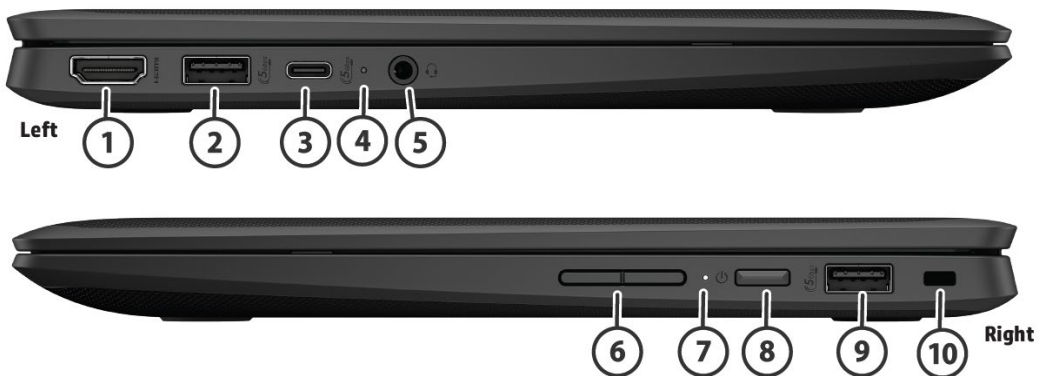


HP Fortis Flip G1m 11 inch Chromebook



Front

- | | | | |
|----------|--------------------------------|-----------|--|
| 1 | Internal Microphone (2) | 7 | Lock Key |
| 2 | Webcam | 8 | Webcam LED (Optional) |
| 3 | HP Privacy Camera | 9 | Auto-Focus 5MP Rear Camera with single mic
World Facing secondary camera (Optional) |
| 4 | Webcam LED | 10 | Microphone (Optional) |
| 5 | HP USI Garaged Pen (Optional) | 11 | Clickpad |
| 6 | Pen Charging Garage (Optional) | | |



		Sides	
1	HDMI 1.4 (Select Models)	6	Volume buttons
2	USB Type-A 5Gbps signaling rate (Charges with power on)	7	Power Button LED
3	USB Type-C® 5Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.2)	8	Power Button
4	Power LED	9	USB Type-A 5Gbps signaling rate (Charges with power on)
5	Headphone/mic combo jack	10	Security lock slot (Lock sold separately)

PRODUCT NAME

HP Fortis Flip G1m 11 inch Chromebook

OPERATING SYSTEMS

ChromeOS

PROCESSORS

Processor ¹	Cores	Threads	Base Frequency	L3 Cache
MediaTek Kompanio 520	8 cores	8	2.05 GHz	1MB

Processor Family

Mediatek Arm Cortex-A processor

1. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.



GRAPHICS

Integrated

ARM® Mali™-G52 MP2 Graphics



DISPLAY

Touch

29.46 cm (11.6") diagonal, HD (1366 x 768), LCD, Touch, UWVA, BrightView, Corning® Gorilla® Glass 3, 250 nits, NTSC 50%

Pen

HP USI Garaged Pen (optional)

Displays support

Support extended displays through HP docks

Display Size

29.46 cm (11.6")



DOCKING (SOLD SEPARATELY)

Docking station model #1	HP USB-C Dock G5
Total number of supported displays (incl. the notebook) display)	3
Max. resolutions supported	Multi-Function Mode: (2) 5k @ 30Hz and (1) 4k UHD @ 30Hz on any port High-Resolution Mode: (2) 5k @ 60Hz on DisplayPort ports and (1) 4k UHD @ 60Hz on HDMI port
Dock Connectors	1x HDMI 2.0, 2x DisplayPort 1.4
Technical limitations	Maximum resolution and display support is dependent on the maximum capability of the notebook. Highest resolution with dual displays is two 8K@ 60Hz host in High Resolution mode. Three maximum displays supported are two 5K@ 30 Hz on DP ports plus one 4K UHD@ 30 Hz on HDMI in Multi-function mode The highest resolution for a non-Thunderbolt host in Multi-function mode is a single 5K dual cable (using both DP ports) + (1) 4K on HDMI port.
Docking station model #2	HP USB-C/A Universal Dock G2
Total number of supported displays (incl. the notebook) display)	3
Max. resolutions supported	Multi-Function Mode: (3) 4K DCI @ 30Hz on any port High-Resolution Mode: (3) 4K DCI @ 30Hz on any port
Dock Connectors	1x HDMI 2.0, 2x DisplayPort 1.2
Technical limitations	Maximum resolution and display support is dependent on the maximum capability of the notebook. The best resolution for dual or triple displays is 4K UHD@ 60Hz. For use with the USB-A adapter that comes in the box the maximum number of displays supported is (2) 4k x 60 Hz on the Type-A Gen 1 connection from the host.



STORAGE AND DRIVES

Primary Storage

64 GB eMMC 5.0²

32 GB eMMC 5.0²

2. 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

8 GB LPDDR4X - 3600MT/s

Memory

8 GB LPDDR4X - 3600MT/s

4 GB LPDDR4X - 3733MT/s³

Memory Slots

No memory slots. Memory soldered down.

The memory is non-accessible / non-upgradeable.

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



NETWORKING /COMMUNICATIONS

WLAN

MediaTek MT7921 (2x2) Wi-Fi 6 Bluetooth® 5.3 wireless card® 4

Chromecast

Chromecast Support

4. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs.



AUDIO/MULTIMEDIA

Audio

Dual speakers

Dual array microphones

Speaker Power

2W/4ohm Per speaker

Camera

720p HD camera

HP Privacy Camera

5MP Rear Camera with SingleMic (World Facing secondary camera) (Optional)

Sensors

Accelerometer + Gyroscope



KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS











Keyboard

Full-size island-style Chrome keyboard, spill resistant with HP Full-Skirted Anchored Key ⁵

Pointing Device

Clickpad with multi-touch gesture support
Taps enabled as default

Function Keys

-  Back
-  Reload
-  Full Screen
-  Display Apps
-  Screenshot
-  Brightness Down
-  Brightness Up
-  Mute
-  Volume Down
-  Volume Up

5. Backlit keyboard is an optional feature.

SOFTWARE AND SECURITY

Application Software

HP Support Assistant ⁶

Manageability Features

Chrome Education Upgrade ^{7,8}

Chrome Enterprise Upgrade

Security Management

Dauntless Security Chip

Security lock slot (Lock sold separately) ⁷

Zero-touch enrollment ⁹

IPv6 Support

Yes

FirstNet Certified

No

Does the BIOS implement the ISO/IEC 19678:2015 (formerly NIST 800-147) guidelines?: Yes ^{10,11}

6. HP Support Assistant is available on ChromeOS. For more information, please visit https://support.hp.com/us-en/document/ish_6020195-5991003-16

7. Sold separately

8. Chrome Education Upgrade requires one-time setup, subscription, Google Admin Console, and your organization's domain. Please see <https://support.google.com/a/answer/60216>.

9. Zero-touch enrollment is sold separately and requires separately purchased HP Get More Service. 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.

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

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



POWER

Power Supply

HP 45W Standard USB Type-C® AC power adapter ¹²

HP 65W Standard USB Type-C® Halogen Free AC power adapter ¹²

Battery

HP Long Life 3 cell, 41Whr Polymer ^{12,13}

Battery Recharge Time

Supports battery HP Fast Charge: approximately 90% in 90 minutes ¹⁴

Power Cord

3-wired plug- 1.0m

Battery Life

Up to 16 hours with 41Wh battery (UMA graphic, MTK 8186, display set to 80 nits, 8G memory, 64GB emmc storage) ¹⁵

Battery Weight

0.38 lb

175g

12. Availability may vary by country.

13. Only available for selected regions and selected configurations.

14. 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.

15. Testing conducted by HP using Google ChromeOS power_LoadTest. Battery life will vary and the maximum capacity of the battery will naturally decrease with time and usage and battery optimization activation. See <http://www.chromium.org/chromium-os/testing/power-testing> for test details. Battery configuration and charge capacity is optimized to improve battery health over time based upon charging patterns and temperature



WEIGHT & DIMENSIONS

Product Weight

Starting at 1.18kg (2.6 lb)¹⁶

Product Dimensions (w x d x h)

293 mm (W) x 199.5 mm (D) x 9.06 mm (front)/ 16.45 mm (rear)

(11.54 in (W) x 7.85 in (D) x 0.36 in (front)/0.65 in (rear))

Maximum height 20.2 mm (0.8 in)¹⁷

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](#).

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

17. 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.



PORTS/SLOTS

- 1 x USB Type-C® 5Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.2) ¹⁸
- 2 x USB Type-A 5Gbps signaling rate (Charges with power on) ¹⁸
- 1 x Headphone/mic combo jack
- 1 x Security lock slot
- 1 x HDMI 1.4 (Select Models) ¹⁹

18. SuperSpeed USB 20Gbps is not available.

19. HDMI cable sold separately.



ENVIRONMENTAL DATA

Eco-Label Certifications & declarations	<p>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:</p> <ul style="list-style-type: none"> • IT ECO declaration • US ENERGY STAR® • US Federal Energy Management Program (FEMP) • EPEAT® Gold registered in the United States. See http://www.epeat.net for registration status in your country. • TCO Certified • China Energy Conservation Program (CECP) • China State Environmental Protection Administration (SEPA) • Taiwan Green Mark • Korea Eco-label • Japan PC Green label* 																						
Sustainable Impact Specifications	<ul style="list-style-type: none"> • Product Carbon Footprint • At least 5% ocean bound plastic in the Speaker enclosures¹ • At least 3.5% post-consumer recycled plastic² • Low Halogen⁴ • 100% of HP paper-based packaging is from recycled or certified sustainable sources⁵ • Bulk packaging available 																						
System Configuration Energy Consumption (in accordance with US ENERGY STAR® test method)	<p>The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a “Typically Configured Notebook”.</p> <table border="1" data-bbox="443 1129 1469 1386"> <thead> <tr> <th></th> <th>115VAC, 60Hz</th> <th>230VAC, 50Hz</th> <th>100VAC, 50Hz</th> </tr> </thead> <tbody> <tr> <td>Normal Operation (Short idle)</td> <td>2.67 W</td> <td>2.74 W</td> <td>2.69 W</td> </tr> <tr> <td>Normal Operation (Long idle)</td> <td>1.05 W</td> <td>1.02 W</td> <td>1.00 W</td> </tr> <tr> <td>Sleep</td> <td>0.29 W</td> <td>0.33 W</td> <td>0.30 W</td> </tr> <tr> <td>Off</td> <td>0.22 W</td> <td>0.25 W</td> <td>0.22 W</td> </tr> </tbody> </table> <p>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.</p>				115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz	Normal Operation (Short idle)	2.67 W	2.74 W	2.69 W	Normal Operation (Long idle)	1.05 W	1.02 W	1.00 W	Sleep	0.29 W	0.33 W	0.30 W	Off	0.22 W	0.25 W	0.22 W
	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz																				
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Sleep	0.29 W	0.33 W	0.30 W																				
Off	0.22 W	0.25 W	0.22 W																				
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz																				
Normal Operation (Short idle)	9 BTU/hr	9 BTU/hr	9 BTU/hr																				
Normal Operation (Long idle)	4 BTU/hr	3 BTU/hr	3 BTU/hr																				
Sleep	1 BTU/hr	1 BTU/hr	1 BTU/hr																				
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr																				



	<p>*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.</p>		
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L_{Wad}, bels)	Sound Pressure (L_{pAm}, decibels)	
Typically Configured – Idle	2.6	17.5	
Fixed Disk – Random writes	2.6	17.5	
Optical Drive – Sequential reads	-	-	
Longevity and Upgrading	<p>This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the</p> <p>Spare parts are available throughout the warranty period and or for up to “5” years after the end of production.</p>		
Additional Information	<ul style="list-style-type: none"> • 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 94.5% recycle-able when properly disposed of at end of life. 		
Packaging Materials	External:	PAPER/Corrugated	245 g
		PAPER/Molded Pulp	72 g
		PAPER/paper	24 g
	The plastic packaging material contains at least 0.00% recycled content.		
	The corrugated paper packaging materials contains at least 100% recycled content.		
RoHS Compliance	<p>HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam.</p> <p>We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products.</p> <p>We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the scope of the commitment to include further restricted substances as regulations continue to evolve.</p>		



	<p>To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.</p>
<p>Material Usage</p>	<p>This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c05998906):</p> <ul style="list-style-type: none"> • 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)

Packaging Usage	<p>HP follows these guidelines to decrease the environmental impact of product packaging:</p> <ul style="list-style-type: none"> • 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	<p>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.</p> <p>The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: 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.</p>
HP, Inc. Corporate Environmental Information	<p>For more information about HP's commitment to the environment:</p> <p>Sustainable Impact Report https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06040843</p> <p>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</p> <p>ISO 14001 certificates: https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c04777932</p>
footnotes	<ul style="list-style-type: none"> • Percentage of ocean-bound plastic contained in each component varies by product. Ocean Bound plastic is expressed as a percentage of the total weight plastic. Ocean Bound plastic is based on the definition set by the UL2809 standard. • Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT standard for computers, IEEE 1680.1-2018 standard. • 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.
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SERVICE AND SUPPORT

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> 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)	USB-C 45W adapter
Nominal Operating Voltage	15V (3A)
Average Operating Power	<45W
Max Operating Power	<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	1.50 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	HP Fortis 11" ChromeBook
ENERGY STAR®	Yes ²¹
EPEAT	EPEAT® Gold in the United States ²¹
FCC/ICES/CISPR/VCCI	Yes
CE MARKING	Yes
GS Mark	Yes, Related commodity should comply with ISO 9241 Standards.
Taiwan BSMI/NCC	Yes
Korea KCC/KC/KES	Yes
Ukraine NSoC/TEC	Yes
EAEU Compliance	Yes
Saudi Arabian Compliance	Yes
TCO	Yes
WW RoHS	Yes

21. Configurations of the HP Fortis Flip G1m 11 inch Chromebook that are ENERGY STAR® qualified are identified as HP Fortis Flip G1m 11 inch Chromebook 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.

91464 - 11.6 in HD (1366x768)	Outline Dimensions (W x H x D)	278.500 x 168.500 x 3.000 (max)
BrightView UWVA LED NTSC 50	Active Area	256.125 x 144.000 mm (typ.)
250 DBTSP eDP 60Hz flat CTK	Weight	200 g (max)
LCD Panel	Diagonal Size	11.6 (inch)
	Surface Treatment	BrightView
	Touch Enabled	Yes
	Contrast Ratio	800:1 (typical)
	Refresh Rate	60Hz
	Brightness	250 nits (typ) ¹
	Pixel Resolution - Format	1366 x 768 (HD)
	Backlight	WLED
	Pixel Resolution	RGB
	Color Gamut Coverage	NTSC 50%
	Color Depth	6 (Hi FRC w/ condition to enable)
	Viewing Angle	UWVA 85/85/85/85
	Low Blue Light	No
	Power Consumption (W, EBL@ 150nits max/ 200nits max)	2.06 (max)/ 1.7 (max)



STORAGE

eMMC 5.x	Form Factor	153 FBGA
	Capacity	32GB/64GB
	NAND Type	TLC
	Height	1.4 mm
	Width	11.5 x 13 mm
	Weight	0.2 g
	Interface	eMMC 5.x
	Maximum Sequential Read	Up to 300 MB/s
	Maximum Sequential Write	Up to 200 MB/s
	Logical Blocks	32GB (31,268,536,320 Bytes)/64GB (62,537,072,640 Bytes)
	Security Features	32° to 158°F (0° to 70°C) [ambient temp]

NETWORKING / COMMUNICATION

<p>Mediatek MT7921 Wi-Fi 6 + BT5.3 Wireless Card (802.11ax 2x2, supporting gigabit data rate)¹</p>	<p>Wireless LAN Standards</p>	<p>IEEE 802.11 a/b/g/n/ac/ax compliant</p> <p>IEEE 802.11 d/e/h/i/j/k/mc/r/v/w support</p> <p>IEEE 802.11a</p> <p>IEEE 802.11b</p> <p>IEEE 802.11g</p> <p>IEEE 802.11n</p> <p>IEEE 802.11ac</p> <p>IEEE 802.11ax</p> <p>IEEE 802.11d</p> <p>IEEE 802.11e</p> <p>IEEE 802.11h</p> <p>IEEE 802.11i</p> <p>IEEE 802.11k</p> <p>IEEE 802.11r</p> <p>IEEE 802.11v</p>
	<p>Interoperability</p> <p>Frequency Band</p>	<p>Wi-Fi certified modules</p> <ul style="list-style-type: none"> • 802.11b/g/n/ax 2.412 – 2.484 GHz • 802.11a/n/ac/ax 4.905 – 5.915 GHz
	<p>Data Rates</p>	<ul style="list-style-type: none"> • 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(40MHz): max 300Mbps • 802.11ac(80MHz): max 866.7Mbps • 802.11ax(80MHz): max 1201Mbps
	<p>Modulation</p>	<p>DSSS, OFDM, DBPSK, DQPSK, CCK, 16 QAM, 64 QAM, 256 QAM, 1024 QAM</p>
	<p>Security²</p>	<ul style="list-style-type: none"> • 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
	<p>Network Architecture Models</p>	<p>Ad-hoc (Peer to Peer)</p> <p>Infrastructure (Access Point Required)</p>
	<p>Roaming</p> <p>Output Power³</p>	<p>IEEE 802.11 compliant roaming between access points</p> <ul style="list-style-type: none"> • 802.11b : +17dBm minimum • 802.11g : +13.5dBm minimum • 802.11a : +13.5dBm minimum



Power Consumption	<ul style="list-style-type: none"> • 802.11n HT20(2.4GHz) : +13.5dBm minimum • 802.11n HT40(2.4GHz) : +12.5dBm minimum • 802.11n HT20(5GHz) : +13.5dBm minimum • 802.11n HT40(5GHz) : +12.5dBm minimum • 802.11ac VHT80(5GHz) : +11.5dBm minimum • 802.11ax HE40(2.4GHz) : +11.5dBm minimum • 802.11ax HE80(5GHz) : +10.5dBm minimum • 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 Receiver Sensitivity⁴	<p>802.11 compliant power saving mode</p> <p>802.11b, 1Mbps : -92dBm maximum</p> <p>802.11b, 11Mbps : -85dBm maximum</p> <p>802.11a/g, 6Mbps : -88dBm maximum</p> <p>802.11a/g, 54Mbps : -74dBm maximum</p> <p>802.11n, MCS0(HT40) : -88dBm maximum</p> <p>802.11n, MCS15(HT40) : -66dBm maximum</p> <p>802.11ac, MCS0(VHT80) : -76dBm maximum</p> <p>802.11ac, MCS9(VHT80) : -59dBm maximum</p> <p>802.11ax, MCS11(HE40): -58.5dBm maximum</p> <p>802.11ax, MCS11(HE80): -55dBm maximum</p>
Antenna type	<p>High efficiency antenna with spatial diversity, mounted in the display enclosure</p> <p>Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications</p>
Form Factor	PCI-Express M.2 MiniCard
Dimensions	Type 2230: 2.3 x 22.0 x 30.0 mm
Weight	Type 2230: 2.8g
Operating Voltage	3.3v +/- 10%
Temperature	<p>Operating: 14° to 158° F (-10° to 70° C)</p> <p>Non-operating: -40° to 176° F (-40° to 80° C)</p>
Humidity	<p>Operating: less than 85% (non-condensing)</p> <p>Non-operating: less than 65% (non-condensing)</p>
Altitude	<p>Operating: 0 to 10,000 ft (3,048 m)</p> <p>Non-operating: 0 to 50,000 ft (15,240 m)</p>
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 Wireless Crad Technology	
Bluetooth Specification	4.0/4.1/4.2/5.0/5.1/5.2/5.3 Compliant
Frequency Band	2402 to 2480 MHz



Number of Available Channels	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)
Data Rates and Throughput	Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps BLE: 1 Mbps data rate; throughput up to 0.2 Mbps Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy : Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)
Transmit Power	The Bluetooth component shall operate as a Class I Bluetooth device with a maximum transmit power of + 10 dBm for BR and +7 dBm for 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).



POWER		
C Adapter 45 Watt nPFC Standard USB type C Straight 1.8m	Dimensions Weight Input Voltage Input Efficiency Input Frequency Range Input AC current Output Power DC Output Hold-up Time Output Over Current Protection AC Connector DC Connector DC Cable Material Operating Temperature Non-operating (storage) Temperature Altitude Humidity Storage Humidity EMI and Safety Certifications	3.701 x 1.693 x 1.071 in (9.4x4.3x2.72cm) 180g(+/-10g) (Not including power cord. Power cord varies by country.) 100-240Vac 81.50% min at 115 Vac/ 230 Vac @5.00V 86.70% min at 115 Vac/ 230 Vac @9.00V 87.40% min at 115 Vac/ 230 Vac @12.00V 87.80% min at 115 Vac/ 230 Vac @15.00V 47-63Hz Max. 1.4 A at 90 Vac 5V/15W 9V/27W 12V/36W 15V/45W 5V/9V/12V/15V 100% load 5ms at 115 Vac input < 5.0A C6 USB type C PVC 32°F to 95°F (0° to 35°C) -4°F to 185°F (-20° to 85°C) 0 to 16,400 ft (0 to 5000m) 20% to 95% 10% to 95% CE Mark - full compliance with LVD and EMC directives Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL62368-1 Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC, USB-IF, Ukraine(CoC+DoC+RoHS+ECO)
65W Standard USB-C Halogen Free Straight AC Power Adapter	Dimensions Weight Input Voltage Input Efficiency	3.543 x 2.008 x 1.122 in (9.0 x 5.1 x 2.85 cm) 220g(+/-10g) (Not including power cord. Power cord varies by country.) 100-240Vac 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 (0.385 lb)
Cells/Type	3cell Lithium-Ion Polymer cell / 515974
Voltage	11.25V
Amp-hour capacity	3.648Ah
Watt-hour capacity	41Wh
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

HDI2S Stereo Codec	Realtek ALC5682I-VS
Audio I/O Ports	Headset connector supports both CTIA and OMTP style headset
Internal Speaker Amplifier	Realtek ALC1019 x 2, up to 3W class-D mono amplifier
Multi-streaming Capable	Follow ChromeOS behavior and definition (NOT SUPPORT in current version)
Sampling	Follow ChromeOS behavior and definition
Wavetable Syntheses	N/A.
Analog Audio	Stereo headphone out by 3.5mm audio jack only.
# of Channels on Line-Out	Line-out is not supported.
Internal Speaker	Yes



OPTIONS

Category	Description	Part Number
Audio	HP USB G2 Stereo Headset	428K6AA,428K6PT#ACJ
	Poly DA75 USB to QD Black Adapter TAA	786C6AA
	Poly DA85 USB to QD Black Adapter TAA	786C7AA
	Poly DA85-M USB to QD Black Adapter TAA	786C8AA
	Poly MDA220 USB-A	8A7E0AA
	Poly MDA524 QD USB-A	8L544AA
	Poly MDA524 USB-C	85Q24AA
	Poly Voyager Free 60 Carbon Black Earbuds +Basic Charge Case	7Y8M2AA
	Poly Voyager Free 60 UC Black Earbuds +BT700 USB-C Adapter +Basic Charge Case	7Y8M0AA
	Poly Voyager Free 60 UC Carbon Black Earbuds +BT700 USB-A Adapter +Basic Charge Case	7Y8H3AA
	Poly Voyager Free 60 UC Carbon Black Earbuds +BT700 USB-C Adapter +Basic Charge Case	7Y8H4AA
	Poly Voyager Free 60 UC M Carbon Black Earbuds +BT700 USB-A Adapter +Basic Charge Case	7Y8L7AA
	Poly Voyager Free 60 UC M Carbon Black Earbuds +BT700 USB-C Adapter +Basic Charge Case	7Y8L8AA
	Poly Voyager Free 60 UC M White Sand Earbuds +BT700 USB-A Adapter +Basic Charge Case	7Y8L5AA
	Poly Voyager Free 60 UC M White Sand Earbuds +BT700 USB-C Adapter +Basic Charge Case	7Y8L6AA
	Poly Voyager Free 60 UC White Sand Earbuds +BT700 USB-A Adapter +Basic Charge Case	7Y8L3AA
	Poly Voyager Free 60 UC White Sand Earbuds +BT700 USB-C Adapter +Basic Charge Case	7Y8L4AA
	Poly Voyager Free 60+ UC Carbon Black Earbuds +BT700 USB-A Adapter +Touchscreen Charge Case	7Y8G3AA
	Poly Voyager Free 60+ UC Carbon Black Earbuds +BT700 USB-C Adapter +Touchscreen Charge Case	7Y8G4AA,7Y8H2AA
	Poly Voyager Free 60+ UC M Carbon Black Earbuds +BT700 USB-A Adapter +Touchscreen Charge Case	7Y8G9AA
	Poly Voyager Free 60+ UC M Carbon Black Earbuds +BT700 USB-C Adapter +Touchscreen Charge Case	7Y8H0AA
	Poly Voyager Free 60+ UC M White Sand Earbuds +BT700 USB-A Adapter +Touchscreen Charge Case	7Y8G7AA
	Poly Voyager Free 60+ UC M White Sand Earbuds +BT700 USB-C Adapter +Touchscreen Charge Case	7Y8G8AA
	Poly Voyager Free 60+ UC White Sand Earbuds +BT700 USB-A Adapter +Touchscreen Charge Case	7Y8G5AA
	Poly Voyager Free 60+ UC White Sand Earbuds +BT700 USB-C Adapter +Touchscreen Charge Case	7Y8G6AA
	Poly Voyager Free 60/60+ Black Earbuds (2 Pieces)	8L649AA,8L5A6AA
	Poly Voyager Free 60/60+ Microsoft Teams Certified Black Earbuds (2 Pieces)	8L5A8AA
	Poly Voyager Free 60/60+ Microsoft Teams Certified White Earbuds (2 Pieces)	8L5B0AA
	Poly Voyager Free 60/60+ White Earbuds (2 Pieces)	8L5B1AA,8L650AA
	Poly Blackwire 3210 Monaural USB-C Headset +USB-C/A Adapter	8X214AA
Poly Blackwire 3215 Monaural USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X227AA	



Poly Blackwire 3220 Stereo USB-C Headset +USB-C/A Adapter	93S87AA,8X228AA
Poly Blackwire 3310 Monaural Microsoft Teams Certified USB-C Headset +USB-C/A Adapter	8X216AA
Poly Blackwire 3310 Monaural USB-C Headset +USB-C/A Adapter	8X215AA
Poly Blackwire 3315 Monaural Microsoft Teams Certified USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X218AA
Poly Blackwire 3315 Monaural USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X217AA
Poly Blackwire 3320 Stereo Microsoft Teams Certified USB-C Headset +USB-C/A Adapter	8X220AA
Poly Blackwire 3320 Stereo USB-C Headset +USB-C/A Adapter	8X219AA
Poly Blackwire 3325 Stereo Microsoft Teams Certified USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X222AA
Poly Blackwire 3325 Stereo USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X221AA
Poly Blackwire 5210 Monaural USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X230AA
Poly Blackwire 5220 Stereo USB-C Headset +3.5mm Plug +USB-C/A Adapter	8X231AA,93S88AA
Poly Blackwire 8225 Stereo Microsoft Teams Certified USB-C Headset +USB-C/A Adapter	8X225AA
Poly Blackwire 8225 Stereo USB-C Headset +USB-C/A Adapter	8X223AA
Poly EncorePro 310 Monaural USB-A Headset TAA	767G1AA
Poly EncorePro 310 Monoaural with Quick Disconnect Headset TAA	77T43AA
Poly EncorePro 310 USB-C Monoaural Headset TAA	760Q8AA
Poly EncorePro 320 Stereo USB-A Headset TAA	767G0AA
Poly EncorePro 320 Stereo USB-C Headset TAA	767F9AA
Poly EncorePro 320 with Quick Disconnect Binaural Headset TAA	77T26AA
Poly EncorePro 510 Monaural Headset +Quick Disconnect	783Q2AA
Poly EncorePro 515 Microsoft Teams Certified Monoaural with USB-A Headset	783R1AA
Poly EncorePro 515 Monoaural with USB-A Headset	783R0AA
Poly EncorePro 520 Binaural Headset +Quick Disconnect	783P7AA
Poly EncorePro 525 Microsoft Teams Certified Stereo with USB-A Headset	783R2AA
Poly EncorePro 525 USB-A Stereo Headset	783R3AA
Poly EncorePro 530 Headset +Quick Disconnect	783P3AA
Poly EncorePro 540 Convertible Headset +Quick Disconnect	783P1AA
Poly EncorePro 715 USB-A Monoaural Headset TAA	783N5AA
Poly EncorePro 720 Binaural Headset +Quick Disconnect	8R707AA
Poly EncorePro 725 USB-A Stereo Headset TAA	783M6AA
Poly EncorePro HW710 Single Ear Headset +Carry Case +Quick Disconnect	8R708AA
Poly Savi 7210 Office DECT 1880-1900 MHz Single Ear Headset (EMEA + APJ)	8D3G9AA
Poly Savi 7210 Office DECT 1920-1930 MHz Single Ear Headset (NA)	7W6D4AA
Poly Savi 7220 Office Binaural DECT 1880-1900 MHz Headset (EMEA + APJ)	8D3G8AA
Poly Savi 7220 Office Binaural DECT 1920-1930 MHz Headset (NA)	7W6D5AA
Poly Savi 7310 Office DECT 1880-1900 MHz Single Ear Headset (EMEA + APJ)	8D3G3AA
Poly Savi 7310 Office DECT 1910-1920 MHz Single Ear Headset (NA)	8D3G5AA
Poly Savi 7310 Office Monoaural DECT 1920-1930 MHz Headset (NA)	7S430AA
Poly Savi 7310 UC Monoaural DECT 1880-1900 MHz Headset (EMEA + APJ)	8L561AA
Poly Savi 7310 UC Monoaural DECT 1893-1906 MHz Headset (Japan)	8L565AA
Poly Savi 7310 UC Monoaural DECT 1910-1920 MHz Headset (NA)	8L566AA



Poly Savi 7310 UC Monaural DECT 1920-1930 MHz Headset (NA)	8L570AA
Poly Savi 7310 UC Monaural Microsoft Teams Certified DECT 1880-1900 MHz Headset (EMEA + APJ)	8L575AA
Poly Savi 7310 UC Monaural Microsoft Teams Certified DECT 1893-1906 MHz Headset (Japan)	8L578AA
Poly Savi 7310 UC Monaural Microsoft Teams Certified DECT 1910-1920 MHz Headset (NA)	8L581AA
Poly Savi 7310 UC Monaural Microsoft Teams Certified DECT 1920-1930 MHz Headset (NA)	8L585AA
Poly Savi 7310-M Office DECT 1880-1900 MHz Single Ear Headset (EMEA + APJ)	8D3K7AA
Poly Savi 7310-M Office DECT 1893-1906 MHz Single Ear Headset (Japan)	8D3K9AA
Poly Savi 7310-M Office DECT 1910-1920 MHz Single Ear Headset (NA)	8D3L0AA
Poly Savi 7310-M Office DECT 1920-1930 MHz Single Ear Headset (NA)	7S439AA
Poly Savi 7320 Office Stereo DECT 1880-1900 MHz Headset (EMEA + APJ)	8D3F7AA
Poly Savi 7320 Office Stereo DECT 1893-1906 MHz Headset (Japan)	8D3F8AA
Poly Savi 7320 Office Stereo DECT 1910-1920 MHz Headset (NA)	8D3G0AA
Poly Savi 7320 Office Stereo DECT 1920-1930 MHz Headset (NA)	7S429AA
Poly Savi 7320 UC Stereo DECT 1880-1900 MHz Headset (EMEA + APJ)	8L545AA
Poly Savi 7320 UC Stereo DECT 1893-1906 MHz Headset (Japan)	8L546AA
Poly Savi 7320 UC Stereo DECT 1910-1920 MHz Headset (NA)	8L548AA
Poly Savi 7320 UC Stereo DECT 1920-1930 MHz Headset (NA)	8L549AA
Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1880-1900 MHz Headset (EMEA + APJ)	8L553AA
Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1893-1906 MHz Headset (Japan)	8L555AA
Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1910-1920 MHz Headset (NA)	8L557AA
Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1920-1930 MHz Headset (NA)	8L559AA
Poly Savi 7320-M Office Stereo DECT 1880-1900 MHz Headset (EMEA + APJ)	8D3J6AA
Poly Savi 7320-M Office Stereo DECT 1893-1906 MHz Headset (Japan)	8D3K2AA
Poly Savi 7320-M Office Stereo DECT 1910-1920 MHz Headset (NA)	8D3K0AA
Poly Savi 7320-M Office Stereo DECT 1920-1930 MHz Headset (NA)	7S435AA
Poly Savi 7410 Office Monaural DECT 1880-1900 MHz Headset (EMEA + APJ)	8L589AA
Poly Savi 7410 Office Monaural DECT 1893-1906 MHz Headset (Japan)	8L591AA
Poly Savi 7410 Office Monaural DECT 1910-1920 MHz Headset (NA)	8L592AA
Poly Savi 7410 Office Monaural DECT 1920-1930 MHz Headset (NA)	8L7D5AA
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT 1880-1900 MHz Headset (EMEA + APJ)	8L593AA
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT 1893-1906 MHz Headset (Japan)	8L594AA
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT 1910-1920 MHz Headset (NA)	8L597AA
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT 1920-1930 MHz Headset (NA)	8L7D7AA
Poly Savi 7420 Office Stereo DECT 1880-1900 MHz Headset (EMEA + APJ)	8L560AA
Poly Savi 7420 Office Stereo DECT 1893-1906 MHz Headset (Japan)	8L563AA
Poly Savi 7420 Office Stereo DECT 1910-1920 MHz Headset (NA)	8L564AA
Poly Savi 7420 Office Stereo DECT 1920-1930 MHz Headset (NA)	8L567AA



Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1880-1900 MHz Headset (EMEA + APJ)	8L574AA
Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1893-1906 MHz Headset (Japan)	8L576AA
Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1910-1920 MHz Headset (NA)	8L579AA
Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1920-1930 MHz Headset (NA)	8L583AA
Poly Savi 8210 Office DECT 1880-1890 MHz Single Ear Headset (EMEA + APJ)	8D3K3AA
Poly Savi 8210 Office DECT 1880-1900 MHz Single Ear Headset (EMEA + APJ)	8D3K5AA
Poly Savi 8210 Office DECT 1910-1920 MHz Single Ear Headset (NA)	8D3K6AA
Poly Savi 8210 Office DECT 1920-1930 MHz Single Ear Headset TAA (NA)	7S445AA
Poly Savi 8210 UC DECT 1880-1900 MHz USB-A Headset (EMEA + APJ)	8D3E9AA
Poly Savi 8210 UC DECT 1920-1930 MHz USB-A Headset (NA)	77T29AA
Poly Savi 8210 UC Microsoft Teams Certified DECT 1880-1900 MHz USB-A Headset (EMEA + APJ)	8D3F1AA
Poly Savi 8210 UC Microsoft Teams Certified DECT 1920-1930 MHz USB-A Headset (NA)	77T31AA
Poly Savi 8210-M Office DECT 1880-1900 MHz Single Ear Headset (EMEA + APJ)	8D3J8AA
Poly Savi 8210-M Office DECT 1910-1920 MHz Single Ear Headset (NA)	8D3K1AA
Poly Savi 8210-M Office DECT 1920-1930 MHz Single Ear Headset TAA (NA)	7S447AA
Poly Savi 8220 Office Stereo DECT 1880-1890 MHz Headset (EMEA + APJ)	8D3J1AA
Poly Savi 8220 Office Stereo DECT 1880-1900 MHz Headset (EMEA + APJ)	8D3J2AA
Poly Savi 8220 Office Stereo DECT 1910-1920 MHz Headset (NA)	8D3J4AA
Poly Savi 8220 Office Stereo DECT 1920-1930 MHz Headset TAA (NA)	7S4B5AA
Poly Savi 8220 Stereo DECT 1880-1900 MHz Top +Charging Cradle (EMEA + APJ)	8Y9C4AA
Poly Savi 8220 UC DECT 1880-1900 MHz USB-A Headset (EMEA + APJ)	8D3F2AA
Poly Savi 8220 UC DECT 1920-1930 MHz USB-A Headset (NA)	77T33AA
Poly Savi 8220 UC Microsoft Teams Certified DECT 1880-1900 MHz USB-A Headset (EMEA + APJ)	8D3F5AA
Poly Savi 8220 UC Microsoft Teams Certified DECT 1920-1930 MHz USB-A Headset (NA)	77Y82AA
Poly Savi 8220-M Office Stereo DECT 1880-1900 MHz Headset (EMEA + APJ)	8D3H8AA
Poly Savi 8220-M Office Stereo DECT 1910-1920 MHz Headset (NA)	8D3J0AA
Poly Savi 8220-M Office Stereo DECT 1920-1930 MHz Headset TAA (NA)	7S4B6AA
Poly Savi 8245 DECT 1880-1900 MHz Headset +USB-A to USB-C Cable +D400 (EMEA + APJ)	8D3H2AA
Poly Savi 8245 Office DECT 1880-1900 MHz USB-A Headset (EMEA + APJ)	8D3H1AA
Poly Savi 8245 Office DECT 1910-1920 MHz USB-A Headset (NA)	8Q005AA
Poly Savi 8245 Office DECT 1920-1930 MHz USB-A Headset TAA (NA)	7W6D1AA
Poly Savi 8245-M Microsoft Teams Certified DECT 1880-1900 MHz USB-A Headset +D200 (EMEA + APJ)	8D3F4AA
Poly Savi 8245-M Office Microsoft Teams Certified DECT 1880-1900 MHz USB-A Headset (EMEA + APJ)	8D3H7AA
Poly Savi 8245-M Office Microsoft Teams Certified DECT 1910-1920 MHz USB-A Headset (NA)	8Q006AA
Poly Savi 8245-M Office Microsoft Teams Certified DECT 1920-1930 MHz USB-A Headset TAA (NA)	7W069AA
Poly Savi 8410 Office Monaural DECT 1880-1900 MHz Headset (EMEA + APJ)	8L5A7AA



Poly Savi 8410 Office Monaural DECT 1920-1930 MHz Headset (NA)	8L7E6AA
Poly Savi 8410 Office Monaural Microsoft Teams Certified DECT 1880-1900 MHz Headset (EMEA + APJ)	8L5A9AA
Poly Savi 8410 Office Monaural Microsoft Teams Certified DECT 1920-1930 MHz Headset (NA)	8L7E9AA
Poly Savi 8420 Office Stereo DECT 1880-1900 MHz Headset (EMEA + APJ)	8L5B2AA
Poly Savi 8420 Office Stereo DECT 1920-1930 MHz Headset (NA)	8L7F2AA
Poly Savi 8420 Office Stereo Microsoft Teams Certified DECT 1880-1900 MHz Headset (EMEA + APJ)	8L5B3AA
Poly Savi 8420 Office Stereo Microsoft Teams Certified DECT 1920-1930 MHz Headset (NA)	8L7F5AA
Poly Savi 8445 Office DECT 1880-1900 MHz Convertible Headset (EMEA + APJ)	8L5B4AA
Poly Savi 8445 Office DECT 1910-1920 MHz Convertible Headset (NA)	8L5B5AA
Poly Savi 8445 Office DECT 1920-1930 MHz Convertible Headset (NA)	8L7F8AA
Poly Savi 8445 Office Microsoft Teams Certified DECT 1880-1890 MHz Convertible Headset (EMEA + APJ)	8L5B7AA
Poly Savi 8445 Office Microsoft Teams Certified DECT 1880-1900 MHz Convertible Headset (EMEA + APJ)	8L5B6AA
Poly Savi 8445 Office Microsoft Teams Certified DECT 1910-1920 MHz Convertible Headset (NA)	8L5B8AA
Poly Savi 8445 Office Microsoft Teams Certified DECT 1920-1930 MHz Convertible Headset (NA)	8L7F1AA
Poly Voyager 4310 Microsoft Teams Certified Headset +BT700 dongle +Charging Stand	77Y93AA
Poly Voyager 4310 Microsoft Teams Certified USB-A Headset +BT700 dongle	77Y91AA
Poly Voyager 4310 Microsoft Teams Certified USB-C Headset +BT700 dongle	77Y95AA
Poly Voyager 4310 UC Monaural Headset +BT700 USB-A Adapter +Charging Stand	77Y92AA
Poly Voyager 4310 USB-A Headset +BT700 dongle	76U48AA
Poly Voyager 4310 USB-C Headset +BT700 dongle +Charging Stand	77Y96AA
Poly Voyager 4310 USB-C Headset +BT700 dongle	77Y94AA
Poly Voyager 4310-M Microsoft Teams Certified USB-C Headset +BT700 dongle +Charging Stand	77Y97AA
Poly Voyager 4310-M UC Headset +USB-A to USB-C Cable +BT700 dongle	7Y210AA
Poly Voyager 4320 Microsoft Teams Certified Headset +BT700 dongle +Charging Stand	77Z00AA
Poly Voyager 4320 Microsoft Teams Certified USB-A Headset +BT700 dongle	77Y98AA
Poly Voyager 4320 Microsoft Teams Certified USB-C Headset +BT700 dongle	77Z30AA
Poly Voyager 4320 UC Stereo USB-A Headset +BT700 USB-A Adapter +Charging Stand	77Y99AA
Poly Voyager 4320 USB-A Headset +BT700 dongle	76U49AA
Poly Voyager 4320 USB-C Headset +BT700 dongle +Charging Stand	77Z31AA
Poly Voyager 4320 USB-C Headset +BT700 dongle	76U50AA
Poly Voyager 4320-M +USB-A to USB-C Cable +BT700 dongle	7Y211AA
Poly Voyager 4320-M Microsoft Teams Certified Headset +BT700 dongle +Charging Stand	77Z32AA
Poly Voyager Focus 2 Microsoft Teams Certified USB-C-C Headset +USB-C/A Adapter +Charging Stand	9T9J6AA
Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter	9T9J3AA
Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter +Charging Stand	9T9J5AA



	Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Black Headset +USB-C/A Adapter	9D452AA
	Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter	8H2G3AA 8G7U0AA
	Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Demo	9C6W5AA
	Poly Voyager Surround 80 UC USB-C Headset +USB-C/A Adapter	8G7T9AA
	Poly Voyager Surround 85 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter +Charging Stand	8G7T8AA
	Poly Voyager Surround 85 UC USB-C Headset +USB-C/A Adapter +Charging Stand	8G7T7AA
	Poly Sync 10 Microsoft Teams Certified Speakerphone	77P34AA
	Poly Sync 10 Speakerphone +USB-A to USB-C Cable	7S4M6AA
	Poly Sync 10 USB-A USB-C Speakerphone	772C3AA
	Poly Sync 20 Microsoft Teams Certified USB-A Speakerphone	772C8AA
	Poly Sync 20 USB-A Speakerphone	772D2AA
	Poly Sync 20 USB-C Speakerphone	7F0J7AA
	Poly Sync 20+ Microsoft Teams Certified USB-A Speakerphone	772C9AA
	Poly Sync 20+ Microsoft Teams Certified USB-C Speakerphone	772D1AA
	Poly Sync 20+ USB-A Speakerphone	772C6AA
	Poly Sync 20+ USB-C Speakerphone	772D0AA
	Poly Sync 20+M Speakerphone +USB-A to USB-C Cable +BT700 dongle +Pouch	7Y215AA
	Poly Sync 20-M Microsoft Teams Certified USB-C Speakerphone	7F0J8AA
	Poly Sync 20-M Speakerphone +USB-A to USB-C Cable	7S4M1AA
	Poly Sync 40 Microsoft Teams Certified Speakerphone	77P35AA
	Poly Sync 40 USB-A USB-C Speakerphone	772C4AA
	Poly Sync 40+ Microsoft Teams Certified USB-A USB-C Speakerphone +BT700 USB-A Adapter	77P36AA
	Poly Sync 40+ USB-A USB-C Speakerphone +BT700 USB-A Adapter	772C5AA
	Poly Sync 60 Microsoft Teams Certified Speakerphone	77P41AA
	Poly Sync 60 Speakerphone	772C2AA
Video	HP 325 FHD USB-A Webcam	53X27AA
Docking	HP USB-C G5 Dock	5TW10AA
	HP USB-C/A G2 Universal Dock	5TW13AA
Cases	HP Prelude Pro Recycled 15.6 Backpack	1X644AA
	HP Prelude Pro Recycled 15.6 Top Load	1X645AA
	HP Prelude G2 15.6 Top Load	1E7D7AA,50P31AA
		1E7D6AA,1E7D6UT,50P32AA
	HP Prelude G2 15.6 Backpack	32AA
	HP Renew Business 17.3 Laptop Backpack	3E2U5AA,3E2U5UT
	HP Renew Business 17.3 Laptop Bag	3E2U6AA
		3E5F8AA,3E5F8ET,3E5F8UT
	HP Renew Business 15.6 Laptop Bag	F8UT



	HP Renew Business 14.1 Laptop Bag	3E5F9AA,3E5F9ET, 3E5F9UT
	HP Renew Business 14.1 Laptop Sleeve	3E2U7AA
	HP Renew Executive 16 Laptop Backpack	6B8Y1AA,6B8Y1UT
	HP Renew Executive 16 Laptop Bag	6B8Y2AA
	HP Renew Executive 14.1 Laptop Sleeve	6B8Y3AA
	HP Travel 25L 15.6 Iron Gray Laptop Backpack	6H2D8AA
	HP Travel 18L 15.6 Iron Gray Laptop Backpack	6H2D9AA
		35L98AA#ACJ, 35L98UT#ACJ
	HP 215 15.6 Laptop Backpack	35L97AA#ACJ
	HP 315 15.6 Laptop Backpack	35M00AA#ACJ
	HP 235 15.6 Laptop Backpack	2P7U6AA#ACJ, 2P7U6UT#ACJ
	HP 225 15.6 Laptop Backpack	8DV45AA#ACJ
	HP 115 15.6 Laptop Backpack	7K0E2AA
	HP Campus XL Marble Stone Backpack	7K0E3AA
	HP Campus XL Tie Dye Backpack	7K0E4AA
	HP Campus Green Backpack	7K0E5AA
	HP Campus Blue Backpack	9C2H1AA
	HP 14 Convertible Laptop Backpack Tote	9C2H2AA
	HP Convertible Laptop Stand	A08KGAA
	HP Everyday 14 Odyssey Gray Laptop Briefcase	A08KHUT
	HP Everyday 16 Odyssey Gray Laptop Briefcase	A08KJAA
	HP Everyday 14 Odyssey Gray Laptop Bag	A08KKAA
	HP Everyday 16 Odyssey Gray Laptop Bag	A08KLUT
	HP Everyday 16 Odyssey Gray Laptop Backpack	A2CE0AA
	HP Travel Plus 30L 17 Laptop Backpack	A2CE1AA
	HP Travel Plus 22L 16 Laptop Bag	A2CE2AA
	HP Travel Plus 15L 14 Laptop Bag	
Hub	HP USB-C to USB-A Hub	Z6A00AA
		50H55AA,50H55PT#ACJ, 50H55UT
	HP Universal USB-C Multiport Hub	6G842AA,6G843UT
	HP 4K USB-C Multiport Hub	86S97AA,86S97UT
	HP USB-C Travel Hub G3	9H0H9AA
	HP Universal USB-C Hub and Laptop Charger Combo	
Adapter	HP HDMI to VGA Adapter	H4F02AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to VGA Adapter Scrappy	N9K76AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to RJ45 Adapter G2	4Z527AA
	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z7Z7AA
	HP USB-C to DisplayPort Adapter G2	8Y8Y1AA



Keyboard/Combo	HP 225 Wired Mouse and Keyboard Combo	286J4AA
	HP 225 Wired Mouse and Keyboard Combo Cashmere White	86J24AA
	HP 685 Comfort Dual-Mode Keyboard and Mouse Combo	8T6L7UT
	HP 725 Multi-Device Rechargeable Wireless Keyboard and Mouse Combo	9T5B0UT
	HP 320K Wired Keyboard	9S37AA
	HP 325 Chrome BT Keyboard	45U14AA
	HP 355 Compact Multi-Device BT Keyboard	692S9AA
	HP 475 Dual-Mode Keyboard	7N7B9AA,7N7B9UT
	HP 405 Multi-Device Wired Backlit Keyboard	7N7C1AA,7N7C1UT
	HP 685 Comfort Dual-Mode Keyboard	8T6L9UT
	HP 485 Comfort Wired Keyboard	8T6M2AA
	HP 725 Multi-Device Rechargeable Keyboard	9T5B2AA
Mouse	HP 320M USB-A Wired Mouse	9VA80AA
	HP 128 USB Laser Wired Mouse	265D9AA
		265A9AA,265A9AT,265A9UT
	HP 125 USB-A Wired Mouse	9UT
	HP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse	3B4Q5AA,3B4Q5UT
	HP 425 Programmable Bluetooth Wireless Mouse	7M1D5AA
	HP 245 Bluetooth 5.0 Bluetooth Mouse Black	81S67AA,81S67UT
	HP 685 Comfort Dual-Mode Mouse	8T6M0UT
	HP 105 Sanitizable Mouse Pad	8X595AA
	HP 205 Sanitizable Desk Mat	8X597AA
HP 515 Ultra-Fast Rechargeable Wireless Mouse	9C2F7AA	
Power	HP 45W USB-C LC AC Power Adapter	1M201AA
	HP 65W USB-C LC AC Power Adapter	1P3K6AA
	HP 65W USB-C Laptop Charger	671R3AA,671R3UT
Commodity	HP Nano Keyed Cable Lock	1AJ39AA
	HP Nano Master Keyed Cable Lock	1AJ40AA
	HP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA
	HP Combination Nano Cable Lock	63B28AA
	HP Essential Combination Nano Cable Lock	63B31AA
	HP USB DVD-Writer EXT ODD	F2B56AA
Digital Pen	HP USI Garaged Pen	4R0Q5AA
	HP 705 RECHBL Multi Pen	93Z28AA



CHANGELOG

Date of change	Version History		Description of change
January 24, 2025	V1 to V2	Updated	Battery Life Section
February 7, 2025	V2 to V3	Added	Battery Life Section
February 10, 2025	V3 to V4	Updated	Display Section
February 14, 2025	V4 to V5	Updated	Display Section Weights Section
June 25, 2025	V5 to V6	Updated	Operating Section
July 16, 2025	V6 to V7	Updated	Software And Security

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