

### Overview

### HP 470 G8 Notebook PC



#### Left

1. Internal Microphone
2. Webcam LED
3. Webcam
4. Internal Microphone
5. Clickpad
6. Headphone/microphone combo jack
7. SuperSpeed USB Type-C® 5Gbps signaling rate (Data Transfer Only)
8. HDMI 1.4 (Cable sold separately)
9. SuperSpeed USB Type-A 5Gbps signaling rate

### Overview



#### Right

- |  |   |
|--|---|
| 1. Power Button                                | 4. Hard Drive LED                           |
| 2. Power Connector                             | 5. Power LED                                |
| 3. SuperSpeed USB Type- A 5Gbps signaling rate | 6. Touch Fingerprint Sensor (Select models) |

### Overview

#### At a Glance

- A new compact design with lift-anywhere edge and configurable all metal chassis
- Choice of 10<sup>th</sup> and 11th generation Intel® Core™ i7, i5 and i3 processors
- Preinstalled with Windows 10 versions or FreeDOS
- NVIDIA® GeForce® MX450 (2 GB DDR5 dedicated); NVIDIA® GeForce® MX330 (2 GB DDR5 dedicated)
- Fast and upgradeable dual channel DDR4 SODIMM memory up to 16 GB
- Choice of 17.3" diagonal HD, Ultra Wide Viewing Angle FHD, Non-Touch screen
- Features redesigned quiet and responsive HP Keyboard with the HP Programmable key and backlit options
- Choice of solid state drives up to 1TB
- TPM2.0, Touch Fingerprint reader
- Supports wireless options for connectivity on the go including gigabit-data rate Wi-Fi 6
- Battery Life up to 8 hours 30 minutes<sup>1</sup>

1. 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 [www.bapco.com](http://www.bapco.com) for additional details.

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

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### Technical Specifications

#### PRODUCT NAME

HP 470 G8 NOTEBOOK PC

#### OPERATING SYSTEMS

<b>Preinstalled</b>	Windows 10 Pro 64 – HP recommends Windows 10 Pro for business <sup>1</sup> Windows 10 Home 64 <sup>1</sup> Windows 10 Home Single Language 64 <sup>1</sup> FreeDOS
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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 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com/>.

#### PROCESSORS

Intel® Core™ i7-1065G7 processor (1.3 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores)<sup>2,3,4,5</sup>

Intel® Core™ i7-1165G7 processor (Up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 4 cores)<sup>2,3,4,5</sup>

Intel® Core™ i5-1035G1 with Intel® UHD Graphics (1.0 GHz base frequency, up to 3.6 GHz with Intel® Turbo Boost Technology, 6 MB L3 cache, 4 cores)<sup>2,3,4,5</sup>

Intel® Core™ i5-1135G7 (2.4 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores)<sup>2,3,4,5</sup>

Intel® Core™ i3-1005G1 with Intel® UHD Graphics (1.2 GHz base frequency, up to 3.4 GHz with Intel® Turbo Boost Technology, 4 MB L3 cache, 2 cores)<sup>2,3,4,5</sup>

Intel® Core™ i3-1115G4 with Intel® UHD Graphics (up to 4.1 GHz with Intel® Turbo Boost Technology, 6 MB L3 cache, 2 cores)<sup>2,3,4,5</sup>

Intel® Core™ i3-1125G4 with Intel® UHD Graphics (2.0 GHz base frequency, up to 3.7 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores)<sup>2,3,4,5</sup>

##### Processors Family

11th Generation Intel® Core™ i7 processor

10th Generation Intel® Core™ i7 processor

11th Generation Intel® Core™ i5 processor

10th Generation Intel® Core™ i5 processor

11th Generation Intel® Core™ i3 processor

10th Generation Intel® Core™ i3 processor

2. 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.

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

### Technical Specifications

4. Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost> for more information.

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>.

#### CHIPSET

Integrated with processor

#### GRAPHICS

##### Integrated

Intel® UHD Graphics <sup>6</sup>

Intel® Iris Plus Graphics <sup>6</sup>

Intel® Iris Xe Graphics <sup>6,7</sup>

##### Discrete

NVIDIA® GeForce® MX450 (2 GB DDR5 dedicated)

NVIDIA® GeForce® MX330 (2 GB DDR5 dedicated)

##### Supports

Support HD decode, DX12, HDMI 1.4b

6. HD content required to view HD images.

Integrated graphics depends on processor. NVIDIA® Optimus™ technology requires an Intel processor, plus an NVIDIA® GeForce® discrete graphics configuration and is available on Windows 10 Pro OS. With NVIDIA® Optimus™ technology, full enablement of all discrete graphics video and display features may not be supported on all systems (e.g. OpenGL applications will run on the integrated GPU or the APU as the case may be).

7. Intel® Iris® Xe Graphics capabilities require system to be configured with Intel® Core™ i5 or i7 processors and dual channel memory. Intel® Iris® Xe Graphics with Intel® Core™ i5 or 7 processors and single channel memory will only function as UHD graphics.

#### DISPLAYS

##### Internal

##### Non-Touch

43.9 cm (17.3") diagonal, HD+ (1600 x 900), Anti-Glare LED SVA, 250 nits, 60% NTSC, eDP 1.2 w/o PSR <sup>6,8</sup>

43.9 cm (17.3") diagonal, FHD (1920 x 1080), Anti-Glare LED UWVA, 250 nits, 45% NTSC, eDP 1.2 w/o PSR <sup>6,8</sup>

43.9 cm (17.3") diagonal FHD (1920 x 1080), Anti-Glare WLED UWVA, 300 nits, 72% UWVA eDP 1.4+PSR2 slim 60Hz  
Narrow Bezel <sup>6,7</sup>

##### Displays Support

HDMI v1.4b up to 1920x1080 60Hz

##### Display Size

17.3"

### Technical Specifications

43.9 cm (17.3")

6. HD content required to view HD images.

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

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### STORAGE AND DRIVES

#### Primary Storage

512 GB Intel® PCIe® NVMe™ QLC M.2 SSD with 32 GB Intel® Optane™ memory H10<sup>9</sup>

256 GB Intel® PCIe® NVMe™ QLC M.2 SSD with 16 GB Intel® Optane™ memory H10<sup>9</sup>

256 GB up to 1 TB PCIe® NVMe™ M.2 Value SSD TLC

128 GB PCIe® NVMe™ M.2 SSD TLC

128 GB PCIe® M.2 SSD + 1 TB 5400 rpm SATA <sup>10</sup>

256 GB PCIe® SSD + 1 TB 5400 rpm SATA <sup>10</sup>

512 GB PCIe® SSD + 1 TB 5400 rpm SATA <sup>10</sup>

500 GB up to 2 TB 5400 rpm SATA

**NOTE: All slots are customer non-accessible / non-upgradeable**

9. Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system. Requires 8th Gen or higher Intel® Core™ processor, BIOS version with Intel® Optane™ supported, Windows 10 64-bit, and an Intel® Rapid Storage Technology (Intel® RST) driver

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

### Technical Specifications

#### MEMORY

##### Maximum Memory

16 GB DDR4-3200 SDRAM <sup>11</sup>

##### Memory

16 GB DDR4-3200 SDRAM (2 x 8 GB) <sup>11</sup>

16 GB DDR4-2666 SDRAM (2 x 8 GB) <sup>11</sup>

12 GB DDR4-3200 SDRAM (1 x 8 + 1 x 4GB) <sup>11</sup>

12 GB DDR4-2666 SDRAM (1 x 8 + 1 x 4GB) <sup>11</sup>

8 GB DDR4-3200 SDRAM (1 x 8 GB) <sup>11</sup>

8 GB DDR4-2666 SDRAM (1 x 8 GB) <sup>11</sup>

8 GB DDR4-3200 SDRAM (2 x 4 GB) <sup>11</sup>

8 GB DDR4-2666 SDRAM (2 x 4 GB) <sup>11</sup>

4 GB DDR4-3200 SDRAM (1 x 4 GB) <sup>11</sup>

4 GB DDR4-2666 SDRAM (1 x 4 GB) <sup>11</sup>

##### Memory Slots

2 SODIMM

Both slots are customer non-accessible / non-upgradeable

Supports Dual Channel Memory

**NOTE: All slots are customer non-accessible / non-upgradeable**

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

#### NETWORKING/COMMUNICATIONS

##### WLAN

Intel® AX201 Wi-Fi 6 (2x2) and Bluetooth® 5 Combo, vPro™ <sup>12</sup>

Realtek 802.11a/b/g/n/ac (2x2) Wi-Fi® with Bluetooth® 5 Combo <sup>13</sup>

12. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 (802.11 ax) are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax devices.

13. 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.

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## Technical Specifications

### AUDIO/MULTIMEDIA

#### Audio

HP Far-field Cortana support  
HP Audio Center  
Support Alexa  
Dual Speakers  
Integrated dual array microphone

#### Camera

HP TrueVision HD webcam + Dual array digital microphone

#### Webcam

720p HD camera <sup>6</sup>

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

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

#### Keyboard

Island-style ash silver backlit keyboard with numeric keypad and touchpad with image sensor <sup>14</sup>  
Island-style ash silver keyboard with numeric keypad and Touchpad with image sensor

#### Pointing Device

Touchpad with multi-touch gesture support

#### Function Keys

ESC  
F1 – help  
F2 – Brightness Down  
F3 - Brightness Up  
F4 - Backlight Toggle  
F5 - Audio Mute  
F6 – Volume Down  
F7 – Volume Up  
F8 - Plays the previous track of an audio CD or the previous section of a DVD or a Blu-ray Disc (BD).  
F9 - Starts, pauses, or resumes playback of an audio CD, a DVD, or a BD  
F10 - Plays the next track of an audio CD or the next section of a DVD or a BD  
F11 – Display Switching  
F12 - Insert

[14. Backlit keyboard is an optional feature.](#)

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### Technical Specifications

#### SOFTWARE AND SECURITY

##### Software

HP Support Assistant<sup>15</sup>  
Native Miracast Support<sup>16</sup>

##### Security Management

TPM2.0<sup>17</sup>  
Fingerprint Reader  
Windows Defender<sup>18</sup>

15. HP Support Assistant requires Windows and Internet access.

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

17. Firmware TPM is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).

18. Windows Defender Opt In, Windows 10, and internet connection required for updates.

#### POWER

HP Smart 65 W External AC power adapter <sup>19</sup>  
HP Smart 45 W External AC power adapter <sup>19</sup>

##### Primary Battery

HP Long Life 3-cell, 41 Wh Li-ion <sup>20, 21</sup>

##### Power Cord

1M length Power Cord

##### Battery Life

Up to 8 hours 30 minutes<sup>21</sup>

19. Availability may vary by country.

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

21. Windows 10 MM14 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 4.6 lb <sup>22</sup>  
Starting at 2.085 kg <sup>22</sup>

##### Product Dimensions (w x d x h)

15.77 x 10.14 x 0.78 in  
40.07 x 25.78 x 1.99cm

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

### Technical Specifications

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#### PORTS/SLOTS

##### Ports

2 SuperSpeed USB Type-A 5Gbps signaling rate<sup>23</sup>

1 HDMI 1.4 <sup>24</sup>

1 SuperSpeed USB Type-C® 5Gbps signaling rate<sup>23</sup>

1 AC power

1 Headphone/microphone combo jack

##### Expansion Slots

Push-Pull Insertion/Removal

23. SuperSpeed USB 20Gbps is not available.

24. HDMI cable sold separately.

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#### SERVICE AND SUPPORT

HP Services offers 1-year limited warranties and 90-day software support 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>25</sup>

25. 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	19.5V
Average Operating Power	
Integrated graphics	7.69 W
Discrete Graphics	N/A (Switchable graphics design)
Max Operating Power	Discrete < 65W UMA < 45W

#### Temperature

Operating	32° to 95° F (0° to 35° C) (Not writing optical) 41° to 95° F (5° to 35° C) (Writing optical)
Non-operating	-4° to 140° F (-20° to 60° C)

#### Relative Humidity

Operating	10% to 90%, non-condensing
Non-operating	5% to 95%

#### Shock

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

#### Random Vibration

Operating	1.043 grms
Non-operating	3.5 grms

#### Altitude (unpressurized)

Operating	-15 m to 3048 m (-50 ft to 10000 ft)
Non-operating	-15 m to 12192 m (-50 ft to 40000 ft)

#### Planned Industry Standard Certifications

UL	Yes
CSA	No
FCC Compliance	Yes
ENERGY STAR®	ENERGY STAR® 8.0 <sup>26</sup>
EPEAT®	EPEAT® <sup>27</sup>
ICES	Yes
Australia	No
NZ A-Tick Compliance	No
CCC	Yes
Japan VCCI Compliance	No
KC	No
BSMI	Yes
CE Marking Compliance	Yes
BNCI or BELUS	No
CIT	No

## Technical Specifications

GOST	No
Saudi Arabian Compliance (ICCP)	No
SABS	No
UKRSERTCOMPUTER	No

26. Configurations of the HP 470 G8 Notebook PC that are ENERGY STAR® qualified are identified as HP 470 G8 Notebook PC ENERGY STAR on HP websites and on <http://www.energystar.gov>.

27. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information.

## DISPLAYS

<b>17.3 in FHD (1920 x 1080)</b> <b>Anti-Glare LED UWVA NTSC</b> <b>45% 250nits</b>	<b>Outline Dimensions (W x H x D)</b>	389.89 +/- 0.3mm x238.31 +/- 0.5mm (W/ PCB) 389.89 +/- 0.3mm x227.01 +/- 0.3mm (W/O PCB)
	<b>Active Area</b>	381.89 x 214.81
	<b>Weight</b>	500g max
	<b>Diagonal Size</b>	17.3 (inch)
	<b>Thickness</b>	3.5 (mm) max
	<b>Interface</b>	eDP 1.2
	<b>Surface Treatment</b>	Anti-glare (AG)
	<b>Touch Enabled</b>	No
	<b>Contrast Ratio</b>	800:1 - AG
	<b>Refresh Rate</b>	60 Hz
	<b>Brightness</b>	250 nits
	<b>Pixel Resolution</b>	1920 x 1080 (FHD)
	<b>Format</b>	RGB
	<b>Backlight</b>	LED
	<b>Color Gamut Coverage</b>	45%
<b>Color Depth</b>	8 bits	
<b>Viewing Angle</b>	UWVA 85/85/85/85	
<b>17.3 in HD+ (1600 x 900)</b> <b>Anti-Glare LED SVA NTSC</b> <b>60% 250nits</b>	<b>Outline Dimensions (W x H x D)</b>	389.88±0.3 (H)*227.02±0.3(V) (W/O PCB)*3.5 (Max) 389.88±0.3(H)*236.52±0.5(V) (W/PCB)*3.5(Max)
	<b>Active Area</b>	382.08 +/- 0.1 (H) x214.92 +/- 0.1(V)
	<b>Weight</b>	480 g max.
	<b>Diagonal Size</b>	17.3 (inch)
	<b>Thickness</b>	3.5 (mm) max.
	<b>Interface</b>	eDP 1.2
	<b>Surface Treatment</b>	Anti-glare (AG)
	<b>Touch Enabled</b>	No
	<b>Contrast Ratio</b>	500:1 - AG
	<b>Refresh Rate</b>	60 Hz
	<b>Brightness</b>	250 nit
	<b>Pixel Resolution</b>	1600 x 900 (HD+)

### Technical Specifications

<b>Format</b>	RGB
<b>Backlight</b>	LED
<b>Color Gamut Coverage</b>	60%
<b>Color Depth</b>	6 bits
<b>Viewing Angle</b>	45/45/20/40

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<b>17.3 in FHD (1920 x 1080) Anti-Glare WLED UWVA 72% cg 300nits</b>	<b>Outline Dimensions (W x H x D)</b>	399.95 x 251.01 mm max. (including PCB & bracket)
	<b>Active Area</b>	381.888 x 214.812
	<b>Weight</b>	550 g max.
	<b>Diagonal Size</b>	17.3 (inch)
	<b>Thickness</b>	4.0 mm max
	<b>Interface</b>	eDP 1.4
	<b>Surface Treatment</b>	Anti-glare (AG)
	<b>Touch Enabled</b>	No
	<b>Contrast Ratio</b>	600:1 - AG
	<b>Refresh Rate</b>	60 Hz
	<b>Brightness</b>	300 nit
	<b>Pixel Resolution</b>	1920 x 1080 (FHD)
	<b>Format</b>	RGB
	<b>Backlight</b>	LED
	<b>Color Gamut Coverage</b>	72%
	<b>Color Depth</b>	6 bits+Hi-FRC
	<b>Viewing Angle</b>	UWVA 85/85/85/85

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### Technical Specifications

#### STORAGE AND DRIVES

<b>500 GB 5400 rpm SATA Hard Drive</b>	<b>Drive Weight</b>	0.21 lbs (95 g)
	<b>Rotation speed</b>	5400 rpm
	<b>Cache Buffer</b>	Up to 128 MB
	<b>Height</b>	0.28 in (7 mm)
	<b>Width</b>	2.75 in (69.85 mm)
	<b>Interface</b>	ATA-8, SATA 3.0
	<b>Transfer Rate</b>	600 MB/s
	<b>Seek Time</b>	Single Track: 1.5 ms Average: 13 ms Maximum: 32 ms
	<b>Logical Blocks</b>	976,773,168
	<b>Operating Temperature</b>	0° to 60°C [Case temperature]
	<b>Security Features</b>	ATA Security
	<b>Features</b>	S.M.A.R.T., NCQ, Ultra DMA

<b>1 TB 5400 rpm SATA Hard Drive</b>	<b>Drive Weight</b>	0.21 lbs (95 g)
	<b>Rotation speed</b>	5400 rpm
	<b>Cache Buffer</b>	Up to 128 MB
	<b>Height</b>	0.28 in (7 mm)
	<b>Width</b>	2.75 in (69.85 mm)
	<b>Interface</b>	ATA-8, SATA 3.0
	<b>Transfer Rate</b>	600 MB/s
	<b>Seek Time</b>	Single Track: 1.5 ms Average: 13 ms Maximum: 32 ms
	<b>Logical Blocks</b>	1,953,525,168
	<b>Operating Temperature</b>	0° to 60°C [Case temperature]
	<b>Security Features</b>	ATA Security
	<b>Features</b>	S.M.A.R.T., NCQ, Ultra DMA

<b>2 TB 5400 rpm SATA Hard Drive</b>	<b>Drive Weight</b>	0.21 lbs (95g)
	<b>Rotation speed</b>	5400 rpm
	<b>Cache Buffer</b>	Up to 128 MB
	<b>Height</b>	0.28 in (7 mm)
	<b>Width</b>	2.75 in (69.85 mm)
	<b>Interface</b>	ATA-8, SATA 3.0
	<b>Transfer Rate</b>	600 MB/s
	<b>Seek Time</b>	Single Track: 1.5 ms

### Technical Specifications

	Average: 13 ms
	Maximum: 32 ms
<b>Logical Blocks</b>	3,907,029,168
<b>Operating Temperature</b>	0° to 60°C [Case temperature]
<b>Security Features</b>	ATA Security
<b>Features</b>	S.M.A.R.T., NCQ, Ultra DMA

<b>SSD 1TB 2280 PCIe NVMe Value</b>	<b>Form Factor</b>	M.2 2280
	<b>Capacity</b>	1 TB
	<b>NAND Type</b>	Value
	<b>Height</b>	0.09 in (2.3 mm)
	<b>Width</b>	0.87 in (22 mm)
	<b>Weight</b>	0.02 lb (10 g)
	<b>Interface</b>	PCIe NVMe Gen3x4
	<b>Maximum Sequential Read</b>	Up to 3500 MB/s
	<b>Maximum Sequential Write</b>	Up to 3100 MB/s
	<b>Logical Blocks</b>	2,000,409,264
	<b>Operating Temperature</b>	32° to 158°F (0° to 70°C) [ambient temp]
<b>Features</b>	ATA Security (Option)	

<b>SSD 256GB 2280 PCIe NVMe Value</b>	<b>Form Factor</b>	M.2 2280
	<b>Capacity</b>	256 GB
	<b>NAND Type</b>	Value
	<b>Height</b>	0.09 in (2.3 mm)
	<b>Width</b>	0.87 in (22 mm)
	<b>Weight</b>	0.02 lb (10 g)
	<b>Interface</b>	PCIe NVMe Gen3X4
	<b>Maximum Sequential Read</b>	Up to 3400 MB/s
	<b>Maximum Sequential Write</b>	Up to 2000 MB/s
	<b>Logical Blocks</b>	500,118,192
	<b>Operating Temperature</b>	32° to 158°F (0° to 70°C) [ambient temp]
<b>Features</b>	ATA Security (Option)	

<b>SSD 256GB 2280 PCIe-3x2x2 NVMe+SSD 16GB 3D Xpoint</b>	<b>Form Factor</b>	M.2 2280
	<b>Capacity</b>	256 GB
	<b>NAND Type</b>	QLC+3D XPoint
	<b>Height</b>	0.09 in (2.3 mm)
	<b>Width</b>	0.87 in (22 mm)

### Technical Specifications

<b>Weight</b>	0.02 lb (10 g)
<b>Interface</b>	PCIe NVMe Gen3X2X2
<b>Maximum Sequential Read</b>	Up to 1450 MB/s
<b>Maximum Sequential Write</b>	Up to 500 MB/s
<b>Logical Blocks</b>	500,118,192
<b>Operating Temperature</b>	32° to 158°F (0° to 70°C) [ambient temp]
<b>Features</b>	ATA Security

#### SSD 512GB 2280 PCIe NVMe Value

<b>Form Factor</b>	M.2 2280
<b>Capacity</b>	512 GB
<b>NAND Type</b>	Value
<b>Height</b>	0.09 in (2.3 mm)
<b>Width</b>	0.87 in (22 mm)
<b>Weight</b>	0.02 lb (10 g)
<b>Interface</b>	PCIe NVMe Gen3X4
<b>Maximum Sequential Read</b>	Up to 3500 MB/s
<b>Maximum Sequential Write</b>	Up to 3000 MB/s
<b>Logical Blocks</b>	1,000,215,216
<b>Operating Temperature</b>	32° to 158°F (0° to 70°C) [ambient temp]
<b>Features</b>	ATA Security (Option)

#### SSD 512GB 2280 PCIe-3x2x2 NVMe+SSD 32GB 3D Xpoint

<b>Form Factor</b>	M.2 2280
<b>Capacity</b>	512 GB
<b>NAND Type</b>	QLC+3D XPoint
<b>Height</b>	0.09 in (2.3 mm)
<b>Width</b>	0.87 in (22 mm)
<b>Weight</b>	0.02 lb (10 g)
<b>Interface</b>	PCIe NVMe Gen3X2X2
<b>Maximum Sequential Read</b>	Up to 2400 MB/s
<b>Maximum Sequential Write</b>	Up to 1300 MB/s
<b>Logical Blocks</b>	1,000,215,215
<b>Operating Temperature</b>	32° to 158°F (0° to 70°C) [ambient temp]
<b>Features</b>	ATA Security



### Technical Specifications

<b>SSD 128GB 2280 PCIe-3x2 Three Layer Cell</b>	<b>Form Factor</b>	M.2 2280
	<b>Capacity</b>	128 GB
	<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>	0.02 lb (10 g)
	<b>Interface</b>	PCIe NVMe Gen3X4
	<b>Maximum Sequential Read</b>	1400-2100
	<b>Maximum Sequential Write</b>	800-1200
	<b>Logical Blocks</b>	250,069,680
	<b>Operating Temperature</b>	32° to 158°F (0° to 70°C) [ambient temp]
	<b>Features</b>	ATA Security (Option)

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### Technical Specifications

#### NETWORKING/COMMUNICATIONS

<p><b>Intel® Wi-Fi 6 AX201 + Bluetooth® 5 (802.11ax 2x2 supporting gigabit data rate) (non-vPro®)<sup>1,5</sup></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 802.11ax            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/ax 2.402 – 2.482 GHz</li> <li>• 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</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: MCS 0 ~ MCS 15, (20MHz, and 40MHz)</li> <li>• 802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, ,80MHz &amp; 160MHz)</li> <li>• 802.11ax: MCS0 ~ MCS11, (1SS and 2SS) (20MHz, 40MHz, ,80MHz &amp; 160MHz)</li> </ul>
	<p><b>Modulation</b></p>	<p>Direct Sequence Spread Spectrum            OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM</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>

### Technical Specifications

<b>Output Power<sup>2</sup></b>	<ul style="list-style-type: none"> <li>• 802.11b : +17dBm minimum</li> <li>• 802.11g : +16dBm minimum</li> <li>• 802.11a : +17dBm minimum</li> <li>• 802.11n HT20(2.4GHz) : +14dBm minimum</li> <li>• 802.11n HT40(2.4GHz) : +13dBm minimum</li> <li>• 802.11n HT20(5GHz) : +14dBm minimum</li> <li>• 802.11n HT40(5GHz) : +13dBm minimum</li> <li>• 802.11ac VHT80(5GHz) : +10dBm minimum</li> <li>• 802.11ac VHT160(5GHz) : +10dBm minimum</li> <li>• 802.11ax HE40(2.4GHz) : +12dBm minimum</li> <li>• 802.11ax HE80(5GHz) : +10dBm minimum</li> <li>• 802.11ax HE160(5GHz) : +10dBm minimum</li> </ul>				
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>• Transmit mode 2.0 W</li> <li>• Receive mode 1.6 W</li> <li>• Idle mode (PSP) 180 mW (WLAN Associated)</li> <li>• Idle mode 50 mW (WLAN unassociated)</li> <li>• Connected Standby 10mW</li> <li>• Radio disabled 8 mW</li> </ul>				
<b>Power Management</b>	ACPI and PCI Express compliant power management 802.11 compliant power saving mode				
<b>Receiver Sensitivity<sup>4</sup></b>	<ul style="list-style-type: none"> <li>• 802.11b, 1Mbps: -93.5dBm maximum</li> <li>• 802.11b, 11Mbps: -84dBm maximum</li> <li>• 802.11a/g, 6Mbps: -86dBm maximum</li> <li>• 802.11a/g, 54Mbps: -72dBm maximum</li> <li>• 802.11n, MCS07: -67dBm maximum</li> <li>• 802.11n, MCS15: -64dBm maximum</li> <li>• 802.11ac, MCS0(VHT80): -84dBm maximum</li> <li>• 802.11ac, MCS9(VHT80): -59dBm maximum</li> <li>• 802.11ac, MCS9(VHT160): -58.5dBm maximum</li> <li>• 802.11ax, MCS11(HE40): -57dBm maximum</li> <li>• 802.11ax, MCS11(HE80): -54dBm maximum</li> <li>• 802.11ax, MCS11(HE160): -53.5dBm maximum</li> </ul>				
<b>Antenna type</b>	High efficiency antenna with spatial diversity, mounted in the display enclosure. Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth® communications				
<b>Form Factor</b>	PCI-Express M.2 MiniCard 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: 2.8 g</li> <li>2. Type 126: 1.3 g</li> </ol>				
<b>Operating Voltage</b>	3.3v +/- 9%				
<b>Temperature</b>	<table> <tr> <td><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)				

### Technical Specifications

<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	

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

<b>Bluetooth Specification</b>	4.0/4.1/4.2/5.0/5.1 Compliant
<b>Frequency Band</b>	2402 to 2480 MHz
<b>Number of Available Channels</b>	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)
<b>Data Rates and Throughput</b>	Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps BLE: 1 Mbps data rate; throughput up to 0.2 Mbps Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)
<b>Transmit Power</b>	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 9.5 dBm for BR and EDR.

1. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 (802.11ax) are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax devices. Only available in countries where 802.11ax 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).
5. Wi-Fi 5 or 6 is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.

<b>Realtek RTL8822CE 802.11ac 2x2 Wi-Fi® + Bluetooth® 5<sup>1</sup></b>	<b>Wireless LAN Standards</b>	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

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 Technical Specifications

	IEEE 802.11v
<b>Interoperability</b>	Wi-Fi® certified modules
<b>Frequency Band</b>	<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>
<b>Data Rates</b>	<ul style="list-style-type: none"> <li>• 802.11b: 1, 2, 5.5, 11 Mbps</li> <li>• 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>• 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>• 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)</li> <li>• 802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz &amp; 80MHz)</li> </ul>
<b>Modulation</b>	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
<b>Security<sup>3</sup></b>	<ul style="list-style-type: none"> <li>• IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g mode only</li> <li>• AES-CCMP: 128 bit in hardware</li> <li>• 802.1x authentication</li> <li>• WPA, WPA2: 802.1x, WPA-PSK, WPA2-PSK, TKIP, and AES.</li> <li>• WPA2 certification</li> <li>• WPA3 certification</li> <li>• IEEE 802.11i</li> <li>• WAPI</li> </ul>
<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
<b>Roaming</b>	IEEE 802.11 compliant roaming between access points
<b>Output Power<sup>2</sup></b>	<ul style="list-style-type: none"> <li>• 802.11b: +18.5dBm minimum</li> <li>• 802.11g: +17.5dBm minimum</li> <li>• 802.11a: +18.5dBm minimum</li> <li>• 802.11n HT20(2.4GHz): +15.5dBm minimum</li> <li>• 802.11n HT40(2.4GHz): +14.5dBm minimum</li> <li>• 802.11n HT20(5GHz): +15.5dBm minimum</li> <li>• 802.11n HT40(5GHz): +14.5dBm minimum</li> <li>• 802.11ac VHT80(5GHz): +11.5dBm 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/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> </ul>

### Technical Specifications

	<ul style="list-style-type: none"> <li>• 802.11b, 11Mbps: -84dBm maximum</li> <li>• 802.11a/g, 6Mbps: -86dBm maximum</li> <li>• 802.11a/g, 54Mbps: -72dBm maximum</li> <li>• 802.11n, MCS07: -67dBm maximum</li> <li>• 802.11n, MCS15: -64dBm maximum</li> <li>• 802.11ac, MCS0: -84dBm maximum</li> <li>• 802.11ac, MCS9: -59dBm maximum"</li> </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: 2.8 g 2. Type 126: 1.3 g
<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

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

<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>Signaling Data Rate</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 + 4 dBm for BR and EDR.

1. 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.

### Technical Specifications

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).
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### Technical Specifications

#### POWER

<b>HP 65W AC Adapter 65 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.0 m</b>	<b>Dimensions (H x W x D)</b>	3.54x2.0x1.12in (9.0x5.1x2.85cm)	
	<b>Weight</b>	0.5lbs(230g)	
	<b>Input</b>	100 to 240 VAC	
	<b>Output</b>	<b>Input Efficiency</b>	88.0 % at 115 Vac and 89.0 % at 230Vac
		<b>Input frequency range</b>	47 ~ 63 Hz
		<b>Input AC current</b>	Max. 1.7 A at 90 VAC
		<b>Output power</b>	65 W
		<b>DC output</b>	19.5 V
		<b>Hold-up time</b>	5 msec at 115 V input
		<b>Output current limit</b>	<11.0A 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°F to 95°F (0°C to 35°C)
		<b>Non-operating (storage) temperature</b>	-4°F to 185°F (-20°C to 85°C)
<b>Altitude</b>		1 to 16,400 ft (0 to 5000 m)	
<b>Humidity</b>		20% to 95%	
<b>Storage Humidity</b>		10% to 95%	
<b>EMI and Safety Certifications</b>	CE Mark - full compliance with LVD and EMC directives. Worldwide safety standards - IEC60950, 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.		

<b>45 W AC adapter AC Adapter 45 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.0 m</b>	<b>Dimensions</b>	3.74x1.77x1.05in (9.5x4.5x2.68cm)	
	<b>Weight</b>	0.44lbs(200g)	
	<b>Input</b>	100 to 240 VAC	
	<b>Output</b>	<b>Input Efficiency</b>	87.74 % at 115 Vac and 88.4 % at 230Vac
		<b>Input frequency range</b>	47 ~ 63 Hz
		<b>Input AC current</b>	Max. 1.4 A at 90 Vac
		<b>Output power</b>	45 W
		<b>DC output</b>	19.5 V
		<b>Hold-up time</b>	5 ms at 115 VAC input
		<b>Output current limit</b>	<11.0A 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°F to 95°F (0° to 35°C)



### Technical Specifications

**Non-operating (storage) temperature** -4°F to 185°F (-20° to 85°C)

**Altitude** 1 to 16,400 ft (0 to 5000m)

**Humidity** 20% to 95%

**Storage Humidity** 10% to 95%

**EMI and Safety Certifications**

CE Mark – full compliance with LVD and EMC directives.  
 Worldwide safety standards – IEC60950, 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.

<b>HP 3-cell Long Life Li-Ion (41 Wh)</b>	<b>Dimensions</b>	6 x 186.85 x 90.2 mm (0.236 x 7.35 x 3.55 inch)
	<b>Weight</b>	0.175 kg (0.38 lb)
	<b>Cells/Type</b>	3cell Lithium-Ion Polymer cell / 515974
	<b>Voltage</b>	11.28V /11.34V
	<b>Amp-hour capacity</b>	3.635Ah / 3.62Ah
	<b>Watt-hour capacity</b>	41 Wh <sup>1</sup>
	<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>Fuel Gauge LED</b>	N/A
	<b>Warranty</b>	1-year
	<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.

### Technical Specifications

#### **Fingerprint Reader<sup>1</sup>**

Model: Elan eFSA80ST touch sensor  
Mobile Voltage Operation: 2.65V to 3.6V  
Operating Temperature: 32° to 95° F (0° to 35° C)  
Current Consumption Image: 50mA peak  
Low Latency Wait For Finger: <900 uA  
Capture Rate: 20cm/sec  
ESD Resistance: IEC 61000-4-2 (+15KV)  
Detection Matrix: 508 dpi / 4x4mm sensor area  
FRR (False Reject Rate) / FAR (False Acceptance Rate): FRR ~ 2% @ 1:50K FAR

1. HP Fingerprint Sensor is as an optional feature.

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#### **Country of Origin**

China

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

Type	Description	Part Number
<b>Cases</b>	HP Executive 17.3 Backpack	6KD05AA
	HP Executive 17.3 Top Load	6KD08AA
	Renew Business 17" Backpack BULK	3E2U5A6
	Renew Business 17" Backpack	3E2U5AA
	Renew Business 17" Bag	3E2U6AA
<b>Docks</b>	HP USB-C/A 120W G2 Universal Dock	5TW13AA, 5TW13ET, 5TW13UT
	HP Wireless USB Premium Keyboard	Z9N41AA, Z9N41AT
	HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165AA, 3M165UT
	HP 235 WL Mouse and Keyboard Combo	1Y4D0AA, 1Y4D0UT
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA, 9SR36UT, 9SR36ET
	HP Wired Desktop 320K Keyboard	9SR37AA, 9SR37UT, 9SR37ET
	HP Wired Desktop 320M Mouse	9VA80AA, 9VA80UT, 9VA80ET
	HP 125 Wired Keyboard	266C9AA, 266C9UT, 266C9ET
	HP 225 Wired Mouse and Keyboard Combo	286J4AA, 286J4UT, 286J4ET
	HP Wired Mouse	265A9AA, 265A9UT, 265A9ET
	HP LSR Wired Mouse	265D9AA, 265D9UT, 265D9ET
	HP Bluetooth Fingerprint Reader USB Mouse	4TS44AA, 4TS44UT, 4TS44ET
	HP Bluetooth Travel Bluetooth Mouse	6SP30AA, 6SP30UT, 6SP30ET
	HP Comfort Grip USB Wireless Mouse	H2L63AA, H2L63UT
	HP Presenter Bluetooth 4.2 Bluetooth Mouse	2CE30AA, 2CE30UT, 2CE30ET
	HP USB 320M Wired Mouse	9VA80AA, 9VA80UT, 9VA80ET
	HP USB Premium USB Mouse	1JR32AA#ABA, 1JR32UT
	HP USB Premium Wireless Mouse	1JR31AA, 1JR31UT
	HP USB Travel USB Mouse	G1K28AA, G1K28ET
	HP Multi-Device 635 Black Wireless Mouse	1DOK2AA
	HP Creator 935 Black Wireless Mouse	1DOK8AA
	HP HDMI to VGA Adapter	H4F02AA, H4F02UT, H4F02ET
	HP USB-C to RJ45 Adapter	V8Y76AA, V7W66AA, V7W66UT
	HP USB-C to USB-A Adapter	N2Z63AA, N2Z63UT
	HP 4.5 mm and USB-C Dock Adapter G2	6LX61AA
	HP USB-C to HDMI 2.0 Adapter	2PC54AA, 1WC36UT, 1WC36AA
	HP USB-C to RJ45 Adapter	V8Y76AA, V7W66AA, V7W66UT
	HP USB-C to DisplayPort Adapter	N9K78AA, N9K78UT
	HP USB-C to VGA Adapter	P7Z54AA, N9K76AA, N9K76UT
	HP USB-C to 4.5mm Adapter	4ST73AA
	HP USB 3.0 to Gigabit Adapter	N7P47AA
	HP HDMI to DVI Adapter	F5A28AA
<b>Power</b>	HP 65W 4.5 mm wDongle 7.4 mm Slim AC Power Adapter	H6Y82AA, H6Y82UTH6Y89AA,
	HP 65W Smart Power Adapter (w/ 4.5mm to 7.5mm DC dongle)	H6Y89UT, H6Y89ET

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

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<b>Storage</b>	HP 65W 4.5 mm Smart AC Power Adapter	H6Y89AA, H6Y89UT, H6Y89ET
	HP USB DVD-Writer EXT ODD	Y3T76AA, F2B56AA, F2B56UT, F2B56ET

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### Summary of Changes

Date of change:	Version History:		Description of change:
	From V1 to V2		

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