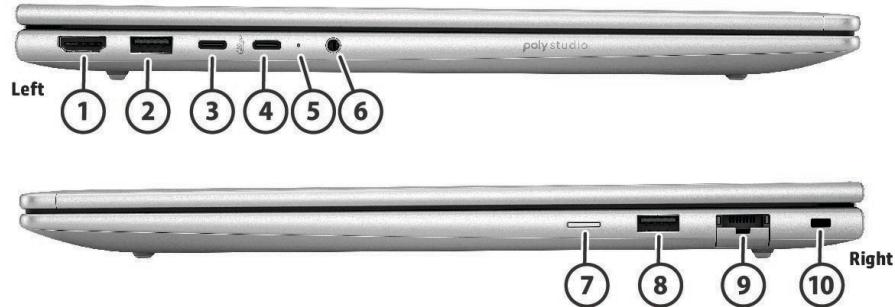


### HP ProBook 4 G1iR 16 inch Notebook PC



#### Front

1	Internal Microphone (2)	4	Camera Shutter
2	Webcam LED	5	Touchpad
3	WebCam		



### Sides

1	HDMI 2.1	7	Nano SIM card slot (Optional)
2	USB Type-A 5Gbps signaling rate (Powered)	8	USB Type-A 5Gbps signaling rate (Powered)
3	USB Type-C® 20Gbps signaling rate (USB Power Delivery 3.0, DisplayPort™ 1.4) <sup>1</sup>	9	RJ45 Ethernet port
4	USB Type-C® 20Gbps signaling rate (USB Power Delivery 3.0, DisplayPort™ 1.4) <sup>1</sup>	10	Security lock slot (Integrated)
5	Power Indicator LED		
6	Headphone/mic combo jack		

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

### PRODUCT NAME

HP ProBook 4 G1iR 16 inch Notebook PC

### OPERATING SYSTEM

FreeDOS

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

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

Windows 11 Pro <sup>1</sup>

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

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

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

### PROCESSORS

Processor <sup>2,3,4,5</sup>	Cores	Number of P-cores	Number of E-cores	Number of LP E-cores	Threads	L3 Cache	Max Turbo Frequency		Intel SIPP	Integrated Graphics	NPU
							P-cores	E-cores			
Intel® Core™ i5 - processor 1334U	10 cores	2	8	N/A	12	12 MB	4.60 GHz	3.40 GHz		Intel® Iris® Xe Graphics	N/A
Intel® Core™ 7 - processor 240H*	10 cores	6	4	N/A	20	24 MB	5.20 GHz	4.00 GHz		Intel® Graphics	N/A
Intel® Core™ 5 - processor 210H*	8 cores	4	4	N/A	16	12 MB	4.80 GHz	3.60 GHz		Intel® Graphics	N/A
Intel® Core™ 7 - processor 150U	10 cores	2	8	N/A	12	12 MB	5.40 GHz	4.00 GHz		Intel® Graphics	N/A
Intel® Core™ 5 - processor 220U	10 cores	2	8	N/A	12	12 MB	5.00 GHz	3.80 GHz	X	Intel® Graphics	N/A
Intel® Core™ 5 - processor 120U	10 cores	2	8	N/A	12	12 MB	5.00 GHz	3.80 GHz		Intel® Graphics	N/A
Intel® Core™ 3 - processor 100U	6 cores	2	4	N/A	8	10 MB	4.70 GHz	3.30 GHz		Intel® Iris® Xe Graphics	N/A



### Processor Family

Intel® Core™ i5 - processor

Intel® Core™ 7 - processor

Intel® Core™ 5 - processor

Intel® Core™ 3 - processor

\*. Availability may vary by country

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

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

4. Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third party software may have specific configuration or compatibility requirements. Potential NPU inferencing performance varies by use, configuration, and other factors.

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

### GRAPHICS

#### Integrated

Intel® Graphics

#### Supported Protocols

HDMI 2.1

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

Up to 4

### DISPLAY

#### Non-Touch

40.6 cm (16") diagonal, 2.5K (2560 x 1600), LCD, 60Hz (VRR), UWVA, Anti-Glare, Low Blue Light, 400 nits, sRGB 100% <sup>6</sup>

40.6 cm (16") diagonal, 2.5K (2560 x 1600), LCD, UWVA, 120Hz (VRR), Anti-Glare, WLED + Low Blue Light, 400 nits, DCI-P3 100% + Adobe 100% <sup>6</sup>

40.6 cm (16") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, WLED+Low Blue Light, 400 nits, Low Power, sRGB 100% <sup>6</sup>

40.6 cm (16") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, WLED, 300 nits, sRGB 62.5% <sup>6</sup>

#### Touch

40.6 cm (16") diagonal, WUXGA (1920 x 1200), LCD, Touch, UWVA, Anti-Glare, WLED, 300 nits, sRGB 62.5% <sup>6</sup>

#### Display Size (Diagonal)

40.6 cm (16")

#### Screen to Body Ratio

90.60% <sup>7</sup>

#### Aspect Ratio

16:10 <sup>8</sup>

#### Max Hinge Open Angle

177±3°

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

7. Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk.

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

### DOCKING (SOLD SEPARATELY)

**Docking station model #1**

HP Thunderbolt 4 100W G6 Dock

**Total number of supported displays (incl. the notebook display)**

4

**Max. resolutions supported**

(4) 4K @60Hz\*

(2) 4K @ 120Hz\*

(3) QHD @ 120Hz\*

(1) QHD @ 360Hz\*

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

**Dock Connectors**

No

**HP Quick Connect Support**

HP Quick Connect not supported on this platform.

\*Requires DisplayPort 1.4 support with Display Stream Compression (DSC).

Bluetooth required for HP Quick Connect. HP Quick Connect available on select HP notebooks.

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

**Thunderbolt Hosts:**

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

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

**Non-Thunderbolt hosts:**

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

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

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

**Docking station model #2**

HP USB-C™ Dock G5

**Total number of supported displays (incl. the notebook display)**

3

**Max. resolutions supported**

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

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

**Dock Connectors**

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

**Technical limitations**

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

**Docking station model #3**

**Total number of supported displays (incl. the notebook)  
display)**

**Max. resolutions supported**

**Dock Connectors**

**Technical limitations**

UHD@ 30 Hz on HDMI in Multi-function mode

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

HP Thunderbolt™ 120W G4 Dock

4

Quad 4K @60Hz

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

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

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

**Thunderbolt Hosts:**

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

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

**Non-Thunderbolt hosts:**

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

### STORAGE AND DRIVES

#### Primary Storage

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

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

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

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

### MEMORY

#### Maximum Memory

48GB DDR5-5600 MT/s (2 x 24 GB)

#### Memory

48GB DDR5-5600 MT/s (2 x 24 GB)

32GB DDR5-5600 MT/s (2 x 16 GB)

24GB DDR5-5600 MT/s (1 x 24 GB)

24GB DDR5-5600 MT/s (2 x 12 GB)

16GB DDR5-5600 MT/s (1 x 16 GB)

16GB DDR5-5600 MT/s (2 x 8 GB)

8GB DDR5-5600 MT/s (1 x 8 GB)

#### Memory Slots

2 SODIMM

System runs at 5200 MT/s <sup>10</sup> (The processor 240H supports memory speed at 5600 MT/s)

Slots are accessible/upgradeable by IT or self-maintainers only

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

### NETWORKING /COMMUNICATIONS

Items below may be optional.

#### Ethernet

RTK GBE Ethernet Controller<sup>11</sup>

#### WLAN

Intel® AX211 Wi-Fi 6E Bluetooth® 5.3 non-vPro® WW WLAN<sup>12</sup>

Mediatek RZ616 Wi-Fi 6E Bluetooth® 5.3 AIM-T WLAN<sup>12</sup>

#### Miracast

Native Miracast Support

11. The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

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

### AUDIO/MULTIMEDIA

Privacy panel is only available on select models.

#### Audio

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

#### Speaker Power

2W / 4 ohm per speaker

#### Camera

5MP+Infrared camera  
FHD camera

#### Sensors

Fingerprint Sensor (optional)  
Hall Effect Sensor  
HP Sure Platform  
HP Tamper Lock <sup>13</sup>  
Thermal Sensor

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

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

#### Keyboard

HP Standard Notebook Keyboard with numeric keypad, spill-resistant.

HP Standard Notebook Keyboard with numeric keypad, spill-resistant, backlit, Durakey 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 or SureView On/Off

F3 - Brightness Down

F4 - Brightness Up

F5 - Blank or Keyboard Backlight

F6 - Audio Mute

F7 - Volume Down

F8 - Volume Up

F9 - Mic Mute

F10 - Play and Pause

F11 - Programmable Key

F12 - HOME

Power Button (with LED)

Insert

Delete

End

Microsoft Copilot <sup>14</sup>

#### Hidden Function Keys

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

14. 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/copilotpluspc](https://aka.ms/copilotpluspc).

### SOFTWARE AND SECURITY

#### Application Software

Buy Microsoft Office (Sold Separately)

HP Connection Optimizer

Edge Customization

HP Hotkey Support

HP Mac Address Manager

HP Notifications

HP PC Hardware Diagnostics UEFI

HP PC Hardware Diagnostics Windows

HP Privacy Settings

HP Services Scan <sup>15</sup>

HP Smart Support <sup>16</sup>

HP Support Assistant <sup>17</sup>

myHP

HSA Fusion for Commercial

HSA Telemetry for Commercial

Poly Lens <sup>18</sup>

Poly Camera Pro

#### 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

Windows Hello Enhanced Sign-In Security (ESS)

HP Wolf Security for Business which includes: <sup>26</sup>

HP Sure Admin <sup>27</sup>

HP Sure Click <sup>28</sup>

HP Sure Recover <sup>29</sup>

HP Sure Run <sup>30</sup>

HP Sure Sense <sup>31</sup>

HP Sure Start <sup>32</sup>

HP Tamper Lock



### Security- TPM

Model: STMicro ST33KTPM2X32CKE2

Firmware Version: 9.256

TCG TPM 2.0

FIPS 140-2 Compliant: Yes

Model: Nuvoton NPCT760HACYX

Firmware Version: 7.2.4.0

TCG TPM 2.0

FIPS 140-2 Compliant: Yes

### BIOS

Absolute Persistence Module<sup>33</sup>

Audio Permanent Disable

HP BIOS Recovery

HP Fingerprint Sensor<sup>34</sup>

BIOS Update via Network

HP BIOSphere<sup>35</sup>

HP DriveLock & Automatic DriveLock

HP Secure Erase<sup>36</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: 2.7b

HP BIOS UEFI Specification Level version 2.9 supported with BIOS update

### Class: 3

15. HP Services Scan is preinstalled and/or provided thru Windows Update and checks for service entitlement on each hardware device and downloads the applicable software agent automatically. To disable this feature, please follow the instructions at

<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. HP follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access with connection to the HP Insights agent is required. For full system requirements, please visit <http://www.hpdaas.com/requirements>. 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 [www.support.hp.com/help/hp-support-assistant](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 (<https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools>).

21. HP Cloud Recovery is available for Z by HP, HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: <https://support.hp.com/us-en/computer>.

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

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

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

25. HP Power Manager with Battery Health can be downloaded by entering your system information here: [https://support.hp.com/in-en/document/ish\\_4449597-3519507-16](https://support.hp.com/in-en/document/ish_4449597-3519507-16).

26. HP Wolf Security for Business requires Windows 10 or 11 Pro or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features.

27. HP Sure Admin requires HP G8 or newer platforms, Windows 10 or higher, HP BIOS, HP Manageability Kit or KMS Service from <http://www.hp.com/go/clientmanagement> and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.

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

29. HP Sure Recover is available on select HP PCs and requires Windows 10 or 11 and an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. HP Sure Recover Gen6 with Embedded Reimaging is an optional feature on select HP PCs which requires Windows 10 or 11 must be configured at purchase. You must back up important files, data, photos, videos, etc. before use to avoid loss of data.

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

31. HP Sure Sense requires Windows 10 and higher. See product specifications for availability. On units with WWAN shipping to China, HP Sure Sense is only available via Softpaq download.

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

33. 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>.

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

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

36. 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 65W Standard USB Type-C® AC power adapter

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

HP 45W Standard USB Type-C® AC power adapter

#### Power Cord

3-wired plug- 1.0m<sup>37</sup>

#### Battery

HP Long Life 3 cell, 56Whr Polymer

HP Long Life 3 cell, 48Whr Polymer

#### Battery Recharge Time

Supports battery HP Fast Charge: approximately 50% in 30 minutes<sup>38</sup>

#### Battery life

Up to 12 hours 45 minutes with 56 Whr battery (Intel Core 7 U15, UMA graphic, brightness set to 250nits on a WUXGA 400nits LCD display, 2 x 8GB DDR5 memory, 256 GB SSD) Up to 12 hours with 56 Whr battery (Intel Core 7 H45, UMA graphic, brightness set to 250nits on a WUXGA 400nits LCD display, 2 x 8GB DDR5 memory, 256 GB SSD)<sup>39</sup>

37. Only available for selected regions and selected configurations.

38. 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.

39. 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 1.748 kg (3.86 lb) with 56.00 Wh battery

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

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

359.40 mm (W) x 251.00 mm (D) x 10.90 mm (front) / 17.00 mm (rear) (14.15 in (W) x 9.88 in (D) x 0.43 in (front) / 0.67 in (rear))

Maximum height 19.9mm (Plastic); 20.9mm (Metal)

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

#### Packaging and Pallet Dimensions

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

### **PORTS/SLOTS**

#### **Left side**

- 1 x USB Type-A 5Gbps signaling rate (Powered)
- 2 x USB Type-C® 20Gbps signaling rate (USB Power Delivery 3.0, DisplayPort™ 1.4) <sup>40</sup>
- 1 x HDMI 2.1
- 1 x headphone/mic combo jack

#### **Right side**

- 1 x USB Type-A 5Gbps signaling rate (Powered)
- 1 x RJ45 Ethernet port
- 1 x Nano SIM card slot (Optional)
- 1 x Security lock slot (Integrated)

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

### 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>• <a href="#">Product Carbon Footprint</a></li> <li>• At least 50% ocean bound plastic in the system fan and 30% in Speakers<sup>1</sup></li> <li>• At least 25% post-consumer recycled plastic<sup>2</sup></li> <li>• At least 50% 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>	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 (Sort idle)	5.76 W	5.96 W	5.71 W
Normal Operation (Long idle)	N/A	N/A	N/A
Sleep	1.57 W	1.68 W	1.59 W
Off	0.36 W	0.39 W	0.36 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)	20 BTU/hr	20 BTU/hr	20 BTU/hr
Normal Operation (Long idle)	N/A	N/A	N/A
Sleep	5.4 BTU/hr	6 BTU/hr	5.4 BTU/hr
Off	1.2 BTU/hr	1 BTU/hr	1.2 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>WA</sub>d, bels)</b>	<b>Sound Pressure (L<sub>pA</sub>m, decibels)</b>	
Typically Configured – Idle	2.6	14.6	
Fixed Disk – Random writes	2.7	17.8	
Optical Drive – Sequential reads	3.1	28.3	
<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 94.5% recycle-able when properly disposed of at end of life.</li> <li>• </li> </ul>		
<b>Packaging Materials</b>	<b>External:</b>	PAPER/Corrugated	417 g
		WOOD/wood	23 g
		PAPER/paper	15
		PAPER/Molded Pulp	125 g
	<p>The plastic packaging material contains at least 0.0% recycled content.</p> <p>The corrugated paper packaging materials contains at least 46.7% recycled content.</p>		
<b>RoHS Compliance</b>	<p>HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam.</p> <p>We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products.</p> <p>We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the scope of the commitment to include further restricted substances as regulations continue to evolve.</p> <p>To obtain a copy of the HP RoHS Compliance Statement, see <a href="#">HP RoHS position statement</a>.</p>		

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

### SERVICE AND SUPPORT

1-year warranty and 90 day software limited warranty options depending on country. HP Worldwide Limited Warranty for the battery is aligned with the warranty period of the HP Hardware Product. Refer to <http://www.hp.com/support/batterywarranty/> for additional battery information. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: <http://www.hp.com/go/cpc>.<sup>41</sup>

41. 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	20.0V
Average Operating Power	15.000W
Max Operating Power	UMA 25W

#### Temperature

Operating	Operating: 0° to 35° C (32° to 95° F) No sustained direct exposure to sunlight, System performance may be reduced above 32°C (89.6°F)
Non-operating	Non-operating: -20° to 60° C (-4° to 140° F) No sustained direct exposure to sunlight, 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: 3.500 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-Q38C-6
UL 62368-1	Yes
ENERGY STAR®	Yes <sup>42</sup>
FCC/ICES/CISPR/VCCI	Yes
CE MARKING	Yes
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 Gold	Yes <sup>43</sup>
Low Blue Light	Yes
WW RoHS	Yes
CECP	Yes
Medical EMC: IEC 60601-1-2:2014 EN60601-1-2:	Yes

2015

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

43. 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

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

Availability may vary by country

<b>16.0 in WUXGA (1920 x 1200)</b>	<b>Active Area</b>	344.6784 x 215.424 (typ)
<b>Anti-Glare UWVA LED sRGB</b>	<b>Dimensions (W x H)</b>	350.680 x 226.070 (max)
<b>62.5 8bit 300 eDP 1.2 w/o PSR</b>	<b>Weight</b>	390 (max)
<b>60Hz bent LCD Panel</b>	<b>Diagonal Size</b>	16
	<b>Surface Treatment</b>	Anti-Glare
	<b>Touch Enabled</b>	No
	<b>Contrast Ratio</b>	1000:1(typ)
	<b>Refresh Rate</b>	60 (typ)
	<b>Brightness</b>	300 (typ)
	<b>Pixel Resolution - Format</b>	1920 x 1200 (WUXGA)
	<b>Aspect Ratio</b>	16:10
	<b>Backlight</b>	WLED
	<b>Pixel Resolution</b>	RGB
	<b>Color Gamut Coverage</b>	sRGB 62.5%
	<b>Color Depth</b>	8
	<b>Viewing Angle</b>	UWVA 89/89/89/89
	<b>Low Blue Light</b>	No
	<b>Power Consumption</b>	2.7 (max) / 3.4 (max)
<b>16.0 in WUXGA (1920 x 1200)</b>	<b>Active Area</b>	344.680 x 215.420 (typ)
<b>Anti-Glare UWVA LED sRGB</b>	<b>Dimensions (W x H)</b>	350.680 x 226.070 (max)
<b>62.5 8bit 300 TOP eDP 1.2 w/o PSR 60Hz bent LCD Panel</b>	<b>Weight</b>	400 (max)
	<b>Diagonal Size</b>	16
	<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>	300 (typ)
	<b>Pixel Resolution - Format</b>	1920 x 1200 (WUXGA)
	<b>Aspect Ratio</b>	16:10
	<b>Backlight</b>	WLED
	<b>Pixel Resolution</b>	RGB
	<b>Color Gamut Coverage</b>	sRGB 62.5%
	<b>Color Depth</b>	8
	<b>Viewing Angle</b>	UWVA 89/89/89/89
	<b>Low Blue Light</b>	No
	<b>Power Consumption</b>	2.43 (max) / 3.03 (max)
<b>16.0 in WUXGA (1920 x 1200)</b>	<b>Active Area</b>	344.678 x 215.424 (typ)
<b>Anti-Glare UWVA WLED+LBL</b>	<b>Dimensions (W x H)</b>	350.680 x 226.470 (max)
<b>sRGB NB2Y 400 eDP 1.4+PSR2</b>	<b>Weight</b>	330 (max)



<b>Low-Power 100 bent LCD Panel</b>	<b>Diagonal Size</b>	16
	<b>Surface Treatment</b>	Anti-Glare
	<b>Touch Enabled</b>	No
	<b>Contrast Ratio</b>	1000:1(typ)
	<b>Refresh Rate</b>	60 (typ)
	<b>Brightness</b>	400 (typ)
	<b>Pixel Resolution - Format</b>	1920 x 1200 (WUXGA)
	<b>Aspect Ratio</b>	16:10
	<b>Backlight</b>	WLED
	<b>Pixel Resolution</b>	RGB
	<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</b>	1.60 (max)/ 1.95 (max)
<b>16.0 in WQXGA (2560 x 1600)</b>	<b>Active Area</b>	344.6784 x 215.424 (typ)
<b>Anti-Glare UWVA Low Blue</b>	<b>Dimensions (W x H)</b>	349.98 x 224.82 (max)
<b>Light sRGB 100 400 eDP</b>	<b>Weight</b>	330 (max)
<b>1.4+PSR2 60Hz (VRR) bent LCD Panel</b>	<b>Diagonal Size</b>	16
	<b>Surface Treatment</b>	Anti-Glare
	<b>Touch Enabled</b>	No
	<b>Contrast Ratio</b>	1500:1 (typ)
	<b>Refresh Rate</b>	60 (typ)
	<b>Brightness</b>	400 (typ)
	<b>Pixel Resolution - Format</b>	2560 x 1600 (2.5K)
	<b>Aspect Ratio</b>	16:10
	<b>Backlight</b>	WLED
	<b>Pixel Resolution</b>	RGB
	<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</b>	2.82 (max)/3.53 (max)
<b>16.0 inch diagonal, 2.5K (2560 x 1600), LCD, 120Hz (VRR), UWVA, Anti-Glare, WLED+Low Blue Light, 400 nits, Adobe 100% + DCI-P3 100%</b>	<b>Active Area</b>	344.6784x215.424 (typ)
	<b>Dimensions (W x H)</b>	349.98 x 224.82 (max)
	<b>Weight</b>	280 (max)
	<b>Diagonal Size</b>	16
	<b>Surface Treatment</b>	Anti-Glare
	<b>Touch Enabled</b>	No
	<b>Contrast Ratio</b>	2000:1 (typ)
	<b>Refresh Rate</b>	120 (typ)
	<b>Brightness</b>	400 (typ)

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<b>Pixel Resolution - Format</b>	RGB
<b>Aspect Ratio</b>	2560 x 1600 (2.5K)
<b>Backlight</b>	16:10
<b>Pixel Resolution</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</b>	2.5 (max)/ 3.0 (max)

### STORAGE

#### 1 TB PCIe® NVMe™ SSD Value

<b>Form Factor</b>	M.2 2280
<b>Capacity</b>	1TB
<b>NAND Type</b>	Value
<b>Weight</b>	10g(0.02lb)
<b>Interface</b>	PCIe NVMe Gen4X4
<b>Sequential Read</b>	2200 MB/s ±20%
<b>Sequential Write</b>	1600 MB/s ±20%
<b>Logical Blocks</b>	2,000,409,264
<b>Features</b>	Pyrite 2.0; TRIM; L1.2

#### 512 GB PCIe® NVMe™ SSD Value

<b>Form Factor</b>	M.2 2280
<b>Capacity</b>	512 GB
<b>NAND Type</b>	Value
<b>Weight</b>	10g(0.02lb)
<b>Interface</b>	PCIe NVMe Gen4X4
<b>Sequential Read</b>	2200 MB/s ±20%
<b>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

<b>Form Factor</b>	M.2 2280
<b>Capacity</b>	256 GB
<b>NAND Type</b>	Value
<b>Weight</b>	10g(0.02lb)
<b>Interface</b>	PCIe NVMe Gen4X4
<b>Sequential Read</b>	2000 MB/s ±20%
<b>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

Items below may be optional.

**Intel® AX211 Wi-Fi 6E**

**Bluetooth® 5.3 WW WLAN<sup>1,2</sup>**

#### Wireless LAN Standards

IEEE 802.11a

IEEE 802.11ac

IEEE 802.11ax

IEEE 802.11b

IEEE 802.11d

IEEE 802.11e

IEEE 802.11g

IEEE 802.11h

IEEE 802.11i

IEEE 802.11k

IEEE 802.11n

IEEE 802.11r

IEEE 802.11v

#### 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

802.11b: 1, 2, 5.5, 11 Mbps

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

#### Modulation

Direct Sequence Spread Spectrum

1024QAM, 16-QAM, 256-QAM, 64-QAM, BPSK, CCK, Direct Sequence

Spread Spectrum, OFDM, QPSK

#### Security

802.1x authentication

AES-CCMP: 128 bit in hardware

IEEE 802.11i

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

WAPI

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

WPA2 certification

WPA3 (personal) certification

#### Network Architecture Models

Ad-hoc (Peer to Peer)



<b>Roaming</b>	Infrastructure (Access Point Required)
<b>Output Power<sup>3</sup></b>	IEEE 802.11 compliant roaming between access points <ul style="list-style-type: none"><li>• 802.11b : +17dBm minimum</li><li>• 802.11g : +16dBm minimum</li><li>• 802.11a : +17dBm minimum</li><li>• 802.11n HT20(2.4GHz) : +14dBm minimum</li><li>• 802.11n HT40(2.4GHz) : +13dBm minimum</li><li>• 802.11n HT20(5GHz) : +14dBm minimum</li><li>• 802.11n HT40(5GHz) : +13dBm minimum</li><li>• 802.11ac VHT80(5GHz) : +10dBm minimum</li><li>• 802.11ac VHT160(5GHz) : +10dBm minimum</li><li>• 802.11ax HE40(2.4GHz) : +12dBm minimum</li><li>• 802.11ax HE80(5GHz) : +10dBm minimum</li><li>• 802.11ax HE160(5GHz) : +10dBm minimum</li></ul>
<b>Power Consumption</b>	Transmit mode : 2.0 W Receive mode : 1.6 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 802.11 compliant power saving mode
<b>Receiver Sensitivity<sup>4</sup></b>	<ul style="list-style-type: none"><li>• 802.11b, 1Mbps : -93.5dBm maximum</li><li>• 802.11b, 11Mbps : -84dBm maximum</li><li>• 802.11a/g, 6Mbps : -86dBm maximum</li><li>• 802.11a/g, 54Mbps : -72dBm maximum</li><li>• 802.11n, MCS07 : -67dBm maximum</li><li>• 802.11n, MCS15 : -64dBm maximum</li><li>• 802.11ac, MCS0(VHT80) : -84dBm maximum</li><li>• 802.11ac, MCS9(VHT80) : -59dBm maximum</li><li>• 802.11ac, MCS9(VHT160) : -58.5dBm maximum</li><li>• 802.11ax, MCS11(HE40) : -57dBm maximum</li><li>• 802.11ax, MCS11(HE80) : -54dBm maximum</li><li>• 802.11ax, MCS11(HE160) : -53.5dBm maximum</li></ul>
<b>Antenna type</b>	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
<b>Dimensions</b>	2.30 x 22.00 x 30.00 mm (0.09 x 0.87 x 1.18 inch)
<b>Weight</b>	Type 2230: 2.8 g
<b>Operating Voltage</b>	3.3 v +/- 9 %
<b>HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Wireless Technology</b>	
<b>Bluetooth Specification</b>	4.0/4.1/4.2/5.0/5.1/5.2/5.3 Compliant

<b>Frequency Band</b>	2402 to 2480 MHz
<b>Number of Available Channels</b>	Legacy : 0~79 (1 MHz/CH) 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>	ACPI and PCI Express compliant power management
<b>Power Management</b>	802.11 compliant power saving mode
<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) Bluetooth 4.1 -ESR 5/6/7 Compliance Bluetooth 4.2 ESR08 Compliance Bluetooth 5.2 Bluetooth 5.3 wireless card Channel Selection Algo Encryption key size control enhancements ESR9/10 Compliance FAX Profile (FAX) Hands Free Profile (HFP) Headset Profile (HSP) LE Advertisement Extensions LE Data Packet Length Extension LE Dual Mode LE L2CAP Connection Oriented Channels LE Link Layer LE Link Layer Ping LE Long Range LE Low Duty Cycle Directed Advertising LE Privacy 1.2 –Extended Scanner Filter Policies LE Privacy 1.2 –Link Layer Privacy LE Secure Connection- Basic/Full Limited High Duty Cycle Non-Connectable Advertising

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

1. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.
2. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately.

<b>Mediatek RZ616 Wi-Fi 6E</b>	<b>Wireless LAN Standards</b>	IEEE 802.11a IEEE 802.11ac IEEE 802.11ax IEEE 802.11b IEEE 802.11d IEEE 802.11e IEEE 802.11g IEEE 802.11h IEEE 802.11i IEEE 802.11j IEEE 802.11k IEEE 802.11mc IEEE 802.11n IEEE 802.11r IEEE 802.11v IEEE 802.11w
<b>Bluetooth® 5.3 AIM-T WLAN<sup>1,2</sup></b>	<b>Interoperability</b>	Wi-Fi certified
	<b>Frequency Band</b>	802.11b/g/n/ax 2.402 – 2.482 GHz 802.11a/n/ac/ax 5.15 – 5.25 GHz 5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz 5.925 – 7.125 GHz
	<b>Data Rates</b>	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 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: MCS 0 ~ MCS 15, (20MHz, 40MHz)
	<b>Modulation</b>	Direct Sequence Spread Spectrum 1024QAM, 16-QAM, 256-QAM, 64-QAM, BPSK, CCK, Direct Sequence Spread Spectrum, OFDM, QPSK
	<b>Security</b>	802.1x authentication

	AES-CCMP: 128 bit in hardware
	IEEE 802.11i
	IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g mode only
	WAPI
	WPA, WPA2: 802.1x, WPA-PSK, WPA2-PSK, TKIP, and AES.
	WPA2 certification
	WPA3 (personal) certification
<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>	2.4GHz (MIMO, typical): <ul style="list-style-type: none"><li>802.11b : +18dBm</li><li>802.11g : +16.5dBm</li><li>802.11n/ac/ax (HT20/VHT20/HE20) : +16dBm</li><li>802.11n/ac/ax (HT40/VHT40/HE40) : +12.5dBm</li></ul>
	5GHz (MIMO, typical): <ul style="list-style-type: none"><li>802.11a : +13dBm</li><li>802.11n/ac/ax (HT20/VHT20/HE20) : +13.5dBm</li><li>802.11n/ac/ax (HT40/VHT40/HE40) : +12.5dBm</li><li>802.11ac/ax (VHT80/HE80) : +11.5dBm</li><li>802.11ax HE160 : +11.5dBm</li></ul>
	6GHz LPI mode (MIMO, typical):: <ul style="list-style-type: none"><li>802.11a : 0dBm</li><li>802.11ax HE20 : +1dBm</li><li>802.11ax HE40 : +4dBm</li><li>802.11ax HE80 : +7dBm</li><li>802.11ax HE160 : +7.5dBm</li></ul>
<b>Power Consumption</b>	Transmit mode : 2.5 W
	Receive mode : 2.0
	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
	802.11 compliant power saving mode
<b>Receiver Sensitivity<sup>4</sup></b>	2.4GHz (SISO): <ul style="list-style-type: none"><li>802.11b, 11Mbps : -82dBm maximum</li><li>802.11g, 54Mbps : -71dBm maximum</li><li>802.11n, MCS7 : -64dBm maximum</li><li>802.11ac, MCS9 : -52dBm maximum</li><li>802.11ax, MCS11(HT40): -49dBm maximum</li></ul>
	5GHz (SISO):

<b>Antenna type</b>	<ul style="list-style-type: none"><li>• 802.11a, 54Mbps : -71dBm maximum</li><li>• 802.11n, MCS7 : -64dBm maximum</li><li>• 802.11ac, MCS9 : -52dBm maximum</li><li>• 802.11ax, MCS11(HE80/HE160): -46dBm maximum</li></ul> <p>6GHz (SISO):</p> <ul style="list-style-type: none"><li>• 802.11a, 54Mbps : -71dBm maximum</li><li>• 802.11n, MCS7 : -64dBm maximum</li><li>• 802.11ac, MCS9 : -52dBm maximum</li><li>• 802.11ax, MCS11(HE160): -46dBm maximum</li></ul>
<b>Form Factor</b>	PCI-Express M.2 MiniCard
<b>Dimensions</b>	30.00 x 22.00 x 2.30 mm (1.18 x 0.87 x 0.09 inch)
<b>Weight</b>	Type 2230: 2.8 g
<b>Operating Voltage</b>	3.3 v +/- 9 %
<b>HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Wireless Technology</b>	
<b>Bluetooth Specification</b>	4.0/4.1/4.2/5.0/5.1/5.2/5.3 Compliant
<b>Frequency Band</b>	2402 to 2480 MHz
<b>Number of Available Channels</b>	Legacy : 0~79 (1 MHz/CH) 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) Bluetooth 4.1 -ESR 5/6/7 Compliance Bluetooth 4.2 ESR08 Compliance Bluetooth 5.2

Bluetooth 5.3 wireless card  
Channel Selection Algo  
Encryption key size control enhancements  
ESR9/10 Compliance  
FAX Profile (FAX)  
Hands Free Profile (HFP)  
Headset Profile (HSP)  
LE Advertisement Extensions  
LE Data Packet Length Extension  
LE Dual Mode  
LE L2CAP Connection Oriented Channels  
LE Link Layer  
LE Link Layer Ping  
LE Long Range  
LE Low Duty Cycle Directed Advertising  
LE Privacy 1.2 –Extended Scanner Filter Policies  
LE Privacy 1.2 –Link Layer Privacy  
LE Secure Connection- Basic/Full  
Limited High Duty Cycle Non-Connectable Advertising  
Periodic Advertisement interval  
Train Nudging & Interlaced Scan  
Windows Bluetooth profiles support

1. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.
2. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately.

<b>RTK GBE Ethernet Controller<sup>1</sup></b>	<b>Connector</b>	RJ-45
	<b>System Interface</b>	PCI (Intel proprietary) + SMBus
	<b>Data rates supported</b>	1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 802.3 clauses 40) 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30) 10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)
	<b>IEEE Compliance</b>	IEEE 802.1p QoS (Quality of Service) Support IEEE 802.1q VLAN support IEEE 802.3az EEE (Energy Efficient Ethernet) IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)
	<b>Performance</b>	TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling

<b>Power consumption</b>	Jumbo Frame 9K Cable Disconnection: 25 mW 100Mbps Full Run: 450 mW 1000Mbps Full Run: 1000 mW
<b>Power Management</b>	WoL Enable(S3/S4/S5): 50 mW WoL Disable(S3/S4/S5): 25 mW ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption
<b>Management Interface</b>	Auto MDI/MDIX Crossover cable detection
<b>IT Manageability</b>	Wake-on-LAN from modern standby or sleep state (Magic Packet and Microsoft Wake-Up Frame) Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite Virtual Cable Doctor for Ethernet cable status

1. The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

### POWER

Power supply availability may vary by country.

<b>AC Adapter 45 Watt nPFC</b>	Weight (DC Cable Included)	180g(+/-10g)
<b>Standard USB type C Straight</b>	Input	100~240VAC
<b>1.8m</b>	Input Efficiency	81.50% min at 115 Vac/ 230 Vac @5.00V 86.70% min at 115 Vac/ 230 Vac @9.00V 87.40% min at 115 Vac/ 230 Vac @12.00V 87.80% min at 115 Vac/ 230 Vac @15.00V
	Input frequency range	47 ~ 63Hz
	Input AC current	Max. 1.4 A at 90 Vac
	<b>Output</b>	
	Output power	5V/15W 9V/27W 12V/36W 15V/45W
	DC output	5V/9V/12V/15V
	Hold-up time	100% load 5ms at 115 Vac input
	Output Over Current Protection	<5.0A
	AC Inlet Type	C6
	DC Cable Connector	USB Type-C
	DC Cable Material	PVC
	<b>Connector</b>	
	Connector	C6
	<b>Environmental Design</b>	
	Operating temperature	32°F to 95°F (0°to 35°C)
	Non-operating (storage) temperature	-4°F to 185°F (-20°to 85°C)
	Altitude	0 to 16,400 ft (0 to 5000m)
	Humidity	20% to 95%
	Storage Humidity	10% to 95%
	EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL62368-1 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, USB-IF, Ukraine(CoC+DoC+RoHS+ECO)
<b>AC Adapter 65 Watt nPFC</b>	Weight (DC Cable Included)	240g ± 10g
<b>Standard USB type C Straight</b>	Input	100~240Vac
<b>1.8m</b>	Input Efficiency	81.50% min at 115 Vac/ 230 Vac @5.00V 86.70% min at 115 Vac/ 230 Vac @9.00V 88.00% min at 115 Vac/ 230 Vac @12.00V



Input frequency range	89.00% min at 115 Vac/ 230 Vac @15.00V
Input AC current	89.00% min at 115 Vac/ 230 Vac @20.00V
<b>Output</b>	47-63Hz
Output power	Max. 1.6 A at 90 Vac
DC output	5V/15W
Hold-up time	9V/27W
Output Over Current Protection	12V/60W
AC Inlet Type	15V/65W
DC Cable Connector	20V/65W
DC Cable Material	5V/9V/12V/15V/20V
<b>Connector</b>	100% load 5ms at 115 Vac input
Connector	< 8.0A
	C6
<b>Environmental Design</b>	USB type C
Operating temperature	PVC
Non-operating (storage) temperature	C6
Altitude	32°F to 95°F (0° to 35°C)
Humidity	-4°F to 185°F (-20° to 85°C)
Storage Humidity	0 to 16,400 ft (0 to 5000m)
EMI and Safety Certifications	20% to 95%
	10% to 95%
	CE Mark - full compliance with LVD and EMC directives
	Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL 62368-1
	Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC

### HP 65W Standard USB-C Straight AC Power Adapter

Weight (DC Cable Included)	240g ± 10g
Input	100-240Vac
Input Efficiency	81.50% min at 115 Vac/ 230 Vac @5.00V
	86.70% min at 115 Vac/ 230 Vac @9.00V
	88.00% min at 115 Vac/ 230 Vac @12.00V
	89.00% min at 115 Vac/ 230 Vac @15.00V
	89.00% min at 115 Vac/ 230 Vac @20.00V
Input frequency range	47-63Hz
Input AC current	Max. 1.6 A at 90 Vac

<b>Output</b>	
Output power	5V/15W
	9V/27W
	12V/60W
	15V/65W
	20V/65W
DC output	5V/9V/12V/15V/20V
Hold-up time	100% load 5ms at 115 Vac input
Output Over Current Protection	< 8.0A
AC Inlet Type	C6
DC Cable Connector	USB type C
DC Cable Material	Halogen Free
<b>Connector</b>	
Connector	C6
<b>Environmental Design</b>	
Operating temperature	0° to 35° C (32° to 95° F)
Non-operating (storage) temperature	-20° to 85° C (-4° to 185° F)
Altitude	0 to 5,000 m (0 to 16,400 ft)
Humidity	20% to 95%
Storage Humidity	10% to 95%
<b>EMI and Safety Certifications</b>	
	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

### Battery

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

#### **RX 48Whr Long Life Polymer**

Weight 0.192kg +/- 10g (0.423 lb)

#### **Fast Charge 3 cell Battery**

Cells/Type 3cell Lithium-Ion Polymer cell / NCM 565875

#### **Energy**

Voltage 11.4V

Amp-hour capacity 4.285Ah

Watt-hour capacity 48.84Wh

#### **Temperature**

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

32° to 122° F (0° to 50° C) (Continuous Charging)

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

Optional Travel Battery No

Available



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<b>RX 56Whr Long Life Polymer</b>	Weight	0.208kg +/- 10g (0.459 lb)
<b>Fast Charge 3 cell Battery</b>	Cells/Type	3cell Lithium-Ion Polymer cell / 586075
<b>Energy</b>		
Voltage	11.58V	
Amp-hour capacity	4.840Ah	
Watt-hour capacity	56.04Wh	
<b>Temperature</b>		
Operating (Charging)	32° to 113° F (0° to 45° C) (Charge Initial Temperature)	
	32° to 122° F (0° to 50° C) (Continuous Charging)	
Operating (Discharging)	14° to 140° F (-10° to 60° C)	
Optional Travel Battery	No	
Available		

### AUDIO

#### Codec

Realtek ALC3247

#### Audio I/O Ports

3.5mm Headset: CTIA only; Headphone-out

#### 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

### FINGERPRINT READER

<b>Sensor vendor</b>	ELAN
<b>Sensor type</b>	Capacitive
<b>DPI resolution</b>	508 DPI
<b>Scan area</b>	80 x 80 pixels
<b>False Rejection Rate</b>	< 3%
<b>False Acceptance Rate</b>	< 0.001%
<b>Mobile Voltage Operation</b>	2.7 V ~ 3.6 V
<b>Operating Temperature</b>	-20°C ~ 80°C (-4°F ~ 176°F)
<b>Current Consumption Image</b>	35 mA max
<b>Low Latency Wait For Finger</b>	300 uA
<b>Capture Rate</b>	50 frames/sec
<b>ESD Resistance</b>	IEC 61000-4-2 4B (+15KV)
<b>Detection Matrix</b>	508 dpi / 4.0 x 4.0 mm sensor area

<b>Sensor vendor</b>	SYNAPTICS
<b>Sensor type</b>	Capacitive
<b>DPI resolution</b>	363 DPI
<b>Scan area</b>	104 x 86 pixels
<b>False Rejection Rate</b>	< 3%
<b>False Acceptance Rate</b>	< 0.001%
<b>Mobile Voltage Operation</b>	2.7 V ~ 3.6 V
<b>Operating Temperature</b>	0°C ~ 60°C (32°F ~ 140°F)
<b>Current Consumption Image</b>	100 mA max
<b>Low Latency Wait For Finger</b>	260 uA
<b>Capture Rate</b>	50 frames/sec
<b>ESD Resistance</b>	IEC 61000-4-2 4B (+15KV)
<b>Detection Matrix</b>	363 dpi / 7.4 x 6.0 mm sensor area

### OPTIONS

Category	Description	Part Number
Adapters	HP HDMI to VGA Adapter	H4F02AA
	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z7Z7AA
	HP USB-C to DisplayPort Adapter G2	8Y8Y1AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to RJ45 Adapter G2	4Z527AA,4Z527UT
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to VGA Adapter	N9K76AA
Audio - Earbuds	Poly Voyager Free 60 UC Carbon Black Earbuds +BT700 USB-C Adapter +Basic Charge Case	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 Carbon Black Earbuds +BT700 USB-C Adapter +Touchscreen Charge Case	7Y8G4AA,7Y8H2AA
	Poly Voyager Free 60+ UC M Carbon Black Earbuds +BT700 USB-C Adapter +Touchscreen Charge Case	7Y8H0AA
Audio - Headset	HP USB G2 Stereo Headset	428K6AA
	Poly Blackwire 3210 Monaural USB-C Headset +USB-C/A Adapter	8X214AA
	Poly Blackwire 3215 Monaural USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X227AA
	Poly Blackwire 3220 Stereo USB-C Headset +USB-C/A Adapter	93S87AA,8X228AA
	Poly Blackwire 3310 Monaural Microsoft Teams Certified USB-C Headset +USB-C/A Adapter	8X216AA
	Poly Blackwire 3310 Monaural USB-C Headset +USB-C/A Adapter	8X215AA
	Poly Blackwire 3315 Monaural Microsoft Teams Certified USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X218AA
	Poly Blackwire 3315 Monaural USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X217AA
	Poly Blackwire 3320 Stereo Microsoft Teams Certified USB-C Headset +USB-C/A Adapter	8X220AA
	Poly Blackwire 3320 Stereo USB-C Headset +USB-C/A Adapter	8X219AA
	Poly Blackwire 3325 Stereo Microsoft Teams Certified USB-C 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 +3.5mm Plug +USB-C/A Adapter	8X231AA,93S88AA
	Poly Blackwire 8225 Stereo Microsoft Teams Certified USB-C Headset +USB-C/A Adapter	8X225AA



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

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

(NA)	
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 (APJ)	8D3H2AA
Poly Savi 8245 Office DECT 1880-1900 MHz USB-A Headset (APJ)	8D3H1AA
Poly Savi 8245 Office DECT 1920-1930 MHz USB-A Headset (NA)	7W6D1AA
Poly Savi 8245-M Microsoft Teams Certified DECT 1880-1900 MHz USB-A Headset +D200 (APJ)	8D3F4AA
Poly Savi 8245-M Office Microsoft Teams Certified DECT 1880-1900 MHz USB-A Headset (APJ)	8D3H7AA
Poly Savi 8245-M Office Microsoft Teams Certified DECT 1920-1930 MHz USB-A Headset (NA)	7W069AA
Poly Savi 8410 Office Monaural DECT 1880-1900 MHz Headset	8L5A7AA

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

	Poly Voyager 4320 USB-A Headset +BT700 dongle	76U49AA
	Poly Voyager 4320 USB-C Headset +BT700 dongle +Charging Stand	77Z31AA
	Poly Voyager 4320 USB-C Headset +BT700 dongle	76U50AA
	Poly Voyager 4320-M +USB-A to USB-C Cable +BT700 dongle	7Y211AA
	Poly Voyager 4320-M Microsoft Teams Certified Headset +BT700 dongle +Charging Stand	77Z32AA
	Poly Voyager Focus 2 Microsoft Teams Certified USB-C-C Headset +USB-C/A Adapter +Charging Stand	9T9J6AA
	Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter	9T9J3AA
	Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter +Charging Stand	9T9J5AA
	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	8H2G3AA,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	8G7T9AA
	Poly Voyager Surround 85 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter +Charging Stand	8G7T8AA
	Poly Voyager Surround 85 UC USB-C Headset +USB-C/A Adapter +Charging Stand	8G7T7AA
Audio - Speaker phone	Poly Sync 10 Microsoft Teams Certified Speakerphone	77P34AA
	Poly Sync 10 Speakerphone +USB-A to USB-C Cable	7S4M6AA
	Poly Sync 10 USB-A USB-C Speakerphone	772C3AA
	Poly Sync 20 Microsoft Teams Certified USB-A Speakerphone	772C8AA
	Poly Sync 20 USB-A Speakerphone	772D2AA
	Poly Sync 20 USB-C Speakerphone	7F0J7AA
	Poly Sync 20+ Microsoft Teams Certified USB-A Speakerphone	772C9AA
	Poly Sync 20+ Microsoft Teams Certified USB-C Speakerphone	772D1AA
	Poly Sync 20+ USB-A Speakerphone	772C6AA
	Poly Sync 20+ USB-C Speakerphone	772D0AA
	Poly Sync 20+M Speakerphone +USB-A to USB-C Cable +BT700 dongle +Pouch	7Y215AA
	Poly Sync 20-M Microsoft Teams Certified USB-C Speakerphone	7F0J8AA
	Poly Sync 20-M Speakerphone +USB-A to USB-C Cable	7S4M1AA
	Poly Sync 40 Microsoft Teams Certified Speakerphone	77P35AA
Camera	Poly Sync 40 USB-A USB-C Speakerphone	772C4AA
	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	77P41AA
	Poly Sync 60 Speakerphone	772C2AA
	HP 435 Webcam	77B10AA

Cases	HP 625 Webcam	6Y7L1AA
	HP USB-A 325 Webcam	53X27AA,53X27UT
	HP Campus XL Marble Stone Backpack	7K0E2AA
	HP Campus XL Tie Dye Backpack	7K0E3AA
	HP Convertible Laptop Stand	9C2H2AA
	HP Everyday 16 odyssey gray Laptop Backpack	A08KLUT
	HP Everyday 16 odyssey gray Laptop Bag	A08KKAA
	HP Everyday 16 odyssey gray Laptop Briefcase	A08KHUT
	HP Renew Business 17.3 Laptop Backpack	3E2U5UT
	HP Renew Business 17.3 Laptop Bag	3E2U6AA
	HP Renew Executive 16 Laptop Backpack	6B8Y1AA,6B8Y1UT
	HP Renew Executive 16 Laptop Bag	6B8Y2AA
	HP Travel Plus 16 Laptop Bag	A2CE1AA
	HP Travel Plus 17 Laptop Backpack	A2CE0AA
Commodity	HP USB DVD-Writer External ODD	F2B56AA
	HP Combination Nano Cable Lock	63B28AA
	HP Essential Combination Nano Cable Lock	63B31AA
	HP Nano Keyed Cable Lock	1AJ39AA
	HP Nano Master Keyed Cable Lock	1AJ40AA
	HP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA
Docking	HP Thunderbolt 4 100W G6 Dock	9X472UT
	HP Thunderbolt 4 Ultra 180W G6 Dock	9X481UT
	HP Thunderbolt 4 Ultra 280W G6 Dock	AW5M5UT
	HP USB-C™ 120W G5 Dock	5TW10AA,5TW10UT
	HP USB-C™ G5 Essential Dock	72C71AA
	HP USB-C™/A 120W G2 Universal Dock	5TW13AA,5TW13UT
	HP Thunderbolt™ 120W G4 Dock	4J0A2AA,4J0A2UT
	HP Thunderbolt™ 280W G4 Dock w/Combo Cable	4J0G4AA,4J0G4UT
Hub	HP 4K USB-C Multiport Hub	6G843AA,6G843UT
	HP Universal USB-C Hub and Laptop Charger Combo	9H0H9AA
	HP Universal USB-C Multiport Hub	50H55UT
	HP USB-C to USB-A Hub	Z6A00AA
Keyboard	HP 4K USB-C Travel Hub G3	86S97AA,86S97UT
	HP 125 G2 Wired Keyboard	AY2Y7AA
	HP 225 Wireless Keyboard	805T1AA,805T1UT
	HP 320K USB Wired Keyboard	9SR37AA,9SR37UT
	HP 355 Compact Multi-Device Keyboard	692S9AA
	HP 405 Multi-Device Backlit Wired Keyboard	7N7C1AA,7N7C1UT
	HP 435 Programmable Wireless Keypad	7N7C3AA
	HP 455 Programmable Wireless Keyboard	4R177AA
	HP 475 Dual-Mode Wireless Keyboard	7N7B9AA,7N7B9UT
	HP 485 Comfort Wired Keyboard	8T6M2AA
	HP 685 Comfort Dual-Mode Keyboard	8T6L9AA,8T6L9UT
	HP 725 Multi-Device Rechargeable Wireless Keyboard	9T5B2AA



Keyboard & Mouse Combo	HP 965 black Ergonomic Wireless Keyboard	7E756AA
	HP 975 Dual-Mode USB+Bluetooth Wireless Keyboard	3Z726AA,3Z726UT
	HP 225 Wired Mouse and Keyboard Combo	AX2Y7AA
	HP 225 Wired Mouse and Keyboard Combo G2 White	AW5S6AA
	HP 235 Wireless Mouse and Keyboard Combo	1Y4D0AA,1Y4D0UT
	HP 655 Wireless Keyboard and Mouse Combo	4R009AA
	HP 655 Wireless Keyboard and Mouse Combo White	860P8AA
	HP 685 Comfort Dual-Mode Keyboard and Mouse Combo	8T6L7UT
	HP 725 Multi-Device Rechargeable Wireless Keyboard and Mouse Combo	9T5B0UT
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA,9SR36UT
Mouse	HP 105 Black Wired Mouse	822M9UT
	HP 105 Mouse Pad	8X595AA
	HP 125 Wired Mouse	265A9UT
	HP 128 Laser Wired Mouse	265D9AA
	HP 205 Desk Mat	8X597AA
	HP 235 Slim Wireless Mouse	4E407UT
	HP 245 Black Bluetooth Mouse	81S67AA,81S67UT
	HP 255 Dual Wireless Mouse	8R3U1AA,8R3U1UT
	HP 285 Silent Wireless Mouse	6G4E6AA
	HP 320M Wired Mouse	9VA80AA
	HP 425 Programmable Wireless Mouse	7M1D5AA
	HP 435 Multi-Device Wireless Mouse	3B4Q5AA,3B4Q5UT
	HP 515 Ultra-Fast Rechargeable Wireless Mouse	9C2F7AA
	HP 685 Comfort Dual-Mode Mouse	8T6M0UT
Power	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
	HP Travel USB Mouse	G1K28AA
	HP 110W USB-C Laptop Charger	8B3Y2UT
	HP 45W LC USB-C AC power adapter	1MZ01AA
	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
May 12, 2025	V1 to V2	Updated	Memory Section
May 26, 2015	V2 to V3	Updated	Docking Section
August 18, 2025	V3 to V4	Updated	Software and Security Section
September 2, 2025	V4 to V5	Updated	Processor Section
September 15, 2025	V5 to V6	Updated	Software and Security Section
October 9, 2025	V6 to V7	Updated	Keyboard Section
October 17, 2025	V7 to V8	Updated	Processor Section

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