

HP EliteBook X G2i 14 inch Notebook Next Gen AI PC



Also available in
Eclipse Gray

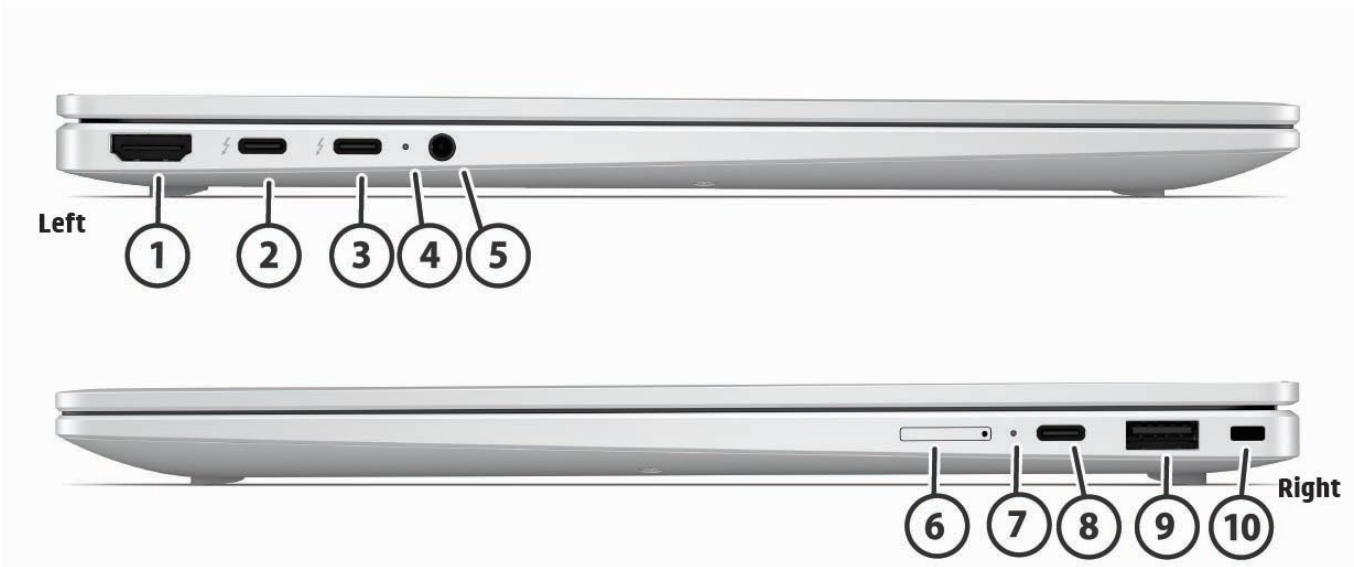


Also available in
Atmospheric Blue



Front

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



Sides

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

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

PRODUCT NAME

HP EliteBook X G2i 14 inch Notebook Next Gen AI PC



OPERATING SYSTEM

Preinstalled

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

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 ^{2,3,4,5,6}	Cores	Number of P-cores	Number of E-cores	Number of LP E-cores	Threads	Smart Cache	Max Turbo Frequency ³			Intel SiPP/ vPro® Enterprise	Integrated Graphic	NPU
							P-cores	E-cores	LP E-cores			
Intel® Core™ Ultra X7 processor 368H	16 cores	4	8	4	16	18 MB	5.00 GHz	3.80 GHz	3.60 GHz	X	Intel® ARC™ B390 GPU Intel® ARC™ Pro B390 GPU	50 TOPS
Intel® Core™ Ultra X7 processor 358H	16 cores	4	8	4	16	18 MB	4.80 GHz	3.50 GHz	3.30 GHz		Intel® ARC™ B390 GPU	50 TOPS
Intel® Core™ Ultra7 processor 366H	16 cores	4	8	4	16	18 MB	4.80 GHz	3.60 GHz	3.40 GHz	X	Intel® Graphics	50 TOPS
Intel® Core™ Ultra7 processor 356H	16 cores	4	8	4	16	18 MB	4.70 GHz	3.50 GHz	3.30 GHz		Intel® Graphics	50 TOPS
Intel® Core™ Ultra5 processor 338H	12 cores	4	4	4	12	18 MB	4.70 GHz	3.40 GHz	3.30 GHz	X	Intel® ARC™ B370 GPU Intel® ARC™ Pro B370 GPU	47 TOPS
Intel® Core™ Ultra5 processor 335	8 cores	4	0	4	8	12 MB	4.60 GHz	NA	3.40 GHz	X	Intel® Graphics	47 TOPS
Intel® Core™ Ultra5 processor 325	8 cores	4	0	4	8	12 MB	4.50 GHz	NA	3.40 GHz		Intel® Graphics	47 TOPS

Processor Family
Intel® Core™ Ultra X7 processor

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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. Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration.
 4. Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third party software may have specific configuration or compatibility requirements. Potential NPU inferencing performance varies by use, configuration, and other factors.
 5. For full Intel® vPro® functionality, Windows 10 (or higher) Pro or Enterprise 64 bit edition, 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>
 6. In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on <http://www.support.hp.com>.
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GRAPHICS

Integrated

Intel® ARC™ B390 GPU ⁷

Supported Protocols

Support DirectX®12, HDCP 2.3, HDMI 2.1 (up to 4K 60Hz)

Display supported (including internal display; dock may be required) up to 4

Codec

Hardware Acceleration HEVC (H.265) CODEC is supported

7. 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

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

Non-Touch

- 35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, Low Blue Light, 800 nits, sRGB 100%, Sure View 6⁸
- 35.6 cm (14") diagonal, 3K (2880 x 1800), OLED, 120Hz (VRR), UWVA, Anti-Glare, OLED+Low Blue Light, 500 nits, DCI-P3 100%
- 35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, WLED+Low Blue Light, 400 nits, Low power, sRGB 100%
- 35.6 cm (14") diagonal, WUXGA (1920 x 1200), OLED, UWVA, Anti-Glare, OLED+Low Blue Light, 300 nits, DCI-P3 100%

Touch

- 35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Touch on Panel, Anti-Glare, Low Blue Light, 800 nits, sRGB 100%, Sure View 6⁸
- 35.6 cm (14") diagonal, 3K (2880 x 1800), Tandem OLED, 120Hz (VRR), UWVA, Direct Bonding Touch Screen, BrightView, OLED+Low Blue Light, 700 nits, DCI-P3 100%
- 35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Touch on Panel, Anti-Glare, WLED, 500 nits, sRGB 100%

Display Size (Diagonal)

35.6 cm (14")

Aspect Ratio

16:10

Screen to Body Ratio

Up to 90.08%

Max Hinge Open Angle

177±3°

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



DOCKING (SOLD SEPARATELY)

Docking station model name

HP Thunderbolt™ 100W G6 Dock

Total number of supported displays (incl.the notebook)

4

Max. resolutions supported

(4) 4K @60Hz*

(2) 4K @ 120Hz*

(3) QHD @ 120Hz*

(1) QHD @ 360Hz*

Dock Connectors

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

Technical limitations

*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 name

HP Thunderbolt™ 180W G6 Dock

Total number of supported displays (incl.the notebook)

4

Max. resolutions supported

(4) 4K @60Hz*

(2) 4K @ 120Hz*

(3) QHD @ 120Hz*

(1) QHD @ 360Hz*

Dock Connectors

1 x HDMI 2.1, 2 x DisplayPort 1.4, 1 x Thunderbolt 4, 1 x USB-C 3.2 Gen 2 DisplayPort

Technical limitations

*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 name

HP Thunderbolt™ 280W G6 Dock

Total number of supported displays (incl.the notebook)

4



Max. resolutions supported

- (4) 4K @60Hz*
- (2) 4K @ 120Hz*
- (3) QHD @ 120Hz*
- (1) QHD @ 360Hz*

Dock Connectors

1 x HDMI 2.1, 2 x DisplayPort 1.4, 1 x Thunderbolt 4, 1 x USB-C 3.2 Gen 2 DisplayPort

Technical limitations

*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 name

HP USB-C™ 100W G6 Dock

Total number of supported displays (incl.the notebook)

3

Max. resolutions supported

- (1) 4K @120hz*
- (2) 4K @120hz*
- (3) 4K @60hz*



Dock Connectors

1 x HDMI 2.1, 2 x DisplayPort 1.4

Technical limitations

*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.

Highest resolution with dual displays is two 8K@ 30Hz host in High Resolution mode.

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

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



STORAGE AND DRIVES

Storage

- 2 TB PCIe® Gen5 NVMe™ SSD Value ⁹
- 2 TB PCIe® Gen5x4 NVMe™ Self Encrypted OPAL2 SSD ⁹
- 2 TB PCIe® Gen5x4 NVMe™ SSD ⁹
- 1 TB PCIe® Gen5 NVMe™ SSD Value ⁹
- 1 TB PCIe® Gen5x4 NVMe™ Self Encrypted OPAL2 SSD ⁹
- 1 TB PCIe® Gen5x4 NVMe™ SSD ⁹
- 1 TB PCIe® NVMe™ SSD Value ⁹
- 512 GB PCIe® Gen5 NVMe™ Self Encrypted OPAL2 SSD Value ⁹
- 512 GB PCIe® Gen5 NVMe™ SSD Value ⁹
- 512 GB PCIe® NVMe™ SSD Value ⁹

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

64GB LPDDR5X-9600 MT/s (onboard)

Memory

- 64GB LPDDR5X-9600 MT/s (onboard)
- 64GB LPDDR5X-8533 MT/s (onboard)
- 32GB LPDDR5X-9600 MT/s (onboard)
- 32GB LPDDR5X-8533 MT/s (onboard)
- 24GB LPDDR5X-8533 MT/s (onboard)
- 16GB LPDDR5X-8533 MT/s (onboard)

Memory Slots

No memory slots. Memory soldered down.

System runs up to 9600 MT/s

Supports Dual Channel Memory.

Memory is non-accessible / non-upgradeable.



NETWORKING /COMMUNICATIONS

Items below may be optional.

WLAN

Intel® BE211 Wi-Fi 7 Bluetooth® 6.0 vPro® WW WLAN ¹⁰

Intel® BE211 Wi-Fi 7 Bluetooth® 6.0 non-vPro® WW WLAN ¹⁰

WWAN

MediaTek T900 5G NR WWAN ¹¹

MediaTek T900 5G NR with HP Go WWAN ¹¹

MediaTek T700 5G NR WWAN ¹¹

MediaTek T700 5G NR with HP Go WWAN ¹¹

LPWAN

HP RW220-GL LTE (Low Power) (CAT-1bis) ¹²

NFC

NFC Mirage WNC XRAV-1

Miracast

Native Miracast Support ¹³

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

11. 5G module is optional. WWAN-ready configuration must be selected at purchase to add WWAN module at a later date (WWAN After Market Option Kit). Module designed for 5G NR SA(standalone) and 5G NR NSA (non-standalone) Public and Private networks including Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module includes embedded eSIM. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards



compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier and frequency bands supported.

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

Audio

Audio by Poly Studio

4 Integrated stereo speakers

Discrete Amplifiers

2 Integrated dual array microphone

AI noise reduction

Speaker Power

1W / 8 ohm per speaker

Camera

5MP AI camera, IR camera

Sensors

Ambient Light Sensor ¹⁴

Color Sensor with Ambient Light Sensing

Fingerprint Sensor

Gyroscope

Hall Effect Sensor

HP Sure Platform

HP Tamper Lock

Inertial Measurement Unit Sensor

Thermal Sensor

[14. Ambient light sensor included with Sure View display configurations.](#)



KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Premium Keyboard, spill-resistant, Backlit keyboard ¹⁵

HP Premium Keyboard, spill-resistant, Privacy, Backlit keyboard ¹⁵

Pointing Device

Clickpad; Haptic Trackpad

Microsoft Precision Touchpad Default Gestures Support

Multi-touch gesture support

Function Keys

ESC - System information

F1 - Audio Mute

F2 - Volume Down

F3 - Volume Up

F4 - Mic Mute

F5 - Media (KB backlight for Brazilian)

F6 - Display Switching

F7 - Sure View (Snipping for non Sure view)

F8 - Brightness Down

F9 - Brightness up

F10 - Keyboard Backlight (Copilot for Brazilian)

F11 - Programmable Key(HP app)

F12 - Home

Power Button (with LED)

Insert

Delete

End

Microsoft Copilot ¹⁶



Hidden Function Keys

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

15. Keyboard is replaceable by an authorized HP service provider or trained IT personnel.

16. 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) ¹⁷

Edge Customization

HP Connection Optimizer

HP Hotkey Support

HP IQ ¹⁸

HP Notifications

HP PC Hardware Diagnostics UEFI

HP PC Hardware Diagnostics Windows

HP Privacy Settings

HP Services Scan ¹⁹

HP Smart Support ²⁰

HP Support Assistant ²¹

HSA Fusion for Commercial

HSA Telemetry for Commercial

HP app (BNB, MWS, SFF & TWR) or HP app with Multicamera³ support (AIO & Mini) ²²

Poly Lens ²³

Manageability Features

HP Client Catalog (download) ²⁴

HP Client Management Script Library (download) ²⁵

HP Cloud Recovery ²⁶

HP Connect for Microsoft Endpoint Manager ²⁷

HP Driver Packs (download) ²⁸

HP Image Assistant (download) ²⁹

HP Manageability Integration Kit (download) ³⁰

HP Patch Assistant (download) ³¹

HP Power Manager with Battery Health Manager (download) ³²

Security Features

Secured-Core PC Enable ³³



- Windows Hello Enhanced Sign-In Security (ESS)
- HP Wolf Security for Business³⁴ which includes:
 - HP Sure Admin³⁵
 - HP Sure Click³⁶
 - HP Sure Recover³⁷
 - HP Sure Run³⁸
 - HP Sure Sense³⁹
 - HP Sure Start⁴⁰
 - HP Tamper Lock⁴¹

Security- TPM

Model
Nuvoton NPCT760HAEYX

Firmware Version
7.2.4.1

TCG
TCG TPM 2.0

FIPS 140-3 Compliant
Yes

Model
STMicro ST33KTPM2X32DKG9

Firmware Version
9.257

TCG
TCG TPM 2.0

FIPS 140-3 Compliant
Yes

BIOS

Absolute Persistence Module ⁴²

HP BIOS Update via Network

HP BIOSphere ⁴³

HP Secure Erase ⁴⁴

HP DriveLock & Automatic DriveLock

IPv6 Support

Yes

FirstNet Certified

Yes

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

Yes

UEFI version

2.9

Class

3

17. Microsoft 365 sold separately and requires Internet access for activation.

18. HP IQ delivery app is preloaded on select HP PCs; it will be automatically updated to the future featured HP IQ application if you have auto updates enabled in Windows or will be available for download from the Microsoft Store. The future featured HP IQ app uses artificial intelligence. Features vary by configuration. For complete details see https://support.hp.com/us-en/document/ish_13696672-13696717-16.

19. HP Services Scan automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration data and health insights and is available preinstalled on select products, thru HP Factory Configuration Services; or it can be downloaded. For more information about how to enable HP Smart Support or for download, please visit <http://www.hp.com/smart-support>.

20. HP Smart Support automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration data and health insights and is available preinstalled on select products, thru HP Factory Configuration Services; or it



can be downloaded. For more information about how to enable HP Smart Support or for download, please visit

<http://www.hp.com/smart-support>.

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

22. HP app requires Windows 10 or higher OS.

23. Poly Lens Desktop requires a Windows OS.

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

25. HP Client Management Script Library (<https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools>).

26. 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/document/c05115630>.

27. 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.

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

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

30. HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement>.

31. HP Patch Assistant available on select HP PCs with the HP Manageability Kit that are managed through Microsoft System Center Configuration Manager. HP Manageability Integration Kit can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>.

32. 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.

33. 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.

34. HP Wolf Security for Business requires Windows 10 or 11 (Pro or Home) or higher, includes various HP security features and is available on HP X, Ultra, Pro, Elite, Engage and Workstation products. See product details for included security features.

35. 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

36. HP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.

37. 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.

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

39. HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS.

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

41. HP Tamper Lock can be Enabled/disabled by customers or IT administrator with administrator authority.

42. 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/>.

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

44. HP Secure Erase implements the methods outlined in the National Institute of Standards and Technology Special.



POWER

Power supply availability may vary by country.

Battery is internal and replaceable by customer.

Higher wattage adapter is recommended for best performance and fastest charging.

Using lower-capacity third-party USB Type-C® power cables may reduce power delivery.

Power Supply

HP 100W Wall Mount USB Type-C® GaN Halogen Free AC power adapter

HP 65W Wall Mount USB Type-C® GaN Halogen Free AC power adapter

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

Battery

HP Long Life 3 cell, 56Wh Polymer

HP Long Life 6 cell, 68Wh Polymer

Battery Recharge Time

Supports battery HP Fast Charge: approximately 50% in 30 minutes ⁴⁵

Power Cord

3-wired plug- 1.0m for standard type adapter

USB Type-C® Power Cable- 2.0m for wall mount adapter

Battery life

MM30: Up to 21 hours with 68Whr battery (Intel Core Ultra 5 335, UMA graphic, brightness set to 250nits on a 14-inch WUXGA 400nits LP LCD display, 16GB LPDDR5X memory, 512GB SSD) ⁴⁶

Teams 3x3: Up to 15 hours 15 minutes with 68Whr battery (Intel Core Ultra X7 358H, UMA graphic, brightness set to 150nits on a 14-inch WUXGA 400nits LP LCD display, 32GB LPDDR5X memory, 512GB SSD) ⁴⁷

Web Browsing: Up to 25 hours 30 minutes with 68Whr battery (Intel Core Ultra X7 358H, UMA graphic, brightness set to 150nits on a 14-inch WUXGA 400nits LP LCD display, 32GB LPDDR5X memory, 512GB SSD) ⁴⁸

⁴⁵. 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.

46. Test configuration: MobileMark 30 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See <http://www.bapco.com> for additional details.

47. Test configuration: HP factory image, balanced power mode with Windows Studio Effects on. Teams 3x3 conferencing 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.

48. Test configuration: HP factory image. Microsoft web browsing 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 (CER Test Methodology).



WEIGHT & DIMENSIONS

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

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

Product Weight

Starting at 0.999 kg (2.202 lb) with 56.00 Wh battery

Product Dimensions (w x d x h)⁴⁹

Width: 312.70 (12.31 in)

Depth: 217.00 mm (8.54 in)

Height Front: 7.9 mm (0.31 in) – 7.95 mm (0.31 in)

Height Rear: 13.15 mm (0.52 in) – 14.35 mm (0.56 in)

Maximum Height 15.95 mm (0.63 in) – 17.15 mm (0.68 in)

Packaging and Pallet Dimensions

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

⁴⁹. Typical dimension. Actual dimension may vary +/- 0.5mm. Height may vary based on configuration. Maximum Height does not include Rubber feet.



PORTS/SLOTS

Left side

2 x Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1) ⁵⁰

1 x HDMI 2.1

1 x headphone/mic combo jack

Right side

1 x USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)

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

1 x Nano SIM card slot (Optional)

1 x Nano Security Slot

⁵⁰. USB 20Gbps signaling rate is not available with Thunderbolt™ 4. Actual throughput may vary.



ENVIRONMENTAL DATA

Environmental Data	Eco-Label Certifications & Declarations	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 • China Energy Conservation Program (CECP) • China State Environmental Protection Administration (SEPA) • Taiwan Green Mark • Korea Eco-label • Japan PC Green label*		
	Sustainable Impact Specifications	• Product Carbon Footprint • At least 25% ocean bound plastic in the Speaker (part(s))¹ • At least 30% post-consumer recycled plastic² • At least 85% recycled metal³ • External Power Supply 90% Efficiency • Low Halogen⁴ • 100% of HP paper-based packaging is from recycled or certified sustainable sources⁵ • Bulk packaging available • Outside Box and corrugated cushions are 100% sustainably sourced and recyclable • Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable		
	System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a “Typically Configured Notebook”.		
	Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
	Normal Operation (Sort idle)	4.39 W	4.77 W	4.24 W
	Normal Operation (Long idle)	0.73 W	0.68 W	0.74 W



	Sleep	0.73 W	0.68 W	0.74 W
	Off	0.3 W	0.31 W	0.31 W
		Note: Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.		
	Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
	Normal Operation (Short idle)	15 BTU/hr	16 BTU/hr	15 BTU/hr
	Normal Operation (Long idle)	2 BTU/hr	2 BTU/hr	3 BTU/hr
	Sleep	2 BTU/hr	2 BTU/hr	3 BTU/hr
	Off	1 BTU/hr	1 BTU/hr	1 BTU/hr
		*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.		
	Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L _{WAd} , bels)	Sound Pressure (L _{pAm} , decibels)	
	Typically Configured - Idle	2.2	14	
	Fixed Disk - Random writes	2.2	15	
	Active Mode	2.7	26	
	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 ISO11469 and ISO1043. - This product is 94.0% recycle-able when properly disposed of at end of life.		
	Packaging Materials	External:	PAPER/Corrugated	230 g
			PAPER/Molded Pulp	88 g
			PAPER/Paper	25 g
		The plastic packaging material contains at least 0% recycled content.		
		The corrugated paper packaging materials contains at least 50% recycled content.		
	RoHS Compliance	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 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 Biphenyls (PBBs) • Polybrominated Biphenyl Ethers (PBBEs) • Polybrominated Biphenyl Oxides (PBBOs) • Polychlorinated Biphenyl (PCB) • Polychlorinated Terphenyls (PCT) • Polyvinyl 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)
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	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 Recycling	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	For more information about HP's commitment to the environment: • Sustainable Impact Report ○ https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06040843 • 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_tcoISO • ISO 14001 certificates ○ https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c04777932
	Footnotes	1. Percentage of ocean-bound plastic contained in each component varies by product. Ocean Bound plastic is expressed as a percentage of the total weight plastic. Ocean Bound plastic is based on the definition set by the UL2809 standard. 2. Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT standard for computers, IEEE 1680.1-2018 standard. 3. Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams. 4. External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen. 5. HP paper and fiber-based packaging for PCs, displays, home and office print, and supplies is reported by suppliers as recycled or certified, with a minimum of 97% by volume verified by HP. Packaging is the box that comes with the product and all paper-based materials inside the box. Packaging for personal systems accessories and spare parts is not included. Plastic cushions are made from >90% recycled plastic.



SERVICE AND SUPPORT ⁵¹

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

51. 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

Nominal Operating Voltage	20.0 V
Max Operating Power	UMA < 100 W
Temperature	
Operating	0° to 35° C (32° to 95° F) System performance may be reduced above 32°C (89.6°F)
Non - operating	-20° to 60° C (-4° to 140° F) System performance may be reduced above 32°C (89.6°F)
Relative Humidity	
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	1.043 grms
Non - operating	3.500 grms
Altitude(unpressurized)	
Operating	3,048 m (10,000 ft)
Non - operating	12,192 m (40,000 ft)
Industry Standard Certifications	
Regulatory Model Number	HSN-I65C-4
CSA/UL 62368-1	Yes
ENERGY STAR® 1	Yes
FCC/ICES/CISPR/VCCI	Yes
CE MARKING	Yes
GS Mark	No
China CCC/SRRC/CEL	Yes
Taiwan BSMI/NCC	Yes
Korea KCC/KC/KES	Yes
Ukraine NSoC/TEC	Yes
EAEU Compliance	Yes

Saudi Arabian Compliance	Yes
TCO	Yes
EPEAT Gold ²	Yes
Low Blue Light	Yes
WW RoHS	Yes
CECP	No
	These are requirements from the Category PM, which usually occur after RTP. At this stage, no requests have been received yet.
Medical EMC: IEC 60601-1-2:2014 EN60601-1-2: 2015	Yes
SEPA	No
	These are requirements from the Category PM, which usually occur after RTP. At this stage, no requests have been received yet.
MIL - STD Testing ³	810H

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

2. Based on US EPEAT® registration according to EPEAT standards. EPEAT® status varies by country. Visit <http://www.epeat.net> for more information.

3. 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

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

35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, Low Blue Light, 800 nits, sRGB 100%, Sure View 6 ¹	Active Area	301.590 x 188.500 mm (typ)
	Dimensions (W x H)	306.890 x 197.900 mm (max)
	Weight	230 g (max)
	Diagonal Size	14 inch
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	1500:1 (typ)
	Refresh Rate	60Hz
	Brightness	800 nits (typ)
	Pixel Resolution	RGB
	Pixel Resolution - Format	1920x1200 (WUXGA)
	Aspect Ratio	16:10
	Backlight	Low Blue Light
	Color Gamut Coverage	sRGB 100%
	Color Depth	8
	Viewing Angle	89/89/89/89
	Low Blue Light	Yes
	Power Consumption	EBL@150nits: 1.50 W (Max)

35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Touch on Panel, Anti- Glare, Low Blue Light, 800 nits, sRGB 100%, Sure View 6 ¹	Active Area	301.590 x 188.500 mm (typ)
	Dimensions (W x H)	306.890 x 197.900 mm (max)
	Weight	260 g (max)
	Diagonal Size	14 inch
	Surface Treatment	Anti-Glare
	Touch Enabled	Yes
	Contrast Ratio	1500:1 (typ)
	Refresh Rate	60Hz
	Brightness	800 nits (typ)
	Pixel Resolution	RGB

	Pixel Resolution - Format	1920x1200 (WUXGA)
	Aspect Ratio	16:10
	Backlight	Low Blue Light
	Color Gamut Coverage	sRGB 100%
	Color Depth	8
	Viewing Angle	89/89/89/89
	Low Blue Light	Yes
	Power Consumption	EBL@150nits: 1.90 W (Max)
35.6 cm (14") diagonal, 3K (2880 x 1800), Tandem OLED, 120Hz (VRR), Direct Bonding Touch Screen, UWVA, BrightView, OLED+Low Blue Light, 700 nits, DCI-P3 100%	Active Area	301.824 x 188.640 mm (typ)
	Dimensions (W x H)	305.450 x 197.720 mm (max)
	Weight	180 g (max)
	Diagonal Size	14 inch
	Surface Treatment	BrightView
	Touch Enabled	Yes
	Contrast Ratio	1000000:1 (typ)
	Refresh Rate	120Hz
	Brightness	700 nits (typ)
	Pixel Resolution	RGB
	Pixel Resolution - Format	2880x1800 (3K)
	Aspect Ratio	16:10
	Backlight	OLED+LBL
	Color Gamut Coverage	DCI-P3 100%
	Color Depth	8+2 FRC
	Viewing Angle	89/89/89/89
	Low Blue Light	Yes
	Power Consumption	EBL@150nits: 3.70 W (Max)
35.6 cm (14") diagonal, 3K (2880 x 1800), OLED, 120Hz (VRR), UWVA, Anti-Glare, OLED+Low Blue Light, 500 nits, DCI-P3 100%	Active Area	301.824 x 188.640 mm (typ)
	Dimensions (W x H)	305.450 x 197.720 mm (max)
	Weight	132 g (max)
	Diagonal Size	14 inch
	Surface Treatment	Anti-Glare



	Touch Enabled	No
	Contrast Ratio	1000000:1 (typ)
	Refresh Rate	120Hz
	Brightness	500 nits (typ)
	Pixel Resolution	RGB
	Pixel Resolution - Format	2880x1800 (3K)
	Aspect Ratio	16:10
	Backlight	OLED+LBL
	Color Gamut Coverage	DCI-P3 100%
	Color Depth	8+2 FRC
	Viewing Angle	89/89/89/89
	Low Blue Light	Yes
	Power Consumption	EBL@150nits: 4.20 W (Max)
35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Touch on Panel, Anti- Glare, WLED, 500 nits, sRGB 100%	Active Area	301.590 x 188.500 mm (typ.)
	Dimensions (W x H)	306.594 x 197.596 mm (max)
	Weight	220 g (max)
	Diagonal Size	14 inch
	Surface Treatment	Anti-Glare
	Touch Enabled	Yes
	Contrast Ratio	1500:1 (typ), 1200:1 (min.)
	Refresh Rate	60 (typ)
	Brightness	500 nits (typ)
	Pixel Resolution	RGB
	Pixel Resolution - Format	1920x1200 (WUXGA)
	Aspect Ratio	16:10
	Backlight	WLED
	Color Gamut Coverage	sRGB 100%
	Color Depth	8
	Viewing Angle	89/89/89/89
	Low Blue Light	No
	Power Consumption	EBL@150nits: 1.37 W (Max)
		EBL@200nits: 1.68 W (Max)



35.6 cm (14") diagonal, WUXGA (1920 x 1200), LCD, UWVA, Anti-Glare, WLED+Low Blue Light, 400 nits, Low power, sRGB 100%	Active Area	301.590 x 188.500 mm (typ)
	Dimensions (W x H)	307.590 x 199.550 mm (max)
	Weight	210 g (max)
	Diagonal Size	14 inch
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	1200:1 (typ)
	Refresh Rate	60 (typ)
	Brightness	400 nits (typ)
	Pixel Resolution	RGB
	Pixel Resolution - Format	1920x1200 (WUXGA)
	Aspect Ratio	16:10
	Backlight	WLED+Low Blue Light
	Color Gamut Coverage	sRGB 100%
	Color Depth	8
	Viewing Angle	89/89/89/89
	Low Blue Light	Yes
	Power Consumption	EBL@150nits: 1.29 W (Max) EBL@200nits: 1.66 W (Max)

35.6 cm (14") diagonal, WUXGA (1920 x 1200), OLED, UWVA, Anti-Glare, OLED+Low Blue Light, 300 nits, DCI-P3 95%	Active Area	301.824 x 188.640 mm (typ)
	Dimensions (W x H)	301.824 x 198.020 mm (max)
	Weight	174 g (max)
	Diagonal Size	14 inch
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	1000000:1 (typ)
	Refresh Rate	60 Hz (typ)
	Brightness	300 nits (typ)
	Pixel Resolution	RGB
	Pixel Resolution - Format	1920x1200 (WUXGA)
	Aspect Ratio	16:10
	Backlight	OLED+LBL



Color Gamut Coverage	DCI-P3 100%
Color Depth	8
Viewing Angle	89/89/89/89
Low Blue Light	Yes
Power Consumption	EBL@200nits: 2.70 W (Max)

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



STORAGE

2 TB PCIe® Gen5 NVMe™ SSD Value ¹	Form Factor	M.2 2280
	Capacity	2 TB
	NAND Type	Value
	Weight	10g (0.02 lb)
	Interface	PCIe Gen5 NVMe
	Sequential Read	10000 +/-10%
	Sequential Write	8000 +/-10%
	Logical Blocks	4000797360
	Features	Pyrite 2.0; TRIM; L1.2 Not all features are available in all versions
2 TB PCIe® Gen5x4 NVMe™ Self Encrypted OPAL2 SSD ¹	Form Factor	M.2 2280
	Capacity	2 TB
	NAND Type	Performance
	Weight	10g (0.02 lb)
	Interface	PCIe Gen5x4 NVMe
	Sequential Read	13500 +/-10%
	Sequential Write	10000 +/-10%
	Logical Blocks	4000797360
	Features	TCG OPAL 2.0; TRIM; L1.2 Not all features are available in all versions
2 TB PCIe® Gen5x4 NVMe™ SSD ¹	Form Factor	M.2 2280
	Capacity	2 TB
	NAND Type	Performance
	Weight	10g (0.02 lb)
	Interface	PCIe Gen5x4 NVMe
	Sequential Read	13500 +/-10%
	Sequential Write	10000 +/-10%
	Logical Blocks	4000797360
	Features	Pyrite 2.0; TRIM; L1.2 Not all features are available in all versions



1 TB PCIe® Gen5 NVMe™ SSD Value ¹	Form Factor	M.2 2280
	Capacity	1 TB
	NAND Type	Value
	Weight	10g (0.02 lb)
	Interface	PCIe Gen5 NVMe
	Sequential Read	9500+/-10%
	Sequential Write	7000 +/-10%
	Logical Blocks	2000409264
	Features	Pyrite 2.0; TRIM; L1.2
		Not all features are available in all versions

1 TB PCIe® Gen5x4 NVMe™ Self Encrypted OPAL2 SSD ¹	Form Factor	M.2 2280
	Capacity	1 TB
	NAND Type	Performance
	Weight	10g (0.02 lb)
	Interface	PCIe Gen5X4 NVMe
	Sequential Read	13000 +/-10%
	Sequential Write	9000 +/-10%
	Logical Blocks	2000409264
	Features	TCG OPAL 2.0; TRIM; L1.2
		Not all features are available in all versions

1 TB PCIe® Gen5x4 NVMe™ SSD ¹	Form Factor	M.2 2280
	Capacity	1 TB
	NAND Type	Performance
	Weight	10g (0.02 lb)
	Interface	PCIe Gen5X4 NVMe
	Sequential Read	13000 +/-10%
	Sequential Write	9000 +/-10%
	Logical Blocks	2000409264
	Features	Pyrite 2.0; TRIM; L1.2
		Not all features are available in all versions

1 TB PCIe® NVMe™ SSD Value ¹	Form Factor	M.2 2280
	Capacity	1TB
	NAND Type	Value
	Weight	10g (0.02 lb)
	Interface	PCIe NVMe
	Sequential Read	3500 +/-10%
	Sequential Write	2700 +/-10%
	Logical Blocks	2000409264
	Features	Pyrite 2.0; TRIM; L1.2
		Not all features are available in all versions
512 GB PCIe® Gen5 NVMe™ Self Encrypted OPAL2 SSD Value ¹	Form Factor	M.2 2280
	Capacity	512 GB
	NAND Type	Value
	Weight	10g (0.02 lb)
	Interface	PCIe Gen5 NVMe
	Sequential Read	9000 +/-10%
	Sequential Write	6000 +/-10%
	Logical Blocks	1000215216
	Features	TCG OPAL 2.0; TRIM; L1.2
		Not all features are available in all versions
512 GB PCIe® Gen5 NVMe™ SSD Value ¹	Form Factor	M.2 2280
	Capacity	512 GB
	NAND Type	Value
	Weight	10g (0.02 lb)
	Interface	PCIe Gen5 NVMe
	Sequential Read	9000 +/-10%
	Sequential Write	6000 +/-10%
	Logical Blocks	1000215216
	Features	Pyrite 2.0; TRIM; L1.2
		Not all features are available in all versions



512 GB PCIe® NVMe™ SSD Value ¹	Form Factor	M.2 2280
	Capacity	512GB
	NAND Type	Value
	Weight	10g (0.02 lb)
	Interface	PCIe NVMe
	Sequential Read	3500 +/-10%
	Sequential Write	1600 +/-10%
	Logical Blocks	1000215216
	Features	Pyrite 2.0; TRIM; L1.2
Not all features are available in all versions		

1. 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.

NETWORKING / COMMUNICATION

Intel® BE211 Wi-Fi 7	Wireless LAN Standards	IEEE 802.11a
Bluetooth® 6.0 non-vPro WW		IEEE 802.11b
WLAN ¹		IEEE 802.11g
		IEEE 802.11n
		IEEE 802.11ac
		IEEE 802.11ax
		IEEE 802.11be
		IEEE 802.11d
		IEEE 802.11e
		IEEE 802.11h
		IEEE 802.11i
		IEEE 802.11k
		IEEE 802.11r
		IEEE 802.11v
	Interoperability	Wi-Fi certified
	Frequency Band	802.11b/g/n/ax/be
		2.402 - 2.482 GHz
		802.11a/n/ac/ax/be
		5.15 - 5.25 GHz
		5.25 - 5.35 GHz
		5.47 - 5.725 GHz
		5.825 - 5.850 GHz
		5.955 - 6.415 GHz
		6.435 - 6.515 GHz
		6.535 - 6.875 GHz
		6.895 - 7.115 GHz

Data Rates	802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: max 300Mbps 802.11ac: 1733Mbps 802.11ax: max 2.4Gbps 802.11be: max 5.76Gbps
Modulation	Direct Sequence Spread Spectrum OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM, 4096QAM
Security	▪ WPA3 personal and enterprise including WPA2 transition mode. ▪ 802.1X EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0 -MSCHAPv2 (EAP-SIM, EAP-AKA, EAP-AKA') ▪ 128-bit AES-CCMP, 256-bit AES-GCMP
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points
Output Power	▪ 802.11b, 1Mbps : +17dBm minimum ▪ 802.11g, 6Mbps : +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) : +4dBm minimum
- 802.11be MCS13(EHT40)(6GHz) : +7dBm minimum
- 802.11be MCS13(EHT80)(6GHz) : +10dBm minimum
- 802.11be MCS13(EHT160)(6GHz) : +13dBm minimum
- 802.11be MCS13(EHT320)(6GHz) : +16dBm minimum

Power Consumption

Transmit mode 3.1 W
Receive mode 1.8 W
Idle mode (PSP) 180 mW (WLAN Associated)
Idle mode 50 mW (WLAN unassociated)
Connected Standby 10 mW
Radio disabled 8 mW

Power Management

ACPI and PCI Express compliant power management
802.11 compliant power saving mode

Receiver Sensitivity ²

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
Dimensions	Type 1216: 1.67 x 12.0 x 16.0 mm (0.07 x 0.47 x 0.63 inch)
Weight	0.72g
Operating Voltage	3.3v +/- 9%
Bluetooth® Specification	Integrated Bluetooth® specifications 4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4/6.0 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	Bluetooth 4.x : 1Mbps (LE); 3Mbps (EDR) Bluetooth 5.x : 2Mbps (LE); 3Mbps (EDR) Bluetooth 6.0 : 2Mbps (LE); 3Mbps (EDR)
Transmit Power	The Bluetooth component shall operate as a Class I Bluetooth



device with a maximum transmit power of +15.5 dBm for BR and +13dBm for EDR.

Power Consumption

Peak (Tx): 330 mW
Peak (Rx): 230 mW
Selective Suspend: 17 mW

Bluetooth® Software
Supported Link Topology

1.Microsoft Windows Bluetooth Software

Power Management

ACPI and PCI Express compliant power management
802.11 compliant power saving mode

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

Bluetooth®4.1-ESR 5/6/7 Compliance
LE Link Layer Ping
LE Dual Mode
LE Link Layer
LE Low Duty Cycle Directed Advertising
LE L2CAP Connection Oriented Channels
Train Nudging & Interlaced Scan
Bluetooth®4.2 ESR08 Compliance
LE Secure Connection- Basic/Full
LE Privacy 1.2 -Link Layer Privacy
LE Privacy 1.2 -Extended Scanner Filter Policies
LE Data Packet Length Extension
FAX Profile (FAX)
Basic Imaging Profile (BIP)2
Headset Profile (HSP)
Hands Free Profile (HFP)
Advanced Audio Distribution Profile (A2DP)



		Bluetooth®5.2
		ESR9/10 Compliance
		LE Advertisement Extensions
		Channel Selection Algo
		Limited High Duty Cycle Non-Connectable Advertising
		LE 2Mbps
		LE Long Range
		Bluetooth®5.3
		Host to Controller Encryption Key Control Enhancements
		Compliance to the latest Errata Sectipn 12.3 of Bluetooth®5.3 specification
		Periodic Advertisement interval
Intel® BE211 Wi-Fi 7	Wireless LAN Standards	IEEE 802.11a
Bluetooth® 6.0 vPro WW		IEEE 802.11b
WLAN ¹		IEEE 802.11g
		IEEE 802.11n
		IEEE 802.11ac
		IEEE 802.11ax
		IEEE 802.11be
		IEEE 802.11d
		IEEE 802.11e
		IEEE 802.11h
		IEEE 802.11i
		IEEE 802.11k
		IEEE 802.11r
		IEEE 802.11v
	Interoperability	Wi-Fi certified
	Frequency Band	802.11b/g/n/ax/be
		2.402 - 2.482 GHz

	802.11a/n/ac/ax/be
	5.15 - 5.25 GHz
	5.25 - 5.35 GHz
	5.47 - 5.725 GHz
	5.825 - 5.850 GHz
	5.955 - 6.415 GHz
	6.435 - 6.515 GHz
	6.535 - 6.875 GHz
	6.895 - 7.115 GHz
Data Rates	802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: max 300Mbps 802.11ac : 1733Mbps 802.11ax : max 2.4Gbps 802.11be : max 5.76Gbps
Modulation	Direct Sequence Spread Spectrum OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM, 4096QAM
Security	▪ WPA3 personal and enterprise including WPA2 transition mode. ▪ 802.1X EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0 -MSCHAPv2 (EAP-SIM, EAP-AKA, EAP-AKA') ▪ 128-bit AES-CCMP, 256-bit AES-GCMP
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points
Output Power	802.11b, 1Mbps : +17dBm minimum



- 802.11g, 6Mbps : +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 mode3.1 W
- Receive mode1.8 W
- Idle mode (PSP) 180 mW(WLAN Associated)
- Idle mode 50 mW(WLAN unassociated)
- Connected Standby 10 mW
- Radio disabled 8 mW

Power Management

- ACPI and PCI Express compliant power management
- 802.11 compliant power saving mode

Receiver Sensitivity ²

- 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
Dimensions	Type 1216: 1.67 x 12.0 x 16.0 mm (0.07 x 0.47 x 0.63 inch)
Weight	0.72g
Operating Voltage	3.3v +/- 9%
Bluetooth® Specification	Integrated Bluetooth® specifications 4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4/6.0 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	Bluetooth 4.x : 1Mbps (LE); 3Mbps (EDR) Bluetooth 5.x : 2Mbps (LE); 3Mbps (EDR) Bluetooth 6.0 : 2Mbps (LE); 3Mbps (EDR)
Transmit Power	The Bluetooth component shall operate as a Class I Bluetooth device with a maximum transmit power of +15.5 dBm for BR and +13dBm for EDR.
Power Consumption	Peak (Tx): 330 mW Peak (Rx): 230 mW Selective Suspend: 17 mW
Bluetooth® Software Supported Link Topology	1.Microsoft Windows Bluetooth Software
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
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	Bluetooth®4.1-ESR 5/6/7 Compliance LE Link Layer Ping LE Dual Mode LE Link Layer LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels Train Nudging & Interlaced Scan



Bluetooth®4.2 ESR08 Compliance
LE Secure Connection- Basic/Full
LE Privacy 1.2 –Link Layer Privacy
LE Privacy 1.2 –Extended Scanner Filter Policies
LE Data Packet Length Extension
FAX Profile (FAX)
Basic Imaging Profile (BIP)2
Headset Profile (HSP)
Hands Free Profile (HFP)
Advanced Audio Distribution Profile (A2DP)
Bluetooth®5.2
ESR9/10 Compliance
LE Advertisement Extensions
Channel Selection Algo
Limited High Duty Cycle Non-Connectable Advertising
LE 2Mbps
LE Long Range
Bluetooth®5.3
Host to Controller Encryption Key Control Enhancements
Compliance to the latest Errata Section 12.3 of Bluetooth® 5.3 specification
Periodic Advertisement interval

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

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



MediaTek T700 5G NR WWAN ³	Technology Operating Bands	WCDMA/HSPA+ operating bands: Band 01: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL) Band 02: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL) Band 04: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL) Band 05: 824 to 849 MHz (UL), 869 to 894 MHz (DL) Band 08: 880 to 915 MHz (UL), 925 to 960 MHz (DL) LTE FDD/TDD operating bands: Band 01: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL) Band 02: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL) Band 03: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL) Band 04: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL) Band 05: 824 to 849 MHz (UL), 869 to 894 MHz (DL) Band 07: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL) Band 08: 880 to 915 MHz (UL), 925 to 960 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 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 30: 2305 to 2315 MHz (UL) 2350 to 2360 MHz (DL) Band 34: 2010 to 2025 MHz (UL/DL) Band 38: 2570 to 2620 MHz (UL/DL) Band 39: 1880 to 1920 MHz (UL/DL) Band 40: 2300 to 2400 MHz (UL/DL) Band 41: 2496 to 2690 MHz (UL/DL) Band 42: 3400 to 3600 MHz (UL/DL)
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Band 43: 3400 to 3800 MHz (UL/DL)
Band 48: 3550 to 3700 MHz (UL/DL)
Band 66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL)
Band 71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)

5G NR Sub 6GHz:
n1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL)
n2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)
n20: 832 to 862 MHz (UL), 791 to 821 MHz (DL)
n25: 1850 to 1915 MHz (UL), 1930 to 1995 MHz (DL)
n28: 703 to 748 MHz (UL), 758 to 803 MHz (DL)
n3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL)
n30: 2305 to 2315 MHz (UL) 2350 to 2360 MHz (DL)
n38: 2570 to 2620 MHz (UL/DL)
n40: 2300 to 2400 MHz (UL/DL)
n41: 2496 to 2690 MHz (UL/DL)
n48: 3550 to 3700 MHz (UL/DL)
n5: 824 to 849 MHz (UL), 869 to 894 MHz (DL)
n66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL)
n7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL)
n71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)
n77: 3300 to 4200 MHz (UL/DL)
n78: 3300 to 3800 MHz (UL/DL)
n79: 4400 to 5000 MHz (UL/DL)
n8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)

Wireless Protocol Standards	NR Sub6G rel15
	200MHz 2 DLCA, 256 QAM
	200MHz 2 ULCA, 256 QAM
	15KHz/30KHz SCS for FDD/TDD
	LTE Rel15
	100MHz 5 DLCA, 256 QAM
	40MHz 2 ULCA, 256 QAM



	UMTS Rel8
GPS	GPS only support L1 C/A
GPS Bands	GPS L1 (1575.42MHz) GLONASS L1 (1602MHz) Beidou B1 (1561.098MHz) Galileo E1 (1575.42MHz) QZSS (1575.42MHz)
Maximum Data Rates	Sub-6 SA Peak DL 4.67Gbps/UL 1.25Gbps Sub-6 NSA Peak DL 3.74Gbps/UL 835Mbps LTE Peak DL 1.6Gbps (CAT19)/UL 211Mbps (CAT18) UMTS/HSPA+ DL DC-HSPA+: 42 Mbps (CAT24)/UL 11.5 Mbps (CAT7)
Maximum Output Power	NR 23 dBm in all band except (n30 = 22dBm & n48=21dBm & n77=25dBm & n41/n77/n78 = 26dBm) LTE: 23 dBm in all band except (B30 = 22dBm & B48=21dBm & B41=26dBm) UMTS: 23.5 dBm
Maximum Power Consumption	3500 mA (peak); 1674mA (average)
Form Factor	M.2 3052-S3 Key B



	Weight	8.7g
	Dimensions (Length x Width x Thickness)	30.00 x 52.00 x 2.30 mm (1.18 x 2.05 x 0.09 inch)
	Embedded eSIM	Yes
MediaTek T700 5G NR with HP Go WWAN³	Technology Operating Bands	WCDMA/HSPA+ operating bands: Band 01: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL) Band 02: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL) Band 04: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL) Band 05: 824 to 849 MHz (UL), 869 to 894 MHz (DL) Band 08: 880 to 915 MHz (UL), 925 to 960 MHz (DL) LTE FDD/TDD operating bands: Band 01: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL) Band 02: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL) Band 03: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL) Band 04: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL) Band 05: 824 to 849 MHz (UL), 869 to 894 MHz (DL) Band 07: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL) Band 08: 880 to 915 MHz (UL), 925 to 960 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 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 30: 2305 to 2315 MHz (UL) 2350 to 2360 MHz (DL)
- Band 34: 2010 to 2025 MHz (UL/DL)
- Band 38: 2570 to 2620 MHz (UL/DL)
- Band 39: 1880 to 1920 MHz (UL/DL)
- Band 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 48: 3550 to 3700 MHz (UL/DL)
- Band 66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL)
- Band 71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)

- 5GNR Sub 6GHz:
- n1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL)
 - n2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)
 - n20: 832 to 862 MHz (UL), 791 to 821 MHz (DL)
 - n25: 1850 to 1915 MHz (UL), 1930 to 1995 MHz (DL)
 - n28: 703 to 748 MHz (UL), 758 to 803 MHz (DL)
 - n3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL)
 - n30: 2305 to 2315 MHz (UL) 2350 to 2360 MHz (DL)
 - n38: 2570 to 2620 MHz (UL/DL)
 - n40: 2300 to 2400 MHz (UL/DL)
 - n41: 2496 to 2690 MHz (UL/DL)
 - n48: 3550 to 3700 MHz (UL/DL)
 - n5: 824 to 849 MHz (UL), 869 to 894 MHz (DL)
 - n66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL)
 - n7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL)
 - n71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)
 - n77: 3300 to 4200 MHz (UL/DL)
 - n78: 3300 to 3800 MHz (UL/DL)
 - n79: 4400 to 5000 MHz (UL/DL)
 - n8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)



Wireless Protocol Standards	NR Sub6G rel15 200MHz 2 DLCA, 256 QAM 200MHz 2 ULCA, 256 QAM 15KHz/30KHz SCS for FDD/TDD LTE Rel15 100MHz 5 DLCA, 256 QAM 40MHz 2 ULCA, 256 QAM UMTS Rel8
GPS	GPS only support L1 C/A
GPS Bands	GPS L1 (1575.42MHz) GLONASS L1 (1602MHz) Beidou B1 (1561.098MHz) Galileo E1 (1575.42MHz) QZSS (1575.42MHz)
Maximum Data Rates	Sub-6 SA Peak DL 4.67Gbps/UL 1.25Gbps Sub-6 NSA Peak DL 3.74Gbps/UL 835Mbps LTE Peak DL 1.6Gbps (CAT19)/UL 211Mbps (CAT18) UMTS/HSPA+ DL DC-HSPA+: 42 Mbps (CAT24)/UL 11.5 Mbps (CAT7)
Maximum Output Power	NR : 23 dBm in all band except (n30 = 22dBm & n48=21dBm & n77=25dBm & n41/n77/n78 = 26dBm) LTE: 23 dBm in all band except (B30 = 22dBm & B48=21dBm & B41=26dBm)



		UMTS: 23.5 dBm
	Maximum Power Consumption	3500 mA (peak); 1674mA (average)
	Form Factor	M.2 3052-S3 Key B
	Weight	8.7g
	Dimensions (Length x Width x Thickness)	30.00 x 52.00 x 2.30 mm (1.18 x 2.05 x 0.09 inch)
	Embedded eSIM	Yes
MediaTek T900 5G NR WWAN ³	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 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL) Band 3: 1710 to 1785 MHz (UL), 1805 to 1880 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 7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL) Band 8: 880 to 915 MHz (UL), 925 to 960 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 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 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 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 48: 3550 to 3700 MHz (UL/DL)
Band 66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL)
Band 71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)
5GNR Sub 6GHz
n1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL)
n2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)
n3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL)
n5: 824 to 849 MHz (UL), 869 to 894 MHz (DL)
n7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL)
n8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)
n12: 699 to 716 MHz (UL), 729 to 746 MHz (DL)
n13: 777 to 787 MHz (UL), 746 to 756 MHz (DL)
n14: 788 to 798 MHz (UL), 758 to 768 MHz (DL)
n18: 815 to 830 MHz (UL), 860 to 875 MHz (DL)
n20: 832 to 862 MHz (UL), 791 to 821 MHz (DL)
n25: 1850 to 1915 MHz (UL), 1930 to 1995 MHz (DL)



- n26: 814 to 849 Mhz(UL),859 to 894 MHz (DL)
- n28: 703 to 748 MHz (UL), 758 to 803 MHz (DL)
- n29: 717 to 728 MHz (DL)
- n30: 2305 to 2315 MHz (UL) 2350 to 2360 MHz (DL)
- n38: 2570 to 2620 MHz (UL/DL)
- n40: 2300 to 2400 MHz (UL/DL)
- n41: 2496 to 2690 MHz (UL/DL)
- n48: 3550 to 3700 MHz (UL/DL)
- n66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL)
- n70: 1695 to 1710 MHz (UL) 1995 to 2020 MHz (DL)
- n71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)
- n75: 1432 to 1517 MHz (DL)
- n76: 1427 to 1432 MHz (DL)
- n77: 3300 to 4200 MHz (UL/DL)
- n78: 3300 to 3800 MHz (UL/DL)
- n79: 4400 to 5000 MHz (UL/DL)

Wireless Protocol Standards	NR Sub6G Rel17
	300MHz 4 DLCA, 256 QAM
	200MHz 2 ULCA, 256 QAM
	15KHz SCS for FDD 30KHz SCS for TDD
	LTE Rel15
	100MHz 5 DLCA, 256 QAM
	40MHz 2 ULCA, 256 QAM
	UMTS Rel8
GPS	GPS only support L1 C/A
GPS Bands	GPS L1 (1575.42MHz)
	GLONASS L1 (1602MHz)
	Beidou B1 (1561.098MHz)



		Galileo E1 (1575.42MHz) QZSS (1575.42MHz)
	Maximum Data Rates	Sub-6 SA Peak DL 7Gbps/UL 2.5Gbps Sub-6 NSA Peak DL 5.8Gbps/UL 140Mbps LTE Peak DL 2Gbps (CAT20)/UL 211Mbps (CAT18) UMTS/HSPA+ DL DC-HSPA+: 42 Mbps (CAT24)/UL 11.5 Mbps (CAT7)
	Maximum Output Power	NR : 23 dBm in all band except (n30 = 22dBm & n48=21dBm & n41/n77/n78/n79 = 26dBm) LTE: 23 dBm in all band except (B30 = 22dBm & B48=21.5dBm) UMTS: 23.5 dBm
	Maximum Power Consumption	3120 mA (peak); 1350mA (average)
	Form Factor	M.2 Key B
	Weight	9.5g
	Dimensions (Length x Width x Thickness)	30.00 x 52.00 x 2.30 mm (1.18 x 2.05 x 0.09 inch)
	Embedded eSIM	Yes
MediaTek T900 5G NR with HP Go WWAN³	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 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)

Band 3: 1710 to 1785 MHz (UL), 1805 to 1880 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 7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL)

Band 8: 880 to 915 MHz (UL), 925 to 960 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 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 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 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 48: 3550 to 3700 MHz (UL/DL)



Band 66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL)
Band 71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)
5GNR Sub 6GHZ
n1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL)
n2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)
n3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL)
n5: 824 to 849 MHz (UL), 869 to 894 MHz (DL)
n7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL)
n8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)
n12: 699 to 716 Mhz(UL), 729 to 746 MHz (DL)
n13: 777 to 787 Mhz(UL), 746 to 756 MHz (DL)
n14: 788 to 798 Mhz(UL), 758 to 768 MHz (DL)
n18: 815 to 830 Mhz(UL), 860 to 875 MHz (DL)
n20: 832 to 862 MHz (UL), 791 to 821 MHz (DL)
n25: 1850 to 1915 MHz (UL), 1930 to 1995 MHz (DL)
n26: 814 to 849 Mhz(UL), 859 to 894 MHz (DL)
n28: 703 to 748 MHz (UL), 758 to 803 MHz (DL)
n29: 717 to 728 MHz (DL)
n30: 2305 to 2315 MHz (UL) 2350 to 2360 MHz (DL)
n38: 2570 to 2620 MHz (UL/DL)
n40: 2300 to 2400 MHz (UL/DL)
n41: 2496 to 2690 MHz (UL/DL)
n48: 3550 to 3700 MHz (UL/DL)
n66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL)
n70: 1695 to 1710 MHz (UL) 1995 to 2020 MHz (DL)
n71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)
n75: 1432 to 1517 MHz (DL)
n76: 1427 to 1432 MHz (DL)
n77: 3300 to 4200 MHz (UL/DL)
n78: 3300 to 3800 MHz (UL/DL)
n79: 4400 to 5000 MHz (UL/DL)



Wireless Protocol Standards	NR Sub6G Rel17
	300MHz 4 DLCA, 256 QAM
	200MHz 2 ULCA, 256 QAM
	15KHz SCS for FDD 30KHz SCS for TDD
	LTE Rel15
	100MHz 5 DLCA, 256 QAM
	40MHz 2 ULCA, 256 QAM
	UMTS Rel8
GPS	GPS only support L1 C/A
GPS Bands	GPS L1 (1575.42MHz)
	GLONASS L1 (1602MHz)
	Beidou B1 (1561.098MHz)
	Galileo E1 (1575.42MHz)
	OZSS (1575.42MHz)
Maximum Data Rates	Sub-6 SA Peak
	DL 7Gbps/UL 2.5Gbps
	Sub-6 NSA Peak
	DL 5.8Gbps/UL 140Mbps
	LTE Peak
	DL 2Gbps (CAT20)/UL 211Mbps (CAT18)
	UMTS/HSPA+
	DL DC-HSPA+: 42 Mbps (CAT24)/UL 11.5 Mbps (CAT7)
Maximum Output Power	NR : 23 dBm in all band except (n30 = 22dBm & n48=21dBm & n41/n77/n78/n79 = 26dBm)
	LTE: 23 dBm in all band except (B30 = 22dBm & B48=21.5dBm)



	UMTS: 23.5 dBm
Maximum Power Consumption	3120 mA (peak); 1350mA (average)
Form Factor	M.2 Key B
Weight	9.5g
Dimensions (Length x Width x Thickness)	30.00 x 52.00 x 2.30 mm (1.18 x 2.05 x 0.09 inch)
Embedded eSIM	Yes

3. 5G module is optional. WWAN-ready configuration must be selected at purchase to add WWAN module at a later date (WWAN After Market Option Kit). Module designed for 5G NR SA(standalone) and 5G NR NSA (non-standalone) Public and Private networks including Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module includes embedded eSIM. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier and frequency bands supported.

NFC Mirage WNC XRAV-1	Dimensions (L x W x H)	17.00 x 10.00 x 2.00 mm (0.67 x 0.39 x 0.08 inch)
	Chipset	NPC300
	System Interface	I2C
	NFC RF Standards	ISO/IEC 14443 A ISO/IEC 14443 B ISO/IEC 15693 ISO/IEC 18092 ECMA-340 NFCIP-1 Target and Initiator ECMA-320 NFCIP-2

NFC Forum Support	Type 1, Type 2, Type 3 / Type 4, NFCIP-1 / NFCIP-2
Reader Mode (PCD-VCD)	ISO/IEC 14443 A ISO/IEC 14443 B ISO/IEC 15693 MIFARE 1K MIFARE 4K MIFARE DESFire FeliCa Jewel and Topaz
Card Emulation Mode (PICC-VICC)	ISO/IEC 14443 A ISO/IEC 14443 B and B' MIFARE FeliCa
Frequency	13.56 MHz
NFC Modes Supported	Reader/Writer, Peer-to-Peer
Raw RF Data Rates	106 kbps, 212 kbps, 424 kbps, 848 kbps
Operating Temperature	0°C to 70°C (32°F to 158°F)
Storage Temperature	-20°C to 125°C (-4°F to 257°F)



		Humidity	Operating: 10 - 90% Non-Operating: 5 - 95%
		Supply Operating Voltage	4.35 to 5.25 Volts
		I/O Voltage	1.8V or 3.3V
		Power Consumption	Booster enable, VBAT= 3.3V, VCC_BOOST = 5V
		Mode	Power Consumption, Typical
		Polling	7.3 mA
		Detected Test Tag Type 1	Total 283.8 mA Net Module 236.8 mA
		Detected Test Tag Type 2	Total 288.8 mA Net Module 241.8 mA
		Detected Test Tag Type 3	Total 287.7 mA Net Module 240.7 mA
		Detected Test Tag Type 4	Total 282.3 mA Net Module 235.3 mA
		Antenna	Antenna connector, 0.5mm pitch, 7 connector FPC. Antenna matching is external to module.
HP RW220-GL LTE (Low Power) (CAT-1bis) ⁴	Technology/Operating bands	FDD LTE: 2100 (Band 1), 1800 (Band 3), 850 (Band 5), 900 (Band 8), 700 (Band 12), 850 (Band 18), 850 (Band 19), 800 (Band 20), 850 (Band 26), 700 (Band 28) WIFI Scan : 802.11b	



Wireless Protocol Standards	3GPP TS 51.010-1 V10.5.0: Mobile Station (MS) conformance specification; Part 1: Conformance specification 3GPP TS 36.521-1 V14.3.0: User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing 3GPP TS 21.111 V10.0.0: USIM and IC card requirements 3GPP TS 51.011 V4.15.0: Specification of the Subscriber Identity Module -Mobile Equipment (SIM-ME) interface 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 27.007 V10.0.8: AT command set for User Equipment (UE) 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)
GPS	GPS, Galileo, BeiDou, QZSS, AGPS-MS-B
GPS Bands	GPS L1:1575.42Mhz±1.023Mhz, BDS B1:1561.098Mhz±2.046Mhz, Galileo E1:1575.42Mhz±1.023Mhz, QZSS L1:1575.42Mhz±1.023Mhz
Maximum Data Rates	Downlink: 10Mbps Uplink: 5Mbps
Maximum Output Power	B1/3: 23 +/-2dBm,



	B5/8/12/18/19/20/26/28: 24 +1.7/-2dBm
Maximum Power Consumption	Peak Current : 290.945mA Average current : 8.035mA
Form Factor	M.2
Weight	3.9g
Dimensions (Length x Width x Thickness)	22.00 x 42.00 x 2.30 mm (0.87 x 1.65 x 0.09 inch)
Embedded eSIM	Yes

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.

POWER

Power supply availability may vary by country.

Battery is internal and replaceable by customer.

Higher wattage adapter is recommended for best performance and fastest charging.

Using lower-capacity third-party USB Type-C® power cables may reduce power delivery.

HP 100W Wall Mount	Weight (DC Cable Included)	106 g ± 10 g
Halogen Free USB Type-C®	Input	100 Vac ~ 240 Vac
Gallium Nitride AC power adapter	Input Efficiency	USB-C
		90.00 % min at 115 Vac/ 230 Vac @ 20.00 V/ 5.00 A
	Input frequency range	47 Hz ~ 63 Hz
	Input AC current	Max 1.60 A at 90 Vac input
	Output	
	Output power	20.00 V / 100.00 W
	DC output	+ 20.00 V
	Hold - up time	5 ms at 115 Vac input
	Output Over Current	5.40 A (max)
	Protection	
	AC Inlet Type	Fixed 2 Prong
	DC Cable Connector	USB Type-C
	DC Cable Material	Halogen Free
	Connector	
	Connector	Fixed 2 Prong
	Environmental Design	
	Operating temperature	0°C to 35°C (32°F to 95°F)
	Non - operating(storage) temperature	-20°C to 85°C (-4°F to 185°F)
	Altitude	0 m to 5000 m (0 ft to 16404.2 ft)
	Humidity	20 % to 95 %
	Storage Humidity	10 % to 95 %
	EMI and Safety Certifications	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 GEMS and RCM, BIS, BSMI, UAE, UKCA DoC

HP 100W Wall Mount Halogen Free USB Type-C® Gallium Nitride AC power adapter	Weight (DC Cable Included)	250 g ± 10 g
	Input	100 Vac ~ 240 Vac
	Input Efficiency	USB-C
		90.00 % min at 115 Vac/ 230 Vac @ 20.00 V/ 5.00 A
	Input frequency range	47 Hz ~ 63 Hz
	Input AC current	Max 1.60 A at 90 Vac input
	Output	
	Output power	20.00 V / 100.00 W
	DC output	+ 20.00 V
	Hold - up time	5 ms at 115 Vac input
	Output Over Current	5.40 A (max)
	Protection	
	AC Inlet Type	Foldable for 2 prong
	DC Cable Connector	USB Type-C
	DC Cable Material	Halogen Free
	Connector	
	Connector	Foldable for 2 prong
	Environmental Design	
	Operating temperature	0°C to 35°C (32°F to 95°F)
	Non - operating(storage) temperature	-20°C to 85°C (-4°F to 185°F)
	Altitude	0 m to 5000 m (0 ft to 16404.2 ft)
	Humidity	20 % to 95 %
	Storage Humidity	10 % to 95 %
	EMI and Safety Certifications	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 GEMS and RCM, BIS, BSMI, UAE, UKCA DoC

HP 65W Standard USB Type-C® Gallium Nitride AC power adapter	Weight (DC Cable Included)	185 g ± 10 g
	Input	100 Vac ~ 240 Vac
	Input Efficiency	USB-C
		89.00 % min at 115 Vac/ 230 Vac @ 20.00 V/ 3.25 A
	Input frequency range	47 Hz ~ 63 Hz
	Input AC current	Max 1.60 A at 90 Vac input
	Output	
	Output power	20.00 V / 65.00 W
	DC output	+ 20.00 V
	Hold - up time	5 ms at 115 Vac input
	Output Over Current	5.40 A (max)
	Protection	
	AC Inlet Type	C6
	DC Cable Connector	USB Type-C
	DC Cable Material	Low Halogen
	Connector	
	Connector	C6
	Environmental Design	
	Operating temperature	0°C to 35°C (32°F to 95°F)
	Non - operating(storage) temperature	-20°C to 85°C (-4°F to 185°F)
	Altitude	0 m to 5000 m (0 ft to 16404.2 ft)
	Humidity	20 % to 95 %
	Storage Humidity	10 % to 95 %
	EMI and Safety Certifications	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 GEMS and RCM, BIS, BSMI, UAE, UKCA DoC
HP 65W Wall Mount Halogen Free USB Type-C® Gallium Nitride AC power adapter	Weight (DC Cable Included)	185 g ± 10 g
	Input	100 Vac ~ 240 Vac
	Input Efficiency	USB-C
		89.00 % min at 115 Vac/ 230 Vac @ 20.00 V/ 3.25 A
	Input frequency range	47 Hz ~ 63 Hz
	Input AC current	Max 1.60 A at 90 Vac input
	Output	
	Output power	20.00 V / 65.00 W
	DC output	+ 20.00 V
	Hold - up time	5 ms at 115 Vac input
	Output Over Current	5.40 A (max)
	Protection	
	AC Inlet Type	Foldable for 2 prong
	DC Cable Connector	USB Type-C
	DC Cable Material	Halogen Free
	Connector	
	Connector	Foldable for 2 prong
	Environmental Design	
	Operating temperature	0°C to 35°C (32°F to 95°F)
	Non - operating(storage) temperature	-20°C to 85°C (-4°F to 185°F)
	Altitude	0 m to 5000 m (0 ft to 16404.2 ft)
	Humidity	20 % to 95 %
	Storage Humidity	10 % to 95 %
	EMI and Safety Certifications	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 GEMS



		and RCM, BIS, BSMI, UAE, UKCA DoC
HP 65W Wall Mount Halogen Free USB Type-C® Gallium Nitride AC power adapter	Weight (DC Cable Included)	185 g ± 10 g
	Input	100 Vac ~ 240 Vac
	Input Efficiency	USB-C
		89.00 % min at 115 Vac/ 230 Vac @ 20.00 V/ 3.25 A
	Input frequency range	47 Hz ~ 63 Hz
	Input AC current	Max 1.60 A at 90 Vac input
	Output	
	Output power	20.00 V / 65.00 W
	DC output	+ 20.00 V
	Hold - up time	5 ms at 115 Vac input
	Output Over Current	5.50 A (max)
	Protection	
	AC Inlet Type	Fixed 2 Prong
	DC Cable Connector	USB Type-C
	DC Cable Material	Halogen Free
	Connector	
	Connector	Fixed 2 Prong
	Environmental Design	
	Operating temperature	0°C to 35°C (32°F to 95°F)
	Non - operating(storage) temperature	-20°C to 85°C (-4°F to 185°F)
	Altitude	0 m to 5000 m (0 ft to 16404.2 ft)
	Humidity	20 % to 95 %
	Storage Humidity	10 % to 95 %
	EMI and Safety Certifications	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 GEMS and RCM, BIS, BSMI, UAE, UKCA DoC

Battery

CH 56Whr Long Life Polymer Fast charge 3 cell Battery	Weight	210 g ± 10 g (0.46 lb)
	Cells / Type	3 cell Lithium-Ion Polymer /
	Energy	
	Voltage	11.67 V
	Amp - hour capacity	4.799 Ah
	Watt - hour capacity	56Wh.0.00 Wh
	Temperature	
	Operating (Charging)	0°C to 45°C (32°F to 113°F)
	Operating (Discharging)	-10°C to 60°C (14°F to 140°F)
	Optional Travel Battery Available	No
CH 68Whr Long Life Polymer Fast charge 6 cell Battery	Weight	250 g ± 10 g (0.55 lb)
	Cells / Type	6 cell Lithium-Ion Polymer / 604457
	Energy	
	Voltage	11.70 V
	Amp - hour capacity	5.812 Ah
	Watt - hour capacity	68Wh.0.00 Wh
	Temperature	
	Operating (Charging)	0°C to 45°C (32°F to 113°F)
	Operating (Discharging)	-10°C to 60°C (14°F to 140°F)
	Optional Travel Battery Available	No

AUDIO

Codec	Realtek ALC3335
Audio I/O Ports	3.5mm Headset: CTIA only; Headphone-out
Internal Speaker Amplifier	TI SoundWire Class-D Amplifier
Multi-streaming Capable	Playback multi-streaming can be enabled in the audio control panel to allow independent audio streams to be sent to/from the front jacks or integrated speaker, Following Microsoft 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 vendor	SYNAPTICS
Sensor type	Capacitive
DPI resolution	363 DPI
Scan area	104 x 86 pixels
False Rejection Rate	< 3%
False Acceptance Rate	< 0.001%
Mobile Voltage Operation	2.7 V ~ 3.6 V
Operating Temperature	5°C ~ 60°C (41°F ~ 140°F)
Current Consumption Image	100 mA max
Low Latency Wait For Finger	260 uA
Capture Rate	50 frames/sec
ESD Resistance	IEC 61000-4-2 4B (+15KV)
Detection Matrix	363 dpi / 7.4 x 6.0 mm sensor area



OPTIONS

Container Name	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 Carbon Black Earbuds	7Y8H4AA
	Poly Voyager Free 60 Carbon Black Earbuds	7Y8L7AA
	Poly Voyager Free 60 Carbon Black Earbuds	7Y8L8AA
	Poly Voyager Free 60+ Carbon Black Earbuds	7Y8G4AA
	Poly Voyager Free 60+ Carbon Black Earbuds	7Y8H0AA
Audio - Headset	HP USB G2 Stereo Headset	428K6AA
	Poly Blackwire 3210 Monaural USB-C Headset	8X214AA
	Poly Blackwire 3215 Monaural USB-C Headset	8X227AA
	Poly Blackwire 3220 Stereo USB-C Headset	8X228AA
	Poly Blackwire 3225 Stereo USB-C Headset	8X229AA
	Poly Blackwire 3310 Monaural USB-C Headset	8X215AA
	Poly Blackwire 3310 Monaural USB-C Headset	8X216AA
	Poly Blackwire 3315 Monaural USB-C Headset	8X217AA
	Poly Blackwire 3315 Monaural USB-C Headset	8X218AA
	Poly Blackwire 3320 Stereo USB-C Headset	8X219AA
	Poly Blackwire 3320 Stereo USB-C Headset	8X220AA
	Poly Blackwire 3325 Stereo USB-C Headset	8X221AA
	Poly Blackwire 3325 Stereo USB-C Headset	8X222AA
	Poly Blackwire 5210 Monaural USB-C Headset	8X230AA
	Poly Blackwire 5220 Stereo USB-C Headset	8X231AA
	Poly Blackwire 8225 Stereo USB-C Headset	8X223AA
	Poly Blackwire 8225 Stereo USB-C Headset	8X225AA
	Poly EncorePro 320 Binaural Headset	77T26AA



Poly EncorePro 510 Monoaural Headset	783Q2AA
Poly EncorePro 510 Monoaural Headset	783Q1AA
Poly EncorePro 520 Binaural Headset	783P6AA
Poly EncorePro 520 Binaural Headset	783P7AA
Poly EncorePro 530 Discreet Headset	783P2AA
Poly EncorePro 530 Headset	783P3AA
Poly EncorePro 540 Convertible Headset	783P0AA
Poly EncorePro 540 Convertible Headset	783P1AA
Poly EncorePro 720 Binaural Headset	8R707AA
Poly EncorePro HW710 Single Ear Headset	8R708AA
Poly EncorePro Monoaural 310 Headset	77T43AA
Poly EncorePro Monoaural 515 with USB-A Headset	783R0AA
Poly EncorePro Monoaural 515 with USB-A Headset	783R1AA
Poly EncorePro Stereo 525 with USB-A Headset	783R2AA
Poly EncorePro USB-A Monoaural 715 Headset	783N5AA
Poly EncorePro USB-A Stereo 525 Headset	783R3AA
Poly EncorePro USB-A Stereo 725 Headset	783M6AA
Poly EncorePro USB-C Monoaural 310 Headset	760Q8AA
Poly Savi 7310 DECT 1880-1900 MHz Single Ear Headset	8D3G3AA
Poly Savi 7310 Monoaural DECT 1880-1900 MHz Headset	8L561AA
Poly Savi 7310 Monoaural DECT 1880-1900 MHz Headset	8L575AA
Poly Savi 7310 Monoaural DECT 1920-1930 MHz Headset	7S430AA
Poly Savi 7310 Monoaural DECT 1920-1930 MHz Headset	8L570AA
Poly Savi 7310 Monoaural DECT 1920-1930 MHz Headset	8L585AA
Poly Savi 7310-M DECT 1880-1900 MHz Single Ear Headset	8D3K7AA
Poly Savi 7310-M DECT 1920-1930 MHz Single Ear Headset	7S439AA
Poly Savi 7320 Stereo DECT 1880-1900 MHz Headset	8D3F7AA
Poly Savi 7320 Stereo DECT 1880-1900 MHz Headset	8L545AA
Poly Savi 7320 Stereo DECT 1880-1900 MHz Headset	8L553AA
Poly Savi 7320 Stereo DECT 1893-1906 MHz Headset	8D3F8AA
Poly Savi 7320 Stereo DECT 1893-1906 MHz Headset	8L546AA
Poly Savi 7320 Stereo DECT 1893-1906 MHz Headset	8L555AA
Poly Savi 7320 Stereo DECT 1910-1920 MHz Headset	8D3G0AA



Poly Savi 7320 Stereo DECT 1920-1930 MHz Headset	7S429AA
Poly Savi 7320 Stereo DECT 1920-1930 MHz Headset	8L549AA
Poly Savi 7320 Stereo DECT 1920-1930 MHz Headset	8L559AA
Poly Savi 7320-M Stereo DECT 1880-1900 MHz Headset	8D3J6AA
Poly Savi 7320-M Stereo DECT 1893-1906 MHz Headset	8D3K2AA
Poly Savi 7320-M Stereo DECT 1910-1920 MHz Headset	8D3K0AA
Poly Savi 7320-M Stereo DECT 1920-1930 MHz Headset	7S435AA
Poly Savi 7410 Monaural DECT 1880-1900 MHz Headset	8L589AA
Poly Savi 7410 Monaural DECT 1880-1900 MHz Headset	8L593AA
Poly Savi 7410 Monaural DECT 1893-1906 MHz Headset	8L591AA
Poly Savi 7410 Monaural DECT 1893-1906 MHz Headset	8L594AA
Poly Savi 7410 Monaural DECT 1910-1920 MHz Headset	8L597AA
Poly Savi 7410 Monaural DECT 1920-1930 MHz Headset	8L7D5AA
Poly Savi 7410 Monaural DECT 1920-1930 MHz Headset	8L7D7AA
Poly Savi 7420 Stereo DECT 1880-1900 MHz Headset	8L560AA
Poly Savi 7420 Stereo DECT 1880-1900 MHz Headset	8L574AA
Poly Savi 7420 Stereo DECT 1893-1906 MHz Headset	8L563AA
Poly Savi 7420 Stereo DECT 1893-1906 MHz Headset	8L576AA
Poly Savi 7420 Stereo DECT 1910-1920 MHz Headset	8L564AA
Poly Savi 7420 Stereo DECT 1910-1920 MHz Headset	8L579AA
Poly Savi 7420 Stereo DECT 1920-1930 MHz Headset	8L567AA
Poly Savi 7420 Stereo DECT 1920-1930 MHz Headset	8L583AA
Poly Savi 8210 DECT 1880-1900 MHz USB-A Headset	8D3E9AA
Poly Savi 8210 DECT 1880-1900 MHz USB-A Headset	8D3F1AA
Poly Savi 8210 DECT 1920-1930 MHz USB-A Headset	77T29AA
Poly Savi 8210 DECT 1920-1930 MHz USB-A Headset	77T31AA
Poly Savi 8220 DECT 1880-1900 MHz USB-A Headset	8D3F2AA
Poly Savi 8220 DECT 1880-1900 MHz USB-A Headset	8D3F5AA
Poly Savi 8220 DECT 1920-1930 MHz USB-A Headset	77T33AA
Poly Savi 8220 DECT 1920-1930 MHz USB-A Headset	77Y82AA
Poly Savi 8220 Stereo DECT 1880-1900 MHz Top	8Y9C4AA
Poly Savi 8245 DECT 1880-1900 MHz Headset	8D3H2AA
Poly Savi 8245 DECT 1880-1900 MHz USB-A Headset	8D3F4AA



Poly Savi 8410 Monaural DECT 1880-1900 MHz Headset	8L5A7AA
Poly Savi 8410 Monaural DECT 1880-1900 MHz Headset	8L5A9AA
Poly Savi 8410 Monaural DECT 1920-1930 MHz Headset	8L7E6AA
Poly Savi 8410 Monaural DECT 1920-1930 MHz Headset	8L7E9AA
Poly Savi 8420 Stereo DECT 1880-1900 MHz Headset	8L5B2AA
Poly Savi 8420 Stereo DECT 1880-1900 MHz Headset	8L5B3AA
Poly Savi 8420 Stereo DECT 1920-1930 MHz Headset	8L7F2AA
Poly Savi 8420 Stereo DECT 1920-1930 MHz Headset	8L7F5AA
Poly Savi 8445 DECT 1880-1900 MHz Convertible Headset	8L5B4AA
Poly Savi 8445 DECT 1880-1900 MHz Convertible Headset	8L5B6AA
Poly Savi 8445 DECT 1920-1930 MHz Convertible Headset	8L7F1AA
Poly Savi 8445 DECT 1920-1930 MHz Convertible Headset	8L7F8AA
Poly Voyager 4310 Headset	77Y93AA
Poly Voyager 4310 Monaural Headset	77Y92AA
Poly Voyager 4310 USB-A Headset	76U48AA
Poly Voyager 4310 USB-A Headset	77Y91AA
Poly Voyager 4310 USB-C Headset	77Y94AA
Poly Voyager 4310 USB-C Headset	77Y95AA
Poly Voyager 4310 USB-C Headset	77Y96AA
Poly Voyager 4310-M USB-C Headset	77Y97AA
Poly Voyager 4320 Headset	77Z00AA
Poly Voyager 4320 Stereo USB-A Headset	77Y99AA
Poly Voyager 4320 USB-A Headset	76U49AA
Poly Voyager 4320 USB-A Headset	77Y98AA
Poly Voyager 4320 USB-C Headset	76U50AA
Poly Voyager 4320 USB-C Headset	77Z30AA
Poly Voyager 4320 USB-C Headset	77Z31AA
Poly Voyager 4320-M Headset	77Z32AA
Poly Voyager Focus 2 USB-C-C Headset	9T9J3AA
Poly Voyager Focus 2 USB-C-C Headset	9T9J5AA
Poly Voyager Focus 2 USB-C-C Headset	9T9J6AA
Poly Voyager Legend 50 Headset UC	AT9M9AA, AT9M9UT
Poly Voyager Legend 50-M Headset UC	AJ8V4AA, AJ8V4UT



Audio - Speaker phone	Poly Voyager Surround 80 USB-C Headset	8G7T9AA
	Poly Voyager Surround 80 USB-C Headset	8G7U0AA
	Poly Voyager Surround 85 USB-C Headset	8G7T7AA
	Poly Voyager Surround 85 USB-C Headset	8G7T8AA
	Poly Sync 10 Speakerphone	77P34AA
	Poly Sync 40 Speakerphone	77P35AA
	Poly Sync 40+ USB-A USB-C Speakerphone	77P36AA
	Poly Sync 40+ USB-A USB-C Speakerphone	772C5AA
	Poly Sync 60 Speakerphone	772C2AA
	Poly Sync 60 Speakerphone	77P41AA
Camera	Poly Sync USB-A USB-C 10 Speakerphone	772C3AA
	Poly Sync USB-A USB-C 40 Speakerphone	772C4AA
	HP 625 Webcam	6Y7L1AA
Cases	HP USB-A 325 Webcam	53X27AA
	HP 14 Convertible Laptop Backpack Tote	9C2H1AA
	HP 14 Modular Laptop Sleeve	9J499AA
	HP 15.6 Modular Laptop Backpack	9J496AA
	HP 15.6 Modular Laptop Bag	9J497AA
	HP 15.6 Modular Laptop Sleeve	9J498AA
	HP Campus blue Backpack	7K0E5AA
	HP Campus green Backpack	7K0E4AA
	HP Campus XL Marble Stone Backpack	7K0E2AA
	HP Campus XL Tie Dye Backpack	7K0E3AA
	HP Convertible Laptop Stand	9C2H2AA
	HP 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



Commodity	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	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 15 Liter 14 Laptop Bag	A2CE2AA
	HP Travel Plus 22 Liter 16 Laptop Bag	A2CE1AA
	HP Travel Plus 30 Liter 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
Docking	HP Thunderbolt™ 100W G6 Dock	9X472AA, 9X472UT
	HP Thunderbolt™ 180W G6 Dock	9X481AA, 9X481UT
	HP Thunderbolt™ 280W G6 Dock	AW5L5AA, AW5M5UT
Hub	HP USB-C™ 100W G6 Dock	9X3V1AA, 9X3V1UT
	HP 4K USB-C Multiport Hub	6G843AA, 6G843UT
	HP Universal USB-C Hub and Laptop Charger Combo	9H0H9AA
	HP Universal USB-C Multiport Hub	50H55UT
	HP USB-C to USB-A Hub	Z6A00AA
Keyboard	HP USB-C Travel Hub G3	86S97AA, 86S97UT
	HP 125 G2 Wired Keyboard	AY2Y7AA
	HP 225 Wireless Keyboard	805T1AA
	HP 320K G2 Wired Keyboard	9SR37UT
	HP 405 Backlit Wired Keyboard	7N7C1AA, 7N7C1UT
	HP 435 Programmable Wireless Keypad	7N7C3AA



Keyboard & Mouse Combo	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	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
	HP 225 Wired Mouse and Keyboard Combo	AX2Y7AA
	HP 225 Wired Mouse and Keyboard Combo Cashmere 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 G2	4R009UT
	HP 655 Wireless Keyboard and Mouse Combo White	860P8AA
	HP 685 Comfort Dual-Mode Keyboard and Mouse Combo	8T6L7UT
	HP 725 Multi-Device Rechargeable Wireless Keyboard and Mouse Combo	9T5B0UT
Mouse	HP Wired Desktop 320MK Mouse and Keyboard	9SR36UT
	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 405 Quiet Black Wireless Mouse	AZ7B3AA
	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 695 Qi-Charging Wireless Mouse	8F1Y4AA



Power	HP 705 Rechargeable Wireless Mouse	AZ7B1AA
	HP 715 Rechargeable Multi-Device Bluetooth Mouse	6E6F0AA
	HP 925 Ergonomic Vertical Wireless Mouse	6H1A5AA
	HP Ultra-Fast Scroll Wireless Mouse 785M	B8YX4AA
	HP 110W USB-C Laptop Charger	8B3Y2UT
	HP 65W Gallium Nitride USB-C LC Laptop Charger	9Y3X5AA, 9Y3X5UT
	HP 65W LC USB-C AC power adapter	1P3K6AA
	HP 65W LC HF USB-C AC power adapter	AJ7X5AA
	HP 65W Gallium Nitride USB-C Laptop Charger	600Q8UT
Networking /Communications	HP 65W USB-C Laptop Charger	671R3UT
	HP 5G Sub-6 WWAN	B8BD4AA



CHANGELOG

Date of change	Version History		Description of change
February 2, 2026	V1 to v2	Updated	Processor Section Battery Life Section Power Section
February 4, 2026	V2 to V3	Updated	Display Section Audio Section Software and Security Section Power Section
February 5, 2026	V3 to V4	Added	Software and Security Section
February 26, 2026	V4 to V5	Updated	Display Section
March 3, 2026	V5 to V6	Added	Environmental Data Section
March 13, 2026	V6 to V7	Updated	Power Section Audio Section
March 27, 2026	V7 to V8	Added Updated	Battery Life Section Processors Section
April 6, 2026	V8 to V9	Updated	Power Section
May 11, 2026	V9 to V10	Updated	Processor Section
June 9, 2026	V10 to V11	Updated	Keyboard Section
June 17, 2026	V11 to V12	Updated	Power Section
July 10, 2026	V12 to V13	Updated	Networking /Communications
July 30, 2026	V13 to V14	Removed	Battery Section
August 5, 2026	V14 to V15	Updated	Networking /Communications
August 20, 2026	V15 to V16	Updated	Memory
August 25, 2026	V16 to V17	Updated	Options

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