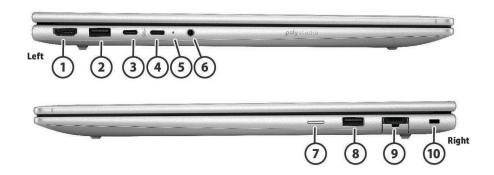
HP ProBook 4 G1i 16 inch Notebook AI PC



Front

- Internal Microphone (2) 4 Camera Shutter 2 5 Webcam LED Touchpad 3 Webcam
 - 6



	S	ides	
1	HDMI 2.1	7	Nano SIM card slot (Optional)
2	USB Type-A 5Gbps signaling rate (Powered) ¹	8	USB Type-A 5Gbps signaling rate (Powered) ¹
3	USB Type-C® 20Gbps signaling rate (USB Power Delivery 3.0, DisplayPort™ 1.4) ¹	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	11	
6	Headphone/mic combo jack		

1. Actual throughput may vary.



PRODUCT NAME

HP ProBook 4 G1i 16 inch Notebook AI PC

OPERATING SYSTEMS

FreeDOS

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 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 http://www.windows.com.

PROCESSORS

Processor ^{2,3,4}	Cores Number of P-cores		Number of LP E-cores	Threads	L3 Cache	Max Turbo Frequency		NPU	
		P-cores	E-COLES	LP E-COIES			P-cores	E-cores	
Intel® Core™ Ultra7 processor 255H	16 cores	6	8	2	16	24 MB	5.10 GHz	4.40 GHz	13 TOPS
Intel® Core™ Ultra5 processor 225H	14 cores	4	8	2	14	18 MB	4.90 GHz	4.30 GHz	13 TOPS
Intel® Core™ Ultra7 processor 255U	12 cores	2	8	2	14	12 MB	5.20 GHz	4.20 GHz	12 TOPS
Intel® Core™ Ultra5 processor 225U	12 cores	2	8	2	14	12 MB	4.80 GHz	3.80 GHz	12 TOPS

Processor Family

Intel® Core™ Ultra7 processor Intel® Core™ Ultra5 processor

- 2. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.
- 3. In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com.
- 4. 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.



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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 http://intel.com/vpro



GRAPHICS

Integrated

Intel® Graphics
Intel® ARC™ Graphics 6

Discrete

NVIDIA® GeForce® RTX 3050 4 GB (dedicated) Support HDMI 2.1

Display supported (including internal display): up to 2

Hardware acceleration for CODEC H.265/HEVC (High Efficiency Video Coding) is disabled on this platform.

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



DISPLAY

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

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% 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%

40.6 cm (16") diagonal, WUXGA (1920x1200), LCD, UWVA, Anti-Glare WLED 400 nits Low Power, sRGB 100% 7 40.6 cm (16") WUXGA (1920x1200), LCD, UWVA, Anti-Glare WLED 300 nits, sRGB 62.5% 7

Touch

40.6 cm (16") diagonal, WUXGA (1920x1200), LCD, Touch, UWVA, Anti-Glare WLED 300 nits, sRGB 62.5% ⁷

Display Size (Diagonal)

40.6 cm (16.0")

Screen to Body Ratio

90.60%

Aspect Ratio

16:10

Max Hinge Open Angle

177±3°

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



DOCKING (SOLD SEPARATELY)

Docking station model #1

Total number of supported displays (incl. the

notebook)

display)

Max. resolutions supported

Dock Connectors
Technical limitations

Docking station model #2
Total number of supported displays (incl. the

notebook) displav)

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.

HP Thunderbolt™ 120W G4 Dock

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.



HP ProBook 4 G1i 16 inch Notebook AI PC

QuickSpecs

STORAGE AND DRIVES

1 TB PCIe® NVMe™ SSD Value ⁸
512 GB PCIe® NVMe™ SSD Value ⁸
256 GB PCIe® NVMe™ SSD Value ⁸

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



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 5600 MT/s ⁹
Supports Dual Channel Memory
Slots are accessible/upgradeable by IT or self-maintainers only

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



NETWORKING / COMMUNICATIONS

Items below may be optional.

Ethernet

RTK GBE Ethernet Controller

WLAN

Intel® BE201 Wi-Fi 7 Bluetooth® 5.4 non-vPro® WW WLAN ¹⁰ Intel® AX211 Wi-Fi 6E Bluetooth® 5.3 non-vPro® WW WLAN ¹⁰ Mediatek RZ616 Wi-Fi 6E Bluetooth® 5.3 AIM-T WLAN ¹⁰

WWAN

HP 4G CAT16 11

LPWAN

Qualcomm 9205 LTE-M (CAT-M1 fSVC) 12

Miracast

Native Miracast Support ¹³

- 10. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.
- 11. 4G LTE module is optional, must be configured at the factory, requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.
- 12. LPWAN (also called Mobile Narrowband) supports HP Protect & Trace with Wolf Connect service through the subscription term, but does not support mobile broadband use.
- 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 ¹⁴ 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 with numeric keypad, spill-resistant, Durakey keyboard. 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 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. Use of Recall requires customer authentication using Windows Hello Enhanced Sign in Security (ESS) which requires a fingerprint reader or facial recognition camera and may not be supported on all platforms. See http://aka.ms/WindowsAlFeatures



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

HSA Fusion for Commercial

HSA Telemetry for Commercial

myHP 19

Poly Camera Pro

Poly Lens 20

Manageability Features

HP Client Catalog (download) 21

HP Client Management Script Library (download) 22

HP Cloud Recovery 23

HP Connect for Microsoft Endpoint Manager 24

HP Driver Packs (download) 25

HP Image Assistant_(download)_26

HP Manageability Integration Kit (download) 27

HP Power Manager with Battery Health Manager (download) 28

Security Management

Secured-Core PC Enable 29

Windows Hello Enhanced Sign-In Security (ESS)

HP Wolf Security for Business which includes: 30

HP Sure Admin³¹

HP Sure Click 32

HP Sure Recover 33

HP Sure Run 34

HP Sure Sense 35

HP Sure Start 36

HP Tamper Lock 37



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 ³⁸
Audio Permanent Disable
BIOS Update via Network
HP Bios Recovery
HP BIOSphere ³⁹
HP DriveLock & Automatic DriveLock
HP Fingerprint Sensor ⁴⁰
HP Secure Erase ⁴¹
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 HP Insights agent automatically. To disable this feature, please follow the instructions at http://www.hpdaas.com/requirements. The HP Insights agent is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. Select HP Workforce Solutions require an HP Insights agent for Windows, Mac, & Android, available for download at https://admin.hp.com/software. For full system requirements and services that require the agent, please visit https://admin.hp.com/requirements. The agent collects telemetry and analytics around devices and applications that integrate into the Workforce Experience platform and is not sold as a standalone service. Internet access with connection to the Workforce Experience platform is required. HP follows stringent GDPR privacy regulations, and the platform is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Not available in China.

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 http://www.support.hp.com/help/hp-support-assistant.
- 19. MyHP requires Windows 10 or higher OS.
- 20. Poly Lens Desktop requires a Windows OS.
- 21. HP Client Catalog not preinstalled, however available for download at https://www.hp.com/us-en/solutions/client-management-solutions.html
- 22. HP Client Management Script Library https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools
- 23. 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.
- 24. HP Connect for Microsoft Endpoint Manager is available from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager. Subscription to Microsoft Endpoint Manager required and sold separately. Network connection required.
- 25. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
- 26. HP Image Assistant not preinstalled, however available for download at https://ftp.ext.hp.com/pub/caps-softpaq/cmit/HPIA.html
- 27. HP Manageability Integration Kit not presintalled, however available for downloaded from https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools
- 28. 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
- 29. Secured-Core PC Enable requires an Intel® vPro®, AMD Ryzen™ Pro processor or Qualcomm® processor with SD850 or higher and requires 8 GB or more system memory. Secured-core PC is enabled from the factory.
- 30. 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.
- 31. 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.
- 32. HP Sure Click requires Windows 10 and higher. See https://bit.ly/2PrLT6A_SureClick for complete details.
- 33. 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.
- 34. HP Sure Run is available on select HP PCs and requires Windows 10 and higher.
- 35. 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.
- 36. HP Sure Start is available on select HP PCs and requires Windows 10 and higher.
- 37. HP Tamper Lock must be enabled by the customer or your administrator.
- 38. 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:



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QuickSpecs

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

- 39. HP BIOSphere features may vary depending on the platform and configuration.
- 40. HP Fingerprint Reader is an optional feature that requires Windows 10 or 11 and must be configured at purchase.
- 41. HP Secure Erase implements the methods outlined in the National Institute of Standards and Technology Special Publication 800-88r "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.



POWER

Power supply availability may vary by country.

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

Power Supply

HP 100W Slim USB Type-C® AC power adapter
HP 65W Standard USB Type-C® AC power adapter
HP 65W 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 42

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 43

Battery life

Up to 13 hours 45 minutes with 56 Whr battery⁴⁴ (Intel Ultra 7 H28, UMA graphic, brightness set to 250nits on a WUXGA 400nits LCD display, 2 x 8GB DDR5 memory, 256 GB SSD)

Up to 13 hours 15 minutes with 56 Whr battery 44 (Intel Ultra 7 U15, UMA graphic, brightness set to 250nits on a WUXGA 400nits LCD display, 2 x 8GB DDR5 memory, 256 GB SSD)

Up to 9 hours 45 minutes with 56 Whr battery⁴⁴ (Intel Ultra 7 H28, Discrete graphic, brightness set to 400nits on a WUXGA 400nits LCD display, 2 x 8GB DDR5 memory, 256 GB SSD)

- 42. Only available for selected regions and selected configurations.
- 43. Recharges your battery up to 50% within 30 minutes when the system is off or in standby mode.

Power adapter minimum of 65 watts required for battery capacities 56Whr or less.

Power adapter minimum of 100 watts required for battery capacities greater than 56Whr and less than 83Whr.

Power adapter minimum of 120 watts required for battery capacities greater than 83Whr and less than 100Whr.

After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.

44. MobileMark 25 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com 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 19.9 mm (Plastic); 20.9 mm (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) 45

2 x USB Type-C[®] 20Gbps signaling rate (USB Power Delivery 3.0, DisplayPort™ 1.4) ⁴⁶

1 x HDMI 2.1

1 x headphone/mic combo jack

Right side

1 x USB Type-A 5Gbps signaling rate (Powered) 45

1 x RJ45 Ethernet port

1 x Nano SIM card slot (Optional)

1 x Security lock slot (Integrated)

45. Actual throughput may vary.

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



ENVIRONMENTAL DATA

This product has received or is in the process of being certified to the following approvals								
and may be labeled with one or n	nore of these marks:							
IT ECO declaration								
 US ENERGY STAR® 								
 US Federal Energy Mana 	ngement Program (FEMP)							
_		://www.epeat.net for						
	ur country.							
TCO Certified								
Taiwan Green MarkKorea Eco-label								
						-		nd 20% in Speakers1
		nu 30% in Speakers						
·								
	ietal³							
	• Low Halogen ⁴							
 100% of HP paper-based packaging is from recycled or certified sustainable 								
sources ⁵								
Bulk packaging available								
The configuration used for the Energy Consumption and Declared Noise Emissions data for								
the Notebook model is based on a "Typically Configured Notebook".								
115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz						
115VAC, 60Hz 5.76 W	230VAC, 50Hz 5.96 W	100VAC, 50Hz 5.71 W						
	· ·							
5.76 W	5.96 W	5.71 W						
5.76 W N/A	5.96 W N/A	5.71 W N/A						
5.76 W N/A 1.57 W	5.96 W N/A 1.68 W 0.39 W s for an ENERGY STAR® compliar d with the ENERGY STAR® Logo at cy (EPA) ENERGY STAR® specifica compliant configurations, then ng a hard disk drive, a high efficie	5.71 W N/A 1.59 W 0.36 W at product if offered within the re compliant with the applicable ations for computers. If a model energy efficiency data listed is						
5.76 W N/A 1.57 W 0.36 W NOTE: Energy efficiency data listed i model family. HP computers marked U.S. Environmental Protection Agency family does not offer ENERGY STAR® for a typically configured PC featuring	5.96 W N/A 1.68 W 0.39 W s for an ENERGY STAR® compliar d with the ENERGY STAR® Logo at cy (EPA) ENERGY STAR® specifica compliant configurations, then ng a hard disk drive, a high efficie	5.71 W N/A 1.59 W 0.36 W at product if offered within the re compliant with the applicable ations for computers. If a model energy efficiency data listed is						
5.76 W N/A 1.57 W 0.36 W NOTE: Energy efficiency data listed i model family. HP computers marked U.S. Environmental Protection Agenc family does not offer ENERGY STAR® for a typically configured PC featurin Microsoft Windows® operating systems	5.96 W N/A 1.68 W 0.39 W s for an ENERGY STAR® compliant with the ENERGY STAR® specificate (EPA) ENERGY STAR® specificate (EPA) and the configurations, then the search and a hard disk drive, a high efficient.	5.71 W N/A 1.59 W 0.36 W Interproduct if offered within the re compliant with the applicable withins for computers. If a model energy efficiency data listed is ency power supply, and a						
5.76 W N/A 1.57 W 0.36 W NOTE: Energy efficiency data listed i model family. HP computers marked U.S. Environmental Protection Agenc family does not offer ENERGY STAR® for a typically configured PC featurin Microsoft Windows® operating system 115VAC, 60Hz 20 BTU/hr	5.96 W N/A 1.68 W 0.39 W s for an ENERGY STAR® compliant with the ENERGY STAR® specificatory (EPA) ENERGY STAR® specificatory (EPA) ENERGY STAR® specificatory (EPA) end of the sem. 230VAC, 50Hz 20 BTU/hr	5.71 W N/A 1.59 W 0.36 W Interproduct if offered within the recompliant with the applicable within story computers. If a model energy efficiency data listed is ency power supply, and a 100VAC, 50Hz 20 BTU/hr						
5.76 W N/A 1.57 W 0.36 W NOTE: Energy efficiency data listed i model family. HP computers marked U.S. Environmental Protection Agency family does not offer ENERGY STAR® for a typically configured PC featurin Microsoft Windows® operating system 115VAC, 60Hz 20 BTU/hr N/A	5.96 W N/A 1.68 W 0.39 W s for an ENERGY STAR® compliant with the ENERGY STAR® specificate of the compliant configurations, then any a hard disk drive, a high efficient. 230VAC, 50Hz 20 BTU/hr N/A	5.71 W N/A 1.59 W 0.36 W Interproduct if offered within the recompliant with the applicable withins for computers. If a model energy efficiency data listed is ency power supply, and a 100VAC, 50Hz 20 BTU/hr N/A						
5.76 W N/A 1.57 W 0.36 W NOTE: Energy efficiency data listed i model family. HP computers marked U.S. Environmental Protection Agenc family does not offer ENERGY STAR® for a typically configured PC featurin Microsoft Windows® operating system 115VAC, 60Hz 20 BTU/hr	5.96 W N/A 1.68 W 0.39 W s for an ENERGY STAR® compliant with the ENERGY STAR® Logo at cy (EPA) ENERGY STAR® specifica® compliant configurations, then ag a hard disk drive, a high efficient. 230VAC, 50Hz 20 BTU/hr N/A 6 BTU/hr	5.71 W N/A 1.59 W 0.36 W Interpretation of the applicable of the						
	and may be labeled with one or r IT ECO declaration US ENERGY STAR® US Federal Energy Mana EPEAT® Gold registered registration status in you TCO Certified China Energy Conservate China State Environment Taiwan Green Mark Korea Eco-label Japan PC Green label* Product Carbon Footprint At least 50% ocean bound At least 50% recycled mand to the second of the paper-base sources Bulk packaging available The configuration used for the Environment of the second of the paper-base sources Bulk packaging available	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 httpregistration status in your country. TCO Certified China Energy Conservation Program (CECP) China State Environmental Protection Administration Taiwan Green Mark Korea Eco-label Japan PC Green label* Product Carbon Footprint At least 50% ocean bound plastic in the system fan a At least 25% post-consumer recycled plastic² At least 50% recycled metal³ Low Halogen⁴ 100% of HP paper-based packaging is from recycled sources⁵ Bulk packaging available The configuration used for the Energy Consumption and Declaration						



Declared Noise Emissions		Sound Power	Sound Pressu	re	
(in accordance with		(L _{WAd} , bels)	(L _{pAm} , decibels	s)	
ISO 7779 and ISO 9296)					
Typically Configured – Idle		2.6	14.6		
Fixed Disk – Random writes		2.7	17.8		
Optical Drive – Sequential reads	3.1 28				
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 after the end of production.				
Additional Information	 This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC. This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per IS011469 and IS01043. This product is 94.7% recycle-able when properly disposed of at end of life. 				
Packaging Materials	External:	PAPER/Corrugated		417 g	
		W00D/wood		23 g	
		PAPER/paper		15	
		PAPER/Molded Pulp		125 g	
	The plastic packaging material contains at least 0.0% recycled content. The corrugated paper packaging materials contains at least 46.7% recycled content.				
RoHS Compliance HP Inc. complies fully with materials regulations. We we extend the restrictions in the European Union (EU) Restrictions in European Union (EU) Restrictions in the European Union (EU) Restriction (EU) Re			(EU) Restriction of Hazardous rough the HP GSE. HP has cont as well as China, India, and Vies play an important role in proncern. We have supported the	Substances cributed to the ctnam. moting inclusion of	
	legislation that We met our vol requirements for extend the scor regulations con	tainces—including PVC, BPRS, or pertains to electrical and electri	tronics products. rldwide compliance with the no ts by July 2013, and we will coo de further restricted substance	ew EU RoHS ntinue to es as	
Material Usage	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				



	https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c05998906):
	Asbestos Certain Azo Colorants Certain Brominated Flame Retardants – may not be used as flame retardants in plastics Cadmium Chlorinated Hydrocarbons Chlorinated Paraffins Bis(2-Ethylhexyl) phthalate (DEHP) Benzyl butyl phthalate (BBP) Dibutyl phthalate (DBP) 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 Biphenyl Ethers (PBBEs) Polybrominated Biphenyl Oxides (PBBOs) Polychlorinated Biphenyl (PCB) Polychlorinated Terphenyls (PCT) Polycyinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications. Radioactive Substances Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
Packaging 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. Use readily recyclable packaging materials such as paper and corrugated materials. Reduce size and weight of packages to improve transportation fuel efficiency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.



End-of-life Management and	HP offers end-of-life HP product return and recycling programs in many geographic areas.					
Recycling	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	For more information about HP's commitment to the environment:					
Environmental Information	 Sustainable Impact Report https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06040 843 Eco-label certifications https://www.hp.com/us-en/sustainable-impact/document-reports.html#filters_documents_reports-=document_type-type_energy_star,type_epeat,type_tcolS0 ISO 14001 certificates https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c04777 932 					
footnotes	 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. 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. 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. External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen. 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. 					



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. 47

47. 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 Max Operating Power UMA 65W

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

Discrete 100W

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-6

UL 62368-1 Yes **ENERGY STAR®** Yes 48 FCC/ICES/CISPR/VCCI Yes **CE MARKING** Yes **GS Mark** No China CCC/SRRC Yes Taiwan BSMI/NCC Yes Korea KCC/KC/KES Yes Ukraine NSoC/TEC Yes

EAEU Compliance

Saudi Arabian Compliance Yes TCO Yes

EPEAT Gold EPEAT® Gold in the United States 49

Low Blue Light Yes WW RoHS Yes CECP Yes 50 Medical EMC: IEC 60601-1-2:2014 EN60601-1-2: Yes

2015

SEPA Yes 50

MIL-STD Testing MIL-STD 810H ⁵¹



HP ProBook 4 G1i 16 inch Notebook AI PC

- 48. Configurations that are ENERGY STAR® qualified are identified as ENERGY STAR on HP websites and on http://www.energystar.gov 49. 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.
- 50. By request.
- 51. MIL STD testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.



DISPLAYS

16.0 in WUXGA (1920 x 1200) Anti-Glare UWVA LED sRGB 62.5 8bit 300 eDP 1.2 w/o PSR **60Hz bent LCD Panel**

Active Area 344.6784 x 215.424 (typ) Dimensions (W x H) 350.680 x 226.070 (max)

390 (max) Weight **Diagonal Size** 16 **Surface Treatment** Anti-Glare

Touch Enabled No

Contrast Ratio 1000:1(typ) **Refresh Rate** 60 (typ) **Brightness** 300 (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

Viewing Angle UWVA 89/89/89/89

Low Blue Light

Power Consumption 2.7 (max) / 3.4 (max)

16.0 in WUXGA (1920 x 1200) Anti-Glare UWVA LED sRGB 62.5 8bit 300 TOP eDP 1.2 w/o **PSR 60Hz bent LCD Panel**

Active Area 344.680 x 215.420 (typ) Dimensions (W x H) 350.680 x 226.070 (max)

Weight 400 (max)

Diagonal Size 16

Surface Treatment Anti-Glare **Touch Enabled**

Yes **Contrast Ratio**

1000:1(typ) **Refresh Rate** 60 (typ) **Brightness** 300 (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

Viewing Angle UWVA 89/89/89/89

Low Blue Light Yes

Power Consumption 2.43 (max) / 3.03 (max)

16.0 in WUXGA (1920 x 1200) Anti-Glare UWVA WLED+LBL sRGB NB2Y 400 eDP 1.4+PSR2 Low-Power 100 bent LCD Panel **Active Area** 344.678 x 215.424 (typ) Dimensions (W x H) 350.680 x 226.470 (max)

Weight 330 (max)

Diagonal Size 16

Surface Treatment Anti-Glare



Touch Enabled No

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

Pixel Resolution - Format 1920 x 1200 (WUXGA)

Aspect Ratio 16:10
Backlight WLED
Pixel Resolution RGB
Color Gamut Coverage SRGB 100%

Color Depth 8

Viewing Angle UWVA 89/89/89

Low Blue Light Yes

Power Consumption 1.60 (max)/ 1.95 (max)

16.0 in WQXGA (2560 x 1600) Anti-Glare UWVA Low Blue Light sRGB 100 400 eDP 1.4+PSR2 60Hz (VRR) bent LCD Panel **Active Area** 344.6784 x 215.424 (typ) **Dimensions (W x H)** 349.98 x 224.82 (max)

Weight 300 (max)
Diagonal Size 16

Surface Treatment Anti-Glare
Touch Enabled No

Contrast Ratio1500:1 (typ)Refresh Rate60 (typ)Brightness400 (typ)

Pixel Resolution - Format 2560 x 1600 (2.5K)

Aspect Ratio16:10BacklightWLEDPixel ResolutionRGB

Color Gamut Coverage sRGB 100%

Color Depth

Viewing Angle UWVA 89/89/89

Low Blue Light Yes

Power Consumption 2.82 (max)/3.53 (max)



STORAGE

1 TB PCIe® NVMe™ SSD Value 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® NVMe™ SSD Value Form Factor M.2 2280

 Capacity
 512 GB

 NAND Type
 Value

 Weight
 10g(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

 NAND Type
 Value

 Weight
 10q(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 Intel® AX211 Wi-Fi 6E Wireless LAN Standards IEEE 802.11a Bluetooth® 5.3 WW WLAN 1,2 IEEE 802.11ac IEEE 802.11ax IEEE 802.11b IEEE 802.11d IEEE 802.11e IEEE 802.11q 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)



Infrastructure (Access Point Required)

IEEE 802.11 compliant roaming between access points Roaming

> • 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 HE80(5GHz): +10dBm minimum

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

Power Consumption Transmit mode: 2.0 W

Output Power 3

• 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 q **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

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 Bluetooth® 5.3 AIM-T WLAN ^{1,2}	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 802.11h IEEE 802.11i IEEE 802.11i IEEE 802.11j IEEE 802.11k IEEE 802.11k
		IEEE 802.11mc IEEE 802.11n IEEE 802.11r IEEE 802.11v IEEE 802.11w
	Interoperability Frequency Band	Wi-Fi certified • 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: MCSO ~ MCS9, (20MHz, 40MHz, 80MHz, 160MHz) 802.11ax: MCSO ~ 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)
	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-ho

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

Roaming

Output Power³

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 4 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

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 3.3 v +/- 9 %

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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.

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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)



HP ProBook 4 G1i 16 inch Notebook AI PC

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.

Intel® BE201 Wi-Fi 7 Bluetooth® 5.4 non-vPro WW WLAN ^{1,2} **Wireless LAN Standards**

IEEE 802.11a

IEEE 802.11ac

IEEE 802.11ax

IEEE 802.11b

IEEE 802.11be

IEEE 802.11d

IEEE 802.11e

IEEE 802.11q

IEEE 802.11h

IEEE 802.11i

IEEE 802.11k

FFF 000 44

IEEE 802.11n

IEEE 802.11r



IEEE 802.11v Interoperability Wi-Fi certified **Frequency Band** 802.11b/g/n/ax 2.402 - 2.482 GHz • 802.11a/n/ac/ax 4.9 - 4.95 GHz (Japan) 5.15 - 5.25 GHz 5.25 - 5.35 GHz 5.47 - 5.725 GHz 5.825 - 5.850 GHz 5.955 - 6.415 GHz 6.435 - 6.515 GHz 6.535 - 6.875 GHz 6.895 - 7.115 GHz **Data Rates** • 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11ac: MCS0 ~ MCS9, (20MHz, 40MHz, 80MHz, 160MHz) 802.11ax: MCS0 ~ MCS11, (20MHz, 40MHz, 80MHz, 160MHz) • 802.11b: 1, 2, 5.5, 11 Mbps 802.11be: MCS0~13, (20MHz, 40MHz, ,80MHz, 160MHz, 320MHz) • 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11n: MCS 0 ~ MCS 15, (20MHz, 40MHz) Modulation Direct Sequence Spread Spectrum 1024QAM, 16-QAM, 256-QAM, 4096QAM, 64-QAM, BPSK, CCK, Direct Sequence Spread Spectrum, OFDM, QPSK Security • 802.1x authentication • AES-CCMP: 128 bit in hardware • IEEE 802.11i • IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g mode only • WAPI • 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 Power³ • 802.11b, 1Mbps: +17dBm minimum 802.11g, 6Mpbs: +16dBm minimum • 802.11a, 6Mbps: +17dBm minimum

802.11n, MCS7(HT20): +14dBm minimum
802.11n, MCS7(HT40): +13.5dBm minimum
802.11ac MCS9(VHT20): 13.5dBm minimum
802.11ac MCS9(VHT40): +13.5dBm minimum
802.11ac MCS9(VHT80): +12.5dBm minimum



	• 802.11ac MCS9(VHT160) : +10.5dBm minimum
	 802.11ax MCS11(HE20)(6GHz): +11.5dBm minimum
	 802.11ax MCS11(HE40)(6GHz): +7.5dBm minimum
	 802.11ax MCS11(HE80)(6GHz): +7.5dBm minimum
	 802.11ax MCS11(HE160)(6GHz): +7.5dBm minimum
	• 802.11be MCS13(EHT20)(6GHz) : 11.5dBm
	• 802.11be MCS13(EHT40)(6GHz) : 7.5dBm
	• 802.11be MCS13(EHT80)(6GHz) : 7.5dBm
	• 802.11be MCS13(EHT160)(6GHz) : 6.5dBm
	• 802.11be MCS13(EHT320)(6GHz) : 4.5dBm
Power Consumption	Transmit mode : 3.4 W
•	Receive mode : 1.8 W
	Idle mode (PSP) : 180 mW (WLAN Associated)
	Idle mode: 50 mW (WLAN unassociated)
	Connected Standby/Modern Standby : 10 mW
	Radio disabled : 8 mW
Power Management	ACPI and PCI Express compliant power management
Receiver Sensitivity ⁴	•802.11b, 1Mbps : -93.5dBm maximum
	•802.11b, 11Mbps : -85dBm maximum
	• 802.11a/g, 6Mbps : -90.5dBm maximum
	 802.11a/g, 54Mbps: -72.5dBm maximum
	 802.11n, MCS0(HT20): -90dBm maximum
	• 802.11n, MCS7(HT20) : -71.5dBm maximum
	• 802.11n, MCS0(HT40) : -88.5dBm maximum
	• 802.11n, MCS7(HT40) : -68.5dBm maximum
	• 802.11ac, MCS9(VHT20) : -88.5dBm maximum
	 802.11ac, MCS9(VHT40): -65.5dBm maximum
	 802.11ac, MCS9(VHT80) : -60.5dBm maximum
	 802.11ac, MCS9(VHT160): -58.5dBm maximum
	 802.11ax, MCS11(HE20)(6GHz): -59.5dBm maximum
	 802.11ax, MCS11(HE40)(6GHz): -56.5dBm maximum
	 802.11ax, MCS11(HE80)(6GHz): -53.5dBm maximum
	 802.11ax, MCS11(HE160)(6GHz): -51.5dBm maximum
	 802.11be, MCS13(EHT20)(6GHz): -55.5dBm maximum
	 802.11be, MCS13(EHT40)(6GHz): -53.5dBm maximum
	 802.11be, MCS13(EHT80)(6GHz): -51.5dBm maximum
	 802.11be, MCS13(EHT160)(6GHz): -48.5dBm maximum
	 802.11be, MCS13(EHT320)(6GHz): -45.5dBm 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 with CNVi Interface
Dimensions	30.00 x 22.00 x 2.30 mm (1.18 x 0.87 x 0.09 inch)



 Weight
 Type 2230: 3.1 g

 Operating Voltage
 3.3 v +/- 5 %

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

Bluetooth Specification 4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Compliant

Frequency Band 2042 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 Legalinks 2178 1 kbps/177 1 kbps

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

2Mbps LE

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

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. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).
- 2. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows OS, select processor, and a Wi-Fi 7 router, sold separately. Wi-Fi 7 is backwards compatible with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported. The specification for 802.11BE is a draft specification and is not final. If the final specification differs from the draft specification, it may affect the ability of the device to communicate with other 802.11BE devices.

HP 4G CAT16 1

Technology/Operating bands

WCDMA/HSPA+ operating bands:

Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL) Band 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL) Band 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL) Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL) Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)

LTE FDD/TDD operating bands:

Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL)

Band 12: 699 to 716 MHz (UL), 729 to 746 MHz (DL)

Band 13: 777 to 787 MHz (UL), 746 to 756 MHz (DL)

Band 14: 788 to 798 MHz (UL), 758 to 768 MHz (DL)

Band 17: 704 to 716 MHz (UL), 734 to 746 MHz (DL)

Band 18: 815 to 830 MHz (UL), 860 to 875 MHz (DL)

Band 19: 830 to 845 MHz (UL), 875 to 890 MHz (DL)

Band 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)

Band 20: 832 to 862 MHz (UL), 791 to 821 MHz (DL)

Band 25: 1850 to 1915 MHz (UL), 1930 to 1995 MHz (DL)

Band 26: 814 to 849 MHz (UL), 859 to 894 MHz (DL)

Band 28: 703 to 748 MHz (UL), 758 to 803 MHz (DL)

Band 29: 717 to 728 MHz (DL)

Band 3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL)

Band 30: 2305 to 2315 MHz (UL) 2350 to 2360 MHz (DL)

Band 32: 1452 to 1496 MHz (DL)

Band 34: 2010 to 2025 MHz (UL/DL)

Band 38: 2570 to 2620 MHz (UL/DL)

Band 39: 1880 to 1920 MHz (UL/DL)

Band 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL)

Band 40: 2300 to 2400 MHz (UL/DL)

Band 41: 2496 to 2690 MHz (UL/DL)



Band 42: 3400 to 3600 MHz (UL/DL) Band 43: 3400 to 3800 MHz (UL/DL) Band 46: 5150 to 5925 MHz (DL) Band 48: 3550 to 3700 MHz (UL/DL)

Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL) Band 66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL) Band 7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL) Band 71: 663 to 698 MHz (UL), 617 to 652 MHz (DL) Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)

Wireless protocol standards 3GPP LTE Rel15

LTE Specification, 100MHz 5 DLCA, 256 QAM, DL 1.0Gbps (CAT16)/

40MHz 2 ULCA, 256 QAM, UL 211Mbps (CAT18)

WCDMA 3GPP Release 8 UMTS Specification, DL UMTS: 384 kbps/UL 384 kbp, DL DC-HSPA+: 42 Mbps (CAT24)/UL 11.5 Mbps (CAT7)

WCDMA R99,

3GPP Release 5, 6, 7 and 8 UMTS Specification

GPS Standalone/A-GPS (MS-A, MS-B)

GPS bands GPS L1 (1575.42MHz), GLONASS L1 (1602MHz), Beidou B1

(1561.098MHz), Galileo E1 (1575.42MHz), QZSS (1575.42MHz)

Maximum data rates UE Category DL 19 (1.6 Kbps Download), UE Category UL 18 (211

Mbps Upload)

Maximum output power HSPA+: 23.5 dBm ()

LTE (all bands except B41): 23.0 dBm (Not support HPUE)

Maximum power consumption LTE: 1300 mA (peak); 1100 mA (average)

HSPA+: 1,100 mA (peak); 800 mA (average)

Form Factor M.2; 3052-S3 Key B **Weight** 8.7 g (0.307 oz)

Dimensions 52.00 x 30.00 x 2.30 mm (2.05 x 1.18 x 0.09 inch)

(Length x Width x Thickness)

embedded eSIM Yes

1 4G LTE module is optional, must be configured at the factory, requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.

RTK GBE Ethernet Controller 1

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)



HP ProBook 4 G1i 16 inch Notebook AI PC

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(S3/S4/S5): 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

IT Manageability

Auto MDI/MDIX Crossover cable detection

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.

Qualcomm 9205 LTE-M (CAT-M1 fSVC)^{1,2}

Technology/Operating bands

FDD LTE: 1700/2100 (Band 4), 1700/2100 (Band 66), 1800 (Band 3), 1900 (Band 2), 1900 (Band 25), 2100 (Band 1), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 14 upper), 700 (Band 28), 700 (band 85), 800 (Band 20), 800 (Band 27), 850 (Band 18 lower), 850 (Band 19 upper), 850 (Band 26), 850 (Band 5), 900 (Band 8)

MHz

GSM/GPRS/EGPRS: 1800, 1900, 850, 900 MHz

Wireless protocol standards 3GPP TS 21.111 V10.0.0: USIM and IC card requirements

3GPP TS 27.005 V10.0.1: Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short



Message Service (SMS) and Cell Broadcast Service (CBS)

3GPP TS 27.007 V10.0.8: AT command set for User Equipment (UE)

3GPP TS 31.102 V10.11.0: Characteristics of the Universal

Subscriber Identity Module (USIM) application

3GPP TS 31.11 V10.16.0: Universal Subscriber Identity Module

(USIM) Application Toolkit (USAT)

3GPP TS 36.124 V10.3.0: Electro Magnetic Compatibility (EMC) requirements for mobile terminals and ancillary equipment 3GPP TS 36.521-1 V14.3.0: User Equipment (UE) conformance specification; Radio transmission and reception; Part 1:

Conformance testing

3GPP TS 51.010-1 V10.5.0: Mobile Station (MS) conformance

specification; Part 1: Conformance specification

3GPP TS 51.011 V4.15.0: Specification of the Subscriber Identity

Module -Mobile Equipment (SIM-ME) interface

GPS Standalone GPS/Beidou/GLONASS/A-GPS (XTRA) **GPS** bands

1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou

1561.098 MHz

Maximum data rates LTE FDD: 375.00 Kbps(Download), 1119.00 Kbps(Upload)

> GPRS: 107.00 Kbps(Download), 85.60 Kbps(Upload) EGPRS: 296.00 Kbps(Download), 236.80 Kbps(Upload)

LTE (all bands except B41): 21.5 dBm Maximum output power

GSM: 34.0 dBm

Maximum power consumption LTE: 151 mA(peak), 16 mA(average)

Form Factor M.2

Weight 4.0 g (0.141 oz)

Dimensions 22.00 x 42.00 x 2.30 mm (0.87 x 1.65 x 0.09 inch)

(Length x Width x Thickness)

embedded eSIM Support

- 1. LPWAN (also called Mobile Narrowband) supports HP Protect & Trace with Wolf Connect service through the subscription term, but does not support mobile broadband use.
- 2. 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 ¹

Weight (DC Cable Included)

180g(+/-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 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

Output power 5V/15W

9V/27W 12V/36W 15V/45W 5V/9V/12V/1

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 1.8m ^{1,2} 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

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)

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



HP 65W Standard USB-C Straight AC Power Adapter ^{1,2} 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

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 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



HP 100W Slim USB Type-C® AC power adapter 1,2

Weight (DC Cable Included) 380g ± 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

Output

Output power 5V/15W

9V/27W 12V/60W 15V/75W 20V/100W

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

Hold-up time 100% load 5ms at 115 Vac input/80% load 10ms at 115 Vac input Output Over Current Protection 5V/9V/12V/15V<125% max current, 20V<135% max current

AC Inlet Type C6

DC Cable Connector USB type C

DC Cable Material PVC

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, IEC 62368-1:2014 and

IEC62368-1:2018, EN62368-1:2020+A11, UL 62368-1

Agency approvals — C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC, CU(EAC), KCC(Safety+EMC), NOM-001 NYCE, Nrcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC, Ukraine(CoC+DoC+RoHS+ECO)



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

RX 48Whr Long Life Polymer Fast Charge 3 cell Battery ³

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

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

Available

No

RX 56Whr Long Life Polymer Fast Charge 3 cell Battery ³

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

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 No

Available



HP ProBook 4 G1i 16 inch Notebook AI PC

AUDIO

Codec Audio I/O Ports

Sampling

Internal Speaker

Realtek ALC3247

3.5mm Headset: CTIA only; Headphone-out

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

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



ODTIONS

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	
	Poly Voyager Free 60 UC M Carbon Black Earbuds +BT700 USB-C	7Y8L8AA
	Adapter +Basic Charge Case	
	Poly Voyager Free 60/60+ Black Earbuds (2 Pieces)	8L649AA,8L5A6AA
	Poly Voyager Free 60/60+ Microsoft Teams Certified Black Earbuds	8L5A8AA
	(2 Pieces)	
	Poly Voyager Free 60+ UC Carbon Black Earbuds +BT700 USB-C	7Y8G4AA,7Y8H2AA
	Adapter +Touchscreen Charge Case	
	Poly Voyager Free 60+ UC M Carbon Black Earbuds +BT700 USB-C	7Y8H0AA
	Adapter +Touchscreen Charge Case	
Audio - Headset	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-	8X217AA
	C/A Adapter	
	Poly Blackwire 3320 Stereo Microsoft Teams Certified USB-C	8X220AA
	Headset +USB-C/A Adapter	
	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	
	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	
	Adapter	



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	783R1AA
USB-A Headset	
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	
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)	
Poly Savi 7310-M Office DECT 1880-1900 MHz Single Ear Headset	8D3K7AA
(EMEA + APJ)	
Poly Savi 7310-M Office DECT 1920-1930 MHz Single Ear Headset	7S439AA
(NA)	
Poly Savi 7320 Office Stereo DECT 1880-1900 MHz Headset (EMEA	8D3F7AA
+ APJ)	
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)	01.502.4.4
Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1920-	8L583AA
1930 MHz Headset (NA)	0031/544
Poly Savi 8210 Office DECT 1880-1900 MHz Single Ear Headset	8D3K5AA
(EMEA + APJ)	0021/044
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)	77T29AA
Poly Savi 8210 UC Microsoft Teams Certified DECT 1880-1900 MHz	8D3F1AA
USB-A Headset (EMEA + APJ)	
Poly Savi 8210 UC Microsoft Teams Certified DECT 1920-1930 MHz	77T31AA
USB-A Headset (NA)	
Poly Savi 8210-M Office DECT 1880-1900 MHz Single Ear Headset	8D3J8AA
(EMEA + APJ)	
Poly Savi 8210-M Office DECT 1910-1920 MHz Single Ear Headset	8D3K1AA
(NA)	
Poly Savi 8210-M Office DECT 1920-1930 MHz Single Ear Headset	7S447AA
(NA)	
Poly Savi 8220 Office Stereo DECT 1880-1890 MHz Headset (EMEA	8D3J1AA
+ APJ)	0021244
Poly Savi 8220 Office Stereo DECT 1880-1900 MHz Headset (EMEA	8D3J2AA
+ APJ)	0021444
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 +	8D3F2AA
APJ)	טטטו צהה
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)	003131111
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)	
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 (EMEA + APJ)	
Poly Savi 8245 Office DECT 1880-1900 MHz USB-A Headset (EMEA	8D3H1AA
+ APJ)	
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 (EMEA + APJ)	
Poly Savi 8245-M Office Microsoft Teams Certified DECT 1880- 1900 MHz USB-A Headset (EMEA + APJ)	8D3H7AA



Poly Savi 8245-M Office Microsoft Teams Certified DECT 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 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 (EMEA + 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 (EMEA + 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	77Z30AA



+BT700 dongle	
Poly Voyager 4320 UC Stereo USB-A Headset +BT700 USB-A	77Y99AA
Adapter +Charging Stand	
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
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
Headset +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	
Poly Sync 40+ USB-A USB-C Speakerphone +BT700 USB-A Adapter	772C5AA

Audio - Speaker phone

	Poly Sync 60 Microsoft Teams Certified Speakerphone	77P41AA
	Poly Sync 60 Speakerphone	772C2AA
Camera	HP 435 Webcam	77B10AA
	HP 625 Webcam	6Y7L1AA
	HP USB-A 325 Webcam	53X27AA,53X27UT
Cases	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 USB-C™ 120W G5 Dock	5TW10AA
	HP USB-C™ G5 Essential Dock	72C71AA
	HP USB-C™/A 120W G2 Universal Dock	5TW13AA
	HP Thunderbolt™ 120W G4 Dock	4J0A2AA
	HP Thunderbolt™ 280W G4 Dock w/Combo Cable	4J0G4AA
Hub	HP 4K USB-C Multiport Hub	6G843AA,6G843UT
	HP Universal USB-C Hub and Laptop Charger Combo	9Н0Н9АА
	HP Universal USB-C Multiport Hub	50H55UT
	HP USB-C to USB-A Hub	Z6A00AA
	HP USB-C Travel Hub G3	86S97AA,86S97UT
Keyboard	HP 125 Wired Keyboard	266C9AA
	HP 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
Keyboard & Mouse Combo	HP 225 Antimicrobial Wired Mouse and Keyboard Combo	286K3AA
	HP 225 Wired Mouse and Keyboard Combo	286J4AA
	HP 225 Wired Mouse and Keyboard Combo White	86J24AA



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	HP 235 Wireless Mouse and Keyboard Combo	1Y4D0AA,1Y4D0UT
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA.9SR36UT
Mouse	HP 105 Mouse Pad	8X595AA
Mouse		
	HP 125 Wired Mouse	265A9UT
	HP 128 Laser Wired Mouse	265D9AA
	HP 205 Desk Mat	8X597AA
	HP 235 Slim Wireless Mouse	4E407UT
	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	8T6M0UT
	HP 715 Rechargeable Multi-Device Bluetooth Mouse	6E6F0AA
	HP 925 Ergonomic Vertical Wireless Mouse	6H1A5AA
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	600Q8AA,600Q8UT
	HP 65W USB-C Laptop Charger	671R3AA,671R3UT



CHANGELOG

Date of change	Version History		Description of change
April 1, 2025	V1 to V2	Updated	Battery Life
April 3, 2025	V2 to V3	Updated	USB Power Delivery
May 12, 2025	V3 to V4	Updated	Memory Section

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