

### Overview

### HP Fortis Flip G1i 11 inch Notebook PC



**Front**

- |          |                          |          |                       |
|----------|--------------------------|----------|-----------------------|
| <b>1</b> | Internal microphones (2) | <b>4</b> | Webcam                |
| <b>2</b> | Webcam LED               | <b>5</b> | Pen garage (Optional) |
| <b>3</b> | HP Privacy Camera        | <b>6</b> | Clickpad              |

### Overview



### Sides

- |   |   |   |  |
|---|---|---|--|
| 1 | Power Connector   | 6 | Headphone/mic combo jack                       |
| 2 | RJ-45 Ethernet port   | 7 | USB Type-A 5Gbps signaling rate (Powered)      |
| 3 | HDMI port (Cable not included)  | 8 | Security lock slot (nano lock sold separately) |
| 4 | USB Type-A 5Gbps signaling rate (Powered)                               |   |  |
| 5 | USB Type-C® 5Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.2) |   |  |

## Technical Specifications

## PRODUCT NAME

HP Fortis Flip G1i 11 inch Notebook PC

## OPERATING SYSTEM

**Preinstalled** Windows 11 Pro  
Windows 11 Pro Education  
Windows 11 Home - HP recommends Windows 11 Pro for Business  
Windows 11 Home Single Language - HP recommends Windows 11 Pro for Business  
Windows 11 Pro (Windows 11 Enterprise available with a Volume Licensing Agreement)  
FreeDOS

## PROCESSORS

Processor <sup>1,2</sup>	Cores	Number of E-cores	Threads	L3 Cache	Max Frequency	Base Frequency	Intel SIPP/vPro® Enterprise	Intel® Turbo Boost Technology 2.0	Integrated Graphics
					E-cores	E-cores			
Intel® N250	4	4	4	6 MB	3.8 GHz	1.3 GHz	X	Yes	Intel® Graphics
Intel® N150	4	4	4	6 MB	3.6 GHz	0.8 GHz	X	Yes	Intel® Graphics

## 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. In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on <http://www.support.hp.com>

## CHIPSET

Chipset is integrated with processor

### Technical Specifications

#### GRAPHICS

**Integrated**

Intel® UHD Graphics

**Supports**

Support HD decode, DX12, HDMI 2.1b <sup>3</sup>

3. HD content required to view HD images.

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#### DISPLAY

Availability may vary by country.

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

**Touch**

29.46 cm (11.6") diagonal, HD (1366 x 768), LCD, Touch, Corning® Gorilla® Glass 3, SVA, BrightView, WLED, 250 nits, NTSC 45%

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

**Display Size (Diagonal)**

29.46 cm (11.6") diagonal

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#### STORAGE AND DRIVES

**Primary Storage**

256 GB PCIe® NVMe™ SSD Value <sup>4</sup>

128 GB UFS <sup>4</sup>

4. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10 and 11) is reserved for system recovery software.

### Technical Specifications

#### MEMORY

**Maximum Memory**

16 GB LPDDR5-6400 MT/s <sup>5</sup>

**Memory**

16 GB LPDDR5-6400 MT/s<sup>5</sup>

8 GB LPDDR5-6400 MT/s <sup>5</sup>

4 GB LPDDR5-6400 MT/s <sup>5</sup>

**Memory Slots**

No memory slots

Memory soldered on board

System runs at 4800 MT/s

The memory is non-accessible / non-upgradeable

5. 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.

### Technical Specifications

#### NETWORKING/COMMUNICATIONS

##### WLAN

Intel® Wi-Fi 6E AX211 Bluetooth® 5.3 wireless card, non-vPro <sup>6</sup>

##### WWAN

Qualcomm® Snapdragon™ X12 4G LTE Advanced CAT 6 <sup>7</sup>

##### Miracast

Native Miracast Support <sup>8</sup>

##### Ethernet

Realtek RTL8111HSH 10/100/1000 Integrated NIC <sup>9</sup>

6. 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.

7. 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.

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

9. The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

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#### AUDIO/MULTIMEDIA

Select product only (Privacy panel SKU).

##### Audio

2 Integrated stereo speakers

Integrated dual array microphone

##### Speaker Power

2W/4ohm per speaker

##### Camera

720p HD camera

HP Privacy Camera

World-facing Wide Field of View 80 5MP auto-focus secondary camera (Optional)

### Technical Specifications

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

**Keyboard**

Full-sized keyboard, spill and pick resistant keyboard

**Pointing Device**

Clickpad with multi-touch gesture support, taps enabled as default

**Function Keys**

Copilot+ in Windows requires Windows 11. Some features require an NPU. Timing of feature delivery and availability varies by market and device. Requires Microsoft account to log in. Where Microsoft in Windows is not available, the Copilot key will lead to the Bing search engine. See [aka.ms/copilotpluspcs](https://aka.ms/copilotpluspcs).

F1 - Display Switching  
F2 - Brightness Down  
F3 - Brightness Up  
F4 - Audio Mute/Unmute  
F5 - Volume Down  
F6 - Volume Up  
F7 - Mic Mute/Unmute  
F8 - Blank  
F9 - Blank  
F10 - Insert  
F11 - Wireless On/Off  
F12 - HP Programmable Key

**Pen**

Pen garage (optional)  
HP Slim Rechargeable pen (optional)

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## Technical Specifications

### SOFTWARE AND SECURITY

#### Preinstalled Software

##### Software

HP PC Hardware Diagnostics Windows

myHP

HP Smart Support <sup>10</sup>

HP Services Scan <sup>11</sup>

HP Connection Optimizer

HP Hotkey Support

HP Support Assistant <sup>12</sup> (download)

HP Notifications

HP Privacy Settings

Buy Microsoft Office (Sold separately)

#### Manageability Features

HP Connect for Microsoft Endpoint Manager <sup>13</sup>

HP Image Assistant Gen5 (download)

HP Manageability Integration Kit ([download](#)) <sup>14</sup>

HP Client Management Script Library (download)

HP Patch Assistant ([download](#)) <sup>15</sup>

HP Driver Packs (download)

HP Client Catalog (download)

**NOTE:** To enhance brightness, level go to the Intel® Graphics Command Center app, click on System and turn off the Display Power Savings function.

#### Security Management

Secured-Core PC Enable (require memory 8GB and above) <sup>16</sup>

HP Wolf Security for Business <sup>17</sup> includes:

HP Sure Sense <sup>18</sup>

HP Sure Start Gen7 <sup>19</sup>

#### BIOS

HP BIOSphere Gen6 <sup>20</sup>

HP Secure Erase <sup>21</sup>

Absolute Persistence Module <sup>22</sup>

HP DriveLock & Automatic DriveLock

BIOS Update via Network

HP Wake on WLAN

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

#### Security

##### TPM

Model: Nuvoton NPCT760HABYX

Version: 7.2.3.1

Revision: TPM 2.0

FIPS 140-2 Compliant: Yes

#### IPv6 Support

Yes



## Technical Specifications

**FirstNet Certified**

Yes

**The BIOS on this notebook implements ISO/IEC 19678:2015 guidelines (formerly NIST 800-147).**

**UEFI version: 2.7b**

HP BIOS UEFI Specification Level version 2.9 supported with BIOS update

**Class: Class: 3**

10. HP Smart Support requires the HP Insights agent to be installed. For more information about how to enable or to download HP Smart Support, please visit <http://www.hp.com/smart-support>. HP Services Scan is preinstalled and/or provided thru Windows Update and will check entitlement on each hardware device to determine if an HP Insights agent-enabled service has been purchased, and will download applicable software automatically. HP Insights agent is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access is required. For full system requirements or to disable this feature, please visit <https://www.hpdaas.com/requirements>.

11. HP Services Scan is provided thru Windows Update and will check entitlement on each hardware device to determine if an HP TechPulse-enabled service has been purchased, and will download applicable software automatically. To disable this feature, please follow the instructions at <http://www.hpdaas.com/requirements>. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP TechPulse follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access with connection to TechPulse portal is required. For full system requirements, please visit <http://www.hpdaas.com/requirements>. Not available in China.

12. HP Support Assistant requires Windows and Internet Access

13. HP Connect for Microsoft Endpoint Manager is available from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager. Subscription to Microsoft Endpoint Manager required and sold separately. Network connection required.

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

15. HP Patch Assistant available on select HP PCs with the HP Manageability Kit that are managed through Microsoft System Center Configuration Manager. HP Manageability Integration Kit can be downloaded from <https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools>

16. Secured-Core PC Enable requires 8 GB or more system memory. Secured-core PC is enabled from the factory.

17. HP Wolf Security for Business requires Windows 10 or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features and OS requirement.

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

19. HP Sure Start Gen7 is available on select HP PCs and requires Windows 10 and higher

20. HP BIOSphere Gen6 features may vary depending on the platform and configuration.

21. For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.

22. Absolute firmware module is shipped turned off and can only be activated with the purchase a license subscription and full activation of the software agent. License subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. Certain conditions apply. For full details visit:

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

## Technical Specifications

### POWER

Availability may vary by country.

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

#### Power Supply

HP Smart 65 W EM External AC power adapter <sup>23</sup>

HP Smart 45 W External AC power adapter <sup>23</sup>

Smart 45 W USB Type-C® adapter <sup>23</sup>

HP 65W Standard USB Type-C® Halogen Free AC power adapter<sup>23</sup>

#### Battery

HP Long Life 3-cell, 42 Whr Polymer<sup>24</sup>

#### Power Cord

2-wire plug - 1m

3-wire plug - 1m

#### Battery life

Up to 10 hours with 42whr battery (HP long life 3-cell, 42 Whr polymer, UMA graphic, Intel U9, display set to 250 nits, 8GB memory, 256GB) <sup>25</sup>

#### Battery Weight

HP Long Life 3-cell - 42 Wh Polymer - .49 lb

HP Long Life 3-cell - 42 Wh Polymer - 225g

23. Only available for selected regions and selected configurations.

24. 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.

25. MobileMark 25 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See [www.bapco.com](http://www.bapco.com) for additional details.

### Technical Specifications

#### WEIGHTS & DIMENSIONS

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

##### Product Weight

Starting at 3.08 lb

Starting at 1.39 kg

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

297 x 203.7 x 21.2 mm <sup>26</sup>

11.7 x 8.02 x 0.84 in <sup>26</sup>

##### 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](#).

26. 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.

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#### PORTS/SLOTS

1 x USB Type-C® 5Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.2) <sup>27</sup>

2 x USB Type-A 5Gbps signaling rate (Powered) <sup>29</sup>

1 x Headphone/mic combo jack

1 x HDMI 2.1

1 x AC power

1 x RJ-45

##### Expansion Slots

1 internal on-board Nano SIM slot for WWAN (optional) <sup>42</sup>

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

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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>• At least 30% ocean bound plastic in the (Speaker)<sup>1</sup></li> <li>• At least (0.6%) ITE-Derived closed loop plastic<sup>2</sup></li> <li>• At least (20%) post-consumer recycled plastic<sup>2</sup></li> <li>• Low Halogen<sup>4</sup></li> <li>• 100% of HP paper-based packaging is from recycled or certified sustainable sources<sup>5</sup></li> <li>• Bulk packaging available.</li> </ul>																						
<b>System Configuration</b>  <b>Energy Consumption (in accordance with US ENERGY STAR® test method)</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> <table> <tr> <th></th><th>115VAC, 60Hz</th><th>230VAC, 50Hz</th><th>100VAC, 50Hz</th></tr> <tr> <td>Normal Operation (Short idle)</td><td>3.91 W</td><td>4.03 W</td><td>4.13 W</td></tr> <tr> <td>Normal Operation (Long idle)</td><td>N/A</td><td>N/A</td><td>N/A</td></tr> <tr> <td>Sleep</td><td>0.54 W</td><td>0.63 W</td><td>0.59 W</td></tr> <tr> <td>Off</td><td>0.30 W</td><td>0.33 W</td><td>0.29 W</td></tr> </table> <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. <b>NOTE:</b></p>				115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz	Normal Operation (Short idle)	3.91 W	4.03 W	4.13 W	Normal Operation (Long idle)	N/A	N/A	N/A	Sleep	0.54 W	0.63 W	0.59 W	Off	0.30 W	0.33 W	0.29 W
	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz																				
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Sleep	0.54 W	0.63 W	0.59 W																				
Off	0.30 W	0.33 W	0.29 W																				
<b>Heat Dissipation*</b>	<table> <tr> <th></th><th>115VAC, 60Hz</th><th>230VAC, 50Hz</th><th>100VAC, 50Hz</th></tr> <tr> <td>Normal Operation (Short idle)</td><td>13 BTU/hr</td><td>14 BTU/hr</td><td>14 BTU/hr</td></tr> <tr> <td>Normal Operation (Long idle)</td><td>N/A</td><td>N/A</td><td>N/A</td></tr> <tr> <td>Sleep</td><td>2 BTU/hr</td><td>2 BTU/hr</td><td>2 BTU/hr</td></tr> </table>				115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz	Normal Operation (Short idle)	13 BTU/hr	14 BTU/hr	14 BTU/hr	Normal Operation (Long idle)	N/A	N/A	N/A	Sleep	2 BTU/hr	2 BTU/hr	2 BTU/hr				
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Normal Operation (Long idle)	N/A	N/A	N/A																				
Sleep	2 BTU/hr	2 BTU/hr	2 BTU/hr																				

### Technical Specifications

Off	1 BTU/hr	1 BTU/hr	1 BTU/hr
	<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</b> (in accordance with ISO 7779 and ISO 9296)	<b>Sound Power</b> ( $L_{WAd}$ , bels)		<b>Sound Pressure</b> ( $L_{pAm}$ , decibels)
Typically Configured – Idle	2.6		15.6
Fixed Disk – Random writes	2.6		14.3
Optical Drive – Sequential reads	2.6		14.2
<b>Longevity and Upgrading</b>	<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>		
<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 96.8% recycle-able when properly disposed of at end of life.</li> </ul>		
<b>Packaging Materials</b>	<b>External:</b>	PAPER/Corrugated	235 g
		PAPER/Paper	2 g
		PAPER/Molded Pulp	84 g
	<b>Internal:</b>	PLASTIC/Polyethylene low density – LDPE	13 g
	The plastic packaging material contains at least 0.0% recycled content.		
	The corrugated paper packaging materials contains at least 48.2% 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

<b>Material Usage</b>	<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="https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c05998906">https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c05998906</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>
<b>Packaging Usage</b>	<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>
<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="https://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c05403198">https://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c05403198</a> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.</p>

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	<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="#">HP Product Disassembly Instruction Website</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> <ul style="list-style-type: none"> <li>• Sustainable Impact Report <ul style="list-style-type: none"> <li>◦ <a href="https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06040843">https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06040843</a></li> </ul> </li> <li>• Eco-label certifications <ul style="list-style-type: none"> <li>◦ <a href="https://www.hp.com/us-en/sustainable-impact/document-reports.html#filters_documents_reports--document_type-type_energy_star,type_epeat,type_tcoISO">https://www.hp.com/us-en/sustainable-impact/document-reports.html#filters_documents_reports--document_type-type_energy_star,type_epeat,type_tcoISO</a></li> </ul> </li> <li>• ISO 14001 certificates <ul style="list-style-type: none"> <li>◦ <a href="https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c04777932">https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c04777932</a></li> </ul> </li> </ul>
<b>footnotes</b>	<ol style="list-style-type: none"> <li>1. Percentage of ocean-bound plastic contained in each component varies by product. Ocean Bound plastic is expressed as a percentage of the total weight plastic. Ocean Bound plastic is based on the definition set by the UL2809 standard.</li> <li>2. Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT standard for computers, IEEE 1680.1-2018 standard.</li> <li>4. External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.</li> <li>• 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 &gt;90% recycled plastic.</li> </ol>

### Technical Specifications

#### 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. 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>28</sup>

28. 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

##### Stand-Alone Power Requirements (AC Power)

Nominal Operating Voltage	19V
Average Operating Power	11.7W
Integrated graphics	Intel UHD Graphics
Discrete Graphics	N/A
Max Operating Power	UMA<45W

##### Temperature

Operating	41° to 95° F (5° to 35° C)
Non-operating	-4° to 140° F (-20° to 60° C)

##### Relative Humidity

Operating	10% to 90%
Non-operating	5% to 95%

##### Shock

Operating	40 G, 2 ms, half-sine
Non-operating	240 G, 2 ms, half-sine

##### Random Vibration

Operating	0.75 grams
Non-operating	1.50 grams

##### 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	HSN-I57C
CSA/UL 62368-1	Yes
FCC/ICES/CISPR/VCCI	Yes
ENERGY STAR®	Yes <sup>29</sup>
EPEAT®	Registered Gold in United States <sup>30</sup>
FCC/ICES/CISPR/VCCI	Yes
CE MARKING	Yes
GS Mark	Yes
Related commodity should comply with ISO 9241 Standards.	
China CCC/SRRC	Yes
Taiwan BSMI/NCC	Yes
Korea KCC/KC/KES	Yes
Ukraine NSoC/TEC	Yes
TCO	Yes
WW RoHS	Yes
Low Blue Light	No

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

30. 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.

Technical Specifications

DISPLAYS

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

1. Actual brightness will be lower with touchscreen or HP Sure View. Touchscreen support 10 finger touches & SPT (Simultaneous Pen and Touch)

<b>11.6 in HD (1366x768) Anti-Glare SVA NTSC 250 eDP 45 flat LCD Panel</b>	<b>Outline Dimensions (W x H)</b>	268.5 x 168.5 max. (w/ PCB)
	<b>Active Area</b>	256.125 x 144.0 mm
	<b>Weight</b>	210g 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>	400:1 (typ)
	<b>Refresh Rate</b>	60Hz
	<b>Brightness</b>	250nits
	<b>Pixel Resolution - Format</b>	1366 x 768 (HD)
	<b>Backlight</b>	WLED
	<b>Pixel Resolution</b>	RGB
	<b>Color Gamut Coverage</b>	45%NTSC
	<b>Color Depth</b>	6bits
	<b>Viewing Angle</b>	40/40/15/30
	<b>Low Blue Light</b>	No
	<b>Power Consumption (W, EBL@ 150nits max/ 200nits max)</b>	2.08W (max)/NA

<b>11.6 in HD (1366x768) Anti-Glare UWVA NTSC 250 eDP 50 flat LCD Panel</b>	<b>Outline Dimensions (W x H)</b>	278.5 x 168.5 max (w/ PCB)
	<b>Active Area</b>	256.125 x 144.0
	<b>Weight</b>	200g 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 (typ)
	<b>Refresh Rate</b>	60Hz
	<b>Brightness</b>	250nits
	<b>Pixel Resolution - Format</b>	1366 x 768 (HD)
	<b>Backlight</b>	WLED
	<b>Pixel Resolution</b>	RGB
	<b>Color Gamut Coverage</b>	50%NTSC
	<b>Color Depth</b>	6bits
	<b>Viewing Angle</b>	85/85/85/85
	<b>Low Blue Light</b>	No
	<b>Power Consumption (W, EBL@ 150nits max/ 200nits max)</b>	1.94W (max)/NA

Technical Specifications

STORAGE AND DRIVES

For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10 and 11) is reserved for system recovery software.

128GB UFS	Form Factor	UFS 3.1
	Capacity	128GB
	NAND Type	TLC
	Interface	SCSI
	Minimum Sequential Read	300MB/s (TWL support UFS 2.1 only)
	Minimum Sequential Write	150MB/s
	Logical Blocks	Logical Block : 128GB(127,984,992,256 Bytes)

SSD 256GB 2230 PCIe NVMe Value	Form Factor	M.2 2230
	Capacity	256 GB
	NAND Type	2230 Value
	Interface	PCIe NVMe Gen3X4 or Gen4X4
	Minimum Sequential Read	2000 MB/s ± 10%
	Minimum Sequential Write	900 MB/s ± 10%
	Logical Blocks	500,118,192
	Features	Pyritec, Pyritec2.0; TRIM; L1.2

Technical Specifications

NETWORKING/COMMUNICATIONS

Intel® AX211 Wi-Fi 6E	Wireless LAN Standards	IEEE 802.11a
+Bluetooth® 5.3 M.2		IEEE 802.11b
160MHz CNVi World-wide		IEEE 802.11g
WLAN non-vPro <sup>1</sup>		IEEE 802.11n
		IEEE 802.11ac
		IEEE 802.11ax
		IEEE 802.11d
		IEEE 802.11e
		IEEE 802.11h
		IEEE 802.11i
		IEEE 802.11k
		IEEE 802.11r
		IEEE 802.11v
	Interoperability	Wi-Fi certified
	Frequency Band	•802.11b/g/n/ax 2.402 – 2.482 GHz
		•802.11a/n/ac/ax 4.9 – 4.95 GHz (Japan)
		5.15 – 5.25 GHz
		5.25 – 5.35 GHz
		5.47 – 5.725 GHz
		5.825 – 5.850 GHz
		5.955 – 6.415 GHz
		6.435 – 6.515 GHz
		6.535 – 6.875 GHz
		6.895 – 7.115 GHz
	Data Rates	• 802.11b: 1, 2, 5.5, 11 Mbps
		• 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
		• 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
		• 802.11n: max 300Mbps
		• 802.11ac : 1733Mbps
		• 802.11ax : max 2.4Gbps
	Modulation	Direct Sequence Spread Spectrum
		OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
	Security <sup>3</sup>	• IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only
		• AES-CCMP: 128 bit in hardware
		• 802.1x authentication
		• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.
		• WPA2 certification
		• WPA3 certification
		• IEEE 802.11i
		• WAPI
	Network Architecture	Ad-hoc (Peer to Peer)
	Models	Infrastructure (Access Point Required)
	Roaming	IEEE 802.11 compliant roaming between access points
	Output Power <sup>2</sup>	• 802.11b : +17dBm minimum
		• 802.11g : +16dBm minimum



### Technical Specifications

	<ul style="list-style-type: none"> <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>	High efficiency antenna with spatial diversity, mounted in the display enclosure
<b>Antenna type</b>	Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications <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>Form Factor</b>	PCI-Express M.2 MiniCard
<b>Dimensions</b>	Type 2230: 2.3 x 22.0 x 30.0 mm
<b>Weight</b>	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

## Technical Specifications

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

<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.
<b>Power Consumption</b>	Peak (Tx): 330 mW Peak (Rx): 230 mW Selective Suspend: 17 mW
<b>Bluetooth Software Supported Link Topology</b>	Microsoft Windows Bluetooth Software
<b>Power Management</b>	Microsoft Windows ACPI, and USB Bus Support
<b>Certifications</b>	FCC (47 CFR) Part 15C, Section 15.247 & 15.249
<b>Power Management Certifications</b>	ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark
<b>Bluetooth Profiles Supported</b>	BT4.1-ESR 5/6/7 Compliance LE Link Layer Ping LE Dual Mode LE Link Layer LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels Train Nudging & Interlaced Scan BT4.2 ESR08 Compliance LE Secure Connection- Basic/Full LE Privacy 1.2 –Link Layer Privacy LE Privacy 1.2 –Extended Scanner Filter Policies LE Data Packet Length Extension FAX Profile (FAX) Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP) Advanced Audio Distribution Profile (A2DP) BT5.2 ESR9/10 Compliance LE Advertisement Extensions Channel Selection Algo Limited High Duty Cycle Non-Connectable Advertising 2Mbps LE LE Long Range

### Technical Specifications

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. 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.
  3. Check latest software/driver release for updates on supported security features.
  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>Qualcomm® Snapdragon™ X12 4G LTE Advanced CAT 6 <sup>1</sup></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 GPS bands</b>	Standalone GPS/GLONASS/Galileo/BDS, A-GNSS GPS L1: 1575.42MHz ± 1.023MHz GLONASS L1: 1602.5625MHz ± 4MHz BDS: 1561.098MHz ± 2.046MHz Galileo: 1575.42MHz ± 1.023MHz
	<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
	<b>Maximum power consumption</b>	WCDMA: 23.5dBm 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. Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products or in all countries.



### Technical Specifications

<b>Realtek RTL8111HSH 10/100/1000 Integrated NIC</b>	<b>Connector</b>	RJ-45
	<b>System Interface</b>	PCIe + SMBus
	<b>Data rates supported</b>	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14) 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30) 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 8023 clauses 40) Auto-Negotiation (Automatic Speed Selection) Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s
	<b>IEEE Compliance</b>	IEEE 802.1p QoS (Quality of Service) Support IEEE 802.1q VLAN support IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3az EEE (Energy Efficient Ethernet)
	<b>Performance</b>	TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling Jumbo Frame 9K
	<b>Power consumption</b>	Cable Disconnection: 25mW 100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW
	<b>Power Management</b>	ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption
	<b>Management Interface</b>	Auto MDI/MDIX Crossover cable detection
	<b>IT Manageability</b>	Wake-on-LAN from modern standby or sleep state (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite Virtual Cable Doctor for Ethernet cable status.

### Technical Specifications

#### POWER

<b>HP 45W Smart AC adapter</b>	<b>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>	87.74% at 115Vac and 88.4% at 230Vac
	<b>Input frequency range</b>	47 to 63 Hz
	<b>Input AC current</b>	Max. 1.4 A at 90 VAC
	<b>Output</b>	
	<b>Output power</b>	45W
	<b>DC output</b>	19.5V
	<b>Hold-up time</b>	100% load 5ms at 115 Vac input/80% load 10ms at 115 Vac input
	<b>Output current limit</b>	<8.0A
	<b>Connector</b>	4.5mm Barrel Type,
	<b>Environmental Design</b>	
	<b>Operating temperature</b>	32° to 95° F (0° to 35° C)
	<b>Non-operating (storage) temperature</b>	-4° to 185° F (-20° to 85° C)
	<b>Altitude</b>	0 to 16,400 ft (0 to 5,000 m)
	<b>Humidity</b>	20% to 95%
	<b>Storage Humidity</b>	10% to 95%
	<b>EMI and Safety</b>	CE Mark - full compliance with LVD and EMC directives
	<b>Certifications</b>	Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL62368-1 Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia GEMS and RCM, BIS, BSMI, UAE, UKCA DoC

<b>HP 65W EM Smart AC adapter</b>	<b>Weight</b>	0.58 lb (265 g) max (Not including power cord. Power cord varies by country.)
	<b>Input</b>	100 ~ 240VAC
	<b>Input Efficiency</b>	88 % at 115 Vac and 89 % at 230Vac
	<b>Input frequency range</b>	47 to 63 Hz
	<b>Input AC current</b>	Max. 1.7 A at 90 Vac
	<b>Output</b>	
	<b>Output power</b>	65W
	<b>DC output</b>	19.5V
	<b>Hold-up time</b>	100% load 5ms at 115 Vac input/80% load 10ms at 115 Vac input
	<b>Output current limit</b>	< 11.0A
	<b>Connector</b>	4.5/7.4mm Barrel Type
	<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)

### Technical Specifications

<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</b>	CE Mark - full compliance with LVD and EMC directives
<b>Certifications</b>	Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL62368-1 Agency approvals - C-UL-US, TUV/GS, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, BIS, UKCA DoC

#### HP 45W USB type C Straight 1.8m AC Adapter

<b>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>	
<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</b>	"CE Mark - full compliance with LVD and EMC directives
<b>Certifications</b>	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)

Technical Specifications

HP 65W Standard USB-C Straight AC Power Adapter	Weight	240g ± 10g
	Input	100 ~ 240VAC
	Input Efficiency	81.50% min at 115 Vac/ 230 Vac @5.00V
		86.70% min at 115 Vac/ 230 Vac @9.00V
		88.00% min at 115 Vac/ 230 Vac @12.00V
		89.00% min at 115 Vac/ 230 Vac @15.00V
		89.00% min at 115 Vac/ 230 Vac @20.00V
	Input frequency range	47 ~ 63Hz
	Input AC current	Max. 1.6 A at 90 Vac
	Output	
	Output power	5V/15W
		9V/27W
		12V/60W
		15V/65W
		20V/65W
	DC output	5V/9V/12V/15V/20V
	Hold-up time	100% load 5ms at 115 Vac input
	Output current limit	<8.0A
	AC Inlet Type	C6
	DC Cable Connector	USB type C
	DC Cable Material	Halogen Free
	Connector	
	Connector	C6
	Environmental Design	
	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	CE Mark - full compliance with LVD and EMC directives
	Certifications	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

## Technical Specifications

<b>AN 42Whr<sup>1</sup> Long Life Polymer Fast Charge<sup>2</sup> 3 cell Battery</b>	<b>Cells/Type</b>	3cell Lithium-Ion Polymer cell / 545974
	<b>Energy</b>	
	<b>Voltage</b>	11.4V
	<b>Amp-hour capacity</b>	3.752Ah
	<b>Watt-hour capacity</b>	42.75Wh
	<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

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.
2. Recharges your battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.

## AUDIO

<b>HD Stereo Codec</b>	Realtek ALC3247
<b>Audio I/O Ports</b>	Headset connector supports a CTIA style headset and is re-taskable as a Microphone-in or Headphone-out port
<b>Internal Speaker Amplifier</b>	Codec internal Amplifier
<b>Multi-streaming Capable</b>	Support multi-streaming
<b>Sampling</b>	Streams to be sent to/from headset or integrated speaker.
<b>Wavetable Syntheses</b>	N/A
<b>Analog Audio</b>	N/A
<b># of Channels on Line-Out</b>	N/A
<b>Internal Speaker</b>	Yes

### 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>• Ocean-bound plastic in CPU Fan and Speaker</li> <li>• 20% post-consumer recycled plastic</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>	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a "Typically Configured Notebook".		
<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)	3.91 W	4.04 W	4.13 W
Normal Operation (Long idle)	0.54 W	0.63 W	0.59 W
Sleep	0.54 W	0.63 W	0.59 W
Off	0.3 W	0.33 W	0.29 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)	13.4 BTU/hr	13.8 BTU/hr	14.1 BTU/hr
Normal Operation (Long idle)	1.8 BTU/hr	2.2 BTU/hr	2.0 BTU/hr
Sleep	1.8 BTU/hr	2.2 BTU/hr	2.0 BTU/hr
Off	1.0 BTU/hr	1.1 BTU/hr	1.0 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	1.3	15.6	
Fixed Disk – Random writes	1.3	14.2	
Optical Drive – Sequential reads	1.3	14.3	
<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 96.7% recycle-able when properly disposed of at end of life.</li></ul>		
<b>Packaging Materials</b>	<b>External:</b>	PAPER/Corrugated	191 g
		PAPER/Corrugated	44 g
		PAPER/Molded Pulp	42 g
		PAPER/Paper	2 g
	<b>Internal:</b>	PLASTIC/Polyethylene low density - LDPE	13 g
	The plastic packaging material contains at least 0.0% recycled content.		
	The corrugated paper packaging materials contains at least 53.6% 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</p>		

### Technical Specifications

	<p>requirements for virtually all relevant products by July 2013, and we will continue to extend the scope of the commitment to include further restricted substances as regulations continue to evolve. To obtain a copy of the HP RoHS Compliance Statement, see <a href="#">HP RoHS position statement</a>.</p>
<b>Material Usage</b>	<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>
<b>Packaging Usage</b>	<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> <li>• Plastic cushions are made from &gt;90% recycled plastic.</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 Dock G5
<b>Total number of supported displays (incl. the notebook display)</b>	3
<b>Max. resolutions supported</b>	Dual 5K@ 30Hz + 4K UHD (multi-function mode)
<b>Dock Connectors</b>	1xHDMI, 2xDP
<b>Technical limitations</b>	<p>Maximum resolution and display support is dependent on the maximum capability of the notebook.</p> <p>Highest resolution with dual displays is two 8K@ 60Hz host in High Resolution mode.</p> <p>Three maximum displays supported are two 5K@ 30 Hz on DP ports plus one 4K UHD@ 30 Hz on HDMI in Multi-function mode</p> <p>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.</p>
<b>Docking station model #2</b>	HP USB-C/A Universal Dock G2
<b>Total number of supported displays (incl. the notebook display)</b>	3
<b>Max. resolutions supported</b>	Triple 4K UHD@ 60Hz
<b>Dock Connectors</b>	1xHDMI, 2xDP
<b>Technical limitations</b>	<p>Maximum resolution and display support is dependent on the maximum capability of the notebook.</p> <p>The best resolution for dual or triple displays is 4K UHD@ 60Hz.</p> <p>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.</p>
<b>Docking station model #3</b>	HP USB-C G5 Essential Dock
<b>Total number of supported displays (incl. the notebook display)</b>	3
<b>Max. resolutions supported</b>	<p>For hosts that support DisplayPort 1.4 with Display Stream Compression:</p> <p>3x FHD @ 60 Hz</p> <p>3x QHD @ 60 Hz</p> <p>3x 4K @ 60 Hz</p> <p>For hosts that support DisplayPort 1.3/1.4:</p> <p>3x FHD @ 60 Hz</p> <p>3x QHD @ 60 Hz</p> <p>2x 4K @ 60 Hz</p>
<b>Dock Connectors</b>	1 x HDMI, 2 x DP
<b>Technical limitations</b>	Video resolution depends on the capability of the host machine. This dock provides up to 65W of power delivery to the host machine.

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

Category	Description	Part Number
Audio	HP Wired USB-A Stereo Headset	428K6AA,428K6PT#ACJ
	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-C Adapter +Basic Charge Case	7Y8H4AA
	Poly Voyager Free 60 UC M Carbon Black Earbuds +BT700 USB-C Adapter +Basic Charge Case	7Y8L8AA
	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-C Adapter +Touchscreen Charge Case	7Y8H0AA
	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	767G1AA
	Poly EncorePro 310 Monoaural with Quick Disconnect Headset	77T43AA
	Poly EncorePro 310 USB-C Monoaural Headset	760Q8AA
	Poly EncorePro 320 Stereo USB-A Headset	767G0AA
	Poly EncorePro 320 Stereo USB-C Headset	767F9AA
	Poly EncorePro 320 with Quick Disconnect Binaural Headset	77T26AA
	Poly EncorePro 510 Monaural Headset +Quick Disconnect	783Q2AA
	Poly EncorePro 515 Microsoft Teams Certified Monoaural with 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

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

Poly EncorePro 525 USB-A Stereo Headset	783R3AA
Poly EncorePro 530 Headset +Quick Disconnect	783P3AA
Poly EncorePro 540 Convertible Headset +Quick Disconnect	783P1AA
Poly EncorePro 715 USB-A Monoaural Headset	783N5AA
Poly EncorePro 720 Binaural Headset +Quick Disconnect	8R707AA
Poly EncorePro 725 USB-A Stereo Headset	783M6AA
Poly EncorePro HW710 Single Ear Headset +Carry Case +Quick 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 Monoaural DECT 1920-1930 MHz Headset (NA)	8L570AA
Poly Savi 7310 UC Monoaural Microsoft Teams Certified DECT 1880-1900 MHz Headset (EMEA + APJ)	8L575AA
Poly Savi 7310 UC Monoaural Microsoft Teams Certified DECT 1893-1906 MHz Headset (Japan)	8L578AA
Poly Savi 7310 UC Monoaural Microsoft Teams Certified DECT 1910-1920 MHz Headset (NA)	8L581AA
Poly Savi 7310 UC Monoaural 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

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

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 (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 (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 (NA)	7S4B5AA
Poly Savi 8220 Stereo DECT 1880-1900 MHz Top +Charging Cradle (EMEA +	8Y9C4AA

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

APJ)

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 (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 (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 (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	77Y93AA



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

+Charging Stand	
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

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

	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
<b>Video</b>	HP 325 FHD USB-A Webcam	53X27AA
	HP 625 FHD Webcam	6Y7L1AA
<b>Cases</b>	HP 14 Convertible Laptop Backpack Tote	9C2H1AA
	HP 14 Modular Laptop Sleeve	9J499AA
	HP 15.6 Modular Laptop Backpack	9J496AA
	HP 15.6 Modular Laptop Bag	9J497AA
	HP 15.6 Modular Laptop Sleeve	9J498AA
	HP Convertible Laptop Stand	9C2H2AA
	HP Mobility 14 Laptop Case	4U9G9AA
	HP Prelude 15.6 Top Load	1E7D7AA,50P31AA
	HP Prelude 15.6 Backpack	1E7D6AA,1E7D6UT,50P32AA
	HP Prelude Pro Recycled 15.6 Backpack	1X644AA
	HP Prelude Pro Recycled 15.6 Top Load	1X645AA
	HP Renew Business 14.1 Laptop Bag	3E5F9AA
	HP Renew Business 14.1 Laptop Sleeve	3E2U7AA
	HP Renew Business 15.6 Laptop Bag	3E5F8AA
	HP Renew Business 17.3 Laptop Backpack	3E2U5AA
	HP Renew Business 17.3 Laptop Bag	3E2U6AA
	HP Renew Executive 14.1 Laptop Sleeve	6B8Y3AA
	HP Renew Executive 16 Laptop Backpack	6B8Y2AA
	HP Renew Executive 16 Laptop Bag	6B8Y1AA,6B8Y1UT
	HP Travel 18L 15.6 Iron Gray Laptop Backpack	6H2D9AA
	HP Travel 25L 15.6 Iron Gray Laptop Backpack	6H2D8AA
<b>Docking</b>	HP USB-C 120W G5 Dock	5TW10AA
	HP USB-C/A 120W G2 Universal Dock	5TW13AA
<b>Digital Pen</b>	HP 705 RECHBL Multi Pen	93Z28AA
	HP Slim RECHBL Pen	630W7AA



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

<b>Pen Accessory</b>	HP Rechargeable Slim Pen Charger	4X491AA
<b>Hub</b>	HP 4K USB-C Multiport Hub	6G842AA, 6G843UT
	HP Universal USB-C Multiport Hub	50H55UT, 50H55PT#ACJ
	HP USB-C to USB-A Hub	Z6A00AA
	HP USB-C Travel Hub G3	86S97AA, 86S97UT
	HP Universal USB-C Hub and Laptop Charger Combo	9H0H9AA
<b>Adapter</b>	HP USB-C to RJ45 Adapter G2	4Z527AA
	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z727AA
	HP HDMI to VGA Adapter	H4F02AA
	HP USB-C to DisplayPort Adapter G2	8Y8Y1AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to VGA Adapter	N9K76AA
<b>Keyboard/Combo</b>	HP 125 Wired USB Keyboard	266C9AA
	HP 225 Wireless Keyboard	805T1AA, 805T1UT
	HP 320K WD USB Keyboard	9SR37AA, 9SR37UT
	HP 325 Chrome BT Keyboard	45U14AA
	HP 355 Compact Multi-Device BT Keyboard	692S9AA
	HP 405 Multi-Device Wired Backlit Keyboard	7N7C1AA, 7N7C1UT
	HP 435 Programmable BT Keypad	7N7C3AA
	HP 455 Wireless Programmable USB Keyboard	4R177AA
	HP 475 Dual-Mode Keyboard	7N7B9AA, 7N7B9UT
	HP 225 Antimicrobial Wired Mouse and Keyboard Combo	286K3AA
	HP 225 Wired Mouse and Keyboard Combo	286J4AA
	HP 225 Wired Mouse and Keyboard Combo Cashmere White	86J24AA
	HP 235 Wireless Mouse and Keyboard Combo	1Y4D0UT
	HP 655 Wireless Keyboard and Mouse Combo	4R009AA, 4R009UT
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA, 9SR36UT
<b>Mouse</b>	HP 105 Sanitizable Mouse Pad	8X595AA
	HP 125 USB-A Wired Mouse	265A9AT, 265A9UT
	HP 128 USB Laser Wired Mouse	265D9AA
	HP 205 Sanitizable Desk Mat	8X597AA
	HP 320M USB-A Wired Mouse	9VA80AA
	HP 425 Programmable Bluetooth Wireless Mouse	7M1D5AA
	HP 695 Qi-Charging Bluetooth Wireless Mouse	8F1Y4AA
	HP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse	6E6F0AA
<b>Power</b>	HP 65W 4.5 mm Smart AC Power Adapter	H6Y89AA
	HP 65W USB-C Laptop Charger	671R3UT
	HP 65W USB-C LC AC Power Adapter	1P3K6AA



Options and Accessories (sold separately and availability may vary by country)

	HP 45W USB-C LC Dali AC Power Adapter	1MZ01AA
Commodity	HP Combination Standard Cable Lock	T0Y15AA
	HP Keyed Cable Lock	T1A62AA
	HP Master Keyed Standard Cable Lock	T1A63AA
	HP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA
	HP USB DVD-Writer EXT ODD	F2B56AA

### Summary of Changes

Date of change:	Version History:	Updated	Description of change:
January 22, 2025	V1 to V2	Added	Environmental Section
February 6, 2025	V2 to V3	Added	Display Section
February 13 2025	V3 to V4	Updated	Weight Section
March 5, 2025	V4 to V5	Updated	Image Section
August 22, 2025	V5 to V6	Updated	Software and Security Section
September 19, 2025	V6 to V7	Updated	Software and Security Section
October 17, 2025	V7 to V8	Updated	Processor Section
October 27, 2025	V8 to V9	Updated	Weight Section
November 10, 2025	V9 to V10	Updated	Weight Section
November 14, 2025	V10 to V11	Updated	Weight Section

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