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 (USB 3.2 Gen 1)

Overview



Right

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

Overview

At a Glance

- Windows 11 Pro, other Windows OS, or FreeDOS preinstalled
- A new compact design with lift-anywhere edge and configurable all metal chassis
- Choice of 10th and 11th generation Intel® Core™ i7, i5 and i3 processors
- 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 minutes¹

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 http://www.bapco.com for additional details.

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



Technical Specifications

PRODUCT NAME

HP 470 G8 NOTEBOOK PC

OPERATING SYSTEMS

Preinstalled Windows 11 Pro ²

Windows 11 Home – HP recommends Windows 11 Pro for business ²

Windows 11 Home Single Language – HP recommends Windows 11 Pro for business ²

Windows 10 Pro 1,2

Windows 10 Home – HP recommends Windows 11 Pro for business 1,2

Windows 10 Home Single Language – HP recommends Windows 11 Pro for business 1,2

FreeDOS

- 1. Device comes with Windows 10 and a free Windows 11 upgrade or may be preloaded with Windows 11. Upgrade timing may vary by device. Features and app availability may vary by region. Certain features require specific hardware (see Windows 11 Specifications).
- 2. 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.

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) ^{2,3,4,5}

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

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) ^{2,3,4,5}

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) ^{2,3,4,5}

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) ^{2,3,4,5}

Intel® Core™ i3-1115G4 with Intel® UHD Graphics (up to 4.1 GHz with Intel® Turbo Boost Technology,

6 MB L3 cache, 2 cores) 2,3,4,5

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) ^{2,3,4,5}

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



HP 470 G8 Notebook PC

QuickSpecs

Technical Specifications

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.
- 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 ⁶
Intel® Iris Plus Graphics ⁶
Intel® Iris Xe Graphics ^{6,7}

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 ^{6,8}



Technical Specifications

43.9 cm (17.3") diagonal, FHD (1920 x 1080), Anti-Glare LED UWVA, 250 nits, 45% NTSC, eDP 1.2 w/o PSR 6,8 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 6,7

Displays Support

HDMI v1.4b up to 1920x1080 60Hz

Display Size

17.3" 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.

STORAGE AND DRIVES

Primary Storage

512 GB Intel® PCIe® NVMe™ QLC M.2 SSD with 32 GB Intel® Optane™ memory H10⁹
256 GB Intel® PCIe® NVMe™ QLC M.2 SSD with 16 GB Intel® Optane™ memory H10⁹
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 ¹⁰
256 GB PCIe® SSD + 1 TB 5400 rpm SATA ¹⁰
512 GB PCIe® SSD + 1 TB 5400 rpm SATA ¹⁰
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 11

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 DDR4-3200 SDRAM (2 x 4 GB) <sup>11</sup>
4 GB DDR4-3200 SDRAM (1 x 4 GB) <sup>11</sup>
4 GB DDR4-3200 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™ 12
Realtek 802.11a/b/g/n/ac (2x2) Wi-Fi® with Bluetooth® 5 Combo 13

- 12. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs.
- 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.

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 6

6. HD content required to view HD images.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

Island-style ash silver backlit keyboard with numeric keypad and touchpad with image sensor ¹⁴ 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.



SOFTWARE AND SECURITY

Software

HP Support Assistant¹⁵ Native Miracast Support¹⁶

Security Management

TPM2.0¹⁷ Fingerprint Reader Windows Defender¹⁸

- 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 ¹⁹ HP Smart 45 W External AC power adapter ¹⁹

Primary Battery

HP Long Life 3-cell, 41 Wh Li-ion 20, 21, 28

Power Cord

1M length Power Cord

Battery Life

Up to 8 hours 30 minutes²¹

- 19. Availability may vary by country.
- 20. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 21. 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.
- 28. 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

WEIGHTS & DIMENSIONS

Product Weight

Starting at 4.6 lb ²² Starting at 2.085 kg ²²

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.

PORTS/SLOTS

Ports

2 SuperSpeed USB Type-A 5Gbps signaling rate (USB 3.2 Gen 1)²³

- 1 HDMI 1.4 24
- 1 SuperSpeed USB Type-C® 5Gbps signaling rate²³
- 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.

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.25

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)

No

Planned Industry Standard

Certifications

UL Yes
CSA No
FCC Compliance Yes

ENERGY STAR® ENERGY STAR® 8.0²⁶

EPEAT® EPEAT® 27

ICES Yes Australia Nο NZ A-Tick Compliance No CCCYes Japan VCCI Compliance No KC No **BSMI** Yes **CE Marking Compliance** Yes



BNCI or BELUS

Technical Specifications

CIT No
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 for more information.

DISPLAYS

17.3 in FHD (1920 x 1080) Anti-Glare LED UWVA NTSC 45% 250nits **Outline Dimensions (W x H x D)** 389.89 +/- 0.3mm x238.31 +/- 0.5mm (W/ PCB)

389.89 +/- 0.3mm x227.01 +/- 0.3mm (W/O PCB)

Active Area 381.89 x 214.81

Weight 500g max

Diagonal Size 17.3 (inch)

Thickness 3.5 (mm) max

Interface eDP 1.2

Surface Treatment Anti-glare (AG)

Touch Enabled No

Contrast Ratio800:1 - AGRefresh Rate60 HzBrightness250 nits

Pixel Resolution 1920 x 1080 (FHD)

Format RGB
Backlight LED
Color Gamut Coverage 45%
Color Depth 8 bits

Viewing Angle UWVA 85/85/85

17.3 in HD+ (1600 x 900) Anti-Glare LED SVA NTSC 60% 250nits Outline Dimensions (W x H x D) 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)

Active Area 382.08 +/- 0.1 (H) x214.92 +/- 0.1(V)

Weight480 g max.Diagonal Size17.3 (inch)Thickness3.5 (mm) max.InterfaceeDP 1.2

Surface Treatment Anti-glare (AG)

Touch Enabled No

Contrast Ratio500:1 - AGRefresh Rate60 HzBrightness250 nit



Technical Specifications

Pixel Resolution 1600 x 900 (HD+)

Format RGB
Backlight LED
Color Gamut Coverage 60%
Color Depth 6 bits

Viewing Angle 45/45/20/40

17.3 in FHD (1920 x 1080) Anti-Glare WLED UWVA 72% cg 300nits Outline Dimensions (W x H x D) 399.95 x 251.01 mm max. (including PCB & bracket)

Active Area 381.888 x 214.812

Weight550 g max.Diagonal Size17.3 (inch)Thickness4.0 mm maxInterfaceeDP 1.4

Surface Treatment Anti-glare (AG)

Touch Enabled No

Contrast Ratio600:1 - AGRefresh Rate60 HzBrightness300 nit

Pixel Resolution 1920 x 1080 (FHD)

Format RGB
Backlight LED
Color Gamut Coverage 72%

Color Depth6 bits+Hi-FRCViewing AngleUWVA 85/85/85/85



Technical Specifications

STORAGE AND DRIVES

500 GB 5400 rpm SATA Hard Drive Drive Weight0.21 lbs (95 g)Rotation speed5400 rpmCache BufferUp to 128 MBHeight0.28 in (7 mm)Width2.75 in (69.85 mm)InterfaceATA-8, SATA 3.0

Transfer Rate 600 MB/s

Seek Time Single Track: 1.5 ms

Average: 13 ms Maximum: 32 ms

Logical Blocks 976,773,168

Operating Temperature 0° to 60°C [Case temperature]

Security Features ATA Security

Features S.M.A.R.T., NCQ, Ultra DMA

1 TB 5400 rpm SATA Hard Drive Drive Weight 0.21 lbs (95 g)

Rotation speed 5400 rpm

Cache Buffer Up to 128 MB

Height 0.28 in (7 mm)

Width 2.75 in (69.85 mm)

Interface ATA-8, SATA 3.0

Transfer Rate 600 MB/s

Seek Time Single Track: 1.5 ms

Average: 13 ms Maximum: 32 ms

Logical Blocks 1,953,525,168

Operating Temperature 0° to 60°C [Case temperature]

Security Features ATA Security

Features S.M.A.R.T., NCQ, Ultra DMA

2 TB 5400 rpm SATA Hard Drive Drive Weight 0.21 lbs (95g)

Rotation speed 5400 rpm

Cache Buffer Up to 128 MB

Height 0.28 in (7 mm)

Width 2.75 in (69.85 mm)

Interface ATA-8, SATA 3.0

Transfer Rate 600 MB/s



Seek Time Single Track: 1.5 ms

> Average: 13 ms Maximum: 32 ms

Logical Blocks 3,907,029,168

0° to 60°C [Case temperature] **Operating Temperature**

Security Features ATA Security

Features S.M.A.R.T., NCQ, Ultra DMA

SSD 1TB 2280 PCIe NVMe

Value

Form Factor M.2 2280 Capacity 1 TB **NAND Type** Value

Height 0.09 in (2.3 mm) Width 0.87 in (22 mm) Weight 0.02 lb (10 g) Interface PCIe NVMe Gen3x4 **Maximum Sequential Read** Up to 3500 MB/s **Maximum Sequential Write** Up to 3100 MB/s **Logical Blocks** 2,000,409,264

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features ATA Security (Option)

SSD 256GB 2280 PCIe **NVMe Value**

Form Factor Capacity **NAND Type**

M.2 2280 256 GB Value 0.09 in (2.3 mm) Height Width 0.87 in (22 mm)

Weight 0.02 lb (10 q) PCIe NVMe Gen3X4 Interface **Maximum Sequential Read** Up to 3400 MB/s **Maximum Sequential Write** Up to 2000 MB/s **Logical Blocks** 500,118,192

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features ATA Security (Option)

SSD 256GB 2280 PCIe-3x2x2 NVMe+SSD 16GB **3D Xpoint**

Form Factor M.2 2280 Capacity 256 GB

NAND Type QLC+3D XPoint Height 0.09 in (2.3 mm)

Technical Specifications

 Width
 0.87 in (22 mm)

 Weight
 0.02 lb (10 g)

InterfacePCIe NVMe Gen3X2X2Maximum Sequential ReadUp to 1450 MB/sMaximum Sequential WriteUp to 500 MB/sLogical Blocks500,118,192

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features ATA Security

SSD 512GB 2280 PCIe NVMe Value Form Factor M.2 2280
Capacity 512 GB
NAND Type Value

Height0.09 in (2.3 mm)Width0.87 in (22 mm)Weight0.02 lb (10 g)InterfacePCle NVMe Gen3X4Maximum Sequential ReadUp to 3500 MB/sMaximum Sequential WriteUp to 3000 MB/s

Logical Blocks 1,000,215,216

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features ATA Security (Option)

SSD 512GB 2280 PCle-3x2x2 NVMe+SSD 32GB 3D Xpoint Form Factor M.2 2280 Capacity 512 GB

 NAND Type
 QLC+3D XPoint

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Weight
 0.02 lb (10 g)

InterfacePCIe NVMe Gen3X2X2Maximum Sequential ReadUp to 2400 MB/sMaximum Sequential WriteUp to 1300 MB/sLogical Blocks1,000,215,215

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features ATA Security

Technical Specifications

SSD 128GB 2280 PCie-3x2 Three Layer Cell Form Factor M.2 2280
Capacity 128 GB
NAND Type TLC

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Weight
 0.02 lb (10 g)

 Interface
 PCIe NVMe Gen3X4

Maximum Sequential Read1400-2100Maximum Sequential Write800-1200Logical Blocks250,069,680

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features ATA Security (Option)



HP 470 G8 Notebook PC

QuickSpecs

Technical Specifications

NETWORKING/COMMUNICATIONS

Intel® Wi-Fi 6 AX201 +			
Bluetooth® 5 (802.11ax			
2x2 supporting gigabit			
data rate) (non-vPro®) ^{1,5}			

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 802.11b
IEEE 802.11t
IEEE 802.11h
IEEE 802.11i
IEEE 802.11k
IEEE 802.11r

IEEE 802.11v Wi-Fi CERTIFIED™

Interoperability

• 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

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: MCS 0 ~ MCS 15, (20MHz, and 40MHz)

802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, ,80MHz &

160MHz)

802.11ax: MCS0 ~ MCS11, (1SS and 2SS) (20MHz, 40MHz, ,80MHz &

160MHz)

Modulation Direct Sequence Spread Spectrum

OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM

• 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 Power² • 802.11b: +17dBm minimum

• 802.11g: +16dBm minimum • 802.11a: +17dBm minimum

802.11n HT20(2.4GHz): +14dBm minimum
 802.11n HT40(2.4GHz): +13dBm minimum

802.11n HT20(5GHz): +14dBm minimum
 802.11n HT40(5GHz): +13dBm minimum

802.11ac VHT80(5GHz): +10dBm minimum
802.11ac VHT160(5GHz): +10dBm minimum
802.11ax HE40(2.4GHz): +12dBm minimum

• 802.11ax HE80(5GHz): +10dBm minimum • 802.11ax HE160(5GHz): +10dBm minimum

Power Consumption • Transmit mode 2.0 W

• Receive mode 1.6 W

Idle mode (PSP) 180 mW (WLAN Associated)
Idle mode 50 mW (WLAN unassociated)

Connected Standby 10mWRadio disabled 8 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

Receiver Sensitivity⁴ • 802.11b, 1Mbps: -93.5dBm maximum

802.11b, 11Mbps: -84dBm maximum
802.11a/g, 6Mbps: -86dBm maximum
802.11a/g, 54Mbps: -72dBm maximum
802.11n, MCS07: -67dBm maximum
802.11n, MCS15: -64dBm maximum

802.11ac, MCS0(VHT80): -84dBm maximum
802.11ac, MCS9(VHT80): -59dBm maximum
802.11ac, MCS9(VHT160): -58.5dBm maximum
802.11ax, MCS11(HE40): -57dBm maximum
802.11ax, MCS11(HE80): -54dBm maximum
802.11ax, MCS11(HE160): -53.5dBm maximum

Antenna type 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

Form Factor PCI-Express M.2 MiniCard with CNVi Interface

Dimensions 1. Type 2230: 2.3 x 22.0 x 30.0 mm

2. Type 1216: 1.67 x 12.0 x 16.0 mm

Weight 1. Type 2230: 2.8 g

2. Type 126: 1.3 g

Operating Voltage 3.3v +/- 9%

Temperature Operating14° to 158° F (-10° to 70° C)

Non-operating -40° to 176° F $(-40^{\circ}$ to 80° C)

Technical Specifications

Humidity Operating 10% to 90% (non-condensing)

Non-operating 5% to 95% (non-condensing)

Altitude Operating 0 to 10,000 ft (3,048 m)

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 Wireless Technology

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

Frequency Band 2402 to 2480 MHz

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

Data Rates andLegacy: 3 Mbps data rate; throughput up to 2.17 Mbps **Throughput**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. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs.
- 2. 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 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.



Technical Specifications

Realtek RTL8822CE 802.11ac 2x2 Wi-Fi® + Bluetooth® 51 Wireless LAN Standards 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

Interoperability

Wi-Fi® certified modules

Frequency Band

802.11b/g/n
2.402 – 2.482 GHz
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

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: MCS 0 ~ MCS 15, (20MHz, and 40MHz)

802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz & 80MHz)

Modulation

Direct Sequence Spread Spectrum

BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM

Security³

• IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g mode only

• AES-CCMP: 128 bit in hardware

• 802.1x authentication

• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.

WPA2 certificationWPA3 certificationIEEE 802.11iWAPI

Network Architecture

Ad-hoc (Peer to Peer)

Models

Infrastructure (Access Point Required)

Roaming

IEEE 802.11 compliant roaming between access points

Output Power²

802.11b: +18.5dBm minimum802.11g: +17.5dBm minimum

• 802.11a: +18.5dBm minimum

802.11n HT20(2.4GHz): +15.5dBm minimum
802.11n HT40(2.4GHz): +14.5dBm minimum
802.11n HT20(5GHz): +15.5dBm minimum



• 802.11n HT40(5GHz): +14.5dBm minimum

• 802.11ac VHT80(5GHz): +11.5dBm minimum

Power Consumption • Transmit mode: 2.0 W

• Receive mode: 1.6 W

Idle mode (PSP) 180 mW (WLAN Associated)
Idle mode: 50 mW (WLAN unassociated)
Connected Standby/Modern Standby: 10mW

· Radio disabled: 8 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

Receiver Sensitivity⁴ • 802.11b, 1Mbps: -93.5dBm maximum

802.11b, 11Mbps: -84dBm maximum
802.11a/g, 6Mbps: -86dBm maximum
802.11a/g, 54Mbps: -72dBm maximum
802.11n, MCS07: -67dBm maximum
802.11n, MCS15: -64dBm maximum
802.11ac, MCS0: -84dBm maximum

Antenna type High efficiency antenna with spatial diversity, mounted in the display

802.11ac, MCS9: -59dBm maximum"

enclosure.

Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications.

Form Factor PCI-Express M.2 MiniCard

Dimensions 1. Type 2230: 2.3 x 22.0 x 30.0 mm

2. Type 1216: 1.67 x 12.0 x 16.0 mm

Weight 1. Type 2230: 2.8 g

2. Type 126: 1.3 g

Operating Voltage 3.3v +/- 9%

Temperature Operating 14° to 158° F (-10° to 70° C)

Non-operating -40° to 176° F (-40° to 80° C)

Humidity Operating 10% to 90% (non-condensing)

Non-operating 5% to 95% (non-condensing)

Altitude Operating 0 to 10,000 ft (3,048 m)

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 Wireless Technology

Bluetooth Specification 4.0/4.1/4.2/5.0 Compliant

Frequency Band 2402 to 2480 MHz

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



Technical Specifications

Signaling Data Rate 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 + 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.
- 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).



POWER

HP 65W

AC Adapter 65 Watt

Smart nPFC Standard Barrel 4.5mm Right Angle

1.0 m

Dimensions $(H \times W \times D)$

3.54x2.0x1.12in (9.0x5.1x2.85cm)

Weight 0.5lbs(230g) Input 100 to 240 VAC

> **Input Efficiency** 88.0 % at 115 Vac and 89.0 % at 230Vac

47 ~ 63 Hz Input frequency range

Max. 1.7 A at 90 VAC **Input AC current**

Output **Output power** 65 W

> DC output 19.5 V

Hold-up time 5 msec at 115 V input

Output current limit <11.0A Over voltage protection- 29V max

automatic shutdown

4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords Connector

32°F to 95°F (0°C to 35°C) **Environmental Design Operating**

temperature

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

temperature

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

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.

45 W AC adapter AC Adapter 45 Watt **Smart nPFC Standard** Barrel 4.5mm Right Angle

1.0 m

Dimensions 3.74x1.77x1.05in (9.5x4.5x2.68cm)

Weight 0.44lbs(200g) 100 to 240 VAC Input

> **Input Efficiency** 87.74 % at 115 Vac and 88.4 % at 230Vac

Input frequency range 47 ~ 63 Hz

Input AC current Max. 1.4 A at 90 Vac

45 W Output **Output power**

DC output 19.5 V

Hold-up time 5 ms at 115 VAC input

Output current limit <11.0A Over voltage protection- 29V max

automatic shutdown

4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords Connector

Environmental Design Operating 32°F to 95°F (0° to 35°C)

temperature

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

temperature

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

Humidity 20% to 95% **Storage Humidity** 10% to 95%

CE Mark – full compliance with LVD and EMC directives. **EMI and Safety**

Certifications 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 3-cell Long Life Li-Ion Dimensions (41 Wh)

6 x 186.85 x 90.2 mm (0.236 x 7.35 x 3.55 inch)

Weight

Voltage

0.175 kg (0.38 lb)

Cells/Type

3cell Lithium-Ion Polymer cell / 515974

11.28V /11.34V

Amp-hour capacity

3.635Ah / 3.62Ah

Watt-hour capacity

41 Wh¹

Operating (Charging)

32° to 113° F (0° to 45°C)

Operating (Discharging)

14° to 122° F (-10° to 60°C)

Fuel Gauge LED

N/A

Warranty

1-year

Optional Travel Battery

No

Available

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

ENVIRONMENTAL DATA Eco-Label Certifications This product has received or is in the process of being certified to the following approvals and may be & declarations labeled with one or more of these marks: IT ECO declaration **US ENERGY STAR®** US Federal Energy Management Program (FEMP) EPEAT® Silver, registered in the United States. See http://www.epeat.net for registration status in your country. TCO-N/A China Energy Conservation Program (CECP) China State Environmental Protection Administration (SEPA) Taiwan Green Mark Korea Eco-label Japan PC Green label* Sustainable Impact • Ocean-bound plastic in (part(s)) **Specifications** • 5% post-consumer recycled plastic External Power Supply 90% Efficiency Low halogen • Outside Box and corrugated cushions are 100% sustainably sourced and recyclable • Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable • Bulk packaging available **System Configuration** The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a "Typically Configured Notebook". **Energy Consumption** (in accordance with US **ENERGY STAR® test** method) 115VAC, 60Hz 230VAC, 50Hz 100VAC, 50Hz Normal Operation (Sort 5.04 W 5.13 W 5.27 W idle) Normal Operation (Long 0.69 W 0.67 W 0.66 W idle) Sleep 0.69 W 0.67 W 0.66 W Off 0.29 W 0.30 W 0.29 W Note: Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model



Microsoft Windows® operating system.

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

Technical Specifications

Heat Dissipation*	115VAC, 60Hz 230VAC		, 50Hz	50Hz 100VAC, 50Hz			
Normal Operation (Short idle)	17 BT	BTU/hr 17 BT		U/hr		17 BTU/hr	
Normal Operation (Long idle)	2 BTU/hr 2		2 BT	U/hr 2 BTU/hr		2 BTU/hr	
Sleep	2 BT	2 BTU/hr 2 BT		U/hr	nr 2 BTU/hr		
Off	1 BT	J/hr	1 BT	U/hr	1 BTU/hr		
	*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.						
Declared Noise		Sound Power	r	Sound Pressure			
Emissions		(L _{WAd} , bels)			(L _{pAm} , (decibels)	
(in accordance with							
ISO 7779 and ISO 9296)		1.0					
Typically Configured – Idle	1.8			17.5			
Fixed Disk – Random writes	1.8			18			
Optical Drive – Sequential reads	1.8			17.8			
	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						
Additional Information	 This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC. This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680 (EPEAT) standard at the silver level, see http://www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. This product is 96.6% recycle-able when properly disposed of at end of life. 						
Packaging Materials	External:	PAPER/Cor	rugated			326 g	
	Internal:		olypropylene			5 g	
		PLASTIC/Polyethylene low density				17 g	
		PAPER/Molded pulp				201 g	
	The plastic packaging material contains at least 0% recycled content. The corrugated paper packaging materials contains at least 55.6% recycled content.						
					ycled content.		
RoHS Compliance	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.

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.

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.

To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.

Material Usage

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

http://www.hp.com/hpinfo/qlobalcitizenship/environment/supplychain/gen_specifications.html):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Bis(2-Ethylhexyl) phthalate (DEHP)
- Benzyl butyl phthalate (BBP)
- Dibutyl phthalate (DBP)
- Diisobutyl phthalate (DIBP)
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)



Technical Specifications

Packaging Usage	 HP follows these guidelines to decrease the environmental impact of product packaging: Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials. Eliminate the use of ozone-depleting substances (ODS) in packaging materials. Design packaging materials for ease of disassembly. Maximize the use of post-consumer recycled content materials in packaging materials. Use readily recyclable packaging materials such as paper and corrugated materials. Reduce size and weight of packages to improve transportation fuel efficiency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
End-of-life Management and Recycling	HP offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. 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: http://www.hp.com/go/recyclers . 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.
HP, Inc. Corporate Environmental Information	For more information about HP's commitment to the environment: Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www8.hp.com/us/en/hp-information/environment/ecolabels.html ISO 14001 certificates: http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf
footnotes	 Percentage of ocean-bound plastic contained in each component varies by product Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard. External power supplies, WWAN modules, power cords, cables and peripherals excluded. 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic materials.



Technical Specifications

FINGERPRINT READER¹

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.

Country of Origin

China



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

Туре	Description	Part Number
Cases	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
Docks	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, 265D9UT
	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	1D0K2AA
	HP Creator 935 Black Wireless Mouse	1D0K8AA
	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 HP USB-C to 4.5mm Adapter	P7Z54AA, N9K76AA, N9K76UT 4ST73AA
	HP USB 3.0 to Gigabit Adapter	43173AA N7P47AA
	HP HDMI to DVI Adapter	F5A28AA
	HP USB to Gig RJ45 Adapter	N7P47AA



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

Input/Output
Adapters

HP USB-C to RJ45 Adapter

V7W66AA

Power 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

HP 65W 4.5 mm Smart AC Power Adapter H6Y89AA, H6Y89UT, H6Y89ET

Storage HP USB DVD-Writer EXT ODD Y3T76AA, F2B56AA, F2B56UT,

F2B56ET



Summary of Changes

Date of change:	Version History:		Description of change:
April 20, 2021	From V1 to V2	Add	Environmental Data/Input and Output features
July 6, 2021	From V2 to V3	Add	Battery disclaimer
October 12, 2021	From V3 to V4	Updated	Windows 10 with Free upgrade to Windows 11 when available in OS section and footnote. Removed Windows 10 Pro (Windows 10 Enterprise available with a Volume Licensing Agreement)
December 13, 2021	From V4 to V5	Updated	OS foonotes and Wi-Fi 6 footnotes
April 20, 2022	From V5 to V6	Added	Reference for USB ports

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