

### Overview

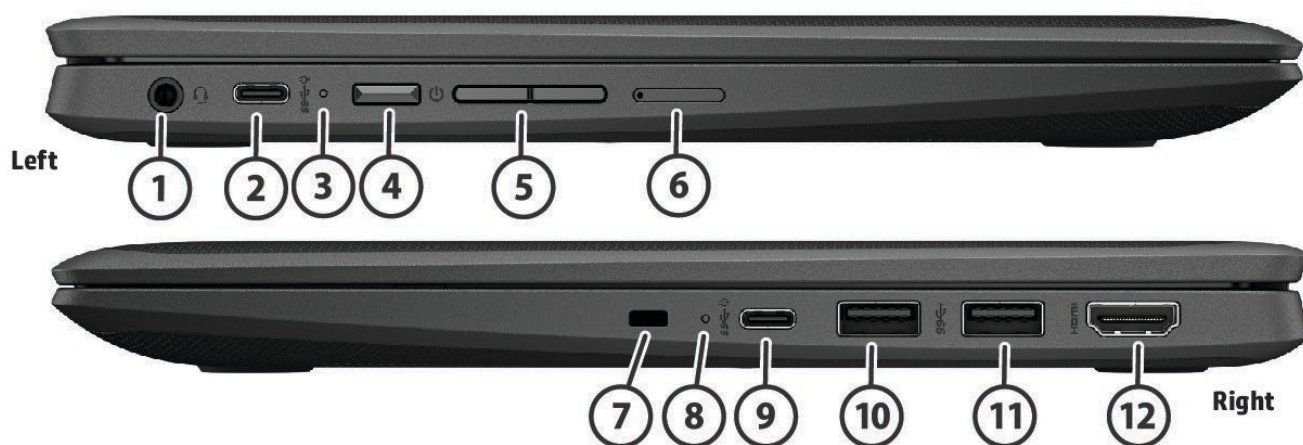
### HP Fortis Flip G1i 11 inch Chromebook



**Front**

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

### Overview



#### Sides

- |                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. Headphone/mic combo jack</li> <li>2. USB Type-C® 5Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.2)</li> <li>3. Power Light</li> <li>4. Power Button</li> <li>5. Volume Buttons</li> <li>6. SIM Card Tray (optional and only available with the LTE Module)</li> </ol> | <ol style="list-style-type: none"> <li>7. Security lock slot (Lock sold separately)</li> <li>8. Power Light</li> <li>9. USB Type-C® 5Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.2)</li> <li>10. USB Type-A 5Gbps signaling rate (Powered)</li> <li>11. USB Type-A 5Gbps signaling rate (Powered)</li> <li>12. HDMI 1.4</li> </ol> |
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## Technical Specifications

### PRODUCT NAME

HP Fortis Flip G1i 11 inch Chromebook

### OPERATING SYSTEMS

**Preinstalled** Chrome OS

### PROCESSORS

Processor <sup>1,2</sup>	Cores	Number of E-cores	Threads	L3 Cache	Max Turbo Frequency	Base Frequency
					E-cores	E-cores
Intel® N250	4	4	4	6 MB	3.8 GHz	1.3 GHz
Intel® N150	4	4	4	6 MB	3.6 GHz	0.8 GHz

#### Processor Family

Intel® Processor N-series

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.

### CHIPSET

Chipset is integrated with processor

### GRAPHICS

#### Integrated

Intel® UHD Graphics<sup>3</sup>

#### Supports

Support HD decode, DX12, HDMI

3. HD content required to view HD images.

### Technical Specifications

#### DISPLAY

**Touch**

29.46cm (11.6") diagonal, HD (1366 x 768), LCD, Touch, UWVA, BrightView, Corning® Gorilla® Glass 3, WLED, 250 nits, NTSC 50% (USI Pen supported) <sup>3,4,5,6</sup>

**Pen**

HP USI Garaged Pen (optional)

**Displays support**

Support extended displays through HP docks

**Display Size (Diagonal)**

11.6"

29.46cm

3. HD content required to view HD images.

4. Sold separately or as an optional feature.

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

6. Actual brightness will be lower with touchscreen or HP Sure View

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#### STORAGE AND DRIVES

**Primary Storage**

64GB eMMC 5.0 <sup>7</sup>

32GB eMMC 5.0 <sup>7</sup>

128GB UFS <sup>7</sup>

7. For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 18.0GB is not user accessible

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### Technical Specifications

#### MEMORY

**Maximum Memory**

16 GB LPDDR5X -7500 MT/s

**Memory**

16 GB LPDDR5X -7500 MT/s

8 GB LPDDR5X -7500 MT/s

4 GB LPDDR5 -6400 MT/s

**Memory Slots**

No memory slots

Memory soldered on board

The memory is non-accessible / non-upgradeable

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#### NETWORKING/COMMUNICATIONS

**WLAN**

Intel® AX211 (2x2) Wi-Fi 6E Bluetooth® 5.3 wireless card, non-vPro®<sup>8</sup>

MediaTek MT7921 (2x2) Wi-Fi 6 Bluetooth® 5.3 wireless card®<sup>9</sup>

MU-MIMO supported

HP Extended Range WLAN supported

**WWAN**

Qualcomm® Snapdragon™ X12 LTE-Advanced CAT 6<sup>10</sup>

**Chromecast**

Chromecast Support<sup>11</sup>

8. 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.

9. 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.

10. 4G LTE module is optional, must be configured at the factory, requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.

11. Chromecast must be purchased separately.

### Technical Specifications

#### AUDIO/MULTIMEDIA

##### Audio

Waves MaxxAudio®  
Dual speakers  
Dual array microphones

##### Speaker Power

2W/4ohm Per speaker

##### Camera

720p HD camera <sup>12</sup>  
HP Privacy Camera  
8 MP Rear Camera with SingleMic (World Facing secondary camera) (Optional)

##### Sensors

Accelerometer + Gyroscope

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

#### KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS











##### Keyboard

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

##### 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

### Technical Specifications

#### SOFTWARE AND SECURITY

##### Software

HP Support Assistant

##### Manageability Features

Chrome Education Upgrade <sup>13,14</sup>

Chrome Enterprise Upgrade

##### Security Management

Titan H1 Security Chip

Security lock slot (Lock sold separately) <sup>13</sup>

Zero-touch enrollment <sup>15</sup>

##### IPv6 Support

Yes

**Does the BIOS on this Chromebook follow ISO/IEC 19678:2015 guidelines (formerly NIST 800-147)?:** Yes

13. Sold separately

14. 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>.

15. 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

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### Technical Specifications

#### POWER

##### Power Supply

HP 65W Standard USB Type-C® Halogen Free AC power adapter <sup>16</sup>

HP 45W Standard USB Type-C® AC power adapter <sup>16</sup>

##### Battery

HP Long Life 2-cell, 47 Whr Li-ion polymer <sup>17,18</sup>

HP Fast Charge Technology (90% in 90 minutes) <sup>19</sup>

##### Power Cord

3-wire plug - 1 m <sup>16</sup>

##### Battery Life

Up to 10 hours 34 minutes with 47 Wh battery (HP Long Life 2-Cell, 47 Whr Polymer, UMA graphic, Intel N150, display set to 80 nits, 4G memory, 32 GB eMMC) <sup>20</sup>

##### Battery Weight

0.48 lb

220 g

16. Availability may vary by country.

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

18. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.

19. Recharges up to 90% within 90 minutes when the system is off or in standby mode when used with the power adapter provided with the notebook. After charging has reached 90% capacity, charging speed will return to normal. Charging time may vary +/-10% due to System tolerance.

20. Testing conducted by HP using Google Chrome OS 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.

## Technical Specifications

### WEIGHTS & DIMENSIONS

**Product Weight**

Starting at 3.22 lb <sup>21</sup>

Starting at 1.46 kg <sup>21</sup>

**Product Dimensions (W x D x H)**

295 x 204.4 x 20.95 3 mm

11.61 x 8.03 x 0.78 in

**Pallet Dimensions (W x D x H) <sup>22</sup>**

11" boxes (260 mm height): 1200mm x 1000mm x 1200mm

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

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

### PORTS/SLOTS

2 x USB Type-C® 5Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.2)

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

1 x Headphone/mic combo jack

1 x Security lock slot

1 x HDMI 1.4 <sup>23</sup>

23. HDMI cable sold separately.

### SERVICE AND SUPPORT

HP Services offers 1-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year limited warranty as 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>. <sup>24</sup>

24. 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.

## Technical Specifications

**SYSTEM UNIT**

<b>Stand-Alone Power Requirements (AC Power)</b>	USB-C 45W adapter
Nominal Operating Voltage	15V
Average Operating Power	<4.3w with PLT test
Integrated graphics	Intel® UHD Graphics
Discrete Graphics	N/A
Max Operating Power	< 45W
<b>Temperature</b>	
Operating	41° to 95° F (5° to 35° C)
Non-operating	-4° to 140° F (-20° to 60° C)
<b>Relative Humidity</b>	
Operating	10% to 90%
Non-operating	5% to 95%
<b>Shock</b>	
Operating	40 G, 2 ms, half-sine
Non-operating	240 G, 2 ms, half-sine
<b>Random Vibration</b>	
Operating	1.043 grams
Non-operating	3.5 grams
<b>Altitude (unpressurized)</b>	
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)
<b>Planned Industry Standard Certifications</b>	
Regulatory Model Number	TPN-Q296
CSA/UL 62368-1	Yes
ENERGY STAR®	Yes <sup>25</sup>
EPEAT®	EPEAT® Gold in the United States <sup>26</sup>
FCC/ICES/CISPR/VCCI	Yes
CE MARKING	Yes
GS Mark	No
	Related commodity should comply with ISO 9241 Standards.
China CCC/SRRC	No
Taiwan BSMI/NCC	Yes
Korea KCC/KC/KES	Yes
Ukraine NSoC/TEC	No
EAEU Compliance	Yes
Saudi Arabian Compliance	No
TCO	Yes
WW RoHS	Yes
Low Blue Light	No

25. Configurations of the HP Fortis Flip G1i 11 inch Chromebook that are ENERGY STAR® qualified are identified as HP Fortis Flip G1i 11 inch Chromebook ENERGY STAR on HP websites and on <http://www.energystar.gov>.

### Technical Specifications

26. 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 or HP Sure View.

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

<b>11.6" diagonal HD anti-glare flat LED backlit (1366 x 768)</b>	<b>Outline Dimensions (W x H x D)</b>	284.840 x 188.860 mm (max)
	<b>Active Area</b>	257.440 x 145.300 mm (typ.)
	<b>Weight</b>	320 g (max)
	<b>Diagonal Size</b>	11.6 (inch)
	<b>Surface Treatment</b>	Anti-Glare
	<b>Touch Enabled</b>	Yes <sup>1</sup>
	<b>Contrast Ratio</b>	600:1 (typical)
	<b>Refresh Rate</b>	60Hz
	<b>Brightness</b>	250 nits <sup>1</sup>
	<b>Pixel Resolution - Format</b>	1366x768 (HD)
	<b>Backlight</b>	WLED
	<b>Pixel Resolution</b>	RGB
	<b>Color Gamut Coverage</b>	NTSC 50%
	<b>Color Depth</b>	6 (Hi FRC w/ condition to enable)
	<b>Viewing Angle</b>	UWVA 85/85/85/85
<b>Low Blue Light</b>	No	
<b>Power Consumption (W, EBL@ 150nits max/ 200nits max)</b>	EBL@60nits/150nits : 1.3 (max)/ 1.94 (max)	

### Technical Specifications

#### STORAGE AND DRIVES

For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 18.0GB is not user accessible.

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

<b>128GB UFS</b>	<b>Form Factor</b>	UFS 3.1
	<b>Capacity</b>	128GB
	<b>NAND Type</b>	TLC
	<b>Interface</b>	SCSI
	<b>Maximum Sequential Read</b>	1000MB/s (ADL-N support UFS 2.1 only)
	<b>Maximum Sequential Write</b>	200MB/s
	<b>Logical Blocks</b>	128GB (127,984,992,256 Bytes)
	<b>Features</b>	HS400

### Technical Specifications

#### NETWORKING/COMMUNICATIONS

<b>Intel® AX211 Wi-Fi 6E and Bluetooth® 5.3 wireless card M.2 160MHz CNVi World-wide WLAN non-vPro®<sup>1</sup></b>	<ul style="list-style-type: none"> <li>IEEE 802.11a</li> <li>IEEE 802.11b</li> <li>IEEE 802.11g</li> <li>IEEE 802.11n</li> <li>IEEE 802.11ac</li> <li>IEEE 802.11ax</li> <li>IEEE 802.11d</li> <li>IEEE 802.11e</li> <li>IEEE 802.11h</li> <li>IEEE 802.11i</li> <li>IEEE 802.11k</li> <li>IEEE 802.11r</li> <li>IEEE 802.11v</li> </ul>
<b>Interoperability</b>	Wi-Fi certified
<b>Frequency Band</b>	<ul style="list-style-type: none"> <li>•802.11b/g/n/ax 2.402 – 2.482 GHz</li> <li>•802.11a/n/ac/ax 4.9 – 4.95 GHz (Japan)</li> <li>5.15 – 5.25 GHz</li> <li>5.25 – 5.35 GHz</li> <li>5.47 – 5.725 GHz</li> <li>5.825 – 5.850 GHz</li> <li>5.955 – 6.415 GHz</li> <li>6.435 – 6.515 GHz</li> <li>6.535 – 6.875 GHz</li> <li>6.895 – 7.115 GHz</li> </ul>
<b>Data Rates</b>	<ul style="list-style-type: none"> <li>• 802.11b: 1, 2, 5.5, 11 Mbps</li> <li>• 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>• 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>• 802.11n: max 300Mbps</li> <li>• 802.11ac : 1733Mbps</li> <li>• 802.11ax : max 2.4Gbps</li> </ul>
<b>Modulation</b>	Direct Sequence Spread Spectrum
<b>Security<sup>2</sup></b>	<p>OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM</p> <ul style="list-style-type: none"> <li>• IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only</li> <li>• AES-CCMP: 128 bit in hardware</li> <li>• 802.1x authentication</li> <li>• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.</li> <li>• WPA2 certification</li> <li>• WPA3 certification</li> <li>• IEEE 802.11i</li> <li>• WAPI</li> </ul>
<b>Network Architecture Models</b>	<p>Ad-hoc (Peer to Peer)</p> <p>Infrastructure (Access Point Required)</p>

### Technical Specifications

<b>Roaming</b>	IEEE 802.11 compliant roaming between access points
<b>Output Power<sup>3</sup></b>	<ul style="list-style-type: none"> <li>• 802.11b : +17dBm minimum</li> <li>• 802.11g : +16dBm minimum</li> <li>• 802.11a : +17dBm minimum</li> <li>• 802.11n HT20(2.4GHz) : +14dBm minimum</li> <li>• 802.11n HT40(2.4GHz) : +13dBm minimum</li> <li>• 802.11n HT20(5GHz) : +14dBm minimum</li> <li>• 802.11n HT40(5GHz) : +13dBm minimum</li> <li>• 802.11ac VHT80(5GHz) : +10dBm minimum</li> <li>• 802.11ac VHT160(5GHz) : +10dBm minimum</li> <li>• 802.11ax HE40(2.4GHz) : +12dBm minimum</li> <li>• 802.11ax HE80(5GHz) : +10dBm minimum</li> <li>• 802.11ax HE160(5GHz) : +10dBm minimum</li> </ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>• Transmit mode 2.0 W</li> <li>• Receive mode 1.6 W</li> <li>• Idle mode (PSP) 180 mW (WLAN Associated)</li> <li>• Idle mode 50 mW (WLAN unassociated)</li> <li>• Connected Standby 10mW</li> <li>• Radio disabled 8 mW</li> </ul>
<b>Power Management</b>	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
<b>Receiver Sensitivity<sup>4</sup></b>	<ul style="list-style-type: none"> <li>• 802.11b, 1Mbps : -93.5dBm maximum</li> <li>• 802.11b, 11Mbps : -84dBm maximum</li> <li>• 802.11a/g, 6Mbps : -86dBm maximum</li> <li>• 802.11a/g, 54Mbps : -72dBm maximum</li> <li>• 802.11n, MCS07 : -67dBm maximum</li> <li>• 802.11n, MCS15 : -64dBm maximum</li> <li>• 802.11ac, MCS0(VHT80) : -84dBm maximum</li> <li>• 802.11ac, MCS9(VHT80) : -59dBm maximum</li> <li>• 802.11ac, MCS9(VHT160) : -58.5dBm maximum</li> <li>• 802.11ax, MCS11(HE40): -57dBm maximum</li> <li>• 802.11ax, MCS11(HE80): -54dBm maximum</li> <li>• 802.11ax, MCS11(HE160): -53.5dBm maximum</li> </ul>
<b>Antenna type</b>	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
<b>Form Factor</b>	PCI-Express M.2 MiniCard
<b>Dimensions</b>	1. Type 2230: 2.3 x 22.0 x 30.0 mm
<b>Weight</b>	1. Type 2230: 2.8g
<b>Operating Voltage</b>	3.3v +/- 9%
<b>Temperature</b>	<b>Operating</b> 14° to 158° F (-10° to 70° C) <b>Non-operating</b> -40° to 176° F (-40° to 80° C)
<b>Humidity</b>	<b>Operating</b> 10% to 90% (non-condensing) <b>Non-operating</b> 5% to 95% (non-condensing)
<b>Altitude</b>	<b>Operating</b> 0 to 10,000 ft (3,048 m)

### Technical Specifications

	<b>Non-operating</b>	0 to 50,000 ft (15,240 m)
<b>LED Activity</b>		LED Amber – Radio OFF; LED OFF – Radio ON
<b>HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Wireless Card Technology</b>		
<b>Bluetooth Specification</b>		4.0/4.1/4.2/5.0/5.1/5.2/5.3 Compliant
<b>Frequency Band</b>		2402 to 2480 MHz
<b>Number of Available Channels</b>		Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)
<b>Data Rates and Throughput</b>		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)
<b>Transmit Power</b>		The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 9.5 dBm for BR and EDR.

1. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.
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).

### Technical Specifications

<b>Mediatek MT7921 Wi-Fi 6 + Bluetooth® 5.3 wireless card (802.11ax 2x2, supporting gigabit data rate)<sup>1</sup></b>	<ul style="list-style-type: none"> <li>IEEE 802.11a</li> <li>IEEE 802.11b</li> <li>IEEE 802.11g</li> <li>IEEE 802.11n</li> <li>IEEE 802.11ac</li> <li>IEEE 802.11ax</li> <li>IEEE 802.11d</li> <li>IEEE 802.11e</li> <li>IEEE 802.11h</li> <li>IEEE 802.11i</li> <li>IEEE 802.11k</li> <li>IEEE 802.11r</li> <li>IEEE 802.11v</li> </ul>
<b>Interoperability</b>	Wi-Fi certified modules
<b>Frequency Band</b>	<ul style="list-style-type: none"> <li>•802.11b/g/n/ax 2.402 – 2.482 GHz</li> <li>•802.11a/n/ac/ax 4.9 – 4.95 GHz (Japan)</li> <li>5.15 – 5.25 GHz</li> <li>5.25 – 5.35 GHz</li> <li>5.47 – 5.725 GHz</li> <li>5.825 – 5.850 GHz</li> </ul>
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<b>Modulation</b>	DSSS, OFDM, DBPSK, DQPSK, CCK, 16 QAM, 64 QAM, 256 QAM , 1024 QAM
<b>Security<sup>2</sup></b>	<ul style="list-style-type: none"> <li>• IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g mode only</li> <li>• AES-CCMP: 128 bit in hardware</li> <li>• 802.1x authentication</li> <li>• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.</li> <li>• WPA2 certification</li> <li>• WPA3 certification</li> <li>• IEEE 802.11i</li> <li>• WAPI</li> </ul>
<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
<b>Roaming</b>	IEEE 802.11 compliant roaming between access points
<b>Output Power<sup>3</sup></b>	<ul style="list-style-type: none"> <li>• 802.11b : +18.5dBm minimum</li> <li>• 802.11g : +17.5dBm minimum</li> <li>• 802.11a : +18.5dBm minimum</li> <li>• 802.11n HT20(2.4GHz) : +15.5dBm minimum</li> <li>• 802.11n HT40(2.4GHz) : +14.5dBm minimum</li> <li>• 802.11n HT20(5GHz) : +15.5dBm minimum</li> <li>• 802.11n HT40(5GHz) : +14.5dBm minimum</li> </ul>

### Technical Specifications

	<ul style="list-style-type: none"> <li>• 802.11ac VHT80(5GHz) : +11.5dBm minimum</li> <li>• 802.11ax HE40(2.4GHz) : +10dBm minimum</li> <li>• 802.11ax HE80(5GHz) : +10dBm minimum</li> </ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>• Transmit mode :2.5 W</li> <li>• Receive mode :2 W</li> <li>• Idle mode (PSP) 180 mW (WLAN Associated)</li> <li>• Idle mode :50 mW (WLAN unassociated)</li> <li>• Connected Standby/Modern Standby: 10mW</li> <li>• Radio disabled: 8 mW</li> </ul>
<b>Power Management</b>	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
<b>Receiver Sensitivity<sup>4</sup></b>	<ul style="list-style-type: none"> <li>• 802.11b, 1Mbps : -93.5dBm maximum</li> <li>• 802.11b, 11Mbps : -84dBm maximum</li> <li>• 802.11a/g, 6Mbps : -86dBm maximum</li> <li>• 802.11a/g, 54Mbps : -72dBm maximum</li> <li>• 802.11n, MCS07 : -67dBm maximum</li> <li>• 802.11n, MCS15 : -64dBm maximum</li> <li>• 802.11ac, MCS0 : -84dBm maximum</li> <li>• 802.11ac, MCS9 : -59dBm maximum</li> <li>• 802.11ax, MCS11(HE40): -57dBm maximum</li> <li>• 802.11ax, MCS11(HE80): -54dBm maximum</li> </ul>
<b>Antenna type</b>	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
<b>Form Factor</b>	PCI-Express M.2 MiniCard
<b>Dimensions</b>	1. Type 2230 : 2.3 x 22.0 x 30.0 mm
<b>Weight</b>	1. Type 2230 : 2.8g
<b>Operating Voltage</b>	3.3v +/- 9%
<b>Temperature</b>	<b>Operating</b> 14° to 158° F (-10° to 70° C) <b>Non-operating</b> -40° to 176° F (-40° to 80° C)
<b>Humidity</b>	<b>Operating</b> 10% to 90% (non-condensing) <b>Non-operating</b> 5% to 95% (non-condensing)
<b>Altitude</b>	<b>Operating</b> 0 to 10,000 ft (3,048 m) <b>Non-operating</b> 0 to 50,000 ft (15,240 m)
<b>LED Activity</b>	LED Amber – Radio OFF; LED OFF – Radio ON
<b>HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Wireless Card Technology</b>	
<b>Bluetooth Specification</b>	4.0/4.1/4.2/5.0/5.1/5.2/5.3 Compliant
<b>Frequency Band</b>	2402 to 2480 MHz
<b>Number of Available Channels</b>	Legacy : 0~79 (1 MHz/CH) BLE : 0~39 (2 MHz/CH)
<b>Data Rates and Throughput</b>	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

### Technical Specifications

<b>Transmit Power</b>	asymmetric (3-DH5) or 864 kbps symmetric (3-EV5) The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 4 dBm for BR and EDR.
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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).
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### Technical Specifications

<b>Qualcomm® Snapdragon™ X12 LTE- Advanced (CAT 6)<sup>1</sup> Chrome</b>	<b>Technology/Operating bands</b>	FDD-LTE: 1,2,3,4,5,7,8,12,13,14,17,18,19,20,25,26,28,29,30,66,71 TDD-LTE: 38,39,40(1),41,42(1),43(1),48(2)UMTS/HSPA+: 1,2,4,5,6,8,19 (1)Not support B40/42/43 in FCC/IC (2)Not support B48 in IC (3)Not support HPUE in Japan
	<b>Wireless protocol standards</b>	LTE Modulation 3GPP Release 12 LTE Specification DL-CAT.6, DL 64QAM BW throughput up to 300Mbps; UL-CAT.4 16QAM throughput up to 50Mbps UMTS Modulation 3GPP Release 9
	<b>GPS</b>	Not support
	<b>Maximum data rates</b>	LTE: 300 Mbps (Download), 50 Mbps (Upload) DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) UMTS: 384Kbps (Download), 384Kbps (Upload)
	<b>Maximum output power</b>	LTE: 23/24dBm WCDMA: 23.5dBm
	<b>Maximum power consumption</b>	2.5A maximum
	<b>Form Factor</b>	M.2, 3042-S3 Key B
	<b>Weight</b>	5.8 g
	<b>Dimensions (Length x Width x Thickness)</b>	42 x 30 x 2.3 mm
	<b>embedded eSIM</b>	Support

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

### Technical Specifications

#### POWER

1. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.

<b>45W USB Type C® Adapter Weight</b>	0.44 lb (200 g) max (Not including power cord. Power cord varies by country.)
<b>Input</b>	100-240Vac
	<b>Input Efficiency</b> Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec: 5V: 81.5% 9V: 86.7% 12V: 87.4% 15V: 87.8%
	<b>Input frequency range</b> 47-63Hz
	<b>Input AC current</b> Max. 1.4 A at 90 Vac
<b>Output</b>	<b>Output power</b> 5V/15W 9V/27W 12V/36W 15V/45W
	<b>DC output</b> 5V/9V/12V/15V
	<b>Hold-up time</b> 100% load 5ms at 115 Vac input
	<b>Output current limit</b> < 5.0A
<b>Connector</b>	USB Type C®
<b>Environmental Design</b>	<b>Operating temperature</b> 32°F to 95°F (0°to 35°C) <b>Non-operating (storage) temperature</b> -4°F to 185°F (-20°to 85°C) <b>Altitude</b> 0 to 16,400 ft (0 to 5000m) <b>Humidity</b> 20% to 95% <b>Storage Humidity</b> 10% to 95%
<b>EMI and Safety Certifications</b>	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

### Technical Specifications

		89.00% min at 115 Vac/ 230 Vac @15.00V
		89.00% min at 115 Vac/ 230 Vac @20.00V
<b>Input Frequency Range</b>		47-63Hz
<b>Input AC current</b>		Max. 1.6 A at 90 Vac
<b>Output Power</b>		5V/15W
		9V/27W
		12V/60W
		15V/65W
		20V/65W
<b>DC Output</b>		5V/9V/12V/15V/20V
<b>Hold-up Time</b>		100% load 5ms at 115 Vac input
<b>Output Over Current Protection</b>		< 8.0A
<b>AC Connector</b>		C6
<b>DC Connector</b>		USB type C
<b>DC Cable Material</b>		Halogen Free
<b>Operating Temperature</b>		32°F to 95°F (0° to 35°C)
<b>Non-operating (storage) Temperature</b>		-4°F to 185°F (-20° to 85°C)
<b>Altitude</b>		0 to 16,400 ft (0 to 5000m)
<b>Humidity</b>		20% to 95%
<b>Storage Humidity</b>		10% to 95%
<b>EMI and Safety Certifications</b>		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
<b>HP 2-cell Long Life Li-Ion (47 Wh)<sup>1</sup></b>	<b>Weight</b>	0.22 kg (0.48 lb)
	<b>Cells/Type</b>	2cell Lithium-Ion Polymer cell / 4473A9
	<b>Energy</b>	<b>Voltage</b> 8.8V
		<b>Amp-hour capacity</b> 6.15Ah
		<b>Watt-hour capacity<sup>1</sup></b> 47.3 Wh
	<b>Temperature</b>	<b>Operating (Charging)</b> 32° to 113° F (0° to 45° C)
		<b>Operating (Discharging)</b> 14° to 122° F (-10° to 60° C)
		<b>Optional Travel Battery Available</b> No

### Technical Specifications

#### AUDIO

<b>HD Stereo Codec</b>	Realtek ALC5682I-VS
<b>Audio I/O Ports</b>	Headset connector supports both CTIA and OMTP style headset
<b>Internal Speaker Amplifier</b>	Maxim MAX98360A x 2, up to 3W class-D mono amplifier
<b>Multi-streaming Capable</b>	Follow ChromeOS behavior and definition
<b>Sampling</b>	Follow ChromeOS behavior and definition
<b>Wavetable Syntheses</b>	N/A
<b>Analog Audio</b>	Stereo headphone out by 3.5mm audio jack only.
<b># of Channels on Line-Out</b>	Line-out is not supported.
<b>Internal Speaker</b>	Yes

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### Technical Specifications

#### ENVIRONMENTAL DATA

<b>Eco-Label Certifications &amp; declarations</b>	<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"> <li>• IT ECO declaration</li> <li>• US ENERGY STAR®</li> <li>• US Federal Energy Management Program (FEMP)</li> <li>• EPEAT® Gold registered in the United States. See <a href="http://www.epeat.net">http://www.epeat.net</a> for registration status in your country.</li> <li>• TCO Certified</li> <li>• China Energy Conservation Program (CECP)</li> <li>• China State Environmental Protection Administration (SEPA)</li> <li>• Taiwan Green Mark</li> <li>• Korea Eco-label</li> <li>• Japan PC Green label*</li> </ul>		
<b>Sustainable Impact Specifications</b>	<ul style="list-style-type: none"> <li>• <a href="#">Product Carbon Footprint</a></li> <li>• 2% post-consumer recycled plastic</li> <li>• 1% recycled metal</li> <li>• Low halogen</li> <li>• Outside Box and corrugated cushions are 100% sustainably sourced and recyclable</li> <li>• Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable.</li> <li>• Bulk packaging available</li> </ul>		
<b>System Configuration</b>	<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>		
<b>Energy Consumption (in accordance with US ENERGY STAR® test method)</b>	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 50Hz</b>
Normal Operation (Sort idle)	3.84 W	3.97 W	3.85 W
Normal Operation (Long idle)	1.81 W	1.95 W	1.82 W
Sleep	0.45 W	0.51 W	0.46 W
Off	0.27 W	0.31 W	0.26 W
	<p><b>NOTE:</b> Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the 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>		
<b>Heat Dissipation*</b>	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 50Hz</b>
Normal Operation (Short idle)	13 BTU/hr	14 BTU/hr	13 BTU/hr
Normal Operation (Long idle)	6 BTU/hr	7 BTU/hr	6 BTU/hr
Sleep	2 BTU/hr	2 BTU/hr	2 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr

### Technical Specifications

	* <b>NOTE:</b> Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.		
<b>Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)</b>	Sound Power (L <sub>WAd</sub> , bels)	Sound Pressure (L <sub>pAm</sub> , decibels)	
Typically Configured – Idle	2.4	24.1	
Fixed Disk – Random writes	2.4	24.1	
Optical Drive – Sequential reads	N/A	N/A	
<b>Longevity and Upgrading</b>	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the		
	Spare parts are available throughout the warranty period and or for up to “5” years after the end of production.		
<b>Additional Information</b>	<ul style="list-style-type: none"> <li>• This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC.</li> <li>• This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC.</li> <li>• This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).</li> <li>• This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see <a href="http://www.epeat.net">www.epeat.net</a></li> <li>• Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.</li> <li>• This product is 97.1% recycle-able when properly disposed of at end of life.</li> </ul>		
<b>Packaging Materials</b>	<b>External:</b>	PAPER/Corrugated	226 g
		PAPER/Molded Pulp	82 g
	<b>Internal:</b>	OTHER/Other	16 g
	The plastic packaging material contains at least 100% recycled content.		
	The corrugated paper packaging materials contains at least 35.6% recycled content.		
<b>RoHS Compliance</b>	<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 <a href="#">HP RoHS position statement</a>.</p>		

### Technical Specifications

<p><b>Material Usage</b></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 <a href="http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html">http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html</a>):</p> <ul style="list-style-type: none"> <li>• Asbestos</li> <li>• Certain Azo Colorants</li> <li>• Certain Brominated Flame Retardants – may not be used as flame retardants in plastics</li> <li>• Cadmium</li> <li>• Chlorinated Hydrocarbons</li> <li>• Chlorinated Paraffins</li> <li>• Bis(2-Ethylhexyl) phthalate (DEHP)</li> <li>• Benzyl butyl phthalate (BBP)</li> <li>• Dibutyl phthalate (DBP)</li> <li>• Diisobutyl phthalate (DIBP)</li> <li>• Formaldehyde</li> <li>• Halogenated Diphenyl Methanes</li> <li>• Lead carbonates and sulfates</li> <li>• Lead and Lead compounds</li> <li>• Mercuric Oxide Batteries</li> <li>• Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user.</li> <li>• Ozone Depleting Substances</li> <li>• Polybrominated Biphenyls (PBBs)</li> <li>• Polybrominated Biphenyl Ethers (PBBEs)</li> <li>• Polybrominated Biphenyl Oxides (PBBOs)</li> <li>• Polychlorinated Biphenyl (PCB)</li> <li>• Polychlorinated Terphenyls (PCT)</li> <li>• Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.</li> <li>• Radioactive Substances</li> <li>• Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)</li> </ul>
<p><b>Packaging Usage</b></p>	<p>HP follows these guidelines to decrease the environmental impact of product packaging:</p> <ul style="list-style-type: none"> <li>• Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.</li> <li>• Eliminate the use of ozone-depleting substances (ODS) in packaging materials.</li> <li>• Design packaging materials for ease of disassembly.</li> <li>• Maximize the use of post-consumer recycled content materials in packaging materials.</li> <li>• Use readily recyclable packaging materials such as paper and corrugated materials.</li> <li>• Reduce size and weight of packages to improve transportation fuel efficiency.</li> <li>• Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.</li> </ul>

### Technical Specifications

<b>End-of-life Management and Recycling</b>	<p>HP offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: <a href="http://www.hp.com/go/reuse-recycle">http://www.hp.com/go/reuse-recycle</a> 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: <a href="http://www.hp.com/go/recyclers">http://www.hp.com/go/recyclers</a>. 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>
<b>HP, Inc. Corporate Environmental Information</b>	<p>For more information about HP's commitment to the environment:</p> <p>Global Citizenship Report  <a href="http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html">http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html</a></p> <p>Eco-label certifications  <a href="http://www8.hp.com/us/en/hp-information/environment/ecolabels.html">http://www8.hp.com/us/en/hp-information/environment/ecolabels.html</a></p> <p>ISO 14001 certificates:  <a href="http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842">http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842</a>          and  <a href="http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf">http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf</a></p>
<b>footnotes</b>	<ul style="list-style-type: none"> <li>• Percentage of ocean-bound plastic contained in each component varies by product</li> <li>• Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.</li> <li>• External power supplies, WWAN modules, power cords, cables and peripherals excluded.</li> <li>• 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.</li> <li>• Fiber cushions made from 100% recycled wood fiber and organic materials.</li> </ul>

### Options and Accessories (Sold separately and availability may vary by country)

#### **DOCKING (Sold Separately)**

<b>Docking station model #1</b>	HP USB-C G5 Dock
<b>Total number of supported displays (incl. the notebook display)</b>	3
<b>Max. resolutions supported</b>	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
<b>Dock Connectors</b>	1x HDMI 2.0, 2x DisplayPort 1.4
<b>Technical limitations</b>	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.

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### Options and Accessories (Sold separately and availability may vary by country)

Type	Description	Part Number
<b>Cases</b>	HP 115 15.6 Laptop Backpack	8DV45AA#ACJ
	HP 215 15.6 Laptop Backpack	35L98AA#ACJ
	HP 225 15.6 Laptop Backpack	2P7U6AA#ACJ
	HP 235 15.6 Laptop Backpack	35M00AA#ACJ
	HP 315 15.6 Laptop Backpack	35L97AA#ACJ
	HP Campus Blue Backpack	7J596AA
	HP Campus Green Backpack	7J595AA
	HP Campus XL Marble Stone Backpack	7J592AA
	HP Campus XL Tie Dye Backpack	7J593AA
	HP Mobility 11.6 Laptop Case	4U9G8A6
	HP Mobility 11.6 Laptop Case	4U9G8AA
	HP Prelude 15.6 Top Load	1E7D7A6
	HP Prelude 15.6 Backpack	1E7D6A6
	HP Prelude G2 15.6 Backpack	2Z8P3AA
	HP Prelude G2 15.6 Top Load	2Z8P4AA
	HP Prelude Pro Recycled 15.6 Backpack	1X644A6
	HP Prelude Pro Recycled 15.6 Top Load	1X645A6
	HP Prelude Pro Recycled 15.6 Top Load	1X645AA
	HP Prelude Pro Recycled 15.6 Backpack	1X644AA
	HP Renew Business 14.1 Laptop Bag	3E5F9AA
	HP Renew Business 14.1 Sleeve	3E2U7A6
	HP Renew Business 14.1 Laptop Bag	3E5F9A6
	HP Renew Business 14.1 Laptop Sleeve	3E2U7AA
	HP Renew Business 15.6 Laptop Bag	3E5F8A6
	HP Renew Business 15.6 Laptop Bag	3E5F8AA
	HP Renew Business 17.3 Laptop Backpack	3E2U5A6
	HP Renew Business 17.3 Laptop Backpack	3E2U5AA
	HP Renew Business 17.3 Laptop Bag	3E2U6AA
	HP Renew Executive 14.1 Laptop Sleeve	6B8Y3AA
	HP Renew Executive 16 Laptop Backpack	6B8Y1AA
	HP Renew Executive 16 Laptop Bag	6B8Y2AA
	HP Travel 18L 15.6 Iron Gray Laptop Backpack	6B8U6AA
	HP Travel 25L 15.6 Iron Gray Laptop Backpack	6B8U4AA
<b>Docking</b>	HP USB-C G5 Dock	5TW10AA
<b>Keyboard/Combo</b>	HP 320K WD USB Keyboard	9SR37AA
	HP 325 Chrome BT Keyboard	45U14AA#ABA

### Options and Accessories (Sold separately and availability may vary by country)

<b>Power</b>	HP 45W USB-C LC Dali AC Power Adapter	1MZ01AA
	HP 65W USB-C Hades AC Power Adapter	X7W50AA
	HP 65W USB-C Laptop Charger	671R2AA
	HP 65W USB-C LC AC Power Adapter	944V0AA
<b>Hub</b>	HP 4K USB-C Multiport Hub	6G842AA
	HP Universal USB-C Multiport Hub	50H98AA
	HP USB-C to USB-A Hub Jake	Z8W90AA
	HP USB-C Travel Hub G3	86T46AA
<b>Adapters</b>	HP HDMI to VGA Adapter Wall-e	H4F02AA
	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z7Z7AA
	HP USB-C to DisplayPort Adapter G2 Luna2	8Y8Y1AA
	HP USB-C to DisplayPort Adapter Luna	N9K78AA
	HP USB-C to HDMI 2.0 Adapter GABBA	2PC54AA
	HP USB-C to RJ45 Adapter G2	4Z534AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to VGA Adapter Scrappy	P7Z54AA
<b>Audio</b>	HP 3.5mm G2 Stereo Headset	428H6AA
	HP USB G2 Stereo Headset	428H5AA
<b>Security</b>	HP Combination Nano Cable Lock	63B28AA
	HP Essential Combination Nano Cable Lock	63B31AA
	HP Nano Keyed Cable Lock	1AJ39AA
	HP Nano Master Keyed Cable Lock	1AJ40AA
	HP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA
<b>Digital Pen</b>	HP USI Garaged Pen	4R0Q5AA

### Change Log

<b>Date of change:</b>	<b>Version History:</b>		<b>Description of change:</b>
February 10, 2025	VV1 to 2	Updated	Display Section
	V2 to V3		

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