## HP ProBook 4 G1iR 14 inch Notebook PC

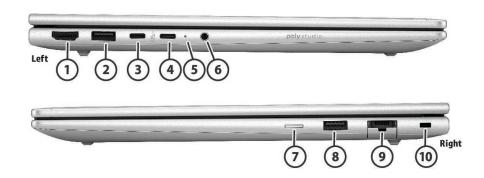


## **Front**

- 1 Internal Microphone (2)
- 2 Webcam LED
- 3 WebCam

- 4 Camera Shutter
- 5 Touchpad





	Si	ides	
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 <sup>®</sup> 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) ¹	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 14 inch Notebook PC

#### **OPERATING SYSTEM**

FreeDOS 1

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

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

Windows 11 Pro 1

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

Windows 11 Pro Education 1

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

#### **PROCESSORS**

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

#### **Processor Family**

Intel® Core™ i5 - processor

Intel<sup>®</sup> Core<sup>™</sup> 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.



## **HP ProBook 4 G1iR 14 inch Notebook PC**

# QuickSpecs

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 <a href="http://intel.com/vpro">http://intel.com/vpro</a>



## **GRAPHICS**

## Integrated

Intel® Graphics

## **Supported Protocols**

**HDMI 2.1** 

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

Up to 4



## **DISPLAY**

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

#### **Non-Touch**

35.6 cm (14") diagonal, 2.2K (2240 x 1400), LCD, 60Hz (VRR), UWVA, Anti-Glare, Low Blue Light, 400 nits, sRGB 100% <sup>6</sup> 35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, WLED + Low Blue Light, 400 nits, Low Power, sRGB 100% <sup>6</sup> 35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, WLED, 300 nits, Low Power, sRGB 62.5% <sup>6</sup>

#### **Touch**

35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, Touch, UWVA, Anti-Glare, WLED, 300 nits, Low Power, sRGB 62.5% 6

#### Display Size (Diagonal)

35.6 cm (14.0")

## **Screen to Body Ratio**

88.80%<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

Total number of supported displays (incl. the

notebook display)

Max. resolutions supported

**Dock Connectors HP Quick Connect Support** 

**Technical limitations** 

HP Thunderbolt 4 100W G6 Dock

(4) 4K @60Hz\*

(2) 4K @ 120Hz\*

(3) QHD @ 120Hz\*

(1) QHD @ 360Hz\*

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

No

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

Total number of supported displays (incl. the

notebook) display)

Max. resolutions supported

**Dock Connectors** 

Technical limitations

HP USB-C™ Dock G5

3

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

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

on HDMI port

1x HDMI 2.0, 2x DisplayPort 1.4

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

the notebook.

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

Three maximum displays supported are two 5K@ 30 Hz on DP ports plus one 4K

UHD@ 30 Hz on HDMI in Multi-function mode



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

Docking station model #3

Total number of supported displays (incl. the notebook)

display)

Max. resolutions supported

Dock Connectors
Technical limitations

HP Thunderbolt™ 120W G4 Dock

4

Quad 4K @60Hz

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

2x HDMI 2.0, 2x DisplayPort 1.4, 1x Thunderbolt 4, 1x USB-C 3.2 Gen 2 DisplayPort Maximum resolution and display support is dependent on the maximum capability of the notebook.

Thunderbolt Hosts:

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

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

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

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

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



## **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)

**Supports Dual Channel Memory** 

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 11

#### **WLAN**

Intel® AX211 Wi-Fi 6E Bluetooth® 5.3 WW WLAN <sup>12</sup> Mediatek RZ616 Wi-Fi 6E Bluetooth® 5.3 AIM-T WLAN <sup>12</sup>

#### Miracast

Native Miracast Support 13

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



## **AUDIO/MULTIMEDIA**

Privacy panel is only available on select models.

## Audio

Audio by Poly Studio
2 Integrated stereo speakers
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>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 Standard Notebook Keyboard spill-resistant, Durakey keyboard. HP Standard Notebook Keyboard 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 15

#### **Hidden Function Keys**

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

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



## **SOFTWARE AND SECURITY**

## **Application Software**

Buy Microsoft Office (Sold Separately)

**Edge Customization** 

**HP Connection Optimizer** 

**HP Hotkey Support** 

**HP Mac Address Manager** 

**HP Notifications** 

**HP PC Hardware Diagnostics UEFI** 

**HP PC Hardware Diagnostics Windows** 

**HP Privacy Settings** 

HP Services Scan 16

HP Smart Support 17

HP Support Assistant 18

myHP

**HSA Fusion for Commercial** 

**HSA Telemetry for Commercial** 

Poly Camera Pro

Poly Lens 19

## **Manageability Features**

HP Client Catalog (download) 20

HP Client Management Script Library (download) 21

HP Cloud Recovery 22

**HP Connect for Microsoft Endpoint Manager** 

HP Driver Packs (download) 23

HP Image Assistant (download) 24

HP Manageability Integration Kit (download) 25

HP Power Manager with Battery Health Manager (download) <sup>26</sup>

#### **Security Management**

Secured-Core PC Enable

Windows Hello Enhanced Sign-In Security (ESS)

HP Wolf Security for Business which includes: <sup>27</sup>

HP Sure Admin 28

HP Sure Click 29

HP Sure Recover 30

HP Sure Run 31

HP Sure Sense 32

HP Sure Start 33

**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>34</sup>
Audio Permanent Disable
HP BIOS Recovery
HP Fingerprint Sensor <sup>35</sup>
BIOS Update via Network
HP BIOSphere <sup>36</sup>
HP DriveLock & Automatic DriveLock
HP Secure Erase <sup>37</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:** 2.8

Class: 3

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

17. 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.

- 18. HP Support Assistant is available on Windows. For more information, please visit www.support.hp.com/help/hp-support-assistant.
- 19. Poly Lens Desktop requires a Windows OS.
- 20. HP Client Catalog not preinstalled, however available for download at (https://www.hp.com/us-en/solutions/client-management-solutions.html).
- 21. HP Client Management Script Library (https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools).
- 22. HP Cloud Recovery is available for Z by HP, HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: https://support.hp.com/us-en/computer.
- 23. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
- 24. HP Image Assistant not preinstalled, however available for download at (https://ftp.ext.hp.com/pub/caps-softpaq/cmit/HPIA.html),
- 25. 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.
- 26. 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.
- 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 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 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/.

- 35. HP Fingerprint Reader is an optional feature that requires Windows 10 or 11 and must be configured at purchase.
- 36. HP BIOSphere features may vary depending on the platform and configuration.
- 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 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 <sup>38</sup>
HP 65W Standard USB Type-C® Halogen Free AC power adapter <sup>38</sup>
HP 45W Standard USB Type-C® AC power adapter <sup>38</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 39

#### **Power Cord**

3-wired plug- 1.0m

#### **Battery life**

Up to 14 hours 15 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 13 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) 40

- 38. Only available for selected regions and selected configurations.
- 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. MobileMark 25 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.



## **WEIGHT & DIMENSIONS**

## **Product Weight**

1. Starting at 1.398 kg (3.09 lb) with 56.00 Wh battery Weight will vary by configuration. Does not include power adapter.

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

318.60 mm (W) x 224.35 mm (D) x 10.90 mm (front)/ 17.00 mm (rear) (12.54 in (W) x 8.83 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<sup>®</sup> 20Gbps signaling rate (USB Power Delivery 3.0, DisplayPort™ 1.4) <sup>41</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)

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



## **ENVIRONMENTAL DATA**

Eco-Label Certifications & declarations  Sustainable Impact Specifications	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:  IT ECO declaration US ENERGY STAR® US Federal Energy Management Program (FEMP) EPEAT® Gold registered in the United States. See http://www.epeat.net for registration status in your country. TCO Certified China Energy Conservation Program (CECP) China State Environmental Protection Administration (SEPA) Taiwan Green Mark Korea Eco-label Japan PC Green label* Product Carbon Footprint At least 50% ocean bound plastic in the system fan and 30% in Speakers¹ At least 50% recycled metal³ Low Halogen⁴					
System Configuration	<ul> <li>100% of HP paper-based packaging is from recycled or certified sustainable sources<sup>5</sup></li> <li>Bulk packaging available</li> <li>The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a "Typically Configured Notebook".</li> </ul>					
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz			
Normal Operation (Sort idle)	6.30 W	6.56 W	6.19 W			
Normal Operation (Long idle)	N/A	N/A	N/A			
Sleep	1.26 W	1.32 W	1.23 W			
Off	0.39 W	0.43 W	0.39 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 applica U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a mode family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.					
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz			
Normal Operation (Short idle)	22 BTU/hr	22 BTU/hr	21 BTU/hr			
Normal Operation (Long idle)	N/A	N/A	N/A			
Sleep	4.3 BTU/hr	5 BTU/hr	4.2 BTU/hr			
Off	1.3 BTU/hr	1 BTU/hr	1.3 BTU/hr			
	* <b>NOTE</b> : Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.					



Declared Noise Emissions	Sound Power Sound Pressur					
(in accordance with		(L <sub>pAm</sub> , decibels	5)			
ISO 7779 and ISO 9296)						
Typically Configured – Idle	2.6 13.0					
Fixed Disk – Random writes						
Optical Drive – Sequential reads		2.7 13.3 3.4 26.9				
Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years.  Upgradeable features and/or components contained in the  Spare parts are available throughout the warranty period and or for up to "5" years afte the end of production.					
Additional Information	<ul> <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 www.epeat.net</li> <li>Plastics parts weighing over 25 grams used in the product are marked per IS011469 and IS01043.</li> </ul>					
Packaging Materials	This product is 96% recycle-able when properly disposed of at end of life.      External: PAPER/Corrugated 288 g					
	W00D/wood			20 g		
		PAPER/Molded Pulp		100 g		
		l ckaging material contains at le d paper packaging materials co		l content		
RoHS Compliance	The corrugated paper packaging materials contains at least 51.7% recycled content.  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.  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.					
	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.					
	To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.					
Material Usage	This product does not contain any of the following substances in excess of regulatory limit (refer to the HP General Specification for the Environment at https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c05998906):					



<ul> <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> </ul>
<ul> <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> </ul>
plastics Cadmium Chlorinated Hydrocarbons Chlorinated Paraffins Bis(2-Ethylhexyl) phthalate (DEHP) Benzyl butyl phthalate (BBP) Dibutyl phthalate (DBP) Diisobutyl phthalate (DIBP) Diisobutyl phthalate (DIBP) Formaldehyde Halogenated Diphenyl Methanes Lead carbonates and sulfates Lead and Lead compounds Mercuric Oxide Batteries Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user. Ozone Depleting Substances Polybrominated Biphenyls (PBBs)
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<ul><li>Ozone Depleting Substances</li><li>Polybrominated Biphenyls (PBBs)</li></ul>
Polybrominated Biphenyls (PBBs)
<ul> <li>Polybrominated Biphenyl Oxides (PBBOs)</li> </ul>
Polychlorinated Biphenyl (PCB)
Polychlorinated Terphenyls (PCT)
<ul> <li>Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging</li> </ul>
has been voluntarily removed from most applications.
Radioactive Substances
Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
ckaging Usage HP follows these guidelines to decrease the environmental impact of product packaging:
Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium
in packaging materials.
Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
Design packaging materials for ease of disassembly.
Maximize the use of post-consumer recycled content materials in packaging
materials.
<ul> <li>Use readily recyclable packaging materials such as paper and corrugated</li> </ul>
materials.
<ul> <li>Reduce size and weight of packages to improve transportation fuel efficiency.</li> </ul>
<ul> <li>Plastic packaging materials are marked according to ISO 11469 and DIN 6120</li> </ul>
standards.
d of life Management and
<b>d-of-life Management and</b> HP offers end-of-life HP product return and recycling programs in many geographic areas.
To recycle your product, please go to:
https://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c05403198 or contact
your nearest HP sales office. Products returned to HP will be recycled, recovered or
disposed of in a responsible manner.
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: HP Product Disassembly Instruction Website. 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.			
HP, Inc. Corporate Environmental Information	Sustainable Impact Report			
footnotes	<ol> <li>Percentage of ocean-bound plastic contained in each component varies by product. Ocean Bound plastic is expressed as a percentage of the total weight plastic. Ocean Bound plastic is based on the definition set by the UL2809 standard.</li> <li>Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT standard for computers, IEEE 1680.1-2018 standard.</li> <li>Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.</li> <li>External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.</li> <li>HP paper and fiber-based packaging for PCs, displays, home and office print, and supplies is reported by suppliers as recycled or certified, with a minimum of 97% by volume verified by HP. Packaging is the box that comes with the product and all paper-based materials inside the box. Packaging for personal systems accessories and spare parts is not included. Plastic cushions are made from &gt;90% recycled plastic.</li> </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 <a href="http://www.hp.com/support/batterywarranty/">http://www.hp.com/support/batterywarranty/</a> for additional battery information. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: <a href="http://www.hp.com/go/cpc">http://www.hp.com/go/cpc</a>. 42

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



## **SYSTEM UNIT**

Stand-Alone Power Requirements (AC Power)

Nominal Operating Voltage 20.0V Average Operating Power 15.000W Max Operating Power UMA 25W

Temperature

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

Shock

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

**Random Vibration** 

Operating Operating: 1.043 grms
Non-operating: 3.500 grms

Altitude (unpressurized)

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

**Planned Industry Standard Certifications** 

Regulatory Model Number HSN-Q38C-4

UL 62368-1 Yes **ENERGY STAR®** Yes 43 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 Yes 44 **EPEAT Gold** Low Blue Light Yes **WW RoHS** Yes **CECP** Yes Medical EMC: IEC 60601-1-2:2014 EN60601-1-2: Yes

2015

SEPA Yes

43. Configurations that are ENERGY STAR® qualified are identified as ENERGY STAR on HP websites and on http://www.energystar.gov 44. 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

14.0 in WUXGA (1920 x 1200) Anti-Glare UWVA WLED+LBL sRGB NB2X 400 eDP 1.4+PSR2 Low-Power 100 bent LCD Panel **Active Area** 301.590 x 188.500 (typ) **Dimensions (W x H)** 307.590 x 199.550 (max)

Weight 210 (max)

**Diagonal Size** 14

Surface Treatment Anti-Glare
Touch Enabled No

Contrast Ratio1000:1(typ)Refresh Rate60 (typ)Brightness400 (typ)

Pixel Resolution - Format 1920 x 1200 (WUXGA)

Aspect Ratio16:10BacklightWLEDPixel ResolutionRGB

Color Gamut Coverage sRGB 100%

Color Depth 8

Viewing Angle UWVA 89/89/89

Low Blue Light Yes

**Power Consumption** 1.29 (max) / 1.66 (max)

14.0 in WUXGA (1920 x 1200) Anti-Glare UWVA LED sRGB 62.5 8bit 300 TOP eDP 1.2 w/o PSR Low-Power 60Hz bent LCD Panel **Active Area** 301.590 x 188.500 (typ) **Dimensions (W x H)** 30.7.59 x 199.15 (max)

Weight 300 (max)

**Diagonal Size** 14

**Surface Treatment** Anti-Glare

**Touch Enabled** Yes

Contrast Ratio1000:1(typ)Refresh Rate60 (typ)Brightness300 (typ)

Pixel Resolution - Format 1920 x 1200 (WUXGA)

Aspect Ratio 16:10
Backlight WLED
Pixel Resolution RGB

**Color Gamut Coverage** sRGB 62.5%

Color Depth 8

Viewing Angle UWVA 89/89/89

**Low Blue Light** No

**Power Consumption** 1.75 (max) / 2.15 (max)

14.0 in WUXGA (1920 x 1200) Anti-Glare UWVA LED sRGB 62.5 8bit 300 eDP 1.2 w/o PSR Low-Power 60Hz bent LCD **Active Area** 301.59 X 188.50(typ) **Dimensions (W x H)** 307.590 x 199.150 (max)

Weight 300 (max)
Diagonal Size 14



PanelSurface TreatmentAnti-Glare

**Touch Enabled** No

Contrast Ratio1000: 1 (typ)Refresh Rate60 (typ)Brightness300 (typ)

Pixel Resolution - Format 1920 x 1200 (WUXGA)

Aspect Ratio 16:10
Backlight WLED
Pixel Resolution RGB
Color Gamut Coverage sRGB 62.5%

Color Depth 8

Viewing Angle UWVA 89/89/89

Low Blue Light No.

**Power Consumption** 1.70 (max)/2.10(max)

14.0 in 2.2K (2240 x 1400) Anti-Glare UWVA Low Blue Light sRGB 100 400 eDP 1.4+PSR2 60Hz (VRR) bent LCD

**Panel** 

Active Area

301.59 x 188.50 (typ)

**Dimensions (W x H)** 306.85 x 197.87 (max)

Weight 210 (max)
Diagonal Size 14
Surface Treatment Anti-Glare

**Touch Enabled** No

Contrast Ratio1200: 1 (typ)Refresh Rate60 (typ)Brightness400 (typ)

Pixel Resolution - Format 2240 x 1400 (2.2K)

Aspect Ratio16:10BacklightWLEDPixel ResolutionRGB

**Color Gamut Coverage** sRGB 100%

Color Depth 8

Viewing Angle UWVA 89/89/89

Low Blue Light Yes

**Power Consumption** 2.27 (max)/2.84 (max)



## **STORAGE**

**1 TB PCIe<sup>®</sup> NVMe<sup>™</sup> SSD Value <sup>1</sup> Form Factor** M.2 2280

 Capacity
 1TB

 NAND Type
 Value

 Weight
 10g(0.02lb)

 Interface
 PCIe NVMe Gen4X4

 Sequential Read
 2200 MB/s ±20%

 Sequential Write
 1600 MB/s ±20%

 Logical Blocks
 2,000,409,264

 Features
 Pyrite 2.0; TRIM; L1.2

**512 GB PCle<sup>®</sup> NVMe<sup>™</sup> SSD Value** Form Factor M.2 2280

Capacity 512 GB
NAND Type Value
Weight 10q(0.02lb)

Interface PCIe NVMe Gen4X4
Sequential Read 2200 MB/s ±20%
Sequential Write 1000 MB/s ±20%
Logical Blocks 1,000,215,215

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

**256 GB PCIe® NVMe™ SSD Value** Form Factor M.2 2280 Capacity 256 GB

 Capacity
 256 GB

 NAND Type
 Value

 Weight
 10g(0.02lb)

 Interface
 PCIe NVMe Gen4X4

 Sequential Read
 2000 MB/s ±20%

 Sequential Write
 900 MB/s ±20%

 Logical Blocks
 500,118,192

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



## **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

InteroperabilityWi-Fi certifiedFrequency Band802.11b/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)

Infrastructure (Access Point Required)



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

Output Power <sup>3</sup> • 802.11b: +17dBm minimum

• 802.11g : +16dBm minimum

• 802.11a: +17dBm minimum

• 802.11n HT20(2.4GHz) : +14dBm minimum

• 802.11n HT40(2.4GHz) : +13dBm minimum

• 802.11n HT20(5GHz) : +14dBm minimum

• 802.11n HT40(5GHz): +13dBm minimum

• 802.11ac VHT80(5GHz) : +10dBm minimum

802.11ac VHT160(5GHz): +10dBm minimum
 802.11ax HE40(2.4GHz): +12dBm minimum

802.11ax HE40(2.4GHz) : +12dBm minimun
 802.11ax HE80(5GHz) : +10dBm minimum

• 802.11ax HE160(5GHz): +10dBm minimum

**Power Consumption** 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

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

802.11 compliant power saving mode

**Receiver Sensitivity** 4 •802.11b, 1Mbps: -93.5dBm maximum

•802.11b, 11Mbps : -84dBm maximum

• 802.11a/g, 6Mbps: -86dBm maximum

• 802.11a/g, 54Mbps : -72dBm maximum

• 802.11n, MCS07: -67dBm maximum

• 802.11n, MCS15: -64dBm maximum

• 802.11ac, MCS0(VHT80) : -84dBm maximum

• 802.11ac, MCS9(VHT80): -59dBm maximum

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

•802.11ax, MCS11(HE40): -57dBm maximum

•802.11ax, MCS11(HE80): -54dBm maximum

•802.11ax, MCS11(HE160): -53.5dBm maximum

Antenna type High efficiency antenna with spatial diversity

Two embedded tri-band 2.4/5/6 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth

communications

Form Factor PCI-Express M.2 MiniCard

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

 Weight
 Type 2230: 2.8 g

 Operating Voltage
 3.3 v +/- 9 %

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

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



Frequency Band 2402 to 2480 MHz

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

BLE: 0~39 (2 MHz/CH)

**Data Rates and Throughput** Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps BLE: 1

Mbps data rate; throughput up to 0.2 Mbps Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps

asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

ACPI and PCI Express compliant power management

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

device with a maximum transmit power of + 4 dBm for BR and EDR.

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

**Power Consumption** Peak (Tx): 330 mW

Peak (Rx): 230 mW

Selective Suspend: 17 mW

**Bluetooth Software Supported** 

**Link Topology** 

**Certifications** 

**Power Management** 

Microsoft Windows Bluetooth Software

002 11 compliant power caving made

802.11 compliant power saving mode

328, ETSI 301 893, ETSI 303 687

**Bluetooth Profiles Supported** 2Mbps LE

Advanced Audio Distribution Profile (A2DP)

Basic Imaging Profile (BIP)

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

Bluetooth 5.2

Bluetooth 5.3 wireless card 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.

Mediatek RZ616 Wi-Fi 6E	Wireless LAN Standards	IEEE 802.11a
Bluetooth® 5.3 AIM-T WLAN 1,2		IEEE 802.11ac
		IEEE 802.11ax
		IEEE 802.11b
		IEEE 802.11d
		IEEE 802.11e
		IEEE 802.11g
		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
	Interoperability	Wi-Fi certified
	Frequency Band	802.11b/g/n/ax
		2.402 – 2.482 GHz
		802.11a/n/ac/ax
		5.15 – 5.25 GHz
		5.25 – 5.35 GHz
		5.47 – 5.725 GHz
		5.825 – 5.850 GHz
		5.925 – 7.125 GHz
	Data Rates	802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
		802.11ac: 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
	M. I. Late	802.11n: MCS 0 ~ MCS 15, (20MHz, 40MHz)
	Modulation	Direct Sequence Spread Spectrum
		1024QAM, 16-QAM, 256-QAM, 64-QAM, BPSK, CCK, Direct Sequence
	Committee	Spread Spectrum, OFDM, QPSK
	Security	802.1x authentication
		AES-CCMP: 128 bit in hardware



IEEE 802.11i

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

only WAPI

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

WPA2 certification

WPA3 (personal) certification

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

Infrastructure (Access Point Required)

Roaming
Output Power <sup>3</sup>

IEEE 802.11 compliant roaming between access points

2.4GHz (MIMO, typical): • 802.11b : +18dBm

• 802.11g: +16.5dBm

802.11n/ac/ax (HT20/VHT20/HE20): +16dBm
 802.11n/ac/ax (HT40/VHT40/HE40): +12.5dBm

5GHz (MIMO, typical):

• 802.11a: +13dBm

802.11n/ac/ax (HT20/VHT20/HE20): +13.5dBm
 802.11n/ac/ax (HT40/VHT40/HE40): +12.5dBm

• 802.11ac/ax (VHT80/HE80): +11.5dBm

• 802.11ax HE160: +11.5dBm

6GHz LPI mode (MIMO, typical):

• 802.11a: 0dBm

802.11ax HE20: +1dBm
802.11ax HE40: +4dBm
802.11ax HE80: +7dBm
802.11ax HE160: +7.5dBm

**Power Consumption** 

Transmit mode : 2.5 W Receive mode : 2.0 W

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

Radio disabled: 8 mW

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

802.11 compliant power saving mode

**Receiver Sensitivity** <sup>4</sup> 2.4GHz (SISO):

•802.11b, 11Mbps: -82dBm maximum

802.11g, 54Mbps: -71dBm maximum
802.11n, MCS7: -64dBm maximum
802.11ac, MCS9: -52dBm maximum

•802.11ax, MCS11(HT40): -49dBm maximum

5GHz (SISO):

802.11a, 54Mbps: -71dBm maximum
802.11n, MCS07: -64dBm maximum



802.11ac, MCS9: -52dBm maximum

•802.11ax, MCS11(HE80/HE160): -46dBm maximum

6GHz (SISO):

802.11a, 54Mbps: -71dBm maximum
802.11n, MCS7: -64dBm maximum
802.11ac, MCS9: -52dBm maximum

•802.11ax, MCS11(HE160): -46dBm maximum

**Antenna type** High efficiency antenna with spatial diversity, mounted in the

display enclosure

Two embedded dual band 2.4/5/6 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth

communications

Form Factor PCI-Express M.2 MiniCard

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

 Weight
 Type 2230: 2.8 g

 Operating Voltage
 3.3 v +/- 9 %

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

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

**Frequency Band** 2402 to 2480 MHz

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

BLE: 0~39 (2 MHz/CH)

**Data Rates and Throughput** Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps BLE: 1

Mbps data rate; throughput up to 0.2 Mbps Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps

asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

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

device with a maximum transmit power of + 4 dBm for BR and EDR.

**Power Consumption** Peak (Tx): 330 mW

Peak (Rx): 230 mW

Selective Suspend: 17 mW

**Bluetooth Software Supported** 

**Link Topology** 

Microsoft Windows Bluetooth Software

**Power Management** Microsoft Windows ACPI, and USB Bus Support

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

328, ETSI 301 893, ETSI 303 687

**Bluetooth Profiles Supported** 2Mbps LE

Advanced Audio Distribution Profile (A2DP)

Basic Imaging Profile (BIP)

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

Bluetooth 5.2

Bluetooth 5.3 wireless card 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.

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RTK	GRF	Fth	ernet	[nn	trol	ler '

**Connector** RJ-45

**System Interface** PCI (Intel proprietary) + SMBus

**Data rates supported** 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)

**IEEE Compliance** 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)

Performance TCP/IP/UDP Checksum Offload (configurable)

Protocol Offload (ARP & NS)

Large send offload and Giant send offload

Receiving Side Scaling Jumbo Frame 9K

**Power consumption** Cable Disconnection: 25 mW

100Mbps Full Run: 450 mW 1000Mbps Full Run: 1000 mW



WoL Enable(S3/S4/S5): 50 mW

WoL Disable(\$3/\$4/\$5): 25 mW

**Power** ACPI compliant – multiple power modes

Management Situation-sensitive features reduce power consumption

Advanced link down power saving for reducing link down power

consumption

Management Interface Auto MDI/MDIX Crossover cable detection

IT Manageability 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.

AC Adapter 45 Watt nPFC Standard USB type C Straight 1.8m Weight (DC Cable Included)

180g(+/-10g) 100~240VAC

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

Output

Input

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

**Connector** 

Connector C6

**Environmental Design** 

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

temperature

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)

AC Adapter 65 Watt nPFC Standard USB type C Straight Weight (DC Cable Included)

240g ± 10g 100-240Vac

Input Efficiency

Input

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



1.8m

89.00% min at 115 Vac/ 230 Vac @20.00V

Input frequency range 47-63H

Input AC current Max. 1.6 A at 90 Vac

Output

Output power 5V/15W

9V/27W 12V/60W 15V/65W 20V/65W

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

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

Output Over Current Protection < 8.0A AC Inlet Type C6

DC Cable Connector USB type C
DC Cable Material PVC

**Connector** 

Connector C6

**Environmental Design** 

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

temperature

Altitude 0 to 16,400 ft (0 to 5000m)

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UAE, UKCA DoC

HP 65W Standard USB-C Straight AC Power Adapter Weight (DC Cable Included) 24

240g ± 10g 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

Output

Input

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

Connector

Connector C6

**Environmental Design** 

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

temperature

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

Humidity 20% to 95% Storage Humidity 10% to 95%

EMI and Safety Certifications CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards - IEC60950-1 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

**RX 56Whr Long Life Polymer** 

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

Fast Charge 3 cell Battery Cells/Ty

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

Weight 0.208kg +/- 10g (0.459 lb)

Fast Charge 3 cell Battery Cells/Type 3cell Lithium-Ion Polymer cell / 586075



Energy

Voltage 11.58V Amp-hour capacity 4.840Ah Watt-hour capacity 56.04Wh

**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** 

Available

No



#### **HP ProBook 4 G1iR 14 inch Notebook PC**

**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**

Sensor vendorELANSensor typeCapacitiveDPI resolution508 DPIScan area80 x 80 pixels

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

Current Consumption Image35 mA maxLow Latency Wait For Finger300 uACapture Rate50 frames/sec

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

**Detection Matrix** 508 dpi / 4.0 x 4.0 mm sensor area

Sensor vendorSYNAPTICSSensor typeCapacitiveDPI resolution363 DPIScan area104 x 86 pixels

**Operating Temperature**  $0^{\circ}\text{C} \sim 60^{\circ}\text{C} (32^{\circ}\text{F} \sim 140^{\circ}\text{F})$ 

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

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

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



OPTIONS		
Category	Description	Part Number
Adapters	HP HDMI to VGA Adapter	H4F02AA
·	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z7Z7AA
	HP USB-C to DisplayPort Adapter G2	8Y8Y1AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to RJ45 Adapter G2	4Z527AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to VGA Adapter	N9K76AA
Audio - Earbuds	Poly Voyager Free 60 UC Carbon Black Earbuds +BT700 USB-C	7Y8H4AA
	Adapter +Basic Charge Case	
	Poly Voyager Free 60 UC M Carbon Black Earbuds +BT700 USB-A	7Y8L7AA
	Adapter +Basic Charge Case	=V01 0 4 4
	Poly Voyager Free 60 UC M Carbon Black Earbuds +BT700 USB-C Adapter +Basic Charge Case	7Y8L8AA
	Poly Voyager Free 60+ UC Carbon Black Earbuds +BT700 USB-C	7Y8G4AA,7Y8H2AA
	Adapter +Touchscreen Charge Case	/1004AA,/1011ZAA
	Poly Voyager Free 60+ UC M Carbon Black Earbuds +BT700 USB-C	7Y8H0AA
	Adapter +Touchscreen Charge Case	
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-	8X227AA
	C/A Adapter	
	Poly Blackwire 3220 Stereo USB-C Headset +USB-C/A Adapter	93S87AA,8X228AA
	Poly Blackwire 3310 Monaural Microsoft Teams Certified USB-C	8X216AA
	Headset +USB-C/A Adapter	
	Poly Blackwire 3310 Monaural USB-C Headset +USB-C/A Adapter	8X215AA
	Poly Blackwire 3315 Monaural Microsoft Teams Certified USB-C	8X218AA
	Headset +3.5mm Plug +USB-C/A Adapter	
	Poly Blackwire 3315 Monaural USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X217AA
	Poly Blackwire 3320 Stereo Microsoft Teams Certified USB-C	8X220AA
	Headset +USB-C/A Adapter	ONZZUAA
	Poly Blackwire 3320 Stereo USB-C Headset +USB-C/A Adapter	8X219AA
	Poly Blackwire 3325 Stereo Microsoft Teams Certified USB-C	8X222AA
	Headset +3.5mm Plug +USB-C/A Adapter	0/12227111
	Poly Blackwire 3325 Stereo USB-C Headset +3.5mm Plug +USB-C/A	8X221AA
	Adapter	
	Poly Blackwire 5210 Monaural USB-C Headset +3.5mm Plug +USB-	8X230AA
	C/A Adapter	
	Poly Blackwire 5220 Stereo USB-C Headset +3.5mm Plug +USB-C/A	8X231AA,93S88AA
	Adapter	
	Poly Blackwire 8225 Stereo Microsoft Teams Certified USB-C	8X225AA
	Headset +USB-C/A Adapter	
	Poly Blackwire 8225 Stereo USB-C Headset +USB-C/A Adapter	8X223AA



Poly EncorePro 310 Monaural USB-A Headset	767G1AA
Poly EncorePro 310 Monoaural with Quick Disconnect Headset	77T43AA
Poly EncorePro 310 USB-C Monoaural Headset	760Q8AA
Poly EncorePro 320 Stereo USB-A Headset	767G0AA
Poly EncorePro 320 Stereo USB-C Headset	767F9AA
Poly EncorePro 320 with Quick Disconnect Binaural Headset	77T26AA
Poly EncorePro 510 Monaural Headset +Quick Disconnect	783Q2AA
Poly EncorePro 515 Microsoft Teams Certified Monoaural with	783R1AA
USB-A Headset	7031(17/1
Poly EncorePro 515 Monoaural with USB-A Headset	783R0AA
Poly EncorePro 520 Binaural Headset +Quick Disconnect	783P7AA
•	
Poly EncorePro 525 Microsoft Teams Certified Stereo with USB-A	783R2AA
Headset	7020244
Poly EncorePro 525 USB-A Stereo Headset	783R3AA
Poly EncorePro 530 Headset +Quick Disconnect	783P3AA
Poly EncorePro 540 Convertible Headset +Quick Disconnect	783P1AA
Poly EncorePro 715 USB-A Monoaural Headset	783N5AA
Poly EncorePro 720 Binaural Headset +Quick Disconnect	8R707AA
Poly EncorePro 725 USB-A Stereo Headset	783M6AA
Poly EncorePro HW710 Single Ear Headset +Carry Case +Quick	8R708AA
Disconnect	
Poly Savi 7310 Office DECT 1880-1900 MHz Single Ear Headset	8D3G3AA
(EMEA + APJ)	
Poly Savi 7310 Office Monaural DECT 1920-1930 MHz Headset (NA)	7S430AA
Poly Savi 7310 UC Monaural DECT 1880-1900 MHz Headset (EMEA	8L561AA
+ APJ)	
Poly Savi 7310 UC Monaural DECT 1920-1930 MHz Headset (NA)	8L570AA
Poly Savi 7310 UC Monaural Microsoft Teams Certified DECT 1880-	8L575AA
1900 MHz Headset (EMEA + APJ)	
Poly Savi 7310 UC Monaural Microsoft Teams Certified DECT 1920-	8L585AA
1930 MHz Headset (NA)	0_000
Poly Savi 7310-M Office DECT 1880-1900 MHz Single Ear Headset	8D3K7AA
(EMEA + APJ)	ODSKITH
Poly Savi 7310-M Office DECT 1920-1930 MHz Single Ear Headset	7S439AA
(NA)	1343344
Poly Savi 7320 Office Stereo DECT 1880-1900 MHz Headset (EMEA	8D3F7AA
+ APJ)	ODSFIAA
•	0025044
Poly Savi 7320 Office Stereo DECT 1893-1906 MHz Headset (Japan)	8D3F8AA
Poly Savi 7320 Office Stereo DECT 1910-1920 MHz Headset (NA)	8D3G0AA
Poly Savi 7320 Office Stereo DECT 1920-1930 MHz Headset (NA)	7S429AA
Poly Savi 7320 UC Stereo DECT 1880-1900 MHz Headset (EMEA +	8L545AA
APJ)	
Poly Savi 7320 UC Stereo DECT 1893-1906 MHz Headset (Japan)	8L546AA
Poly Savi 7320 UC Stereo DECT 1920-1930 MHz Headset (NA)	8L549AA
Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1880-	8L553AA



1900 MHz Headset (EMEA + APJ)	
Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1893-	8L555AA
1906 MHz Headset (Japan)	
Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1920-	8L559AA
1930 MHz Headset (NA)	
Poly Savi 7320-M Office Stereo DECT 1880-1900 MHz Headset	8D3J6AA
(EMEA + APJ)	
Poly Savi 7320-M Office Stereo DECT 1893-1906 MHz Headset	8D3K2AA
(Japan)	
Poly Savi 7320-M Office Stereo DECT 1910-1920 MHz Headset (NA)	8D3K0AA
Poly Savi 7320-M Office Stereo DECT 1920-1930 MHz Headset (NA)	7S435AA
Poly Savi 7410 Office Monaural DECT 1880-1900 MHz Headset	8L589AA
(EMEA + APJ)	
Poly Savi 7410 Office Monaural DECT 1893-1906 MHz Headset	8L591AA
(Japan)	
Poly Savi 7410 Office Monaural DECT 1920-1930 MHz Headset (NA)	8L7D5AA
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT	8L593AA
1880-1900 MHz Headset (EMEA + APJ)	
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT	8L594AA
1893-1906 MHz Headset (Japan)	
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT	8L597AA
1910-1920 MHz Headset (NA)	
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT	8L7D7AA
1920-1930 MHz Headset (NA)	
Poly Savi 7420 Office Stereo DECT 1880-1900 MHz Headset (EMEA	8L560AA
+ APJ)	
Poly Savi 7420 Office Stereo DECT 1893-1906 MHz Headset (Japan)	8L563AA
Poly Savi 7420 Office Stereo DECT 1910-1920 MHz Headset (NA)	8L564AA
Poly Savi 7420 Office Stereo DECT 1920-1930 MHz Headset (NA)	8L567AA
Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1880-	8L574AA
1900 MHz Headset (EMEA + APJ)	
Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1893-	8L576AA
1906 MHz Headset (Japan)	
Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1910-	8L579AA
1920 MHz Headset (NA)	
Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1920-	8L583AA
1930 MHz Headset (NA)	
Poly Savi 8210 Office DECT 1880-1900 MHz Single Ear Headset	8D3K5AA
(EMEA + APJ)	
Poly Savi 8210 Office DECT 1910-1920 MHz Single Ear Headset	8D3K6AA
(NA)	
Poly Savi 8210 Office DECT 1920-1930 MHz Single Ear Headset	7S445AA
(NA)	
Poly Savi 8210 UC DECT 1880-1900 MHz USB-A Headset (EMEA +	8D3E9AA
APJ)	



Poly Savi 8210 UC DECT 1920-1930 MHz USB-A Headset (NA) Poly Savi 8210 UC Microsoft Teams Certified DECT 1880-1900 MHz	77T29AA 8D3F1AA
USB-A Headset (EMEA + APJ) 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	8D3F5AA
USB-A Headset (EMEA + APJ)	771/0244
Poly Savi 8220 UC Microsoft Teams Certified DECT 1920-1930 MHz	77Y82AA
USB-A Headset (NA) Poly Savi 8220-M Office Stereo DECT 1880-1900 MHz Headset	8D3H8AA
(EMEA + APJ)	опзиони
Poly Savi 8220-M Office Stereo DECT 1910-1920 MHz Headset (NA)	8D3J0AA
Poly Savi 8220-M Office Stereo DECT 1920-1930 MHz Headset (NA)	7S4B6AA
Poly Savi 8245 DECT 1880-1900 MHz Headset +USB-A to USB-C	8D3H2AA
Cable +D400 (APJ)	
Poly Savi 8245 Office DECT 1880-1900 MHz USB-A Headset (APJ)	8D3H1AA
Poly Savi 8245 Office DECT 1920-1930 MHz USB-A Headset (NA)	7W6D1AA
Poly Savi 8245-M Microsoft Teams Certified DECT 1880-1900 MHz	8D3F4AA
USB-A Headset +D200 (APJ)	
Poly Savi 8245-M Office Microsoft Teams Certified DECT 1880-	8D3H7AA
1900 MHz USB-A Headset (APJ)	
Poly Savi 8245-M Office Microsoft Teams Certified DECT 1920- 1930 MHz USB-A Headset (NA)	7W069AA
Poly Savi 8410 Office Monaural DECT 1880-1900 MHz Headset (EMEA + APJ)	8L5A7AA
Poly Savi 8410 Office Monaural DECT 1920-1930 MHz Headset (NA)	8L7E6AA
Poly Savi 8410 Office Monaural Microsoft Teams Certified DECT	8L5A9AA
1880-1900 MHz Headset (EMEA + APJ)	



Poly Savi 8410 Office Monaural Microsoft Teams Certified DECT 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	77Z32AA



Audio - Speaker phone

dongle +Charging Stand	
Poly Voyager Focus 2 Microsoft Teams Certified USB-C-C Headset	9T9J6AA
+USB-C/A Adapter +Charging Stand	
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	9T9J5AA
Charging Stand	
Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C	9D452AA
Black Headset +USB-C/A Adapter	
Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C	8H2G3AA,8G7U0AA
Headset +USB-C/A Adapter	
Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C	9C6W5AA
Headset +USB-C/A Adapter Demo	
Poly Voyager Surround 80 UC USB-C Headset +USB-C/A Adapter	8G7T9AA
Poly Voyager Surround 85 UC Microsoft Teams Certified USB-C	8G7T8AA
leadset +USB-C/A Adapter +Charging Stand	
Poly Voyager Surround 85 UC USB-C Headset +USB-C/A Adapter	8G7T7AA
-Charging Stand	
Poly Sync 10 Microsoft Teams Certified Speakerphone	77P34AA
Poly Sync 10 Speakerphone +USB-A to USB-C Cable	7S4M6AA
Poly Sync 10 USB-A USB-C Speakerphone	772C3AA
Poly Sync 20 Microsoft Teams Certified USB-A Speakerphone	772C8AA
Poly Sync 20 USB-A Speakerphone	772D2AA
Poly Sync 20 USB-C Speakerphone	7F0J7AA
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	7Y215AA
dongle +Pouch	
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
Poly Sync 40 USB-A USB-C Speakerphone	772C4AA
Poly Sync 40+ Microsoft Teams Certified USB-A USB-C	77P36AA
Speakerphone +BT700 USB-A Adapter	7725744
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
HP 625 Webcam	6Y7L1AA
HP USB-A 325 Webcam	53X27AA,53X27UT
HP 115 15.6 Laptop Backpack	8DV45AA 9C2H1AA
HP 14 Convertible Laptop Backpack Tote	9C2HTAA 9J499AA
HP 14 Modular Laptop Sleeve HP 15.6 Modular Laptop Backpack	9J499AA 9J496AA
חוד ו ס.ט ויוטטענמו במףנטף סמנגיףמנג	JJ4JUAA



Camera

Cases

HP 15.6 Modular Laptop Bag	9J497AA
HP 15.6 Modular Laptop Sleeve	9J498AA
HP 215 15.6 Laptop Backpack	35L98AA,35L98UT
HP 225 15.6 Laptop Backpack	2P7U6AA,2P7U6UT
HP 235 15.6 Laptop Backpack	35M00AA
HP 315 15.6 Laptop Backpack	35L97AA
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 Everyday 14 odyssey gray Laptop Bag	A08KJAA
HP Everyday 14 odyssey gray Laptop Briefcase	A08KGAA
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 Prelude 15.6 Backpack	1E7D6UT,50P32AA
HP Prelude 15.6 Top Load	1E7D7AA,50P31AA
HP Prelude Pro Recycled 15.6 Backpack	1X644AA
HP Prelude Pro Recycled 15.6 Top Load	1X645AA
HP Renew Business 14.1 Laptop Bag	3E5F9AA
HP Renew Business 14.1 Laptop Sleeve	3E2U7AA
HP Renew Business 15.6 Laptop Bag	3E5F8AA
HP Renew Business 17.3 Laptop Backpack	3E2U5UT
HP Renew Business 17.3 Laptop Bag	3E2U6AA
HP Renew Executive 14.1 Laptop Sleeve	6B8Y3AA
HP Renew Executive 16 Laptop Backpack	6B8Y1AA,6B8Y1UT
HP Renew Executive 16 Laptop Bag	6B8Y2AA
HP Travel 18 Liter 15.6 iron gray Laptop Backpack	6H2D9AA
HP Travel 25 Liter 15.6 iron gray Laptop Backpack	6H2D8AA
HP Travel Plus 14 Laptop Bag	A2CE2AA
HP Travel Plus 16 Laptop Bag	A2CE1AA
HP Travel Plus 17 Laptop Backpack	A2CE0AA
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
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
UDUCD CTV/A 420W C2 U · LD I	ETIMA 3 A A ETIMA 3 MT



Commodity

Docking

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
Tido	HP Universal USB-C Hub and Laptop Charger Combo	9H0H9AA
		50H55UT
	HP Universal USB-C Multiport Hub	
	HP USB-C to USB-A Hub	Z6A00AA
Kaubaaud	HP USB-C Travel Hub G3	86S97AA,86S97UT
Keyboard	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
	HP 965 black Ergonomic Wireless Keyboard	7E756AA
	HP 975 Dual-Mode USB+Bluetooth Wireless Keyboard	3Z726AA
Keyboard & Mouse Combo	HP 225 Wired Mouse and Keyboard Combo G2	AX2Y7AA
	HP 225 Wired Mouse and Keyboard Combo G2 White	AW5S6AA
	HP 235 Wireless Mouse and Keyboard Combo	1Y4D0AA,1Y4D0UT
	HP 655 Wireless Keyboard and Mouse Combo	4R009AA
	HP 655 Wireless Keyboard and Mouse Combo	860P8AA
	HP 685 Comfort Dual-Mode Keyboard and Mouse Combo	,8T6L7UT
	HP 725 Multi-Device Rechargeable Wireless Keyboard and Mouse	9T5B0UT
	Combo	
	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	3B4Q5UT
	HP 515 Ultra-Fast Rechargeable Wireless Mouse	9C2F7AA
	HP 685 Comfort Dual-Mode Mouse	8T6MOUT
	HP 695 Qi-Charging Wireless Mouse	8F1Y4AA
	HP 715 Rechargeable Multi-Device Bluetooth Mouse	6E6F0AA
	13 Rechargeable Flatti Device Diactooth Floude	3201 0/1/1



#### HP ProBook 4 G1iR 14 inch Notebook PC

	HP 925 Ergonomic Vertical Wireless Mouse	6H1A5AA
	HP Creator Black 935 Wireless Mouse	1D0K8AA
	HP Travel USB Mouse	G1K28AA
Power	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
March 7, 2025	V1 to V2	Added	Graphics Section
May 12, 2025	V2 to V3	Updated	Memory Section
May 26, 2015	V3 to V4	Updated	Docking Section

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