

### HP EliteBook X G1a 14 inch Notebook Next Gen AI PC



#### Front

1	Internal Microphone (2)	5	IR Camera
2	Webcam LED	6	IR LED
3	Webcam	7	Speakers
4	Camera Shutter	8	Touchpad



### Sides

1	HDMI 2.1	7	Speakers
2	USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1)	8	Power Indicator LED
3	Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1) <sup>1</sup>	9	Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1) <sup>1</sup>
4	Power Indicator LED	10	USB Type-A 10Gbps signaling rate (Powered)
5	Headphone/mic combo jack	11	Security lock slot
6	Speakers		

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

### PRODUCT NAME

HP EliteBook X G1a 14 inch Notebook Next Gen AI PC

### OPERATING SYSTEMS

#### Preinstalled

FreeDOS

Windows 11 Home - HP recommends Windows 11 Pro for business <sup>2</sup>

Windows 11 Home Single Language - HP recommends Windows 11 Pro for business <sup>2</sup>

Windows 11 Pro (Windows 11 Enterprise available with a Volume Licensing Agreement) <sup>2</sup>

Windows 11 Pro <sup>2</sup>

2. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.



### PROCESSORS

Processor <sup>3,4,5,6,7</sup>	Cores	Threads	L3 Cache	Max Boost Frequency <sup>5</sup>	Base Frequency	NPU
AMD Ryzen™ AI 5 340	6 cores	12	16 MB	4.8 GHz	2.0 GHz	50 TOPS
AMD Ryzen™ AI 5 PRO 340	6 cores	12	16 MB	4.8 GHz	2.0 GHz	50 TOPS
AMD Ryzen™AI 7 PRO 360	8 cores	16	16 MB	5.0 GHz	2.0 GHz	50 TOPS
AMD Ryzen™AI 9 HX PRO 375	12 cores	24	24 MB	5.1 GHz	2.0 GHz	55 TOPS

### Processor Family

AMD Ryzen™ AI 5 processor

AMD Ryzen™ AI 5 PRO processor

AMD Ryzen™ AI 7 PRO processor

AMD Ryzen™ AI 9 PRO processor

3. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. AMD's numbering is not a measurement of clock speed.

4. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

5. Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.

6. In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on <http://www.support.hp.com>.

7. 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



### GRAPHICS

#### Integrated

AMD Radeon™ Graphics

#### Supported Protocols

UMA: Support HD decode, DX12, HDMI 2.1, HDCP 2.3

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

Up to 4



### DISPLAY

#### Non-Touch

35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, 400 nits, sRGB 100%<sup>8</sup>

#### Touch

35.6 cm (14") diagonal, 3K (2880 x 1800), OLED, UWVA, Touch, 120Hz (VRR), BrightView, OLED + Low Blue Light, 400 nits, DCI-P3 100%<sup>8,9</sup>

#### Display Size (Diagonal)

35.6 cm (14.0")

#### Screen to Body Ratio

Up to 90.84%

#### Aspect Ratio

16:10

#### Max Hinge Open Angle

157±3°

8. Resolutions are dependent upon monitor capability, and resolution and color depth settings.

9. Actual brightness will be lower with touchscreen.



### DOCKING (SOLD SEPARATELY)

<b>Docking station model name</b>	HP Thunderbolt 120W G4 Dock
<b>Total number of supported displays (incl.the notebook)</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 2x HDMI 2.0, 2x DisplayPort® 1.4, 1x Thunderbolt® 4, 1x USB Type-C® 3.2 Gen 2 DisplayPort®
<b>Dock Connectors</b>	
<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)</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>10</sup>

1 TB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell<sup>10</sup>

512 GB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell<sup>10</sup>

512 GB PCIe® Gen4x4 NVMe™ Self Encrypted OPAL2 SSD Three Layer Cell<sup>10</sup>

256 GB PCIe® NVMe™ SSD Value<sup>10</sup>

10. 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

64GB LPDDR5X-8533 MT/s

#### Memory

64GB LPDDR5X-8533 MT/s

32GB LPDDR5X-8533 MT/s

16GB LPDDR5X-8533 MT/s

#### Memory Slots

No memory slots.

Memory soldered down.

System runs at 8000 MT/s

Supports Dual Channel Memory

The memory is non-accessible / non-upgradeable.

### NETWORKING /COMMUNICATIONS

#### WLAN

MediaTek Wi-Fi 7 MT7925 (2x2) and Bluetooth® 5.4 wireless card with external antenna<sup>11,12</sup>

#### NFC

NFC Mirage WNC XRAV-1 (optional)

#### Miracast

Native Miracast Support<sup>13</sup>

11. 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.

12. Wi-Fi 7 availability starting from Summer/Fall, 2024

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

### AUDIO/MULTIMEDIA

#### 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  
Fingerprint Sensor (optional)  
Hall Effect Sensor  
HP Sure Platform  
HP Tamper Lock<sup>14</sup>  
Thermal Sensor

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

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

#### Keyboard

HP Premium Keyboard, spill-resistant, backlit keyboard.

#### Pointing Device

Clickpad

Microsoft Precision Touchpad Default Gestures Support

Multi-touch gesture support, Taps enabled as default, with image sensor and glass surface

#### Function Keys

ESC - System information

F1 - Display Switching

F2 - Blank

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) – integrated with Fingerprint sensor (optional)

Microsoft Copilot<sup>15</sup>

#### Hidden Function Keys

Fn + R - Break

Fn + S - Sys Rq

Fn + C - Scroll Lock

Fn + E - Insert

Fn + W - Pause

15. Requires Windows 11 and an NPU. Timing of feature delivery and availability varies by market and device. Requires Microsoft account to log in. Where Copilot in Windows is not available, the Copilot key will lead to the Bing search engine. See

<http://aka.ms/WindowsAIFeatures>

### SOFTWARE AND SECURITY

#### Application Software

Buy Microsoft Office (sold separately)

HP Connection Optimizer

Edge Customization

HP AI Companion

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 for Commercial

HP Smart Support<sup>16</sup>

HP Support Assistant<sup>17</sup>

myHP

HSA Fusion for Commercial

HSA Telemetry for Commercial

Poly Camera Pro

Poly Lens<sup>18</sup>

#### Manageability Features

HP Client Catalog (download)<sup>19</sup>

HP Client Management Script Library (download)<sup>20</sup>

HP Cloud Recovery<sup>21</sup>

HP Connect for Microsoft Endpoint Manager

HP Driver Packs (download)<sup>22</sup>

HP Image Assistant (download)<sup>23</sup>

HP Manageability Integration Kit (download)<sup>24</sup>

HP Power Manager with Battery Health Manager (download)<sup>25</sup>

#### Security Management

Secured-Core PC Enable<sup>26</sup>

Windows Hello Enhanced Sign-In Security (ESS)

HP Wolf Security of Business<sup>27</sup> includes:

HP Sure Admin<sup>28</sup>

HP Sure Click<sup>29</sup>

HP Sure Recover<sup>30</sup>

HP Sure Run<sup>31</sup>

HP Sure Sense<sup>32</sup>

HP Sure Start<sup>33</sup>

HP Tamper Lock



### Security- TPM

Model: Nuvoton NPCT760HACYX

Firmware Version: FW 7.2.4.0

TCG TPM 2.0

FIPS 140-2 Compliant: Yes

### BIOS

Absolute Persistence Module<sup>34</sup>

Audio Permanent Disable

BIOS Update via Network

HP Bios Recovery

HP BIOSphere Gen6<sup>35</sup>

HP DriveLock & Automatic DriveLock

HP Fingerprint Sensor<sup>36</sup>

HP Secure Erase<sup>37</sup>

HP Wake on WLAN

TPM

### IPv6 Support

Yes

### FirstNet Certified

No

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

**UEFI version:** 2.7

**Class:** 3

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 <http://www.hpdas.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. Poly Lens Desktop requires a Windows OS

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

20. HP Client Management Script Library can be downloaded from <https://www.hp.com/us-en/solutions/client-management-solutions.html>



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21. HP Cloud Recovery is available for Z by HP, HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, network connection. **NOTE:** You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: <https://support.hp.com/us-en/computer>.
22. HP Driver Packs not preinstalled, however available for download at <https://support.hp.com/us-en/search?q=driver%20packs>
23. HP Image Assistant not preinstalled, however available for download at <https://ftp.ext.hp.com/pub/caps-softpaq/cmit/HPIA.html>
24. HP Manageability Integration Kit not presintalled, however available for downloaded from <https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools>
25. HP Power Manager with Battery Health can be downloaded by entering your system information here: [https://support.hp.com/us-en/document/ish\\_4449597-3519507-16](https://support.hp.com/us-en/document/ish_4449597-3519507-16)
26. 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.
27. 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.
28. 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
29. HP Sure Click requires Windows 10 and higher. See [https://bit.ly/2PrLT6A\\_SureClick](https://bit.ly/2PrLT6A_SureClick)for complete details.
30. 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.
31. HP Sure Run is available on select HP PCs and requires Windows 10 and higher.
32. 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.
33. HP Sure Start is available on select HP PCs and requires Windows 10 and higher
34. Absolute firmware module is shipped turned off and can only be activated with the purchase a license subscription and full activation of the software agent. License subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. Certain conditions apply. For full details visit: <https://www.absolute.com/about/legal/agreements/absolute/>
35. HP BIOSphere features may vary depending on the platform and configuration
36. HP Fingerprint Reader is an optional feature that requires Windows 10 or 11 and must be configured at purchase.
37. 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

HP 140W Slim USB Type-C® AC power adapter (India only)

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

#### Battery

HP XL-Long Life 4 cell, 74.5Whr Polymer<sup>38</sup>

#### Battery Recharge Time

Supports battery HP Fast Charge: approximately 50% in 30 minutes<sup>39</sup>

#### Power Cord

3-wired plug- 1.0m

#### Battery life

Up to 21 hours with 74.5Whr battery (AMD Ryzen™AI 5 PRO 340, UMA graphic, brightness set to 250nits on a WUXGA 400nits LCD display, 16GB LPDDR5x memory, 256GB SSD)<sup>40</sup>

Up to 14 hours 30 minutes with 74.5Whr battery (AMD Ryzen™AI 5 PRO 340, UMA graphic, brightness set to 200nits on a 3K OLED 400nits touch display, 16GB LPDDR5x memory, 256GB SSD)<sup>40</sup>

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

39. 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.

40. Mobile Mark 25 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See [www.bapco.com](http://www.bapco.com) for additional details.



### WEIGHT & DIMENSIONS

#### Product Weight

Starting at 1.497Kg (3.3 lbs) with 74.50 Wh battery

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

#### Product Dimensions (w x d x h)<sup>41</sup>

312.20 mm (W) x 214.65 mm (D) x 9.22 mm (front)/ 13.16 mm (rear)

Maximum height 18.3 mm

#### 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](#).

<sup>41</sup>. 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

- 1 x Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1) <sup>42</sup>
- 1 x USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1)
- 1 x HDMI 2.1
- 1 x headphone/mic combo jack

#### Right side

- 1 x Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1) <sup>42</sup>
- 1 x USB Type-A 10Gbps signaling rate (Powered)
- 1 x Security lock slot

[42. SuperSpeed USB 20Gbps signaling rate is not available with Thunderbolt™ 4.](#)



**ENVIRONMENTAL DATA**

<b>Eco-Label Certifications &amp; declarations</b>	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: <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>• Product Carbon Footprint</li> <li>• Ocean-bound plastic in Speaker</li> <li>• 20% post-consumer recycled plastic</li> <li>• 35% recycled metal</li> <li>• Low halogen</li> <li>• Outside Box and corrugated cushions are 100% sustainably sourced and recyclable</li> <li>• Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable.</li> </ul>		
<b>System Configuration</b>	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a “Typically Configured Notebook”.		
<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 (Short idle)	4.09 W	4.39 W	3.97 W
Normal Operation (Long idle)	N/A	N/A	N/A
Sleep	0.76 W	0.92 W	0.72 W
Off	0.44 W	0.45 W	0.43 W
<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.			
<b>Heat Dissipation*</b>	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 50Hz</b>
Normal Operation (Short idle)	14 BTU/hr	15 BTU/hr	14 BTU/hr
Normal Operation (Long idle)	N/A	N/A	N/A
Sleep	3 BTU/hr	3 BTU/hr	2 BTU/hr
Off	2 BTU/hr	2 BTU/hr	1 BTU/hr



	<b>*NOTE:</b> Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.		
<b>Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)</b>	<b>Sound Power (L<sub>WAd</sub>, bels)</b>	<b>Sound Pressure (L<sub>pAm</sub>, decibels)</b>	
Typically Configured – Idle	2.4	23.7	
Fixed Disk – Random writes	N/A	N/A	
Optical Drive – Sequential reads	3.1	31.2	
<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 93.7% recycle-able when properly disposed of at end of life.</li> </ul>		
<b>Packaging Materials</b>	<b>External:</b>	PAPER/Corrugated	594 g
		PAPER/Molded Pulp	228 g
		Paper/paper	23 g
	The plastic packaging material contains at least 80% recycled content.		
	The corrugated paper packaging materials contains at least 0% 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>		

	To obtain a copy of the HP RoHS Compliance Statement, see <a href="#">HP RoHS position statement</a> .
<b>Material Usage</b>	<p>This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at <a href="https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c05998906">https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c05998906</a>):</p> <ul style="list-style-type: none"><li>• Asbestos</li><li>• Certain Azo Colorants</li><li>• Certain Brominated Flame Retardants – may not be used as flame retardants in plastics</li><li>• Cadmium</li><li>• Chlorinated Hydrocarbons</li><li>• Chlorinated Paraffins</li><li>• Bis(2-Ethylhexyl) phthalate (DEHP)</li><li>• Benzyl butyl phthalate (BBP)</li><li>• Dibutyl phthalate (DBP)</li><li>• Diisobutyl phthalate (DIBP)</li><li>• Formaldehyde</li><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>
<b>Packaging Usage</b>	<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></ul>

	<ul style="list-style-type: none"><li>Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.</li></ul>
<b>End-of-life Management and Recycling</b>	<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>
<b>HP, Inc. Corporate Environmental Information</b>	<p>For more information about HP's commitment to the environment:</p> <p>Sustainable Impact Report <a href="https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06040843">https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06040843</a></p> <p>Eco-label certifications <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></p> <p>ISO 14001 certificates: <a href="https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c04777932">https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c04777932</a></p>
<b>footnotes</b>	<ul style="list-style-type: none"><li>Percentage of ocean-bound plastic contained in each component varies by product</li><li>Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.</li><li>External power supplies, WWAN modules, power cords, cables and peripherals excluded.</li><li>Disclaimer: 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>100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.</li><li>Fiber cushions made from 100% recycled wood fiber and organic materials.</li></ul>

### 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>43</sup>

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



### SYSTEM UNIT

#### Stand-Alone Power Requirements (AC Power)

Nominal Operating Voltage	20.0 V
Max Operating Power	UMA < 100 W

#### Temperature

Operating	0° to 50° C (32° to 122° F) No sustained direct exposure to sunlight, System performance may be reduced above 32°C (89.6°F)
Non-operating	-20° to 65° C (-4° to 149° F) No sustained direct exposure to sunlight, System performance may be reduced above 32°C (89.6°F)

#### Relative Humidity

Operating	0% to 80% (non-condensing)
Non-operating	0% to 95%, 38.7° C (101.6° F) maximum wet bulb temperature

#### Shock

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

#### Random Vibration

Operating	1.043 grms
Non-operating	3.500 grms

#### Planned Industry Standard Certifications

Regulatory Model Number	HSTNS-I001
CSA/UL 62368-1	Yes
ENERGY STAR®	Yes <sup>44</sup>
FCC/ICES/CISPR/VCCI	Yes
CE MARKING	Yes
GS Mark	Yes
China CCC/SRRC	Related commodity should comply with ISO 9241 Standards.
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>45</sup>
Low Blue Light	Yes
WW RoHS	Yes
MIL-STD 810H Testing	Yes
Eye Comfort	5 Stars

44. Configurations of the HP EliteBook X G1a 14 inch Notebook that are ENERGY STAR® qualified are identified as HP EliteBook X G1a 14 inch Notebook PC ENERGY STAR on HP websites and on <http://www.energystar.gov>.

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



### DISPLAYS

1. Actual brightness will be lower with touchscreen.

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

**35.6 cm (14") diagonal, 3K  
(2880 x 1800), OLED, UWVA,  
Touch, 120Hz (VRR),  
BrightView, OLED + Low Blue  
Light, 400 nits, DCI-P3 100%**

<b>Dimensions (W x H)</b>	305.450 x 197.850 mm (max)
<b>Active Area</b>	301.824 x 188.640 mm (typ)
<b>Weight</b>	139 g (max)
<b>Diagonal Size</b>	14.0 inch
<b>Surface Treatment</b>	Bright View
<b>Touch Enabled</b>	Yes
<b>Contrast Ratio</b>	100,000:1 (typ)
<b>Refresh Rate</b>	48 ~ 120 Hz (typ)
<b>Brightness</b>	400 nits <sup>1</sup>
<b>Pixel Resolution</b>	RGB
<b>Pixel Resolution - Format</b>	2880 x 1800 (3K)
<b>Aspect Ratio</b>	16:10
<b>Backlight</b>	OLED
<b>Color Gamut Coverage</b>	DCI P3 100%
<b>Color Depth</b>	8 bit + FRC 2 bit
<b>Viewing Angle</b>	UWVA 89/89/89/89
<b>Low Blue Light</b>	Yes
<b>Power Consumption</b>	4.42(max) / 4.09(max)

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

<b>Dimensions (W x H)</b>	307.550 x 204.860(max)
<b>Active Area</b>	301.590 x 188.500 (typ)
<b>Weight</b>	200(max)
<b>Diagonal Size</b>	14
<b>Surface Treatment</b>	Anti-Glare
<b>Touch Enabled</b>	No
<b>Contrast Ratio</b>	1200: 1 (typ)
<b>Refresh Rate</b>	60 (typ)
<b>Brightness</b>	400 nits <sup>1</sup>
<b>Pixel Resolution</b>	RGB
<b>Pixel Resolution - Format</b>	1920 x 1200 (WUXGA)
<b>Aspect Ratio</b>	16:10
<b>Backlight</b>	WLED
<b>Color Gamut Coverage</b>	sRGB 100%
<b>Color Depth</b>	8 bits
<b>Viewing Angle</b>	UWVA 89/89/89/89
<b>Low Blue Light</b>	No
<b>Power Consumption</b>	1.64 (max) / 1.97(max)



### STORAGE

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</b> <b>Three Layer Cell</b>	<b>Form Factor</b>	M.2 2280
	<b>Capacity</b>	2 TB
	<b>NAND Type</b>	TLC
	<b>Weight</b>	9 g (0.02 lb)
	<b>Interface</b>	PCIe NVMe Gen4X4
	<b>Sequential Read</b>	6400 MB/s ±20%
	<b>Sequential Write</b>	5000 MB/s ±20%
	<b>Logical Blocks</b>	4,000,797,360
	<b>Features</b>	Pyrite 2.0; TRIM; L1.2
<b>1 TB PCIe® Gen4x4 NVMe™ SSD</b> <b>Three Layer Cell</b>	<b>Form Factor</b>	M.2 2280
	<b>Capacity</b>	1 TB
	<b>NAND Type</b>	TLC
	<b>Weight</b>	9 g (0.02 lb)
	<b>Interface</b>	PCIe NVMe Gen4X4
	<b>Sequential Read</b>	6400 MB/s ±20%
	<b>Sequential Write</b>	5000 MB/s ±20%
	<b>Logical Blocks</b>	2,000,409,264
	<b>Features</b>	Pyrite 2.0; TRIM; L1.2
<b>512 GB PCIe® Gen4x4 NVMe™</b> <b>SSD Three Layer Cell</b>	<b>Form Factor</b>	M.2 2280
	<b>Capacity</b>	512 GB
	<b>NAND Type</b>	TLC
	<b>Weight</b>	9 g (0.02 lb)
	<b>Interface</b>	PCIe NVMe Gen4X4
	<b>Sequential Read</b>	6400 MB/s ±20%
	<b>Sequential Write</b>	3500 MB/s ±20%
	<b>Logical Blocks</b>	1,000,215,215
	<b>Features</b>	Pyrite 2.0; TRIM; L1.2
<b>512GB PCIe® Gen4x4 NVMe™</b> <b>Self Encrypted OPAL2 SSD</b> <b>Three Layer Cell</b>	<b>Form Factor</b>	M.2 2280
	<b>Capacity</b>	512 GB
	<b>NAND Type</b>	TLC
	<b>Weight</b>	10 g (0.02 lb)
	<b>Interface</b>	PCIe NVMe Gen4X4
	<b>Sequential Read</b>	6400 MB/s ±20%
	<b>Sequential Write</b>	3500 MB/s ±20%
	<b>Logical Blocks</b>	1,000,215,215
	<b>Features</b>	TCG Opal 2.0; TRIM; L1.2



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<b>256 GB PCIe® NVMe™ SSD Value</b>	<b>Form Factor</b>	M.2 2280
	<b>Capacity</b>	256 GB
	<b>NAND Type</b>	TLC
	<b>Weight</b>	10 g (0.02 lb)
	<b>Interface</b>	PCIe NVMe Gen4X4
	<b>Sequential Read</b>	3100 MB/s ±20%
	<b>Sequential Write</b>	1200 MB/s ±20%
	<b>Logical Blocks</b>	500,118,192
	<b>Features</b>	Pyrite 2.0; TRIM; L1.2

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### NETWORKING / COMMUNICATION

Mediatek MT7925 Wi-Fi 7

Bluetooth® 5.4 AIM-T WW

WLAN<sup>1</sup>

#### Wireless LAN Standards

IEEE 802.11a

IEEE 802.11b

IEEE 802.11g

IEEE 802.11n

IEEE 802.11ac

IEEE 802.11ax

IEEE 802.11be

IEEE 802.11d

IEEE 802.11e

IEEE 802.11h

IEEE 802.11i

IEEE 802.11k

IEEE 802.11r

IEEE 802.11v

#### Interoperability

#### Frequency Band

Wi-Fi certified

- 802.11b/g/n/ax/be

2.402 – 2.482 GHz

- 802.11a/n/ac/ax/be

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

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

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

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

- 802.11n: max 300Mbps

- 802.11ac : 1733Mbps

- 802.11ax : max 2.4Gbps

- 802.11be : max 2.8Gbps (160MHz)

#### Modulation

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

#### Security<sup>2</sup>

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

- AES-CCMP: 128 bit in hardware

- 802.1x authentication

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

- WPA2 certification



	<ul style="list-style-type: none"><li>• WPA3 certification</li><li>• IEEE 802.11i</li><li>• WAPI</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<sup>3</sup></b>	<ul style="list-style-type: none"><li>• 802.11b, 1Mbps : +17dBm minimum</li><li>• 802.11g, 6Mbps : +16dBm minimum</li><li>• 802.11a, 6Mbps : +17dBm minimum</li><li>• 802.11n, MCS7(HT20) : +14dBm minimum</li><li>• 802.11n, MCS7(HT40) : +13.5dBm minimum</li><li>• 802.11ac MCS9(VHT20) : 13.5dBm minimum</li><li>• 802.11ac MCS9(VHT40) : +13.5dBm minimum</li><li>• 802.11ac MCS9(VHT80) : +12.5dBm minimum</li><li>• 802.11ac MCS9(VHT160) : +10.5dBm minimum</li><li>• 802.11ax MCS11(HE20)(6GHz) : +11.5dBm minimum</li><li>• 802.11ax MCS11(HE40)(6GHz) : +7.5dBm minimum</li><li>• 802.11ax MCS11(HE80)(6GHz) : +7.5dBm minimum</li><li>• 802.11ax MCS11(HE160)(6GHz) : +7.5dBm minimum</li><li>• 802.11be MCS13(EHT20)(6GHz) : +11.5dBm</li><li>• 802.11be MCS13(EHT40)(6GHz) : +7.5dBm</li><li>• 802.11be MCS13(EHT80)(6GHz) : +7.5dBm</li><li>• 802.11be MCS13(EHT160)(6GHz) : +6.5dBm</li></ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"><li>• Transmit mode 2.7 W</li><li>• Receive mode 1.8 W</li><li>• Idle mode (PSP) 180 mW (WLAN Associated)</li><li>• Idle mode 50 mW (WLAN unassociated)</li><li>• Connected Standby 10mW</li><li>• Radio disabled 8 mW</li></ul>
<b>Power Management</b>	ACPI and PCI Express® compliant power management
<b>Receiver Sensitivity<sup>4</sup></b>	802.11 compliant power saving mode  802.11b, 1Mbps : -93.5dBm maximum 802.11b, 11Mbps : -85dBm maximum 802.11a/g, 6Mbps : -90.5dBm maximum 802.11a/g, 54Mbps : -72.5dBm maximum 802.11n, MCS0(HT20) : -90dBm maximum 802.11n, MCS7(HT20) : -71.5dBm maximum 802.11n, MCS0(HT40) : -88.5dBm maximum 802.11n, MCS7(HT40) : -68.5dBm maximum 802.11ac, MCS9(VHT20) : -88.5dBm maximum 802.11ac, MCS9(VHT40) : -65.5dBm maximum 802.11ac, MCS9(VHT80) : -60.5dBm maximum

802.11ac, MCS9(VHT160) : -58.5dBm maximum  
802.11ax, MCS11(HE20)(6GHz) : -59.5dBm maximum  
802.11ax, MCS11(HE40)(6GHz) : -56.5dBm maximum  
802.11ax, MCS11(HE80)(6GHz) : -53.5dBm maximum  
802.11ax, MCS11(HE160)(6GHz) : -51.5dBm maximum  
802.11be, MCS13(EHT20)(6GHz) : -55.5dBm maximum  
802.11be, MCS13(EHT40)(6GHz) : -53.5dBm maximum  
802.11be, MCS13(EHT80)(6GHz) : -51.5dBm maximum  
802.11be, MCS13(EHT160)(6GHz) : -48.5dBm maximum

<b>Antenna type</b>	High efficiency antenna with spatial diversity, mounted in the display enclosure
<b>Form Factor</b>	PCI-Express M.2 MiniCard
<b>Dimensions</b>	Type 1418: 1.67 x 14.0 x 18.0 mm
<b>Weight</b>	Type 1418: 1.3g
<b>Operating Voltage</b>	3.3v +/- 9%
<b>LED Activity</b>	LED Amber – Radio OFF; LED OFF – Radio ON
<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 Compliant
<b>Frequency Band</b>	2402 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 Bluetooth® Low Energy : 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 I Bluetooth device with a maximum transmit power of +15.5 dBm for BR and +13dBm for 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>	Linux/Chrome OS Bluetooth® Software
<b>Power Management</b>	ACPI and PCI Express® compliant power management 802.11 compliant power saving mode



<b>Certifications</b>	FCC (47 CFR) Part 15C, Section 15.247 & 15.249
<b>Power Management</b>	ETS 300 328, ETS 300 826
<b>Certifications</b>	Low Voltage Directive IEC950
<b>Bluetooth Profiles Supported</b>	UL, CSA, and CE Mark
	Advanced Audio Distribution Profile (A2DP)
	Basic Imaging Profile (BIP)2
	Bluetooth® 4.1 - ESR 5/6/7 Compliance
	Bluetooth® 4.2 - ESR 8 Compliance
	Bluetooth® 5.2
	Bluetooth® 5.3
	Channel Selection Algo
	Compliance to the latest Errata Section 12.3 of BT 5.3
	specificationx
	ESR 9/10 Compliance
	FAX Profile (FAX)
	Hands Free Profile (HFP)
	Headset Profile (HSP)
	Host to Controller Encryption Key Control Enhancements
	LE 2Mbps
	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. Check latest software/driver release for updates on supported security features.

3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.

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

<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 ° to 158 °F) Storage: -20 °C to 125 °C (-4 ° to 257 °F)
	<b>Storage temperature</b>	Operating: 10% - 90% Non-Operating: 5% - 95%
	<b>Humidity</b>	Operating: 10% - 90% Non-Operating: 5% - 95%
	<b>Supply Operating voltage</b>	4.35 to 5.25 Volts
	<b>I/O Voltage</b>	1.8V or 3.3V
	<b>Power Consumption (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



**Detected Test Tag Type 4**

Total 282.3 mA

**Antenna**

Net Module 235.3 mA

Antenna connector, 0.5mm pitch, 7 connector FPC. Antenna matching is external to module.

### POWER

<b>HP 100W Slim USB Type-C® AC power adapter</b>	<b>Weight (DC Cable Included)</b>	380 g ± 10 g
	<b>Input</b>	100 - 240 VAC
	<b>Input Efficiency</b>	81.50% min at 115 Vac / 230 Vac @5.00V 86.70% min at 115 Vac / 230 Vac @9.00V 88.00% min at 115 Vac / 230 Vac @12.00V 89.00% min at 115 Vac / 230 Vac @15.00V 89.00% min at 115 Vac / 230 Vac @20.00V
	<b>Input frequency range</b>	47 ~ 63Hz
	<b>Input AC current</b>	Max. 1.6 A at 90 VAC
	<b>Output power</b>	5V/15W 9V/27W 12V/60W 15V/75W 20V/100W
	<b>DC output</b>	5V/9V/12V/15V/20V
	<b>Hold-up time</b>	100% load 5ms at 115 Vac input / 80% load 10ms at 115 Vac input
	<b>Output Over Current Protection</b>	5V/9V/12V/15V<125% max current, 20V<135% max current
	<b>AC Inlet Type</b>	C6
	<b>DC Cable Connector</b>	USB type C
	<b>Connector</b>	C6
	<b>Operating temperature</b>	0° to 35° C (32° to 95° F)
	<b>Non-operating (storage) temperature</b>	-20° to 85° C (-4° to 185° F)
	<b>Altitude</b>	0 to 5,000 m (0 to 16,400 ft)
	<b>Humidity</b>	20% to 95%
	<b>Storage Humidity</b>	10% to 95%
	<b>EMI and Safety Certifications</b>	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)
<b>HP 140W Slim USB Type-C® AC power adapter</b>	<b>Weight</b>	415 g ± 10 g
	<b>Input</b>	100 - 240 VAC
	<b>Input Efficiency</b>	81.50% min at 115 Vac/ 230 Vac @5.00V 86.70% min at 115 Vac/ 230 Vac @9.00V 88.00% min at 115 Vac/ 230 Vac @12.00V 89.00% min at 115 Vac/ 230 Vac @15.00V 89.00% min at 115 Vac/ 230 Vac @20.00V 89.00% min at 115 Vac/ 230 Vac @28.00V



<b>Input frequency range</b>	47 ~ 63 Hz
<b>Input AC current</b>	Max. 2.5 A at 90 Vac
<b>Output power</b>	5V/15W 9V/27W 12V/60W 15V/75W 20V/100W 28V/140W
<b>DC output</b>	5V/9V/12V/15V/20V/28V
<b>Hold-up time</b>	100% load 5ms at 115 Vac input/80% load 10ms at 115 Vac input
<b>Output current limit</b>	5V/9V/12V/15V/20V<125% max current, 28V<135% max current
<b>AC Inlet Type</b>	C6
<b>DC Cable Connector</b>	USB type C
<b>Connector</b>	C6
<b>Operating temperature</b>	0° to 35° C (32° to 95° F)
<b>Non-operating (storage) temperature</b>	-20° to 85° C (-4° to 185° F)
<b>Altitude</b>	0 to 5,000 m(0 to 16,400 ft)
<b>Humidity</b>	20% to 95%
<b>Storage Humidity</b>	10% to 95%
<b>EMI and Safety Certifications</b>	CE Mark - full compliance with LVD and EMC directives Worldwide safety standards - IEC60950-1, IEC 62368-1:2014 and IEC62368-1 : 2018, EN62368-1:2020+A11, UL 62368-1 Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC, CU(EAC), KCC(Safety+EMC), NOM-001 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC, Ukraine(CoC+DoC+RoHS+ECO)

**HP XL-Long Life 4 cell, 74.5Whr Polymer<sup>1</sup>**

<b>Weight</b>	275 ± 10 g
<b>Cells/Type</b>	4 cell Li-ion Polymer cell / 686557
<b>Energy<sup>1</sup></b>	
Voltage	15.52V
Amp-hour capacity	4.8 Ah
Watt-hour capacity	74.5 Wh
<b>Temperature</b>	
Operating (Charging)	0° to 50° C
Operating (Discharging)	-10° to 65° C
Optional Travel Battery	No
Available	

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



### AUDIO

**Codec**

Realtek ALC3315

**Audio I/O Ports**

combo microphone/headphone jack

**Internal Speaker Amplifier**

Cirrus smart amp

**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; 44.1 kHz to 192.0 kHz

ADC: Supports resolutions from 16-bit to 24-bit; 44.1 kHz to 192.0 kHz

**Wavetable Syntheses**

Yes - Uses OS soft wavetable

**# of Channels on Line-Out**

Stereo (Left & Right channels)

**Internal Speaker**

Yes

### 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

### OPTIONS

Category	Description	Part Number
<b>Adapter</b>	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
<b>Adapters - Poly</b>	HP MDA500 USB-C to USB-A Cable	85R48AA
	HP MDA500 USB-C to USB-C Cable	85R50AA
	HP PLY MDA220 USB-A	8A7E0AA
	HP Poly MDA500 to Digital Headset Cable	85R46AA
	HP Poly MDA524 QD USB-A Processor	8L544AA
	HP Poly MDA526 QD USB-A Processor	8L547AA
	HP Poly Savi Office PC Connection Cable - USB-A	85R54AA
	HP Poly Savi Office S2 Telephone Cable	85R55AA
	HP Poly Savi Office Telephone Cable	85R57AA
	HP Poly Savi UC D400 DECT Adapter	85T34AA
	HP Poly Savi UC D400 DECT1920-1930 MHz Dongle	85T33AA
	HP Poly Voyager Free 60 UC Audio Cable	8L5A5AA
	HP POLY Voyager Surround 80/85 UC USB-C to USB-C Charging Cable	9C6M3AA
	HP Voyager Free 60 USB-C Charging Cable	8L5A4AA
	HP Voyager Free 60 USB-C to USB-A Charging Cable	8L5A3AA
	POLY Blackwire 5200 Y Training Cable	85S08AA
	Poly Busy Light (Straight Plug)	85R52AA
	POLY MDA100 RJ9 Cable	85R42AA
	Poly MDA524 QD Audio Processor USB-C	85Q24AA
	Poly MDA526 QD Audio Processor USB-C	85Q27AA
	Poly Savi APA-24 - Electronic hook switch adapter for desk phone - for Poly APA-24	9T5V5AA
	Poly Savi D400 UC DECT 1880-1890 MHz Dongle	8J8V9AA
	Poly Savi D400 UC DECT 1880-1900 MHz Dongle	8J8V7AA
	Poly Savi D400 UC DECT 1893-1906 MHz Dongle	8J8V6AA
	Poly Savi D400 UC DECT 1910-1920 MHz Dongle	8J8V8AA
	Poly Savi D400 UC Microsoft Teams Certified DECT 1880-1900 MHz Dongle	8J8W1AA
	Poly Savi D400 UC Microsoft Teams Certified DECT 1893-1906 MHz Dongle	8J8W0AA
	Poly Savi D400 UC Microsoft Teams Certified DECT 1910-1920 MHz Dongle	8J8W2AA
	Poly Spare USB Charger for Savi 8240 Series Headsets	85R43AA
	Poly TR-11 EHS Analog Adapter Cable	85R84AA
	Poly Voyager Surround 80/85 UC 3.5mm Audio Adapter Cable	9C6M4AA
	Poly Y-Splitter Training Cable	85S07AA



<b>Audio - Headset</b>	Poly Voyager 4320 USB-C Headset	76U50AA
	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 Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Batch 2	8X216AA
	Poly Blackwire 3310 Monaural USB-C Headset +USB-C/A Adapter Batch 2	8X215AA
	Poly Blackwire 3315 Monaural Microsoft Teams Certified USB-C Headset +3.5mmPlug+USB-C/AAdapterBatch2	8X218AA
	Poly Blackwire 3315 Monaural USB-C Headset +3.5mm Plug +USB-C/A Adapter Batch 2	8X217AA
	Poly Blackwire 3320 Stereo Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Batch 2	8X220AA
	Poly Blackwire 3320 Stereo USB-C Headset +USB-C/A Adapter Batch 2	8X219AA
	Poly Blackwire 5220 Stereo USB-C Headset	8X231AA
	Poly Blackwire 8225 Stereo Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Batch 2	8X225AA
	Poly Blackwire 8225 Stereo USB-C Headset +USB-C/A Adapter Batch 2	8X223AA
	Poly EncorePro 510 Monaural Headset	783Q2AA
	Poly EncorePro 520 Binaural Headset	783P7AA
	Poly EncorePro 530 Headset	783P3AA
	Poly EncorePro 540 Convertible Headset	783P1AA
	Poly EncorePro 710 with Quick Disconnect Monoaural Headset (for EMEA) Batch 1	783N9AA
	Poly EncorePro 710 with Quick Disconnect Monoaural Headset Batch 1	783M8AA
	Poly EncorePro 720 Binaural Headset +Quick Disconnect	8R707AA
	Poly EncorePro 720 with Quick Disconnect Binaural Headset Batch 1	783M7AA
	Poly EncorePro 515 Microsoft Teams Certified Monoaural with USB-A Headset Batch 1	783R1AA
	Poly EncorePro 515 Monoaural with USB-A Headset Batch 1	783R0AA
	Poly EncorePro Stereo 525 with USB-A Headset	783R2AA
	Poly EncorePro USB-A Stereo 525 Headset	783R3AA
	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 UC Monaural DECT 1880-1900 MHz Headset	8L561AA
	Poly Savi 7310 UC Monaural Microsoft Teams Certified DECT 1880-1900 MHz Headset	8L575AA
	Poly Savi 7310 Monaural DECT 1880-1900 MHz Top	8Y9B6AA
	Poly Savi 7310 Monaural Microsoft Teams Certified DECT 1880-1900 MHz Top	8Y9B8AA
	Poly Savi 7320 Stereo Microsoft Teams Certified DECT 1880-1900 MHz Top	8Y9B9AA
	Poly Savi 7310 UC Monaural DECT 1893-1906 MHz Headset	8L565AA
	Poly Savi 7310 UC Monaural Microsoft Teams Certified DECT 1893-1906 MHz Headset	8L578AA
	Poly Savi 7310 Monaural DECT 1893-1906 MHz Top	9X3J2AA
	Poly Savi 7310 Monaural Microsoft Teams Certified DECT 1893-1906 MHz Top	9V8Z7AA
	Poly Savi 7310 Monaural DECT 1910-1920 MHz Headset	8L566AA
	Poly Savi 7310 Office Monaural DECT 1920-1930 MHz Headset Batch 2	7S430AA
	Poly Savi 7310 UC Monaural DECT 1920-1930 MHz Headset	8L570AA



Poly Savi 7310 UC Monaural Microsoft Teams Certified DECT 1920-1930 MHz Headset	8L585AA
Poly Savi 7310 Monaural DECT 1920-1930 MHz Top	783N0AA
Poly Savi 7310 Monaural Microsoft Teams Certified DECT 1920-1930 MHz Top	783N2AA
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 DECT Headset	77T39AA
Poly Savi 7320 Stereo DECT 1880-1900 MHz Headset	8L553AA
Poly Savi 7320 Office Stereo DECT 1880-1900 MHz Headset	8D3F7AA
Poly Savi 7320 UC Stereo DECT 1880-1900 MHz Headset	8L545AA
Poly Savi 7320 Stereo DECT 1880-1900 MHz Top	8Y9B7AA
Poly Savi 7320 Office Stereo DECT 1893-1906 MHz Headset	8D3F8AA
Poly Savi 7320 UC Stereo DECT 1893-1906 MHz Headset	8L546AA
Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1893-1906 MHz Headset	8L555AA
Poly Savi 7320 Stereo DECT 1893-1906 MHz Top	9V8Z6AA
Poly Savi 7320 Stereo Microsoft Teams Certified DECT 1893-1906 MHz Top	9V8Z8AA
Poly Savi 7320 Office Stereo DECT 1910-1920 MHz Headset	8D3G0AA
Poly Savi 7320 UC Stereo DECT 1910-1920 MHz Headset	8L548AA
Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1910-1920 MHz Headset	8L557AA
Poly Savi 7320 Office Stereo DECT 1920-1930 MHz Headset Batch 2	7S429AA
Poly Savi 7320 UC Stereo DECT 1920-1930 MHz Headset	8L549AA
Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1920-1930 MHz Headset	8L559AA
Poly Savi 7320 Stereo DECT 1920-1930 MHz Top	783N1AA
Poly Savi 7320 Stereo Microsoft Teams Certified DECT 1920-1930 MHz Top	783N3AA
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 Office Monaural DECT 1880-1900 MHz Headset	8L589AA
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT 1880-1900 MHz Headset	8L593AA
Poly Savi 7410 Office Monaural DECT 1893-1906 MHz Headset	8L591AA
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT 1893-1906 MHz Headset	8L594AA
Poly Savi 7410 Office Monaural DECT 1910-1920 MHz Headset	8L592AA
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT 1910-1920 MHz Headset	8L597AA
Poly Savi 7410 Office Monaural DECT 1920-1930 MHz Headset	8L7D5AA
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT 1920-1930 MHz Headset	8L7D7AA
Poly Savi 7420 Office Stereo DECT 1880-1900 MHz Headset	8L560AA
Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1880-1900 MHz Headset	8L574AA
Poly Savi 7420 Office Stereo DECT 1893-1906 MHz Headset	8L563AA
Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1893-1906 MHz Headset	8L576AA
Poly Savi 7310 UC Monaural Microsoft Teams Certified DECT 1910-1920 MHz Headset	8L581AA
Poly Savi 7420 Office Stereo DECT 1910-1920 MHz Headset	8L564AA
Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1910-1920 MHz Headset	8L579AA



Poly Savi 7420 Office Stereo DECT 1920-1930 MHz Headset	8L567AA
Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1920-1930 MHz Headset	8L583AA
Poly Savi 8410 Office Monaural DECT 1880-1900 MHz Headset	8L5A7AA
Poly Savi 8410 Office Monaural Microsoft Teams Certified DECT 1880-1900 MHz Headset	8L5A9AA
Poly Savi 8410 Office Monaural DECT 1920-1930 MHz Headset	8L7E6AA
Poly Savi 8410 Office Monaural Microsoft Teams Certified DECT 1920-1930 MHz Headset	8L7E9AA
Poly Savi 8420 Office Stereo DECT 1880-1900 MHz Headset	8L5B2AA
Poly Savi 8420 Office Stereo Microsoft Teams Certified DECT 1880-1900 MHz Headset	8L5B3AA
Poly Savi 8420 Office Stereo DECT 1920-1930 MHz Headset	8L7F2AA
Poly Savi 8420 Office Stereo Microsoft Teams Certified DECT 1920-1930 MHz Headset	8L7F5AA
Poly Savi 8445 DECT 1880-1890 MHz Convertible Headset	8L5B7AA
Poly Savi 8445 Office DECT 1880-1900 MHz Convertible Headset	8L5B4AA
Poly Savi 8445 Office Microsoft Teams Certified DECT 1880-1900 MHz Convertible Headset	8L5B6AA
Poly Savi 8445 Office DECT 1910-1920 MHz Convertible Headset	8L5B5AA
Poly Savi 8445 Office Microsoft Teams Certified DECT 1910-1920 MHz Convertible Headset	8L5B8AA
Poly Savi 8445 Office DECT 1920-1930 MHz Convertible Headset	8L7F8AA
Poly Savi 8445 Office Microsoft Teams Certified DECT 1920-1930 MHz Convertible Headset	8L7F1AA
Poly Savi DECT 7320 Stereo Headset	77T37AA
Poly Savi DECT Monoaural 7310 Headset	77T38AA
Poly Voyager 4310 Headset	77Y93AA
Poly Voyager 4310 Monaural Headset	77Y92AA
Poly Voyager 4310 Microsoft Teams Certified USB-A Headset +BT700 dongle Batch 1	77Y91AA
Poly Voyager 4310 USB-A Headset +BT700 dongle Batch 1	76U48AA
Poly Voyager 4310 Microsoft Teams Certified USB-C Headset +BT700 dongle Batch 1	77Y95AA
Poly Voyager 4310 USB-C Headset +BT700 dongle +Charging Stand Batch 1	77Y96AA
Poly Voyager 4310 USB-C Headset +BT700 dongle Batch 1	77Y94AA
Poly Voyager 4310-M Headset	7Y210AA
Poly Voyager 4310-M USB-C Headset	77Y97AA
Poly Voyager 4320 Headset	77Z00AA
Poly Voyager 4320 Stereo USB-A Headset	77Y99AA
Poly Voyager 4320 Microsoft Teams Certified USB-A Headset +BT700 dongle Batch 1	77Y98AA
Poly Voyager 4320 USB-A Headset +BT700 dongle Batch 1	76U49AA
Poly Voyager 4320 Microsoft Teams Certified USB-C Headset +BT700 dongle Batch 1	77Z30AA
Poly Voyager 4320 USB-C Headset +BT700 dongle +Charging Stand Batch 1	77Z31AA
Poly Voyager 4320-M	7Y211AA
Poly Voyager 4320-M Headset	77Z32AA
Poly Voyager Focus 2 Headset	7S4L6AA
Poly Voyager Focus 2 Microsoft Teams Certified USB-C-C Headset +USB-C/A Adapter +Charging Stand (Tactical 6316)	9T9J6AA
Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter (Tactical 6316)	9T9J3AA
Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter +Charging Stand (Tactical 6316)	9T9J5AA
Poly Voyager Surround 80 USB-C Black Headset	9D452AA
Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Batch 2	8G7U0AA



Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Demo	9C6W5AA
Poly Voyager Surround 80 UC USB-C Headset +USB-C/A Adapter Batch 2	8G7T9AA
Poly Voyager Surround 85 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter +Charging Stand Batch 2	8G7T8AA
Poly Voyager Surround 85 UC USB-C Headset +USB-C/A Adapter +Charging Stand Batch 2	8G7T7AA
<b>Audio - Earbuds</b>	
Poly Voyager Free 60 Black Earbuds	7Y8M0AA
Poly Voyager Free 60 Carbon Black Earbuds +Basic Charge Case	7Y8M2AA
Poly Voyager Free 60 UC Carbon Black Earbuds +BT700 USB-A Adapter +Basic Charge Case	7Y8H3AA
Poly Voyager Free 60 UC Carbon Black Earbuds +BT700 USB-C Adapter +Basic Charge Case	7Y8H4AA
Poly Voyager Free 60 UC M Carbon Black Earbuds +BT700 USB-A Adapter +Basic Charge Case	7Y8L7AA
Poly Voyager Free 60 UC M Carbon Black Earbuds +BT700 USB-C Adapter +Basic Charge Case	7Y8L8AA
Poly Voyager Free 60 UC M White Sand Earbuds +BT700 USB-A Adapter +Basic Charge Case	7Y8L5AA
Poly Voyager Free 60 UC M White Sand Earbuds +BT700 USB-C Adapter +Basic Charge Case	7Y8L6AA
Poly Voyager Free 60 UC White Sand Earbuds +BT700 USB-A Adapter +Basic Charge Case	7Y8L3AA
Poly Voyager Free 60 UC White Sand Earbuds +BT700 USB-C Adapter +Basic Charge Case	7Y8L4AA
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+ UC Carbon Black Earbuds +BT700 USB-A Adapter +Touchscreen Charge Case	7Y8G3AA
Poly Voyager Free 60+ UC Carbon Black Earbuds +BT700 USB-C Adapter +Touchscreen Charge Case	7Y8G4AA
Poly Voyager Free 60+ UC M Carbon Black Earbuds +BT700 USB-A Adapter +Touchscreen Charge Case	7Y8G9AA
Poly Voyager Free 60+ UC M Carbon Black Earbuds +BT700 USB-C Adapter +Touchscreen Charge Case	7Y8H0AA
Poly Voyager Free 60+ UC M White Sand Earbuds +BT700 USB-A Adapter +Touchscreen Charge Case	7Y8G7AA
Poly Voyager Free 60+ UC M White Sand Earbuds +BT700 USB-C Adapter +Touchscreen Charge Case	7Y8G8AA
Poly Voyager Free 60+ UC White Sand Earbuds +BT700 USB-A Adapter +Touchscreen Charge Case	7Y8G5AA
Poly Voyager Free 60+ UC White Sand Earbuds +BT700 USB-C Adapter +Touchscreen Charge Case	7Y8G6AA
Poly Voyager Free 20 Black Earbuds +Basic Charge Case Customer Special 1	946C4AA
Poly Voyager Free 20 Black Earbuds +Basic Charge Case CAN/ENG	946C3AA
Poly Voyager Free 20 Black Earbuds +Basic Charge Case WW	946C3AA
Poly Voyager Free 20 Gray Earbuds +Basic Charge Case Customer Special 1	945Y5AA
Poly Voyager Free 20 Gray Earbuds +Basic Charge Case CAN/ENG	946C5AA
Poly Voyager Free 20 Gray Earbuds +Basic Charge Case WW	946C5AA

<b>Audio - Speaker Phone</b>	Poly Sync 10 Microsoft Teams Certified USB-A Speakerphone	77P34AA
	Poly Sync 10 Speakerphone +USB-A to USB-C Cable Batch 2	7S4M6AA
	Poly Sync 20 USB-C Speakerphone	7F0J7AA
	Poly Sync 20+M Speakerphone	7Y215AA
	Poly Sync 20-M Speakerphone	7S4M1AA
	Poly Sync 20-M Microsoft Teams Certified USB-C Speakerphone Batch 1	7F0J8AA
	Poly Sync 20-M Microsoft Teams Certified USB-C Speakerphone Customer Special 1	8G0X6AA
	Poly Sync 40 Speakerphone	77P35AA
	Poly Sync 40+ Speakerphone	8G0X3AA
	Poly Sync 40+ Microsoft Teams Certified USB-A USB-C Speakerphone +BT700 USB-A Adapter	77P36AA
	Poly Sync 40+ USB-A USB-C Speakerphone +BT700 USB-A Adapter	772C5AA
	Poly Sync 60 Microsoft Teams Certified Speakerphone Batch 1	77P41AA
	Poly Sync 60 Speakerphone	772C2AA
	Poly Sync 20 Microsoft Teams Certified USB-A Speakerphone	772C8AA
	Poly Sync 20 USB-A Speakerphone	772D2AA
	Poly Sync 20+ Microsoft Teams Certified USB-A Speakerphone Batch 1	772C9AA
	Poly Sync 20+ USB-A Speakerphone Batch 1	772C6AA
	Poly Sync USB-A USB-C 10 Speakerphone	772C3AA
	Poly Sync USB-A USB-C 40 Speakerphone	772C4AA
	Poly Sync 20+ Microsoft Teams Certified USB-C Speakerphone Batch 1	772D1AA
	Poly Sync 20+ USB-C Speakerphone Batch 1	772D0AA
<b>Cases</b>	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 Renew Business 17.3 Laptop Backpack	3E2U5AA
	HP Renew Business 17.3 Laptop Bag	3E2U6AA
	HP Renew Executive 16 Laptop Backpack	6B8Y1AA
	HP Renew Executive 16 Laptop Bag	6B8Y2AA
<b>Commodity</b>	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



<b>Docking</b>	HP Thunderbolt™ 120W G4 Dock HP Thunderbolt™ 280W G4 Dock w/Combo Cable HP USB-C™ 120W G5 Dock	4J0A2AA 4J0G4AA 5TW10AA
<b>Hub</b>	HP USB-C to USB-A Hub	Z6A00AA
<b>Keyboard</b>	HP 125 Wired Keyboard HP 320K USB Wired Keyboard HP 685 Comfort Dual-Mode Keyboard HP 725 Multi-Device Rechargeable Wireless Keyboard HP 965 black Ergonomic Wireless Keyboard HP 975 Dual-Mode USB+Bluetooth Wireless Keyboard	266C9AA 9SR37AA 8T6L9AA 9T5B2AA 7E756AA 3Z726AA
<b>Mouse</b>	HP 105 Mouse Pad HP 125 Wired Mouse HP 128 Laser Wired Mouse HP 205 Desk Mat HP 320M Wired Mouse HP 515 Ultra-Fast Rechargeable Wireless Mouse HP 685 Comfort Dual-Mode Mouse HP 695 Qi-Charging Wireless Mouse HP 715 Rechargeable Multi-Device Bluetooth Mouse HP 925 Ergonomic Vertical Wireless Mouse HP Creator Black 935 Wireless Mouse HP Multi-Device Black 635 Wireless Mouse	8X595AA 265A9AA 265D9AA 8X597AA 9VA80AA 9C2F7AA 8T6M0AA 8F1Y4AA 6E6F0AA 6H1A5AA 1D0K8AA 1D0K2AA
<b>Keyboard &amp; Mouse Combo</b>	HP 225 Wired Mouse and Keyboard Combo HP 225 Wired Mouse and Keyboard Combo HP 655 Wireless Keyboard and Mouse Combo HP Wired Desktop 320MK Mouse and Keyboard	286J4AA 86J24AA 860P8AA 95R36AA
<b>Power</b>	HP 110W USB-C Laptop Charger	8B3Y2AA



### CHANGELOG

Date of change	Version History	Description of change
January 9, 2025	V1 to V2	Added Environmental Section
January 15, 2025	V2 to V3	Updated System unit Section Storage Section
January 20, 2025	V3 to V4	Updated Weight and Dimensions Section
February 17, 2025	V4 to V5	Updated Weight Section Graphics Section
April 2, 2025	V5 to V6	Updated Processor Section
April 25, 2025	V6 to V7	Updated Battery Life Section

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