreet Headset	783P2AA
Poly EncorePro 530 Headset	783P3AA
Poly EncorePro 540 Convertible Headset	783P1AA
Poly EncorePro 710 Monoaural Headset	783N9AA
Poly EncorePro 715 USB-A Monoaural Headset	783N5AA
Poly EncorePro 725 USB-A Stereo Headset	783M6AA
Poly EncorePro 720 Binaural Headset	8R707AA
Poly EncorePro HW710 Single Ear Headset +Carry Case +Quick Disconnect	8R708AA
Poly EncorePro Monoaural 310 Headset	77T43AA
Poly EncorePro Monoaural 515 with USB-A Headset	783R0AA
Poly EncorePro Monoaural 515 with USB-A Headset	783R1AA
Poly EncorePro Stereo 525 with USB-A Headset	783R2AA
Poly EncorePro USB-A Stereo 525 Headset	783R3AA
Poly EncorePro USB-C Monoaural 310 Headset	760Q8AA
Poly Savi 7210 Office DECT 1880-1900 MHz Single Ear Headset (EMEA + APJ)	8D3G9AA
Poly Savi 7210 Office DECT 1920-1930 MHz Single Ear Headset (NA)	7W6D4AA
Poly Savi 7220 Office Binaural DECT 1880-1900 MHz Headset (EMEA + APJ)	8D3G8AA
Poly Savi 7220 Office Binaural DECT 1920-1930 MHz Headset (NA)	7W6D5AA
Poly Savi 7310 DECT 1880-1900 MHz Single Ear Headset	8D3G3AA
Poly Savi 7310 DECT 1910-1920 MHz Single Ear Headset	8D3G5AA



Poly Savi 7310 Headset	77T40AA
Poly Savi 7310 Monaural DECT 1880-1900 MHz Headset	8L561AA
Poly Savi 7310 Monaural DECT 1880-1900 MHz Headset	8L575AA
Poly Savi 7310 Monaural DECT 1893-1906 MHz Headset	8L565AA
Poly Savi 7310 Monaural DECT 1893-1906 MHz Headset	8L578AA
Poly Savi 7310 Monaural DECT 1910-1920 MHz Headset	8L566AA
Poly Savi 7310 Monaural DECT 1910-1920 MHz Headset	8L581AA
Poly Savi 7310 Monaural DECT 1920-1930 MHz Headset	7S430AA
Poly Savi 7310 Monaural DECT 1920-1930 MHz Headset	8L570AA
Poly Savi 7310 Monaural DECT 1920-1930 MHz Headset	8L585AA
Poly Savi 7310-M DECT 1880-1900 MHz Single Ear Headset	8D3K7AA
Poly Savi 7310-M DECT 1893-1906 MHz Single Ear Headset	8D3K9AA
Poly Savi 7310-M DECT 1910-1920 MHz Single Ear Headset	8D3L0AA
Poly Savi 7310-M DECT 1920-1930 MHz Single Ear Headset	7S439AA
Poly Savi 7320 Stereo DECT 1880-1900 MHz Headset	8D3F7AA
Poly Savi 7320 Stereo DECT 1880-1900 MHz Headset	8L545AA
Poly Savi 7320 Stereo DECT 1880-1900 MHz Headset	8L553AA
Poly Savi 7320 Stereo DECT 1893-1906 MHz Headset	8D3F8AA
Poly Savi 7320 Stereo DECT 1893-1906 MHz Headset	8L546AA
Poly Savi 7320 Stereo DECT 1893-1906 MHz Headset	8L555AA
Poly Savi 7320 Stereo DECT 1910-1920 MHz Headset	8D3G0AA
Poly Savi 7320 Stereo DECT 1910-1920 MHz Headset	8L548AA
Poly Savi 7320 Stereo DECT 1910-1920 MHz Headset	8L557AA
Poly Savi 7320 Stereo DECT 1920-1930 MHz Headset	7S429AA
Poly Savi 7320 Stereo DECT 1920-1930 MHz Headset	8L549AA
Poly Savi 7320 Stereo DECT 1920-1930 MHz Headset	8L559AA
Poly Savi 7320-M Stereo DECT 1880-1900 MHz Headset	8D3J6AA
Poly Savi 7320-M Stereo DECT 1893-1906 MHz Headset	8D3K2AA
Poly Savi 7320-M Stereo DECT 1910-1920 MHz Headset	8D3K0AA
Poly Savi 7320-M Stereo DECT 1920-1930 MHz Headset	7S435AA
Poly Savi 7410 Monaural DECT 1880-1900 MHz Headset	8L589AA
Poly Savi 7410 Monaural DECT 1880-1900 MHz Headset	8L593AA
Poly Savi 7410 Monaural DECT 1893-1906 MHz Headset	8L591AA
Poly Savi 7410 Monaural DECT 1893-1906 MHz Headset	8L594AA
Poly Savi 7410 Monaural DECT 1910-1920 MHz Headset	8L592AA
Poly Savi 7410 Monaural DECT 1910-1920 MHz Headset	8L597AA
Poly Savi 7410 Monaural DECT 1920-1930 MHz Headset	8L7D5AA
Poly Savi 7410 Monaural DECT 1920-1930 MHz Headset	8L7D7AA
Poly Savi 7420 Stereo DECT 1880-1900 MHz Headset	8L560AA
Poly Savi 7420 Stereo DECT 1880-1900 MHz Headset	8L574AA
Poly Savi 7420 Stereo DECT 1893-1906 MHz Headset	8L563AA
Poly Savi 7420 Stereo DECT 1893-1906 MHz Headset	8L576AA
Poly Savi 7420 Stereo DECT 1910-1920 MHz Headset	8L564AA
Poly Savi 7420 Stereo DECT 1910-1920 MHz Headset	8L579AA



Poly Savi 7420 Stereo DECT 1920-1930 MHz Headset	8L567AA
Poly Savi 7420 Stereo DECT 1920-1930 MHz Headset	8L583AA
Poly Savi 8210 Office DECT 1880-1890 MHz Single Ear Headset (EMEA + APJ)	8D3K3AA
Poly Savi 8210 Office DECT 1880-1900 MHz Single Ear Headset (EMEA + APJ)	8D3K5AA
Poly Savi 8210 Office DECT 1910-1920 MHz Single Ear Headset (NA)	8D3K6AA
Poly Savi 8210 Office DECT 1920-1930 MHz Single Ear Headset (NA)	7S445AA
Poly Savi 8210 UC DECT 1880-1900 MHz USB-A Headset (EMEA + APJ)	8D3E9AA
Poly Savi 8210 UC DECT 1920-1930 MHz USB-A Headset (NA)	77T29AA
Poly Savi 8210 UC Microsoft Teams Certified DECT 1880-1900 MHz USB-A Headset (EMEA + APJ)	8D3F1AA
Poly Savi 8210 UC Microsoft Teams Certified DECT 1920-1930 MHz USB-A Headset (NA)	77T31AA
Poly Savi 8210-M Office DECT 1880-1900 MHz Single Ear Headset (EMEA + APJ)	8D3J8AA
Poly Savi 8210-M Office DECT 1910-1920 MHz Single Ear Headset (NA)	8D3K1AA
Poly Savi 8210-M Office DECT 1920-1930 MHz Single Ear Headset (NA)	7S447AA
Poly Savi 8220 Office Stereo DECT 1880-1890 MHz Headset (EMEA + APJ)	8D3J1AA
Poly Savi 8220 Office Stereo DECT 1880-1900 MHz Headset (EMEA + APJ)	8D3J2AA
Poly Savi 8220 Office Stereo DECT 1910-1920 MHz Headset (NA)	8D3J4AA
Poly Savi 8220 Office Stereo DECT 1920-1930 MHz Headset (NA)	7S4B5AA
Poly Savi 8220 Stereo DECT 1880-1900 MHz Top +Charging Cradle (EMEA + APJ)	8Y9C4AA
Poly Savi 8220 UC DECT 1880-1900 MHz USB-A Headset (EMEA + APJ)	8D3F2AA
Poly Savi 8220 UC DECT 1920-1930 MHz USB-A Headset (NA)	77T33AA
Poly Savi 8220 UC Microsoft Teams Certified DECT 1880-1900 MHz USB-A Headset (EMEA + APJ)	8D3F5AA
Poly Savi 8220 UC Microsoft Teams Certified DECT 1920-1930 MHz USB-A Headset (NA)	77Y82AA
Poly Savi 8220-M Office Stereo DECT 1880-1900 MHz Headset (EMEA + APJ)	8D3H8AA
Poly Savi 8220-M Office Stereo DECT 1910-1920 MHz Headset (NA)	8D3J0AA
Poly Savi 8220-M Office Stereo DECT 1920-1930 MHz Headset (NA)	7S4B6AA
Poly Savi 8245 DECT 1880-1900 MHz Headset +USB-A to USB-C Cable +D400 (EMEA + APJ)	8D3H2AA

Poly Savi 8245 Office DECT 1880-1900 MHz USB-A Headset (EMEA + APJ)	8D3H1AA
Poly Savi 8245 Office DECT 1910-1920 MHz USB-A Headset (NA)	8Q005AA
Poly Savi 8245 Office DECT 1920-1930 MHz USB-A Headset (NA)	7W6D1AA
Poly Savi 8245-M Microsoft Teams Certified DECT 1880-1900 MHz USB-A Headset +D200 (EMEA + APJ)	8D3F4AA
Poly Savi 8245-M Office Microsoft Teams Certified DECT 1880-1900 MHz USB-A Headset (EMEA + APJ)	8D3H7AA
Poly Savi 8245-M Office Microsoft Teams Certified DECT 1910-1920 MHz USB-A Headset (NA)	8Q006AA
Poly Savi 8245-M Office Microsoft Teams Certified DECT 1920-1930 MHz USB-A Headset (NA)	7W069AA
Poly Savi 8410 Monaural DECT 1880-1900 MHz Headset	8L5A7AA
Poly Savi 8410 Monaural DECT 1880-1900 MHz Headset	8L5A9AA
Poly Savi 8410 Monaural DECT 1920-1930 MHz Headset	8L7E6AA
Poly Savi 8410 Monaural DECT 1920-1930 MHz Headset	8L7E9AA
Poly Savi 8420 Stereo DECT 1880-1900 MHz Headset	8L5B2AA
Poly Savi 8420 Stereo DECT 1880-1900 MHz Headset	8L5B3AA
Poly Savi 8420 Stereo DECT 1920-1930 MHz Headset	8L7F2AA
Poly Savi 8420 Stereo DECT 1920-1930 MHz Headset	8L7F5AA
Poly Savi 8445 DECT 1880-1890 MHz Convertible Headset	8L5B7AA
Poly Savi 8445 DECT 1880-1900 MHz Convertible Headset	8L5B4AA
Poly Savi 8445 DECT 1880-1900 MHz Convertible Headset	8L5B6AA
Poly Savi 8445 DECT 1910-1920 MHz Convertible Headset	8L5B5AA
Poly Savi 8445 DECT 1910-1920 MHz Convertible Headset	8L5B8AA
Poly Savi 8445 DECT 1920-1930 MHz Convertible Headset	8L7F1AA
Poly Savi 8445 DECT 1920-1930 MHz Convertible Headset	8L7F8AA
Poly Voyager 4310 Headset	77Y93AA
Poly Voyager 4310 Monaural Headset	77Y92AA
Poly Voyager 4310 USB-A Headset	76U48AA
Poly Voyager 4310 USB-A Headset	77Y91AA
Poly Voyager 4310 USB-C Headset	77Y94AA
Poly Voyager 4310 USB-C Headset	77Y95AA
Poly Voyager 4310 USB-C Headset	77Y96AA
Poly Voyager 4310-M UC Headset +USB-A to USB-C Cable +BT700 dongle	7Y210AA
Poly Voyager 4310-M USB-C Headset	77Y97AA
Poly Voyager 4320-M +USB-A to USB-C Cable +BT700 dongle	7Y211AA
Poly Voyager 4320 Headset	77Z00AA
Poly Voyager 4320 Stereo USB-A Headset	77Y99AA
Poly Voyager 4320 USB-A Headset	76U49AA
Poly Voyager 4320 USB-A Headset	77Y98AA
Poly Voyager 4320 USB-C Headset	76U50AA
Poly Voyager 4320 USB-C Headset	77Z30AA



	Poly Voyager 4320 USB-C Headset	77Z31AA
	Poly Voyager 4320-M Headset	77Z32AA
	Poly Voyager Focus 2 USB-C-C Headset	9T9J3AA
	Poly Voyager Focus 2 USB-C-C Headset	9T9J5AA
	Poly Voyager Focus 2 USB-C-C Headset	9T9J6AA
	Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Black Headset +USB-C/A Adapter	9D452AA
	Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Demo	9C6W5AA
	Poly Voyager Surround 80 USB-C Headset	8G7T9AA
	Poly Voyager Surround 80 USB-C Headset	8G7U0AA
	Poly Voyager Surround 85 USB-C Headset	8G7T7AA
	Poly Voyager Surround 85 USB-C Headset	8G7T8AA
Audio - Speaker phone	Poly Sync 10 Speakerphone	77P34AA
	Poly Sync 10 Speakerphone +USB-A to USB-C Cable	7S4M6AA
	Poly Sync 20 USB-C Speakerphone	7F0J7AA
	Poly Sync 20+M Speakerphone +USB-A to USB-C Cable +BT700 dongle +Pouch	7Y215AA
	Poly Sync 20-M Speakerphone +USB-A to USB-C Cable	7S4M1AA
	Poly Sync 20-M USB-C Speakerphone	7F0J8AA
	Poly Sync 40 Speakerphone	77P35AA
	Poly Sync 40+ USB-A USB-C Speakerphone	77P36AA
	Poly Sync 40+ USB-A USB-C Speakerphone	772C5AA
	Poly Sync 60 Speakerphone	772C2AA
	Poly Sync 60 Speakerphone	77P41AA
	Poly Sync USB-A 20 Speakerphone	772C8AA
	Poly Sync USB-A 20 Speakerphone	772D2AA
	Poly Sync USB-A 20+ Speakerphone	772C6AA
	Poly Sync USB-A 20+ Speakerphone	772C9AA
	Poly Sync USB-A USB-C 10 Speakerphone	772C3AA
	Poly Sync USB-A USB-C 40 Speakerphone	772C4AA
	Poly Sync USB-C 20+ Speakerphone	772D0AA
	Poly Sync USB-C 20+ Speakerphone	772D1AA
Camera	HP 625 Webcam	6Y7L1AA
	HP USB-A 325 Webcam	53X27AA,53X27UT
Cases	HP 14 Convertible Laptop Backpack Tote	9C2H1AA
	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	1E7D6AA,1E7D6UT,50P32AA
	HP Prelude 15.6 Top Load	1E7D7AA,50P31AA
	HP Prelude Pro Recycled 15.6 Backpack	1X644AA,1X644UT
	HP Prelude Pro Recycled 15.6 Top Load	1X645AA,1X645UT
	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™ 120W G4 Dock	4J0A2AA
	HP Thunderbolt™ 280W G4 Dock w/Combo Cable	4J0G4AA
	HP USB-C™ 120W G5 Dock	5TW10AA
	HP USB-C™ G5 Essential Dock	72C71AA
	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	50H55AA,50H55UT,50H55PT#ACJ
	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 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	86J24AA
	HP 655 Wireless Keyboard and Mouse Combo	860P8AA
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA,9SR36UT
Mouse	HP 105 Mouse Pad	8X595AA
	HP 125 Wired Mouse	265A9AA,265A9AT,265A9UT
	HP 128 Laser Wired Mouse	265D9AA
	HP 205 Desk Mat	8X597AA
	HP 320M Wired Mouse	9VA80AA
	HP 685 Comfort Dual-Mode Mouse	8T6M0UT
	HP 695 Qi-Charging Wireless Mouse	8F1Y4AA
	HP 715 Rechargeable Multi-Device Bluetooth Mouse	6E6F0AA
	HP 925 Ergonomic Vertical Wireless Mouse	6H1A5AA
	HP Creator Black 935 Wireless Mouse	1D0K8AA
	HP Multi-Device Black 635 Wireless Mouse	1D0K2AA
Pen	HP Active Rechargeable AES 2 G3 Pen	6SG43AA
Power	HP 110W USB-C Laptop Charger	8B3Y2AA,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



### CHANGELOG

Date of change	Version History		Description of change
12 <sup>th</sup> February 2025	V1 to V2	Updated	Graphics Section Weight and Dimensions Section
19 <sup>th</sup> February 2025	V2 to V3	Updated	Power Section

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