

### Overview

#### HP Pro x360 Fortis 11 inch G10



#### Left

- |  |   |
|--|---|
| 1. Internal microphones (2)                    | 7. World-facing Webcam LED (Optional)                               |
| 2. Webcam and HP Privacy Camera                | 8. SuperSpeed USB Type-C® 5 Gbps signaling rate port                |
| 3. Webcam LED                                  | 9. SuperSpeed USB Type-A 5 Gbps signaling rate port (USB 3.2 Gen 1) |
| 4. Pen garage (optional)                       | 10. HDMI port (Cable not included)                                  |
| 5. Clickpad                                    | 11. Ethernet (RJ-45) port   |
| 6. World-facing 5 Megapixels Webcam (Optional) | 12. Power Connector   |

### Overview



#### Right

1. Power Button Key
2. Security lock slot (nano lock sold separately)
3. SuperSpeed USB Type-A 5 Gbps signaling rate port (USB 3.2 Gen 1)
4. Audio combo jack

### Overview

#### AT A GLANCE

- Windows 11 Pro, other Windows OS, or FreeDOS preinstalled
- Weight starting at 3.33 lbs (1.51 kgs)
- At 21.2 mm (0.84"), this flexible 360° hinge converts to laptop, tablet, tent, stand or book mode easily
- Undergoes 19 MIL-STD 810H tests, with rugged features such as co-molded rubber trim, spill- and pick-resistant keyboard, and Corning® Gorilla® Glass 3 touch screen
- Optional dual camera system for project-based learning
- Optional HP Slim Rechargeable Pen can be safely charged and housed on the keyboard in an optional spill-resistant garage
- Choice of 12th generation Intel® Core™ i5 and i3 processors
- Choice of 29.5cm (11.6") diagonal HD IPS slim LED touch screen (1366 x 768) or 29.5 cm (11.6") diagonal HD SVA slim LED touch screen (1366 x 768) displays
- Up to 256 GB PCIe® NVMe™ M.2 Solid State Drive storage options
- Up to 8 GB total system memory
- Reliable connectivity with choice of Intel® Wi-Fi 6E AX211 and Bluetooth® 5.2 Combo WLAN or Intel® 9560 802.11b/g/n/a/ac (2x2) and Bluetooth® 5 Combo WLAN for learning and collaboration beyond the classroom
- Built-in ports include: Ethernet (RJ-45), USB 3.1 Gen 1, USB Type-C®, and HDMI 1.4b port for connecting to high-resolution displays
- Enhanced security TPM 2.0 discrete chip
- Battery life up to 9 hours and 30 minutes

**NOTE: See important legal disclosures for all listed specs in their respective features sections.**

---

### Technical Specifications

#### PRODUCT NAME

HP Pro x360 Fortis 11 inch G10

#### OPERATING SYSTEM

**Preinstalled** Windows 11 Pro <sup>1</sup>  
 Windows 11 Pro Education <sup>1</sup>  
 Windows 11 Home - HP recommends Windows 11 Pro for business <sup>1</sup>  
 Windows 11 Home Single Language - HP recommends Windows 11 Pro for business <sup>1</sup>  
 Windows 11 Pro (Windows 11 Enterprise available with a Volume Licensing Agreement) <sup>1</sup>  
 Windows 10 Pro (available through downgrade rights from Windows 11 Pro) <sup>1,2</sup>  
 FreeDOS

1. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>
2. This system is preinstalled with Windows 10 Pro software and also comes with a license for Windows 11 Pro software and provision for recovery software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.

#### PROCESSORS

Processor <sup>3,4,5,6</sup>	Cores	Number of P-cores	Number of E-cores	Threads	L3 Cache	Max Turbo Frequency		Base Frequency	
						P-cores	E-cores	P-cores	E-cores
Intel® Core™ i5-1230U	10	2	8	12	12MB	4.4 GHz	3.3 GHz	1.0 GHz	0.7 GHz
Intel® Core™ i3-1210U	6	2	4	8	10MB	4.4 GHz	3.3 GHz	1.0 GHz	0.7 GHz

3. 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.
4. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
5. 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>.
6. Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost> for more information.

### Technical Specifications

#### CHIPSET

Chipset is integrated with processor

---

#### GRAPHICS

##### Integrated

Intel® UMA Graphics

##### Supports

Support HD decode, DX12, HDMI 1.4b. <sup>7</sup>

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

---

#### DISPLAY

##### Touch

29.5 cm (11.6") diagonal, HD (1366x768), touch, SVA, BrightView Glass, Corning® Gorilla® Glass 3, eDP, 250 nits, 45% NTSC <sup>7,8,9,10</sup>

29.5 cm (11.6") diagonal, HD (1366x768), touch, IPS, BrightView Glass, Corning® Gorilla® Glass 3, eDP, 250 nits, 50% NTSC <sup>7,8,9,10</sup>

##### Display Size

11.6" diagonal

29.46 cm (11.6") diagonal

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

[8. Sold separately or as an optional feature.](#)

[9. Resolutions are dependent upon monitor capability, and resolution and color depth settings.](#)

[10. Actual brightness will be lower with touchscreen or HP Sure View.](#)

---

### Technical Specifications

#### DOCKING (Sold Separately)

<b>Docking station model #1</b>	HP USB-C Dock G5
<b>Docking station model #2</b>	HP USB-C Mini Dock
<b>Docking station model #3</b>	HP USB-C/A Universal Dock G2
<b>Docking station model #4</b>	HP USB-C Travel Dock G2

[For additional aftermarket options and docking specs please see page 27.](#)

#### STORAGE AND DRIVES

##### Primary Storage

128 GB PCIe® NVMe™ Value M.2 SSD <sup>11</sup>

256 GB PCIe® NVMe™ Value M.2 SSD <sup>11</sup>

11. 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.

#### MEMORY

##### Maximum Memory

8 GB LPDDR4X-4266 MHz RAM (on-board) <sup>12,13</sup>

##### Memory

8 GB LPDDR4X-4266 MHz RAM (on-board) (2 x 4 GB) <sup>12,13</sup>

4 GB LPDDR4X-4266 MHz RAM (on-board) (1 x 4 GB) <sup>12,13</sup>

##### Memory Slots

On-board LPDDR4x; system runs at 4266 MHz <sup>12,13</sup>

Supports Dual Channel Memory

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

13. 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 CERTIFIED 6E™ AX211 and Bluetooth® 5.2 combo, non-vPro® <sup>14</sup>

Intel® Dual Band Wireless-AC 9560 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 combo, non-vPro® <sup>15</sup>

##### Miracast

Native Miracast Support <sup>16</sup>

##### Ethernet

Realtek RTL8111HSH-CG 10/100/1000 GbE NIC <sup>17</sup>

14. 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.

15. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 5 (802.11 ac) is backwards compatible with prior 802.11 specs.

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

17. 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.

#### AUDIO/MULTIMEDIA

##### Audio

HP HD Audio

2 Integrated stereo speakers

Integrated dual array microphone

##### Speaker Power

2W/4ohm per speaker

##### Camera

720p HD camera <sup>7,15</sup>

World-facing Wide Field of View 80° 5MP auto-focus secondary camera (Optional) <sup>7,8,18</sup>

7. HD content required to view HD images.

8. Sold separately or as an optional feature.

15. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 5 (802.11 ac) is backwards compatible with prior 802.11 specs.

18. Internet access required.

### Technical Specifications

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

##### Keyboard

Full-sized keyboard, spill and pick resistant keyboard  
Optional pen garage

##### Pointing Device

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

##### Function Keys

F1 - Display Switching  
F2 - Brightness Down  
F3 - Brightness Up  
F4 - Speaker Mute  
F5 - Volume Down  
F6 - Volume Up  
F7 - Mic Mute  
F8 - Blank  
F9 - Blank  
F10 - Insert  
F11 - Wi-Fi Toggle  
F12 - HP Programmable Key

##### Pen

Passive Targus Slim Stylus (Optional)  
HP Slim Rechargeable Pen (Optional)

##### Sensors

Combo Chip  
Accelerometer  
Magnetometer  
Gyroscope  
Hall Sensor

---



### Technical Specifications

#### SOFTWARE AND SECURITY

##### Preinstalled Software

###### Software

HP Quick Touch  
HP Quick Drop <sup>19</sup>  
HP PC Hardware Diagnostics Windows  
HSA Fusion for Commercial  
HSA Telemetry for Commercial  
Touchpoint Customizer for Commercial  
myHP  
HP Smart Support <sup>20</sup>  
HP Connection Optimizer  
HP Mac Address Manager  
HP Hotkey Support  
HP Support Assistant <sup>21</sup>  
HP Notifications  
HP Privacy Settings  
Buy Microsoft Office (Sold separately)  
AI Noise Reduction Gen 2

##### Manageability Features

HP Manageability Integration Kit Gen4 (download) <sup>22</sup>  
HP Power Manager  
HP Driver Packs (download)  
HP Client Catalog (download)  
HP Client Management Script Library (download)  
HP Image Assistant (download)

##### Security Management

HP Sure Click <sup>23</sup>  
HP Sure Sense 2 <sup>24</sup>  
HP Sure Start Gen7 <sup>25</sup>  
HP Sure Admin <sup>26</sup>

##### BIOS

HP BIOSphere Gen6 <sup>27</sup>  
HP Secure Erase <sup>28</sup>  
Absolute Persistence Module <sup>29</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)  
HP Fingerprint Sensor <sup>30</sup>

##### IPv6 Support

No

## Technical Specifications

19. HP Quick Drop requires Internet access and Windows 10 PC preinstalled with HP QuickDrop app and either an Android device (phone or tablet) running Android 7 or higher with the Android HP QuickDrop app, and /or an iOS device (phone or tablet) running iOS 12 or higher with the iOS HP QuickDrop app.
20. HP Smart Support automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration data and health insights and is available preinstalled on select products, thru HP Factory Configuration Services; or it can be downloaded. For more information about how to enable HP Smart Support or for download, please visit <http://www.hp.com/smart-support>.
21. Requires Windows and Internet Access
22. HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement>.
23. HP Sure Click requires Windows 10 Pro or Enterprise. See [https://bit.ly/2PrLT6A\\_SureClick](https://bit.ly/2PrLT6A_SureClick) for complete details.
24. HP Sure Sense is available on select HP PCs and is not available with Windows10 Home.
25. HP Sure Start Gen6 is available on select HP PCs.
26. HP Sure Admin requires Windows 10, HP BIOS, HP Manageability Integration Kit from <http://www.hp.com/go/clientmanagement> and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.
27. HP BIOSphere Gen6 features may vary depending on the platform and configuration.
28. 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™.
29. 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/>.
30. Fingerprint Reader is an optional feature that must be configured at purchase.

## POWER

### Power Supply

- HP Smart 65 W EM External AC power adapter <sup>31</sup>
- HP Smart 45 W External AC power adapter <sup>31</sup>
- HP Smart 45 W USB Type-C adapter <sup>31</sup>

### Battery

- HP Long Life 3-cell, 42 Wh Polymer <sup>32,33</sup>
- Supports HP Fast Charge (90% in 90 minutes) <sup>34</sup>

### Power Cord

- 2-wire plug - 1 m
- 3-wire plug - 1 m

### Battery life

- Up to 9 hours and 30 minutes <sup>35</sup>

### Battery Weight

- HP Long Life 3-cell - 42 Wh Polymer - .49 lb
- HP Long Life 3-cell - 42 Wh Polymer - 225g

31. Availability may vary by country.

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



### Technical Specifications

33. 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.

34. 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.

35. Windows 10 MM18 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See <http://www.bapco.com> for additional details.

---

### WEIGHTS & DIMENSIONS

#### Product Weight

Starting at 3.33 lb <sup>36</sup>

Starting at 1.51 kg <sup>36</sup>

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

11.7 x 8.02 x 0.84 in

29.7 x 20.37 x 2.12 cm

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

---

### PORTS/SLOTS

2 Super Speed USB Type-A 5Gbps signaling rate (USB 3.2 Gen 1)

1 SuperSpeed USB Type-C<sup>®</sup> 5 Gbps signaling rate port (USB Power Delivery, Alt-mode DisplayPort™ 1.4)

1 HDMI 1.4b <sup>37</sup>

1 RJ-45

1 AC power

1 headphone/microphone combo jack

37. HDMI cable sold separately.

### Technical Specifications

#### SERVICE AND SUPPORT

HP Services offers 1-year or 3-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>38</sup>

38. 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	
Integrated graphics	Yes
Discrete Graphics	N/A
Max Operating Power	UMA<45W

##### Temperature

Operating	32° to 95° F (0° to 35° C)
Non-operating	-4° to 140° F (-20° to 60° C)

##### Relative Humidity

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

##### Shock

Operating	40 G, 2 ms, half-sine
Non-operating	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 to 3,048 m)
Non-operating	-50 to 40,000 ft (-15 to 12,192 m)

##### Planned Industry Standard Certifications

Regulatory Model Number	HSN-I47C
UL	Yes
CSA	Yes
FCC Compliance	Yes
ENERGY STAR®	Yes <sup>39</sup>
EPEAT®	Registered Gold in United States <sup>40</sup>
ICES	Yes
Australia /	Yes
NZ A-Tick Compliance	Yes
CCC	Yes
Japan VCCI Compliance	Yes
KC	Yes
BSMI	Yes
CE Marking Compliance	Yes
BNCI or BELUS	Yes
CIT	Yes
GOST (EAC)	Yes
Saudi Arabian Compliance (ICCP)	Yes
SABS	Yes
UKRSERTCOMPUTER	Yes

39. Configurations of the HP Pro x360 Fortis 11 inch G10 that are ENERGY STAR® certified are identified HP Pro x360 Fortis 11 inch G10 ENERGY STAR on HP websites and on <http://www.energystar.gov>.

### Technical Specifications

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

#### 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.

<b>11.6 in HD (1366x768) Bright-View 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>Thickness</b>	3.0mm max
	<b>Interface</b>	eDP1.2
	<b>Surface Treatment</b>	Bright View glass
	<b>Touch Enabled</b>	Yes <sup>1</sup>
	<b>Contrast Ratio</b>	400:1 (typ)
	<b>Refresh Rate</b>	60Hz
	<b>Brightness</b>	250nits <sup>1</sup>
	<b>Pixel Resolution - Format</b>	RGB
	<b>Backlight</b>	WLED
	<b>Pixel Resolution</b>	1366 x 768 (HD)
	<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@150nits

<b>11.6 in HD (1366x768) Bright-View IPS 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 mm
	<b>Weight</b>	200g max.
	<b>Diagonal Size</b>	11.6"
	<b>Thickness</b>	3.0mm max
	<b>Interface</b>	eDP1.2
	<b>Surface Treatment</b>	Bright View glass
	<b>Touch Enabled</b>	Yes <sup>1</sup>
	<b>Contrast Ratio</b>	600:1 (typ)
	<b>Refresh Rate</b>	60Hz
	<b>Brightness</b>	250nits <sup>1</sup>
	<b>Pixel Resolution - Format</b>	RGB
	<b>Backlight</b>	WLED
	<b>Pixel Resolution</b>	1366 x 768 (HD)
	<b>Color Gamut Coverage</b>	50%NTSC

### Technical Specifications

<b>Color Depth</b>	6bits + Hi FRC
<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@150nits

---

### 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.

<b>SSD 128GB 2230 PCIe NVMe Value</b>	<b>Form Factor</b>	M.2 2230
	<b>Capacity</b>	128GB
	<b>NAND Type</b>	TLC
	<b>Height</b>	0.09 in (2.3 mm)
	<b>Width</b>	0.87 in (22 mm)
	<b>Weight</b>	0.01 lb (5 g)
	<b>Interface</b>	PCIe NVMe Gen3X4 or Gen3X2
	<b>Maximum Sequential Read</b>	Up To 2100 MB/s
	<b>Maximum Sequential Write</b>	Up To 1200 MB/s
	<b>Logical Blocks</b>	250,069,680
	<b>Operating Temperature</b>	32° to 158°F (0° to 70°C) [ambient temp]
	<b>Features</b>	Pyrite; TRIM; L1.2

<b>SSD 256GB 2230 PCIe NVMe Value</b>	<b>Form Factor</b>	M.2 2230
	<b>Capacity</b>	256GB
	<b>NAND Type</b>	TLC
	<b>Height</b>	0.09 in (2.3 mm)
	<b>Width</b>	0.87 in (22 mm)
	<b>Interface</b>	PCIe NVMe Gen3X4 or Gen3X2
	<b>Maximum Sequential Read</b>	Up To 2500 MB/s
	<b>Maximum Sequential Write</b>	Up To 1300 MB/s
	<b>Logical Blocks</b>	250,069,680
	<b>Operating Temperature</b>	32° to 158°F (0° to 70°C) [ambient temp]
	<b>Features</b>	Pyrite; TRIM; L1.2



### Technical Specifications

#### NETWORKING

Intel® AX211 Wi-Fi 6E<sup>1</sup>  
and Bluetooth® 5.2 M.2  
160MHz CNVi WW WLAN  
non-vPro®

**Wireless LAN Standards**

- IEEE 802.11a
- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n
- IEEE 802.11ac
- IEEE 802.11ax
- IEEE 802.11d
- IEEE 802.11e
- IEEE 802.11h
- IEEE 802.11i
- IEEE 802.11k
- IEEE 802.11r
- IEEE 802.11v

**Interoperability**

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 Models**

Ad-hoc (Peer to Peer)  
Infrastructure (Access Point Required)

**Roaming**

IEEE 802.11 compliant roaming between access points

**Output Power<sup>2</sup>**

- 802.11b : +17dBm minimum

### Technical Specifications

	<ul style="list-style-type: none"> <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 2. Type 1216: 1.67 x 12.0 x 16.0 mm
<b>Weight</b>	1. Type 2230 : 2.8g 2. Type 1216: 1.3g
<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

**Non-operating** 0 to 50,000 ft (15,240 m)

**LED Activity**

LED Amber – Radio OFF; LED Off – Radio ON

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

**Bluetooth Specification** 4.0/4.1/4.2/5.0/5.1/5.2 Compliant

**Frequency Band** 2402 to 2480 MHz

**Number of Available Channels** Legacy: 0~79 (1 MHz/CH)  
BLE: 0~39 (2 MHz/CH)

**Data Rates and Throughput** Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps  
BLE: 1 Mbps data rate; throughput up to 0.2 Mbps  
Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels  
Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

**Transmit Power** The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 9.5 dBm for BR and EDR.

1. 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. 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.
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

<p><b>Intel® 9560</b>  <b>802.11a/b/g/n/ac (2x2)</b>  <b>Wi-Fi® and Bluetooth® 5.0</b>  <b>Combo 1 non-vPro®</b></p>	<p><b>Wireless LAN Standards</b></p>	<p>IEEE 802.11a          IEEE 802.11b          IEEE 802.11g          IEEE 802.11n          IEEE 802.11ac          IEEE 802.11d          IEEE 802.11e          IEEE 802.11h          IEEE 802.11i          IEEE 802.11k          IEEE 802.11r          IEEE 802.11v</p>
	<p><b>Interoperability</b></p>	<p>Wi-Fi certified</p>
	<p><b>Frequency Band</b></p>	<ul style="list-style-type: none"> <li>•802.11b/g/n 2.402 – 2.482 GHz</li> <li>•802.11a/n/ac 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</li> </ul>
	<p><b>Data Rates</b></p>	<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: max 1733Mbps</li> </ul>
	<p><b>Modulation</b></p>	<p>Direct Sequence Spread Spectrum          BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM</p>
	<p><b>Security<sup>3</sup></b></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>
	<p><b>Network Architecture Models</b></p>	<p>Ad-hoc (Peer to Peer)          Infrastructure (Access Point Required)</p>
	<p><b>Roaming</b></p>	<p>IEEE 802.11 compliant roaming between access points</p>
	<p><b>Output Power<sup>2</sup></b></p>	<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> </ul>

### Technical Specifications

<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>• 802.11ac VHT160(5GHz): +10dBm minimum</li> <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/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(VHT80): -84dBm maximum</li> <li>• 802.11ac, MCS9(VHT80): -59dBm maximum</li> <li>• 802.11ac, MCS9(VHT160): -58.5dBm 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 with CNVi Interface				
<b>Dimensions</b>	<ol style="list-style-type: none"> <li>1. Type 2230: 2.3 x 22.0 x 30.0 mm</li> <li>2. Type 1216: 1.67 x 12.0 x 16.0 mm</li> </ol>				
<b>Weight</b>	<ol style="list-style-type: none"> <li>1. Type 2230: 2.8g</li> <li>2. Type 1216: 1.3g</li> </ol>				
<b>Operating Voltage</b>	3.3v +/- 9%				
<b>Temperature</b>	<table border="0"> <tr> <td style="padding-right: 10px;"><b>Operating</b></td> <td>14° to 158° F (-10° to 70° C)</td> </tr> <tr> <td><b>Non-operating</b></td> <td>-40° to 176° F (-40° to 80° C)</td> </tr> </table>	<b>Operating</b>	14° to 158° F (-10° to 70° C)	<b>Non-operating</b>	-40° to 176° F (-40° to 80° C)
<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>	<table border="0"> <tr> <td style="padding-right: 10px;"><b>Operating</b></td> <td>10% to 90% (non-condensing)</td> </tr> <tr> <td><b>Non-operating</b></td> <td>5% to 95% (non-condensing)</td> </tr> </table>	<b>Operating</b>	10% to 90% (non-condensing)	<b>Non-operating</b>	5% to 95% (non-condensing)
<b>Operating</b>	10% to 90% (non-condensing)				
<b>Non-operating</b>	5% to 95% (non-condensing)				
<b>Altitude</b>	<table border="0"> <tr> <td style="padding-right: 10px;"><b>Operating</b></td> <td>0 to 10,000 ft (3,048 m)</td> </tr> <tr> <td><b>Non-operating</b></td> <td>0 to 50,000 ft (15,240 m)</td> </tr> </table>	<b>Operating</b>	0 to 10,000 ft (3,048 m)	<b>Non-operating</b>	0 to 50,000 ft (15,240 m)
<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 Wireless Technology</b>					
<b>Bluetooth Specification</b>	4.0/4.1/4.2/5.0 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

**Transmit Power** 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.

1. Wi-Fi 5 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 5 (802.11 ac) is backwards compatible with prior 802.11 specs.
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).

<b>Realtek RTL8111HSH 10/100/1000 Integrated NIC</b>	<b>Ethernet Features</b>	10 Mbit/s operation (10BASE-T; IEEE 802.3; 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>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>Performance Features</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>Manageability</b>	Wake-on-LAN from standby and hibernation (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
	<b>Interface NIC Device Driver Name</b>	PCIe + SMBus Realtek PCIe GBE Ethernet Family Controller

### Technical Specifications

#### POWER

##### HP 45W Smart AC adapter

<b>Dimensions</b>	3.74 x 1.57 x 1.04 in (9.5 x 4.0 x 2.65 cm)
<b>Weight</b>	0.386 lb (175g) max
<b>Input</b>	90 to 265 VAC
<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>	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>	5 msec at 115 VAC input
<b>Output current limit</b>	<8.0A
<b>Connector</b>	4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords
<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 5000m)
<b>Humidity</b>	20% to 95%
<b>Storage Humidity</b>	10% to 95%
<b>EMI and Safety Certifications</b>	Eg. *CE Mark - full compliance with LVD and EMC directives *Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. *MTBF - over 200,000 hours at 25°C ambient condition.

##### HP 65W EM Smart AC adapter

<b>Dimensions</b>	102x55x30mm
<b>Weight</b>	270g +/- 10g
<b>Input</b>	
<b>Input Efficiency</b>	87% min at 115V/230V
<b>Input frequency range</b>	47 to 63 Hz
<b>Input AC current</b>	1.7 A at 90 VAC and maximum load
<b>Output</b>	
<b>Output power</b>	65W
<b>DC output</b>	65W (19.5V/3.33A)
<b>Hold-up time</b>	5 msec at 115 VAC input
<b>Output current limit</b>	<11A, Over voltage protection- 29V max automatic shutdown
<b>Connector</b>	4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords
<b>Environmental Design</b>	
<b>Operating temperature</b>	32° to 95° F (0° to 35° C)

### Technical Specifications

<b>Non-operating (storage) temperature</b>	-4° to 185° F (-20° to 85° C)
<b>Altitude</b>	0 to 16,400 ft (0 to 5000m)
<b>Humidity</b>	0% to 95%
<b>Storage Humidity</b>	0% to 95%
<b>EMI and Safety Certifications</b>	*CE Mark - EMC directives; Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE; Reliability - failure rate of less than 0.1% annually within the first three years of operation.

<b>HP 45W USB Type-C Straight 1.8m AC Adapter</b>	<b>Dimensions</b>	94.0mm x 40.0mm x 26.5mm
	<b>Weight</b>	192.5g +/-10%
	<b>Input</b>	
	<b>Input Efficiency</b>	Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec: 5V: 81.5% 9V: 86.7% 12V: 87.41% 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>	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° 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 5000m)
<b>Humidity</b>	20% to 95%	
<b>Storage Humidity</b>	10% to 95%	
<b>EMI and Safety Certifications</b>	Eg: *CE Mark - full compliance with LVD and EMC directives * Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. * MTBF - over 200,000 hours at 25°C ambient condition.	



### Technical Specifications

<b>AN 42Whr Long Life Polymer Fast Charge 3 cell Battery</b>	<b>Dimensions (H x W x L)</b>	H6.6mm Max; W67.8mm ±0.15; L249.5mm ±0.2
	<b>Weight</b>	225g Max
	<b>Cells/Type</b>	3 cell; Polymer
	<b>Energy</b>	
	<b>Voltage</b>	11.4V
	<b>Amp-hour capacity</b>	3.75Ah
	<b>Watt-hour capacity</b>	42.75Wh
	<b>Temperature</b>	5° to 40° C
	<b>Operating (Charging)</b>	0° to 45° C
	<b>Operating (Discharging)</b>	-10° to 60° C
	<b>Fuel Gauge LED</b>	NA
	<b>Warranty</b>	1000 cycles
	<b>Optional Travel Battery Available</b>	No

---

### Technical Specifications

#### AUDIO

<b>HD Stereo Codec</b>	Realtek ALC3247
<b>Audio I/O Ports</b>	CTIA only
<b>Internal Speaker Amplifier</b>	2W class D stereo amplifier for the internal speaker only
<b>Multi-streaming Capable</b>	Yes, follow Microsoft policy
<b>Sampling</b>	spk/headphone - 16/24bit, 48kHz microphone - 16bit/48kHz external - 16/24bit, 48kHz/44.1kHz
<b>Wavetable Syntheses</b>	2w/4ohm per speaker
<b>Analog Audio</b>	CTIA only
<b># of Channels on Line-Out</b>	N/A
<b>Internal Speaker</b>	YES

#### COUNTRY OF ORIGIN

China

### 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 + (1) 4K UHD (multi-function mode) 5120 x 2880 <sup>1</sup>
<b>Dock Connectors</b>	1xHDMI, 2xDP
<b>Technical limitations</b>	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.
<b>Docking station model #2</b>	HP USB-C Mini Dock
<b>Total number of supported displays (incl.the notebook display)</b>	1
<b>Max.resolutions supported</b>	Single 4K@30Hz (HDMI) or 2K@60Hz (VGA) <sup>1</sup>
<b>Dock Connectors</b>	1xHDMI, 1xVGA
<b>Technical limitations</b>	One display supported at a time
<b>Docking station model #3</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 3840 x 2160 <sup>1</sup>
<b>Dock Connectors</b>	1xHDMI, 2xDP
<b>Technical limitations</b>	The best resolution for dual or triple displays is 4K UHD@ 60Hz. For use with the USB-A adapter that comes in the box the maximum number of displays supported is (2) 4k x 60 Hz on the Type-A Gen 1 connection from the host. Best single display is with High Resolution mode using HDMI port.
<b>Docking station model #4</b>	HP USB-C Travel Dock G2
<b>Total number of supported displays (incl.the notebook display)</b>	1
<b>Max.resolutions supported</b>	Single 4K@ 30 Hz 4960 x 2160 (via HDMI) or 1920 x 1200@ 60Hz via VGA <sup>1</sup>
<b>Dock Connectors</b>	1xHDMI, 1xVGA
<b>Technical limitations</b>	Single external display using either HDMI or VGA.

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

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

Category	Description	Part Number
<b>Audio/Video</b>	HP Wired USB-A Stereo Headset	428K6AA
	HP Wired 3.5mm Stereo Headset	428K7AA
<b>Cases</b>	HP Always On 11.6 Black Case	1D3D0AA
	HP Business 13.3 Sleeve	2UW00AA
	HP Business 14.1 Sleeve	2UW01AA
	HP Business 15.6 Top Load	25C66AA
	HP Business Slim 14.1 Top Load	25C65AA
	HP Business Slim 17.3 Top Load	2UW02AA
	HP Executive 14.1 Tote	6KD10AA
	HP Executive 15.6 Backpack	6KD07AA
	HP Executive 15.6 Top Load	6KD06AA
	HP Executive 17.3 Backpack	6KD05AA
	HP Executive 17.3 Top Load	6KD08AA
	HP Executive Leather 15.6 Top Load	6KD09AA
	HP Executive Slim 14.1 Top Load	6KD04AA
	HP Prelude G2 15.6 Backpack	1E7D6AA
	HP Prelude G2 15.6 Top Load	1E7D7AA
	HP Prelude Pro Recycled 15.6 Backpack	1X644AA
	HP Prelude Pro Recycled 15.6 Top Load	1X645AA
	HP Renew 14 Laptop Sleeve	2E6U9AA, 2E6V0AA
	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 Reversible 11.6 Sleeve	7ZE81AA
	HP Reversible 13.3 Sleeve	7ZE82AA
	HP Mobility 11.6 Laptop	4U9G8AA
<b>Docking</b>	HP USB-C 120W G5 Dock	5TW10AA
	HP USB-C/A 120W G2 Universal Dock	5TW13AA
<b>Hub</b>	HP USB-C Mini Dock	1PM64AA
	HP Universal USB-C Multiport Hub	50H55AA
	HP USB-C Travel Dock G2	7PJ38AA
	HP USB-C to USB-A Hub	Z6A00AA
<b>Adapter</b>	HP HDMI to DVI Adapter	F5A28AA
	HP HDMI to VGA Adapter	H4F02AA
	HP USB-C to DisplayPort Adapter	N9K78AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to RJ45 Adapter	V7W66AA

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

	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to VGA Adapter	N9K76AA
<b>Keyboard/Combo</b>	HP 975 USB+Bluetooth Dual-Mode Wireless Keyboard	3Z726AA
	HP 455 Programmable Wireless Keyboard	4R177AA
	HP 125 WD USB Keyboard	266C9AA
	HP 320K WD USB Keyboard	9SR37AA
	HP 655 Wireless Keyboard and Mouse Combo	4R009AA
	HP 225 Wired Mouse and Keyboard Combo	286J4AA
	HP 235 Wireless Mouse and Keyboard Combo	1Y4D0AA
	HP Slim Wireless Keyboard and Mouse	T6L04AA
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
	HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165AA
<b>Mouse</b>	HP USB Premium Wireless Mouse	1JR31AA
	HP 435 Multi-Device Wireless Mouse	3B4Q5AA
	HP 125 USB-A Wired Mouse	265A9AA
	HP 128 USB Laser Wired Mouse	265D9AA
	HP 320M USB-A Wired Mouse	9VA80AA
	HP Creator USB-A+Bluetooth 935 Wireless Mouse Black	1D0K8AA
	HP USB-A+Bluetooth Multi-Device 635 Wireless Mouse Black	1D0K2AA
	HP USB-A+Bluetooth Travel Bluetooth Mouse	6SP30AA
<b>Pen Charger</b>	HP Rechargeable Pro Slim Pen Charger	4X491AA
<b>Power</b>	HP 65W USB-C Auto Chevy AC Power Adapter	5TQ76AA
	HP 45W 4.5 mm Smart AC Power Adapter	H6Y88AA
	HP 45W USB-C G2 Zeus AC Power Adapter	1HE07AA
	HP 45W USB-C LC Dali AC Power Adapter	1MZ01AA
	HP 65W 4.5 mm Smart AC Power Adapter	H6Y89AA
	HP 65W 4.5 mm wDongle 7.4 mm Slim AC Power Adapter	H6Y82AA
	HP 65W USB-C Hades AC Power Adapter	1HE08AA
	HP 65W USB-C LC AC Power Adapter	1P3K6AA
<b>Commodity</b>	HP USB DVD-Writer EXT ODD	F2B56AA
	HP Nano Keyed Cable Lock	1AJ39AA
	HP Nano Master Keyed Cable Lock	1AJ40AA
	HP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA

### Summary of Changes

Date of change:	Version History:	Updated	Description of change:
January 26, 2022	V1 to V2	Added	AI Noise Reduction Gen 2 in Software and Security section
February 15, 2022	V2 to V3	Updated	Displays
February 28, 2022	V3 to V4	Removed	HP 955 4K Webcam from Accessories section
March 4, 2022	V4 to V5	Added	Fast Charge in Battery section
April 11, 2022	V5 to V6	Added	Reference for USB ports
April 21, 2022	V6 to V7	Added	Battery Life and removed eMMC
	V7 to V8		

Copyright © 2022 HP Development Company, L.P. The only warranties for HP products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Intel, Celeron, Pentium, and Intel vPro are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. USB Type-C® and USB-C® are registered trademarks of USB Implementers Forum. SDXC is a registered trademark of SD-3C in the United States, other countries or both. ENERGY STAR is a registered trademark of the U.S. Environmental Protection Agency. All other trademarks are the property of their respective owners.