

HP 250R 15.6 inch G10 Notebook PC



Front

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



Sides

- | | | | |
|---|--|---|--|
| 1 | SuperSpeed USB Type-A 5Gbps signaling rate | 5 | SuperSpeed USB Type-A 5Gbps signaling rate |
| 2 | 1 HDMI v1.4b | 6 | Power Indicator LED |
| 3 | 1 USB Type-C® 10Gbps signaling rate | 7 | AC Power |
| 4 | Headphone/microphone combo jack | | |

PRODUCT NAME
HP 250R 15.6 inch G10 Notebook PC

OPERATING SYSTEMS

Preinstalled
FreeDOS
Windows 11 Home 64
Windows 11 Pro 64

PROCESSORS

Processor ^{1,2,3,4}	Cores	Number of P-cores	Number of E-cores	Number of LP E-cores	Threads	L3 Cache	Max Turbo Frequency	
							P-cores	E-cores
Intel® Core™ 7 -150U	10 cores	2	8	No data in Pulsar	12	12 MB	5.4 GHz	4.0 GHz
Intel® Core™ 5 -120U	10 cores	2	8	No data in Pulsar	12	12 MB	5.0 GHz	3.8 GHz
Intel® Core™ 3 -100U	8 cores	2	4	No data in Pulsar	8	10 MB	4.7 Ghz	3.3 GHz

Processor Family
Intel® Core™ 7 processor
Intel® Core™ 5 processor
Intel® Core™ 3 processor

1. 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.
2. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
3. Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.
4. 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>.

GRAPHICS

Integrated
Intel® Graphics



DISPLAY

Non-Touch

39.6 cm (15.6") diagonal, FHD UWVA eDP, IPS, anti-glare, Narrow Bezel, 300 nits, 45% NTSC (1920 x 1080) ^{5,6,7}

39.6 cm (15.6") diagonal, FHD SVA eDP, IPS, anti-glare, Narrow Bezel, 250 nits, 45% NTSC (1920 x 1080) ^{5,6,7}

39.6 cm (15.6") diagonal, HD SVA eDP, TN, anti-glare, Narrow Bezel, 250 nits, 45% NTSC (1366 x 768) ^{5,6,7}

HDMI

Port supports resolutions up to 1920 x 1200 external resolution @60 Hz

Display Size

15.6 in

39.6 cm (15.6")

5. HD content required to view HD images.

6. Sold separately or as an optional feature.

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



STORAGE AND DRIVES

Primary M.2 Storage

1 TB PCIe® NVMe™ Solid State Drive ⁸

512 GB PCIe® NVMe™ Solid State Drive ⁸

256 GB PCIe® NVMe™ Solid State Drive ⁸

8. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for system recovery software.



MEMORY

Maximum Memory

16GB DDR4-3200 (1 x 16 GB) SDRAM

Memory

16GB DDR4-3200 (1 x 16 GB) SDRAM ⁹

16GB DDR4-3200 (2 x 8 GB) SDRAM ⁹

8GB DDR4-3200 (1 x 8 GB) SDRAM ⁹

4GB DDR4-3200 (1 x 4 GB) SDRAM ⁹

Memory Slots

2 SODIMM

All slots are customer non-accessible / non-upgradeable ¹⁰

Support Dual Channel Memory

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

10. All slots are non-accessible / non-upgradeable.



NETWORKING /COMMUNICATIONS

WLAN

Intel Harrison Peak2-W AX201 Wi-Fi 6 + Bluetooth® 5.2 Wireless Card 2230 non-vPro ¹¹

WLAN Realtek M.2 2230 Cass 8852BE-VT Wi-Fi 6 + Bluetooth® 5.4 Wireless Card WW

Miracast

Compatible with Miracast-certified devices (For Win11)¹²

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

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



AUDIO/MULTIMEDIA

Audio

2 Integrated stereo speakers
Integrated dual array microphone

Speaker Power

2W/4ohm Per speaker

Camera

720p HD camera with Temporal Noise Reduction¹³
1080p FHD camera with Temporal Noise Reduction¹³

[13. HD content required to view HD images.](#)



KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

Full Size Textured island-style Keyboard and optional Backlit and spill resistant w/ copilot keyboard

Pointing Device

Clickpad with multi-touch gesture support

Function Keys

F1 - Open "How to get help in Windows 11" webpage

F2 - Brightness Down

F3 - Brightness Up

F4 - Display Switching

F5 - Blank

F6 - Mute

F7 - Volume Down

F8 - Volume Up

F9 - Previous

F10 - Play/Pause

F11 - Next

F12 - Airplane mode

Hidden Function Keys

Fn+R - Break

Fn+S - Sys Rq

Fn+C - Scroll Lock



SOFTWARE AND SECURITY

Software

Microsoft Office OPK
WPS Office CMIT
Dropbox Promotion ¹⁴
sMedio True DVD for HP
Adobe offer
HP Documentation
Retail Demo -Video Attract Loop
HPX 0.5
HP Privacy Settings
HP Support Assistant ¹⁵
HP Connection Optimizer
ENERGY STAR UWP
HP PC Hardware Diagnostics Windows
Touchpoint Customizer for Consumer
Bing Search for IE11
HP Setup Integrated OOB (GDPR)
Booking URL
Agoda URL
HP Smart
HSA Telemetry for Consumer
TCO E-Logo

Manageability Features

HP System Event Utility – UWP

Security Management

McAfee – MLS ^{16,17,18}

BIOS

TPM 2.0 Embedded Security Chip (Common Criteria EAL4+ Certified) (FIPS 140-2 Level 2 Certified)
HP BIOS Recovery

Smartcard Reader

IPv6 Support

FirstNet Certified

14. 100 GB of free Dropbox storage for 12 months from date of registration. For complete details and terms of use, including cancellation policies, visit the Dropbox website at <https://www.dropbox.com/help/space/hp-promotion>. Internet service required and not included.

15. HP Support Assistant requires Windows and Internet Access.

16. Sold separately or as an optional feature.



17. Must activate within 180 days of Windows activation.

18. 30-day McAfee® LiveSafe™ trial included. Internet access required and not included. Subscription required after expiration. See <http://www.mcafee.com> for more details.



POWER

Battery

HP Smart 65 W USB Type-C® adapter

HP Smart 65 W External AC power adapter

HP Smart 65 W EM External AC power adapter

HP Smart 45 W External AC power adapter

Battery Recharge Time

HP Long Life 3-cell, 41 Wh Polymer¹⁹

Support fast charge <<0.7C Fast Charge (50% in 45min) with adapter under system OFF mode

Power Cord

1M (3.28 feet) length power cord

Halogen-free power cord

Battery Life

Up to 7hours and 21mins (7.35hours) with HP Long Life 3-cell, 41 Wh Polymer, UMA graphic, Intel RPL UR15W, Display set to HD 250 nits, 8GB memory,256GB SSD)

Up to 7hours and 1min (7.02hours) with HP Long Life 3-cell, 41 Wh Polymer, UMA graphic, Intel RPL UR15W, Display set to FHD 250 nits, 8GB memory,256GB SSD)

Battery Weight

0.39 lb

0.18kg

¹⁹ 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.



WEIGHT & DIMENSIONS

Product Weight

Starting at 3.5(lbs)

Starting at 1.59 kg

Product Dimensions (w x d x h)

14.17 x 9.29 x 0.73 in

359.8 x 236 x 11.75 mm (front) / 15.78 mm (rear)



PORTS/SLOTS

2 SuperSpeed USB Type-A 5Gbps signaling rate

1 USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, data transfer, HDMI1.4 out, HP Sleep&Charger)

1 HDMI v1.4b

1 AC Power

1 Headphone/microphone combo jack



SERVICE AND SUPPORT

1-year warranty and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty except for HP Long Life batteries which will follow the one or three year warranty of the platform. 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>.²⁰

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



SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)

Nominal Operating Voltage	19V
Max Operating Power	UMA<45W

Temperature

Operating	32° to 95° F (0° to 35° C) (not writing optical)
Non-operating	41° to 95° F (5° to 35° C) (writing optical)

Relative Humidity

Operating	10% to 90%, non-condensing
Non-operating	5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature

Shock

Operating	40 G, 2 ms, half-sine
Non-operating	200 G, 2 ms, half-sine

Random Vibration

Operating	0.75 grms
Non-operating	1.5 grms

Altitude (unpressurized)

Operating	-50 to 10,000 ft (-15.24 to 3,048 m)
Non-operating	-50 to 40,000 ft (-15.24 to 12,192 m)

Planned Industry Standard Certifications

Regulatory Model Number	TPN-Q286
CSA/UL 62368-1	Yes
ENERGY STAR®	Yes ²¹
EPEAT® Climate + Gold Registered	Yes ²²
FCC/ICES/CISPR/VCCI	Yes
CE MARKING	Yes
GS Mark	No
China CCC/SRRC	Yes
Taiwan BSMI/NCC	Yes
Korea KCC/KC/KES	Yes
Ukraine NSoC/TEC	Yes
EAEU Compliance	Yes
Saudi Arabian Compliance	No
TCO	Yes
WW RoHS	Yes
Low Blue Light	No

21. Configurations of the HP 250R 15.6 inch G10 Notebook PC that are ENERGY STAR® qualified are identified as HP 250R 15.6 inch G10 Notebook PC ENERGY STAR on HP websites and on <http://www.energystar.gov>.

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



DISPLAYS

1. Actual brightness will be lower with touchscreen.

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

88198 - 15.6 in FHD (1920 x 1080) Anti-Glare UWVA LED NTSC 45 NWBZ 300 eDP 1.2 w/o PSR flat LCD Panel

Outline Dimensions (W x H x D)	350.960 x 215.240 x 3.200 mm (max)
Active Area	344.160 x 193.590 mm
Weight	365 g (max)
Diagonal Size	15.6 (inch)
Surface Treatment	Anti-Glare
Touch Enabled	No
Contrast Ratio	1000:1 (typical)
Refresh Rate	60Hz
Brightness	300 nits ¹
Pixel Resolution - Format	1920 x 1080 (FHD)
Backlight	WLED
Pixel Resolution	RGB
Color Gamut Coverage	NTSC 45%
Color Depth	6 (Hi FRC w/ condition to enable)
Viewing Angle	UWVA 89/89/89/89
Low Blue Light	No
Power Consumption (W, EBL@ 150nits max/ 200nits max)	2.54W/3.15W (max)

69489 - Panel LCD 15.6-in FHD (1920x1080) Anti-Glare WLED SVA 45percent cg 250nits eDP 1.2 w/o PSR NWBZ ultraslim

Outline Dimensions (W x H x D)	350.960 x 216.750 x 3.200 mm (max)
Active Area	344.160 x 193.590 mm
Weight	360 g (max)
Diagonal Size	15.6 (inch)
Surface Treatment	Anti-Glare
Touch Enabled	No
Contrast Ratio	300:1 (typical)
Refresh Rate	60Hz
Brightness	250 nits ¹
Pixel Resolution - Format	1920 x 1080 (FHD)
Backlight	WLED
Pixel Resolution	RGB
Color Gamut Coverage	NTSC 45%
Color Depth	6 (Hi FRC w/ condition to enable)
Viewing Angle	SVA 45/45/15/30
Low Blue Light	No
Power Consumption (W, EBL@ 150nits max/ 200nits max)	2.62W/3.27 (max)



69487 - Panel LCD 15.6-in HD (1366x768) Anti-Glare WLED SVA 45percent cg 250nits eDP 1.2 w/o PSR NWBZ ultraslim	Outline Dimensions (W x H x D)	351.030 x 216.750 x 3.200 mm (max)
	Active Area	344.230 x 193.540 mm
	Weight	370 g (max)
	Diagonal Size	15.6 (inch)
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	300:1 (typical)
	Refresh Rate	60Hz
	Brightness	250 nits ¹
	Pixel Resolution - Format	1366 x 768 (HD)
	Backlight	WLED
	Pixel Resolution	RGB
	Color Gamut Coverage	NTSC 45%
	Color Depth	6 (Hi FRC w/ condition to enable)
	Viewing Angle	SVA 45/45/15/30
	Low Blue Light	No
	Power Consumption (W, EBL@ 150nits max/ 200nits max)	2.18W/2.59 (max)



STORAGE

SSD 1TB 2280 PCIe NVMe Value	Form Factor	M.2 2280
	Capacity	1TB
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen4X4
	Logical Blocks	2,000,409,264
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
SSD 256GB 2280 PCIe NVMe Value	Features	Pyrite 2.0
	Form Factor	M.2 2280
	Capacity	256GB
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	PCIe NVMe Gen4X4
	Logical Blocks	500,118,192
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
SSD 512GB 2280 PCIe NVMe Value	Features	Pyrite 2.0
	Form Factor	M.2 2280
	Capacity	512GB
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	PCIe NVMe Gen4X4
	Logical Blocks	1,000,215,216
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	Pyrite 2.0

NETWORKING / COMMUNICATION

Realtek RTL8852BE-VT 802.11ax 2x2 Wi-Fi + Bluetooth® 5.4 Wireless Card (802.11ax 2x2, supporting gigabit data rate) ¹	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac IEEE 802.11ax IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11r IEEE 802.11v
	Interoperability Frequency Band	Wi-Fi certified modules • 802.11b/g/n/ax 2.402 – 2.482 GHz • 802.11a/n/ac/ax 4.9 – 4.95 GHz (Japan) 5.15 – 5.25 GHz 5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz
	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: max 866.7Mbps • 802.11ax: max 1201Mbps
	Modulation	Direct Sequence Spread Spectrum, OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
	Security ²	• IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g mode only • AES-CCMP: 128 bit in hardware • 802.1x authentication • WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. • WPA2 certification • WPA3 certification • IEEE 802.11i • WAPI



Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points
Output Power³	• 802.11b : +18.5dBm minimum • 802.11g : +17.5dBm minimum • 802.11a : +18.5dBm minimum • 802.11n HT20(2.4GHz) : +15.5dBm minimum • 802.11n HT40(2.4GHz) : +14.5dBm minimum • 802.11n HT20(5GHz) : +15.5dBm minimum • 802.11n HT40(5GHz) : +14.5dBm minimum • 802.11ac VHT80(5GHz) : +11.5dBm minimum • 802.11ax HE40(2.4GHz) : +10dBm minimum • 802.11ax HE80(5GHz) : +10dBm minimum
Power Consumption	• Transmit mode :2.5 W • Receive mode :2 W • Idle mode (PSP) :180 mW (WLAN Associated) • Idle mode :50 mW (WLAN unassociated) • Connected Standby/Modern Standby: 10mW • Radio disabled: 8 mW
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
Receiver Sensitivity⁴	• 802.11b, 1Mbps : -93.5dBm maximum • 802.11b, 11Mbps : -84dBm maximum • 802.11a/g, 6Mbps : -86dBm maximum • 802.11a/g, 54Mbps : -72dBm maximum • 802.11n, MCS07 : -67dBm maximum • 802.11n, MCS15 : -64dBm maximum • 802.11ac, MCS0 : -84dBm maximum • 802.11ac, MCS9 : -59dBm maximum • 802.11ax, MCS11(HE40): -57dBm maximum • 802.11ax, MCS11(HE80): -54dBm maximum
Antenna type	High efficiency antenna with spatial diversity. Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth® communications
Form Factor	PCI-Express M.2 MiniCard
Dimensions	1. Type 2230: 2.3 x 22.0 x 30.0 mm



Weight	1. Type 2230: 2.8g
Operating Voltage	3.3v +/- 9%
Temperature	Operating: 14° to 158° F (–10° to 70° C) Non-operating: –40° to 176° F (–40° to 80° C)
Humidity	Operating: 10% to 90% (non-condensing) Non-operating: 5% to 95% (non-condensing)
Altitude	Operating: 0 to 10,000 ft (3,048 m) Non-operating: 0 to 50,000 ft (15,240 m)
LED Activity	LED Amber – Radio OFF; LED OFF – Radio ON
HP Integrated Module with Bluetooth® 4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Wireless Card Technology	
Bluetooth® Specification	4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available Channels	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)
Data Rates and Throughput	Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps BLE: 1 Mbps data rate; throughput up to 0.2 Mbps Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)
Transmit Power	The Bluetooth® component shall operate as a Class II Bluetooth® device with a maximum transmit power of + 4 dBm for BR and EDR.

1. Wi-Fi 6 is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs.
2. Check latest software/driver release for updates on supported security features.
3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).



Intel Wi-Fi 6 AX201 + Bluetooth® 5.2 Wireless Card (802.11ax 2x2, non-vPro, supporting gigabit file transfer speeds) non-vPro	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac IEEE 802.11ax IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11r IEEE 802.11v
	Interoperability Frequency Band	Wi-Fi certified • 802.11b/g/n/ax 2.402 – 2.482 GHz • 802.11a/n/ac/ax 4.9 – 4.95 GHz (Japan) 5.15 – 5.25 GHz 5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz
	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
	Modulation	Direct Sequence Spread Spectrum OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
	Security ²	• IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only • AES-CCMP: 128 bit in hardware • 802.1x authentication • WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. • WPA2 certification • WPA3 certification • IEEE 802.11i • WAPI



Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points
Output Power³	• 802.11b : +17dBm minimum • 802.11g : +16dBm minimum • 802.11a : +17dBm minimum • 802.11n HT20(2.4GHz) : +14dBm minimum • 802.11n HT40(2.4GHz) : +13dBm minimum • 802.11n HT20(5GHz) : +14dBm minimum • 802.11n HT40(5GHz) : +13dBm minimum • 802.11ac VHT80(5GHz) : +10dBm minimum • 802.11ac VHT160(5GHz) : +10dBm minimum • 802.11ax HE40(2.4GHz) : +12dBm minimum • 802.11ax HE80(5GHz) : +10dBm minimum • 802.11ax HE160(5GHz) : +10dBm minimum
Power Consumption	• Transmit mode: 2.0 W • Receive mode: 1.6 W • Idle mode (PSP) :180 mW (WLAN Associated) • Idle mode 50 mW (WLAN unassociated) • Connected Standby: 10mW • Radio disabled: 8 mW
Power Management	ACPI and PCI Express compliant power management
Receiver Sensitivity⁴	802.11 compliant power saving mode • 802.11b, 1Mbps : -93.5dBm maximum • 802.11b, 11Mbps : -84dBm maximum • 802.11a/g, 6Mbps : -86dBm maximum • 802.11a/g, 54Mbps : -72dBm maximum • 802.11n, MCS07 : -67dBm maximum • 802.11n, MCS15 : -64dBm maximum • 802.11ac, MCS0(VHT80) : -84dBm maximum • 802.11ac, MCS9(VHT80) : -59dBm maximum • 802.11ac, MCS9(VHT160) : -58.5dBm maximum • 802.11ax, MCS11(HE40): -57dBm maximum • 802.11ax, MCS11(HE80): -54dBm maximum • 802.11ax, MCS11(HE160): -53.5dBm maximum
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth® communications



Form Factor	PCI-Express M.2 MiniCard with CNVi Interface
Dimensions	1. Type 2230: 2.3 x 22.0 x 30.0 mm 2. Type 1216: 1.67 x 12.0 x 16.0 mm
Weight	1. Type 2230: 2.8g 2. Type 1216: 1.3g
Operating Voltage	3.3v +/- 9%
Temperature	Operating: 14° to 158° F (–10° to 70° C) Non-operating: –40° to 176° F (–40° to 80° C)
Humidity	Operating: 10% to 90% (non-condensing) Non-operating: 5% to 95% (non-condensing)
Altitude	Operating: 0 to 10,000 ft (3,048 m) Non-operating: 0 to 50,000 ft (15,240 m)
LED Activity	LED Amber – Radio OFF; LED Off – Radio ON
HP Integrated Module with Bluetooth® 4.0/4.1/4.2/5.0/5.1/5.2 Wireless Card Technology	
Bluetooth® Specification	4.0/4.1/4.2/5.0/5.1/5.2 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available Channels	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)
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Transmit Power	The Bluetooth® component shall operate as a Class II Bluetooth® device with a maximum transmit power of + 9.5 dBm for BR and EDR.

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



POWER		
AC Adapter 65 Watt nPFC Standard USB type C Straight 1.8m	Dimensions	3.543 x 2.008 x 1.122 in (9.0x5.1x2.85cm)
	Weight	220g (+/-10g) (Not including power cord. Power cord varies by country.)
	Input Voltage	100-240Vac
	Input Efficiency	81.50% min at 115 Vac/ 230 Vac @5.00V
		86.70% min at 115 Vac/ 230 Vac @9.00V
		88.00% min at 115 Vac/ 230 Vac @12.00V
		89.00% min at 115 Vac/ 230 Vac @15.00V
		89.00% min at 115 Vac/ 230 Vac @20.00V
	Input Frequency Range	47-63Hz
	Input AC current	Max. 1.6 A at 90 Vac
	Output Power	5V/15W
		9V/27W
		12V/60W
		15V/65W
		20V/65W
	DC Output	5V/9V/12V/15V/20V
	Hold-up Time	100% load 5ms at 115 Vac input
	Output Over Current Protection	< 8.0A
	AC Connector	C6
	DC Connector	USB type C
	DC Cable Material	PVC
	Operating Temperature	32°F to 95°F (0°to 35°C)
	Non-operating (storage) Temperature	-4°F to 185°F (-20°to 85°C)
	Altitude	0 to 16,400 ft (0 to 5000m)
	Humidity	20% to 95%
	Storage Humidity	10% to 95%
	EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives
		Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL 62368-1
		Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC



HP 45W 4.5 mm nPFC Right Angle Smart (3-pin) AC Power Adapter

Dimensions	3.74 x 1.772 x 1.043 in (9.5x4.5x2.65cm)
Weight	170g(+/-10g) (Not including power cord. Power cord varies by country.)
Input Voltage	100-240Vac
Input Efficiency	87.74 % at 115 Vac and 88.4 % at 230Vac
Input Frequency Range	47-63 Hz
Input AC current	Max. 1.4 A at 90 Vac
Output Power	45W
DC Output	19.5V
Hold-up Time	100% load 5ms at 115 Vac input/80% load 10ms at 115 Vac input
Output Over Current Protection	< 8.0A
AC Connector	C6
DC Connector	4.5mm Barrel Type
DC Cable Material	PVC
Operating Temperature	32°F to 95°F (0°to 35°C)
Non-operating (storage) Temperature	-4°F to 185°F (-20°to 85°C)
Altitude	0 to 16,400 ft (0 to 5000m)
Humidity	20% to 95%
Storage Humidity	10% to 95%
EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL62368-1 Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia GEMS and RCM, BIS, BSMI, UAE, UKCA DoC

HP 65W 4.5 mm nPFC Right Angle Smart (3-pin) AC Power Adapter

Dimensions	4.016 x 2.165 x 1.181 in (10.2x5.5x3cm)
Weight	250g(+/-10g) (Not including power cord. Power cord varies by country.)
Input Voltage	100-240Vac
Input Efficiency	88 % at 115 Vac and 89 % at 230Vac
Input Frequency Range	47-63 Hz
Input AC current	Max. 1.7 A at 90 Vac
Output Power	65W
DC Output	19.5V
Hold-up Time	100% load 5ms at 115 Vac input/80% load 10ms at 115 Vac input



HP 65W 4.5 mm nPFC Right Angle Smart (3-pin) AC Power Adapter	Output Over Current Protection	< 11.0A
	AC Connector	C6
	DC Connector	4.5mm Barrel Type
	DC Cable Material	PVC
	Operating Temperature	32°F to 95°F (0° to 35°C)
	Non-operating (storage) Temperature	-4°F to 185°F (-20° to 85°C)
	Altitude	0 to 16,400 ft (0 to 5000m)
	Humidity	20% to 95%
	Storage Humidity	10% to 95%
	EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL62368-1 Agency approvals - C-UL-US, TUV/GS, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, BIS, UKCA DoC
	Dimensions	3.543 x 2.008 x 1.122 in (9.0x5.1x2.85cm)
	Weight	225g(+/-10g) (Not including power cord. Power cord varies by country.)
	Input Voltage	100-240Vac
	Input Efficiency	88 % at 115 Vac and 89 % at 230Vac
	Input Frequency Range	47-63 Hz
	Input AC current	Max. 1.7 A at 90 Vac
	Output Power	65W
	DC Output	19.5V
	Hold-up Time	100% load 5ms at 115 Vac input/80% load 10ms at 115 Vac input
	Output Over Current Protection	< 11.0A
	AC Connector	C6
	DC Connector	4.5mm Barrel Type
	DC Cable Material	PVC
	Operating Temperature	32°F to 95°F (0° to 35°C)
	Non-operating (storage) Temperature	-4°F to 185°F (-20° to 85°C)
	Altitude	0 to 16,400 ft (0 to 5000m)
	Humidity	20% to 95%
	Storage Humidity	10% to 95%
	EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL62368-1 Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B,



HP 65W Standard USB-C Halogen Free Straight AC Power Adapter

Dimensions	3.543 x 2.008 x 1.122 in (9.0x5.1x2.85cm)
Weight	220g(+/-10g) (Not including power cord. Power cord varies by country.)
Input Voltage	100-240Vac
Input Efficiency	81.50% min at 115 Vac/ 230 Vac @5.00V 86.70% min at 115 Vac/ 230 Vac @9.00V 88.00% min at 115 Vac/ 230 Vac @12.00V 89.00% min at 115 Vac/ 230 Vac @15.00V 89.00% min at 115 Vac/ 230 Vac @20.00V
Input Frequency Range	47-63Hz
Input AC current	Max. 1.6 A at 90 Vac
Output Power	5V/15W 9V/27W 12V/60W 15V/65W 20V/65W
DC Output	5V/9V/12V/15V/20V
Hold-up Time	100% load 5ms at 115 Vac input
Output Over Current Protection	< 8.0A
AC Connector	C6
DC Connector	USB type C
DC Cable Material	Halogen Free
Operating Temperature	32°F to 95°F (0° to 35°C)
Non-operating (storage) Temperature	-4°F to 185°F (-20° to 85°C)
Altitude	0 to 16,400 ft (0 to 5000m)
Humidity	20% to 95%
Storage Humidity	10% to 95%
EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL 62368-1 Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC



HP 3-cell Long Life Li-Ion (41 WHr)	Weight	0.175 kg (0.377 lb)
	Cells/Type	3cell Lithium-Ion Polymer cell / 515974
	Voltage	11.25V
	Amp-hour capacity	3.648Ah
	Watt-hour capacity	41.04Wh
	Operating (Charging)	32° to 113° F (0° to 45° C)
	Operating (Discharging)	14° to 122° F (-10° to 60° C)
	Optional Travel Battery Available	No

AUDIO	
HD Stereo Codec	Realtek ALC3247
Audio I/O Ports	Audio Jack at Left. Headset connector supports a CTIA and OMTP style headset and is re-taskable as a Line-in, Line-out, Microphone-in or Headphone-out port
Internal Speaker Amplifier	2W from ALC3247
Multi-streaming Capable	multi-streaming enable
Sampling	streams to be sent to/from the front and rear jacks or integrated speaker.
Wavetable Syntheses	DAC: 24bit, 48KHz ADC: 16bit; 48kHz
Analog Audio	DAC: 24bit, 48KHz ADC: 16bit; 48kHz
# of Channels on Line-Out	2
Internal Speaker	Yes

FINGERPRINT READER

Sensor vendor	ELAN 80SW
Sensor type	Capacitive
DPI resolution	508 DPI
Scan area	80x80 pixels
False Rejection Rate	RR= $\leq 3\%$ @ 1:100K
False Acceptance Rate	PR= $\leq 1/100K$ @1:100K
Mobile Voltage Operation	2.7~3.6V
Operating Temperature	-20 to +80 (°C)
Current Consumption Image	35mA
Low Latency Wait For Finger	0.9mA
Capture Rate	33Hz
ESD Resistance	IEC 61000-4-2 4B (+15KV)
Detection Matrix	80x80 pixels with 508 DPI resolution (50 um pitch)

Sensor vendor	Synaptics FS7605
Sensor type	Capacitive
DPI resolution	363 DPI
Scan area	104 x 86 pixels
False Rejection Rate	$\leq 3\%$
False Acceptance Rate	1/50K
Mobile Voltage Operation	3.0V to 3.6V
Operating Temperature	0°-60°C
Current Consumption Image	150mA peak
Low Latency Wait For Finger	80 uA (USB PHY excluded)
Capture Rate	capture image time (1 frame) : 30 ms
ESD Resistance	IEC 61000-4-2 Level 4B (± 15 KV)
Detection Matrix	8 x 36 pixels



OPTIONS

Category	Description	Part Number
Audio	HP USB G2 Stereo Headset (Jackson) - New AMO	428H5AA, 428K6PT, 428K6UT, 428K6AA
	Poly DA75 USB to QD Black Adapter TAA - New AMO	786C6AA
	Poly DA85 USB to QD Black Adapter TAA - New AMO	786C7AA
	Poly DA85-M USB to QD Black Adapter TAA - New AMO	786C8AA
	Poly MDA220 USB-A - New AMO	8A7E0AA
	Poly MDA524 QD USB-A - New AMO	8L544AA
	Poly MDA524 USB-C - New AMO	85Q24AA
	Poly Voyager Free 60 Carbon Black Earbuds +Basic Charge Case - New AMO	7Y8M2AA
	Poly Voyager Free 60 UC Black Earbuds +BT700 USB-C Adapter +Basic Charge Case - New AMO	7Y8M0AA
	Poly Voyager Free 60 UC Carbon Black Earbuds +BT700 USB-A Adapter +Basic Charge Case - New AMO	7Y8H3AA
	Poly Voyager Free 60 UC Carbon Black Earbuds +BT700 USB-C Adapter +Basic Charge Case - New AMO	7Y8H4AA
	Poly Voyager Free 60 UC M Carbon Black Earbuds +BT700 USB-A Adapter +Basic Charge Case - New AMO	7Y8L7AA
	Poly Voyager Free 60 UC M Carbon Black Earbuds +BT700 USB-C Adapter +Basic Charge Case - New AMO	7Y8L8AA
	Poly Voyager Free 60 UC M White Sand Earbuds +BT700 USB-A Adapter +Basic Charge Case - New AMO	7Y8L5AA
	Poly Voyager Free 60 UC M White Sand Earbuds +BT700 USB-C Adapter +Basic Charge Case - New AMO	7Y8L6AA
	Poly Voyager Free 60 UC White Sand Earbuds +BT700 USB-A Adapter +Basic Charge Case - New AMO	7Y8L3AA
	Poly Voyager Free 60 UC White Sand Earbuds +BT700 USB-C Adapter +Basic Charge Case - New AMO	7Y8L4AA
	Poly Voyager Free 60+ UC Carbon Black Earbuds +BT700 USB-A Adapter +Touchscreen Charge Case - New AMO	7Y8G3AA
	Poly Voyager Free 60+ UC Carbon Black Earbuds +BT700 USB-C Adapter +Touchscreen Charge Case - New AMO	7Y8G4AA,7Y8H2AA
	Poly Voyager Free 60+ UC M Carbon Black Earbuds +BT700 USB-A Adapter +Touchscreen Charge Case - New AMO	7Y8G9AA
	Poly Voyager Free 60+ UC M Carbon Black Earbuds +BT700 USB-C Adapter +Touchscreen Charge Case - New AMO	7Y8H0AA
	Poly Voyager Free 60+ UC M White Sand Earbuds +BT700 USB-A Adapter +Touchscreen Charge Case - New AMO	7Y8G7AA
	Poly Voyager Free 60+ UC M White Sand Earbuds +BT700 USB-C Adapter +Touchscreen Charge Case - New AMO	7Y8G8AA
	Poly Voyager Free 60+ UC White Sand Earbuds +BT700 USB-A Adapter +Touchscreen Charge Case - New AMO	7Y8G5AA



Poly Voyager Free 60+ UC White Sand Earbuds +BT700 USB-C Adapter +Touchscreen Charge Case - New AMO	7Y8G6AA
Poly Voyager Free 60/60+ Black Earbuds (2 Pieces) - New AMO	8L649AA,8L5A6AA
Poly Voyager Free 60/60+ Microsoft Teams Certified Black Earbuds (2 Pieces) - New AMO	8L5A8AA
Poly Voyager Free 60/60+ Microsoft Teams Certified White Earbuds (2 Pieces) - New AMO	8L5B0AA
Poly Voyager Free 60/60+ White Earbuds (2 Pieces) - New AMO	8L5B1AA,8L650AA
Poly Blackwire 3210 Monaural Headset +USB-C/A Adapter CUST1 - New AMO	9P7X7AA
Poly Blackwire 3210 Monaural USB-C Headset +USB-C/A Adapter Batch 2 - New AMO	8X214AA
Poly Blackwire 3215 Monaural USB-C Headset +3.5mm Plug +USB-C/A Adapter Batch 2 - New AMO	8X227AA
Poly Blackwire 3220 Stereo Headset +USB-C/A Adapter CUST1 - New AMO	9P7X8AA
Poly Blackwire 3220 Stereo USB-C Headset +USB-C/A Adapter Batch 2 - New AMO	93S87AA,8X228AA
Poly Blackwire 3225 Stereo USB-C Headset +3.5mm Plug +USB-C/A Adapter Batch 2 - New AMO	8X229AA
Poly Blackwire 3225 USB-C Headset CUST1 Batch 2 - New AMO	8G0X1AA
Poly Blackwire 3310 Microsoft Teams Certified USB-C Headset CUST1 Batch 2 - New AMO	8G0Y7AA
Poly Blackwire 3310 Monaural Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Batch 2 - New AMO	8X216AA
Poly Blackwire 3310 Monaural USB-C Headset +USB-C/A Adapter Batch 2 - New AMO	8X215AA
Poly Blackwire 3310 USB-C Headset CUST1 Batch 2 - New AMO	8G0X2AA
Poly Blackwire 3315 Monaural Microsoft Teams Certified USB-C Headset +3.5mm Plug+USB-C/A Adapter Batch 2 - New AMO	8X218AA
Poly Blackwire 3315 Monaural USB-C Headset +3.5mm Plug +USB-C/A Adapter Batch 2 - New AMO	8X217AA
Poly Blackwire 3320 Microsoft Teams Certified USB-C Headset CUST1 Batch 2 - New AMO	8G0Y9AA
Poly Blackwire 3320 Stereo Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Batch 2 - New AMO	8X220AA
Poly Blackwire 3320 Stereo USB-C Headset +USB-C/A Adapter Batch 2 - New AMO	8X219AA
Poly Blackwire 3320 USB-C Headset CUST1 Batch 2 - New AMO	8G0Y8AA
Poly Blackwire 3325 Microsoft Teams Certified USB-C Headset CUST1 Batch 2 - New AMO	8G0Z1AA
Poly Blackwire 3325 Stereo Microsoft Teams Certified USB-C Headset +3.5mm Plug +USB-C/A Adapter - New AMO	8X222AA



Poly Blackwire 3325 Stereo USB-C Headset +3.5mm Plug +USB-C/A Adapter Batch 2 - New AMO	8X221AA
Poly Blackwire 3325 USB-C Headset CUST1 Batch 2 - New AMO	8G0Z0AA
Poly Blackwire 5210 Monoaural USB-C Headset +3.5mm Plug +USB-C/A Adapter Batch 2 - New AMO	8X230AA
Poly Blackwire 5210 USB-C Headset CUST1 - New AMO	9P7X5AA
Poly Blackwire 5220 Stereo USB-C Headset +3.5mm Plug +USB-C/A Adapter Batch 2 - New AMO	8X231AA,93S88AA
Poly Blackwire 5220 USB-C Headset CUST1 - New AMO	9P7X6AA
Poly Blackwire 8225 Microsoft Teams Certified USB-C Headset CUST1 Batch 2 - New AMO	8G0Z5AA
Poly Blackwire 8225 Stereo Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Batch 2 - New AMO	8X225AA
Poly Blackwire 8225 Stereo USB-C Headset +USB-C/A Adapter Batch 2 - New AMO	8X223AA
Poly Blackwire 8225 USB-C Headset CUST1 Batch 2 - New AMO	8G0Z4AA
Poly EncorePro 310 Monoaural USB-A Headset TAA Batch 1 - New AMO	767G1AA
Poly EncorePro 310 Monoaural with Quick Disconnect Headset TAA Batch 1 - New AMO	77T43AA
Poly EncorePro 310 USB-C Monoaural Headset TAA Batch 1 - New AMO	760Q8AA
Poly EncorePro 320 Stereo USB-A Headset TAA Batch 1 - New AMO	767G0AA
Poly EncorePro 320 Stereo USB-C Headset TAA Batch 1 - New AMO	767F9AA
Poly EncorePro 320 with Quick Disconnect Binaural Headset TAA Batch 1 - New AMO	77T26AA
Poly EncorePro 510 Monoaural Headset +Quick Disconnect Batch 1 - New AMO	783Q2AA
Poly EncorePro 515 Microsoft Teams Certified Monoaural with USB-A Headset Batch 1 - New AMO	783R1AA
Poly EncorePro 515 Monoaural with USB-A Headset Batch 1 - New AMO	783R0AA
Poly EncorePro 520 Binaural Headset +Quick Disconnect - New AMO	783P7AA
Poly EncorePro 525 Microsoft Teams Certified Stereo with USB-A Headset Batch 1 - New AMO	783R2AA
Poly EncorePro 525 USB-A Stereo Headset Batch 1 - New AMO	783R3AA
Poly EncorePro 530 Headset +Quick Disconnect Batch 1 - New AMO	783P3AA
Poly EncorePro 540 Convertible Headset +Quick Disconnect Batch 1 - New AMO	783P1AA
Poly EncorePro 715 USB-A Monoaural Headset TAA Batch 1 - New AMO	783N5AA
Poly EncorePro 720 Binaural Headset +Quick Disconnect - New AMO	8R707AA
Poly EncorePro 725 USB-A Stereo Headset TAA Batch 1 - New AMO	783M6AA
Poly EncorePro HW710 Single Ear Headset +Carry Case +Quick Disconnect - New AMO	8R708AA



Poly Voyager 4310 Microsoft Teams Certified Headset +BT700 dongle +Charging Stand - New AMO	77Y93AA
Poly Voyager 4310 Microsoft Teams Certified USB-A Headset +BT700 dongle Batch 1 - New AMO	77Y91AA
Poly Voyager 4310 Microsoft Teams Certified USB-C Headset +BT700 dongle Batch 1 - New AMO	77Y95AA
Poly Voyager 4310 Microsoft Teams Certified USB-C Headset +BT700 dongle CUST1 Batch 2 - New AMO	8G102AA
Poly Voyager 4310 UC Headset +USB-A to USB-C Cable +BT700 dongle CUST1 Batch 2 - New AMO	7Y212AA
Poly Voyager 4310 UC Monaural Headset +BT700 USB-A Adapter +Charging Stand - New AMO	77Y92AA
Poly Voyager 4310 USB-A Headset +BT700 dongle Batch 1 - New AMO	76U48AA
Poly Voyager 4310 USB-C Headset +BT700 dongle +Charging Stand Batch 1 - New AMO	77Y96AA
Poly Voyager 4310 USB-C Headset +BT700 dongle +Charging Stand CUST1 Batch 2 - New AMO	8G103AA
Poly Voyager 4310 USB-C Headset +BT700 dongle Batch 1 - New AMO	77Y94AA
Poly Voyager 4310 USB-C Headset +BT700 dongle CUST1 Batch 2 - New AMO	8G101AA
Poly Voyager 4310-M Microsoft Teams Certified USB-C Headset +BT700 dongle +Charging Stand Batch 1 - New AMO	77Y97AA
Poly Voyager 4310-M Microsoft Teams Certified USB-C Headset +BT700 dongle +Charging StandCUST1Batch2 - New AMO	8G104AA
Poly Voyager 4310-M UC Headset +USB-A to USB-C Cable +BT700 dongle Batch 2 - New AMO	7Y210AA
Poly Voyager 4320 Microsoft Teams Certified Headset +BT700 dongle +Charging Stand - New AMO	77Z00AA
Poly Voyager 4320 Microsoft Teams Certified USB-A Headset +BT700 dongle Batch 1 - New AMO	77Y98AA
Poly Voyager 4320 Microsoft Teams Certified USB-C Headset +BT700 dongle Batch 1 - New AMO	77Z30AA
Poly Voyager 4320 Microsoft Teams Certified USB-C Headset +BT700 dongle CUST1 Batch 2 - New AMO	8G107AA
Poly Voyager 4320 UC Stereo USB-A Headset +BT700 USB-A Adapter +Charging Stand - New AMO	77Y99AA
Poly Voyager 4320 USB-A Headset +BT700 dongle Batch 1 - New AMO	76U49AA
Poly Voyager 4320 USB-C Headset +BT700 dongle +Charging Stand Batch 1 - New AMO	77Z31AA
Poly Voyager 4320 USB-C Headset +BT700 dongle +Charging Stand CUST1 Batch 2 - New AMO	8G109AA
Poly Voyager 4320 USB-C Headset +BT700 dongle Batch 1 - New AMO	76U50AA



Poly Voyager 4320 USB-C Headset +BT700 dongle CUST1 Batch 2 - New AMO	8G106AA
Poly Voyager 4320-M +USB-A to USB-C Cable +BT700 dongle Batch 2 - New AMO	7Y211AA
Poly Voyager 4320-M Microsoft Teams Certified Headset +BT700 dongle +Charging Stand Batch 1 - New AMO	77Z32AA
Poly Voyager 4320-M Microsoft Teams Certified Headset +BT700 dongle +Charging Stand CUST1 Batch 2 - New AMO	8G110AA
Poly Voyager 4320-M UC Headset +USB-A to USB-C Cable +BT700 dongle +Charging Stand CUST1 Batch 2 - New AMO	7Y214AA
Poly Voyager Focus 2 Microsoft Teams Certified USB-C-C Headset +USB-C/A Adapter +Charging Stand (Tactical 6316) - New AMO	9T9J6AA
Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter (Tactical 6316) - New AMO	9T9J3AA
Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter +Charging Stand (Tactical 6316) - New AMO	9T9J5AA
Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Black Headset +USB-C/A Adapter - New AMO	9D452AA
Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Batch 2 - New AMO	8H2G3AA,8G7U0AA
Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter CUST1 Batch 2 - New AMO	8G7U1AA
Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Demo - New AMO	9C6W5AA
Poly Voyager Surround 80 UC USB-C Headset +USB-C/A Adapter Batch 2 - New AMO	8G7T9AA
Poly Voyager Surround 85 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter +Charging Stand Batch 2 - New AMO	8G7T8AA
Poly Voyager Surround 85 UC USB-C Headset +USB-C/A Adapter +Charging Stand Batch 2 - New AMO	8G7T7AA
Poly Sync 10 Microsoft Teams Certified USB-A Speakerphone - New AMO	77P34AA
Poly Sync 10 Speakerphone +USB-A to USB-C Cable Batch 2 - New AMO	7S4M6AA
Poly Sync 10 USB-A USB-C Speakerphone - New AMO	772C3AA
Poly Sync 20 Microsoft Teams Certified USB-A Speakerphone - New AMO	772C8AA
Poly Sync 20 Speakerphone Customer Special 1 - New AMO	7S4C1AA
Poly Sync 20 USB-A Speakerphone - New AMO	772D2AA
Poly Sync 20 USB-C Speakerphone Batch 1 - New AMO	7F0J7AA
Poly Sync 20 USB-C Speakerphone Customer Special 1 - New AMO	8G0X5AA
Poly Sync 20+ Microsoft Teams Certified USB-A Speakerphone Batch 1 - New AMO	772C9AA



Poly Sync 20+ Microsoft Teams Certified USB-C Speakerphone Batch 1 - New AMO	772D1AA
Poly Sync 20+ Microsoft Teams Certified USB-C Speakerphone Customer Special 1 - New AMO	8GOX8AA
Poly Sync 20+ Speakerphone +BT700 dongle +Pouch Customer Special 1 - New AMO	7S4B9AA
Poly Sync 20+ USB-A Speakerphone Batch 1 - New AMO	772C6AA
Poly Sync 20+ USB-C Speakerphone Batch 1 - New AMO	772D0AA
Poly Sync 20+ USB-C Speakerphone Customer Special 1 - New AMO	8GOX7AA
Poly Sync 20+M Speakerphone +USB-A to USB-C Cable +BT700 dongle +Pouch Batch 2 - New AMO	7Y215AA
Poly Sync 20-M Microsoft Teams Certified USB-C Speakerphone Batch 1 - New AMO	7F0J8AA
Poly Sync 20-M Microsoft Teams Certified USB-C Speakerphone Customer Special 1 - New AMO	8GOX6AA
Poly Sync 20-M Speakerphone +USB-A to USB-C Cable Batch 2 - New AMO	7S4M1AA
Poly Sync 40 Microsoft Teams Certified Speakerphone Customer Special 1 - New AMO	8GOY0AA
Poly Sync 40 Microsoft Teams Certified USB-A Speakerphone - New AMO	77P35AA
Poly Sync 40 USB-A USB-C BT Speakerphone - New AMO	772C4AA
Poly Sync 40 USB-A USB-C Speakerphone Customer Special 1 - New AMO	8GOX9AA
Poly Sync 40+ Microsoft Teams Certified Speakerphone Customer Special 1 - New AMO	8GOX4AA
Poly Sync 40+ Microsoft Teams Certified USB-A USB-C Speakerphone +BT700 USB-A Adapter - New AMO	77P36AA
Poly Sync 40+ Speakerphone Customer Special 1 - New AMO	8GOX3AA
Poly Sync 40+ USB-A USB-C Speakerphone +BT700 USB-A Adapter - New AMO	772C5AA
Poly Sync 60 Microsoft Teams Certified Speakerphone Batch 1 - New AMO	77P41AA
Poly Sync 60 Speakerphone - New AMO	772C2AA
Video	
HP 325 FHD USB-A Webcam	53X27AA
Cases	
HP Prelude Pro Recycled 15.6 Backpack (Montrose) - New AMO	1X644AA,1X644ET,1X644UT
HP Prelude Pro Recycled 15.6 Top Load (Midtown) - New AMO	1X645AA,1X645ET,1X645UT
HP Prelude G2 15.6 Top Load (Gulfton) - New AMO	1E7D7AA,2Z8P4AA,50P31AA
HP Prelude G2 15.6 Backpack (Edo) - New AMO	1E7D6AA,1E7D6UT,2Z8P3AA,50P32AA
HP Renew Business 17.3 Laptop Backpack (Negotium 17" BP) - New AMO	3E2U5AA,3E2U5ET,3E2U5UT
HP Renew Business 17.3 Laptop Bag (Negotium 17" TL) - New AMO	3E2U6AA,3E2U6UT



	HP Renew Business 15.6 Laptop Bag (Negotium 15" TL) - New AMO	3E5F8AA,3E5F8ET,3E5F8UT
	HP Renew Executive 16 Laptop Backpack (Exsequi - Bezo) - New AMO	6B8Y1AA,6B8Y1UT
	HP Renew Executive 16 Laptop Bag (Exsequi-Musk) - New AMO	6B8Y2AA
	HP Travel 25L 15.6 Iron Gray Laptop Backpack (Patty) - New AMO	6B8U4AA,6H2D8AA
	HP Travel 18L 15.6 Iron Gray Laptop Backpack (Lucile) - New AMO	6B8U6AA,6H2D9AA
	HP 215 15.6 Laptop Backpack (Tyranno) - New AMO	35L98AA#ACJ
	HP 315 15.6 Laptop Backpack (Brachio) - New AMO	35L97AA#ACJ
	HP 235 15.6 Laptop Backpack (Dilophoph) - New AMO	35M00AA#ACJ
	HP 225 15.6 Laptop Backpack (Spino) - New AMO	2P7U6AA#ACJ
	HP 115 15.6 Laptop Backpack (Stego) - New AMO	8DV45AA#ACJ
	HP Convertible Laptop Stand (Ricky) - New AMO	9C2H2AA
	HP 15.6 Modular Laptop Backpack (Gamora) - New AMO	9J496AA,9J4C1AA
	HP 15.6 Modular Laptop Bag (Nebula) - New AMO	9J497AA,9J4C2AA
	HP 15.6 Modular Laptop Sleeve (Rocket) - New AMO	9J498AA,9J4C3AA
	HP Travel Plus 30 Liter 17 Laptop Backpack	A2CE0AA
	HP Travel Plus 22 Liter 16 Laptop Bag	A2CE1AA
	HP Travel Plus 15 Liter 14 Laptop Bag	A2CE2AA
	HP Everyday 16 Odyssey Gray Laptop Briefcase	A08KHUT
	HP Everyday 16 Odyssey Gray Laptop Bag	A08KKA
	HP Everyday 16 Odyssey Gray Laptop Backpack	A08KLUT
Hub	HP USB-C to USB-A Hub Jake (Jake) - New AMO	Z6A00AA,Z6A00ET,Z6A00UT,Z8W90AA#A BB,Z8W90AA#ABL,Z8W90AA#UUF
	HP 4K USB-C Multiport Hub (Jara) - New AMO	6G843AA#ABA,6G843UT#ABA,6G842AA# ABB,6G842AA#UUF,6G843AA#ABB,6G843 AA#UUF,6G843ET#ABB
	HP Universal USB-C Hub and Laptop Charger Combo (Torvalds Combo) - New AMO	9H0H9AA#ACQ,9H0H9AA#ABA,9H0H9AA# ABZ,9H0H9AA#ABB,9H0H9AA#ABG,9H0H 9AA#UUF,9H0H9AA#AB1,9H0H9AA#ABU, 9H0H9AA#ACJ,9H0H9AA#UUF,9H0H9AA# ABT,9H0H9AA#AB0,9H0H9AA#ABY
	HP Universal USB-C Multiport Hub (Torvalds) - New AMO	50H55UT,50H55PT#ACJ,50H55AA,50H98 AA#ABL,50H98AA#ABB,50H98AA#UUF
	HP USB-C Travel Hub G3 (Fox 3) - New AMO	86S97AA,86T46AA#ABA,86T46AA#UUF,8 6S97UT,86T46AA#ABB
Adapter	HP HDMI to VGA Adapter Wall-e (Wall-E) - New AMO	H4F02UT#ABA,H4F02AA#ABA,H4F02AA# AC3,H4F02AA#UUF,H4F02ET#AC3
	HP USB 3.0 to Gigabit RJ45 Adapter G2 (Speedy2) - New AMO	4Z7Z7AA,4Z7Z7UT
	HP USB-C to DisplayPort Adapter G2 Luna2 (Luna2) - New AMO	8Y8Y1AA
	HP USB-C to HDMI 2.0 Adapter GABBA (Gabba) - New AMO	2PC54AA#UUF,1WC36AA,2PC54AA#ABL,2 PC54AA#ABB
	HP USB-C to RJ45 Adapter G2 (Hotdog2) - New AMO	4Z527UT,4Z527AA,4Z534AA#ABB
	HP USB-C to USB 3.0 Adapter (Daphne) - New AMO	N2Z63UT,N2Z63AA#AC3,N2Z63AA#ABA



Keyboard/Combo

HP USB-C to VGA Adapter Scrappy (Scrappy) - New AMO

HP 125 WD USB Keyboard (Captain Crunch) - New AMO
HP 225 Wireless Keyboard (Havelock) - New AMO
HP 320K WD USB Keyboard (Halley) - New AMO

HP 975 WL Dual-Mode USB+ Bluetooth® Keyboard (Ivy) - New AMO

HP 355 Compact Multi-Device Bluetooth® Keyboard (Pocky) - New AMO
HP 455 Wireless Programmable USB Keyboard (Twinkies) - New AMO

P7Z54AA#ABL,N9K76UT#ABA,P7Z54AA#UUF,N9K76AA#ABA,N9K76AA#AC3,P7Z54AA#ABB

266C9AA,266C9UT,266C9ET
805T1AA,805T1UT
9SR37AA,9SR37UT,9SR37ET
3Z726AA#A2M,3Z726AA#A2Q,3Z726AA#AB0,3Z726AA#AB1,3Z726AA#AB2,3Z726AA#AB4,3Z726AA#AB6,3Z726AA#AB7,3Z726AA#AB8,3Z726AA#AB9,3Z726AA#ABA,3Z726AA#ABB,3Z726AA#ABC,3Z726AA#ABD,3Z726AA#ABE,3Z726AA#ABF,3Z726AA#ABH,3Z726AA#ABJ,3Z726AA#ABM,3Z726AA#ABN,3Z726AA#ABS,3Z726AA#ABT,3Z726AA#ABU,3Z726AA#ABV,3Z726AA#ABX,3Z726AA#ABY,3Z726AA#ABZ,3Z726AA#AC0,3Z726AA#AC3,3Z726AA#AC4,3Z726AA#ACB,3Z726AA#ACH,3Z726AA#ACJ,3Z726AA#AK4,3Z726AA#AKB,3Z726AA#AKC,3Z726AA#AKD,3Z726AA#AKE,3Z726AA#AKL,3Z726AA#AKQ,3Z726AA#AKR,3Z726AA#AKS,3Z726AA#AR4,3Z726AA#ARK,3Z726AA#B15,3Z726AA#BCM,3Z726AA#BED,3Z726AA#BH5,3Z726AA#UUF,3Z726AA#UUW,3Z726AA#UUZ,3Z726ET#ABB,3Z726ET#ABF,3Z726ET#ABU,3Z726ET#ABZ,3Z726UT#ABA

692S9AA#A2M,692S9AA#A2Q,692S9AA#AB6,692S9AA#AB7,692S9AA#AB8,692S9AA#AB9,692S9AA#ABB,692S9AA#ABD,692S9AA#ABE,692S9AA#ABF,692S9AA#ABH,692S9AA#ABL,692S9AA#ABM,692S9AA#ABN,692S9AA#ABS,692S9AA#ABT,692S9AA#ABU,692S9AA#ABV,692S9AA#ABX,692S9AA#ABY,692S9AA#ABZ,692S9AA#AC0,692S9AA#AC3,692S9AA#ACB,692S9AA#AKB,692S9AA#AKC,692S9AA#AKD,692S9AA#AKE,692S9AA#AKQ,692S9AA#AKR,692S9AA#AKS,692S9AA#AR4,692S9AA#ARK,692S9AA#B15,692S9AA#BCM,692S9AA#BED,692S9AA#BH5,692S9AA#UUF,692S9AA#UUW,692S9AA#UUZ,692S9UT#ABA

4R177AA,4R177ET,4R177UT



Mouse

HP 225 Antimicrobial Wired Mouse and Keyboard Combo (Captain Crunch) - New AMO	286K3AA
HP 225 Wired Mouse and Keyboard Combo (Captain Crunch) - New AMO	286J4AA,286J4ET,286J4UT
HP 235 Wireless Mouse and Keyboard Combo Brac (Brac) - New AMO	1Y4D0UT,1Y4D0AA
HP Wired Desktop 320MK Mouse and Keyboard (Halley) - New AMO	9SR36UT,9SR36AA,9SR36ET
HP 105 Sanitizable Mouse Pad (Kakashi) - New AMO	8X595AA
HP 105 USB-A Wired Mouse Black (Galapagos) - New AMO	822M9AA,822M9UT
HP 125 USB-A Wired Mouse (Captain Crunch) - New AMO	265A9ET,265A9AT,265A9UT,265A9AA
HP 128 USB Laser Wired Mouse (Captain Crunch) - New AMO	265D9AA,265D9ET,265D9UT
HP 155 USB-A Wired Mouse (OreoBPS) - New AMO	5B8B7AA
HP 205 Sanitizable Desk Mat (Sasuke) - New AMO	8X597AA
	4E407AA#AB2,4E407AA#ABL,4E407AA#ABM,4E407AA#AC3,4E407AA#ACJ,4E407AA#UUF,4E407UT#AB2,4E407UT#ABA,4E407UT#ABL,4E407UT#ABM,4E407UT#AC3,4E407UT#ACJ,4E407UT#UUF
HP 235 Wireless 2.4GHz Slim Wireless Mouse (KentingPlus) - New AMO	81S67AA,81S67UT
HP 245 Bluetooth® 5.0 Bluetooth® Mouse Black (MilkaB) - New AMO	
HP 255 Dual Bluetooth® 5.0 + Wireless 2.4GHz Wireless Mouse (Sochi) - New AMO	8R3U1AA,8R3U1UT
HP 285 Silent Wireless 2.4GHz Wireless Mouse (Patchi) - New AMO	6G4E6AA
	9VA80AA#ABA,9VA80AA#AC3,9VA80AA#AK4,9VA80AA#UUF,9VA80ET#AC3,9VA80UT#ABA
HP 320M USB-A Wired Mouse (Halley) - New AMO	7M1D5AA
HP 425 Programmable Bluetooth® Wireless Mouse (Rata) - New AMO	3B4Q5AA#ABA,3B4Q5AA#AC3,3B4Q5AA#UUF,3B4Q5UT#ABA,3B4Q5UT#AC3,3B4Q5UT#UUF
HP 435 Bluetooth® 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse (Cadbury) - New AMO	9C2F7AA
HP 515 Ultra-Fast Rechargeable Wireless Mouse (Buble2) - New AMO	8T6M0AA,8T6M0UT
HP 685 Comfort Dual-Mode Mouse (Simmons) - New AMO	8F1Y4AA
HP 695 Qi-Charging Bluetooth® Wireless Mouse (Remi) - New AMO	
HP 45W USB-C LC Dali AC Power Adapter (Dali) - New AMO	1MZ01AA,1MZ01ET
HP 65W USB-C LC AC Power Adapter (Ceto) - New AMO	1P3K6AA,1P3K6UT,944V0AA
HP 65W 4.5 mm Smart AC Power Adapter (Hera) - New AMO	H6Y89AA, H6Y89UT
	L65505-002, L65505-302, L65505-003, L65505-303, L65505-028, L65505-001, L65505-011
64734 - AC Adapter 65 Watt nPFC Standard USB type C Straight 1.8m	L25296-011, L25296-012, L25296-013, L25296-014
86179 - HP 45W 4.5 mm nPFC Right Angle Smart (3-pin) AC Power Adapter Cupid II	
86180 - HP 65W 4.5 mm nPFC Right Angle Smart (3-pin) AC Power Adapter EM II	L25299-011, L25299-012

Power



Commodity	HP USB DVD-Writer EXT ODD (Artoo2) - New AMO	F2B56AA, F2B56ET, F2B56UT
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CHANGELOG

Date of change	Version History		Description of change
	V1to V2		

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