

Overview

HP 245 G8 Notebook PC



Left

- | | |
|---------------------------------------|--|
| 1. Webcam LED | 7. Hard drive indicator LED |
| 2. Webcam | 8. SD Card slot (Selected models) |
| 3. Internal digital microphone | 9. SuperSpeed USB Type-C® 5Gbps signaling rate ¹ port (Data Transfer Only) |
| 4. Touchpad | 10. Mini Security lock slot (Lock sold in select countries) |
| 5. Touchpad buttons | 11. Power button |
| 6. Power indicator LED | |

1. SuperSpeed USB 20Gbps is not available.

Overview



Right

1. AC Smart Pin adapter plug
2. RJ-45 / Ethernet port
3. HDMI port (Cable not included)
4. SuperSpeed USB Type-A 5Gbps signaling rate¹ port (USB 3.2 Gen 1)
5. SuperSpeed USB Type-A 5Gbps signaling rate¹ port (USB 3.2 Gen 1)
6. Audio combo jack

1. SuperSpeed USB 20Gbps is not available.

Overview

At a Glance

- Windows 11 Pro, other Windows OS, or FreeDOS preinstalled
- A new compact narrow bezel design with thinner & lighter chassis
- Choice of AMD Ryzen™, Athlon™ or AMD APU processors
- Choice of 35.56 cm (14") diagonal HD SVA Anti-Glare WLED or FHD IPS Anti-Glare WLED
- Choice of Integrated AMD Radeon™ Vega Graphics or Radeon™ Graphics
- Security features including Firmware TPM 2.0 or discrete TPM Rev.1.2 on selected models
- Weight starting at 3.25 lbs (1.47 kgs)
- MM18 Battery life up to 10 hours and 30 minutes
- Wireless LAN (WLAN) up to 802.11ac or 802.11ax to keep you connected
- One SuperSpeed USB Type-C® 5Gbps signaling rate² (Data Transfer Only), Two SuperSpeed USB Type-A 5Gbps signaling rate² (USB 3.2 Gen 1)
- Choice of Solid State Drives up to 1 TB and Hard Drive up to 1 TB
- Fast dual channel DDR4 SODIMM memory up to 16 GB
- HP webcam with digital microphone and HD (supporting WDR- Wide Dynamic Range) or VGA camera

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.

2. SuperSpeed USB 20Gbps is not available.

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

Technical Specifications

PRODUCT NAME

HP 245 G8 Notebook PC

OPERATING SYSTEMS

Preinstalled

Windows 11 Pro ²
Windows 11 Pro Education 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 Pro Education ^{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

AMD Ryzen™ 5 3500U APU with Radeon™ Vega 8 Mobile Graphics (2.1 GHz base frequency, up to 3.7 GHz burst frequency, 4 MB cache, 4 cores) ^{3,4,5}
AMD Ryzen™ 3 3300U APU with Radeon™ Vega 6 Graphics (2.1 GHz base frequency, up to 3.5 GHz burst frequency, 4 MB cache, 4 cores) ^{3,4,5}
AMD Ryzen™ 3 3250U APU with Radeon™ Graphics (2.6 GHz base frequency, up to 3.5 GHz burst frequency, 4 MB cache, 2 cores) ^{3,4,5}
AMD Athlon™ Gold 3150U APU with Radeon™ Graphics (2.4 GHz base frequency, up to 3.3 GHz burst frequency, 4 MB cache, 2 cores) ^{3,4,5}
AMD Athlon™ Silver 3050U APU with Radeon™ Graphics (2.3 GHz base frequency, up to 3.2 GHz burst frequency, 4 MB cache, 2 cores) ^{3,4,5}
AMD Athlon™ Pro 3145B APU with Radeon™ Graphics (2.4 GHz base frequency, up to 3.3 GHz burst frequency, 4 MB cache, 2 cores) ^{3,4,5}
AMD Athlon™ Pro 3045B APU with Radeon™ Graphics (2.3 GHz base frequency, up to 3.2 GHz burst frequency, 4 MB cache, 2 cores) ^{3,4,5}
AMD 3020e APU with Radeon™ Graphics (1.2 GHz base frequency, up to 2.6 GHz burst frequency, 4 MB cache, 2 cores) ^{3,4,5}
AMD A6-9225 APU with Radeon™ R4 Graphics (2.6 GHz base frequency, up to 3 GHz burst frequency, 1 MB cache, 2 cores)^{3,4,5}
AMD A4-9125 APU with Radeon™ R3 Graphics (2.3 GHz base frequency, up to 2.6 GHz burst frequency, 1 MB cache, 2 cores) ^{3,4,5}
AMD PROA6-8350B APU with Radeon™ R4 Graphics (3.1 GHz base frequency, up to 3.7 GHz burst frequency, 1 MB cache, 2 cores) ^{3,4,5}
AMD PROA4-5350B APU with Radeon™ R3 Graphics (3.0 GHz base frequency, up to 3.6 GHz burst frequency, 1 MB cache, 2 cores) ^{3,4,5}
AMD Ryzen™ 3 5300 APU with AMD Radeon™ Graphics (2.6 GHz base frequency, up to 3.8 GHz burst frequency, 4MB cache, 4 cores) ^{3,4,5}
AMD Ryzen™ 5 5500 APU with AMD Radeon™ Graphics (2.1 GHz base frequency, up to 4.0 GHz burst frequency, 8 MB cache,



Technical Specifications

6 cores)^{3,4,5}

AMD Ryzen™ 7 5700U APU with AMD Radeon™ Graphics (1.8 GHz base frequency, up to 4.3 GHz burst frequency, 8MB cache, 8cores)^{3,4,5}

AMD Ryzen™ 3 3200U APU with Radeon™ Vega 3 Graphics (2.6 GHz base frequency, up to 3.5 GHz burst frequency, 4MB cache, 2 cores)^{3,4,5}

Processors Family

AMD Ryzen™ 5 Mobile Processors⁶

AMD Ryzen™ 3 Mobile Processors⁶

AMD Ryzen™ 7 Mobile Processors⁶

7th Generation AMD A6 APU processor⁶

7th Generation AMD A4 APU processor⁶

AMD PRO APU processor⁶

AMD Athlon™ Mobile Processors⁶

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

4. 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. AMD's numbering is not a measurement of clock speed.

5. AMD Max Boost frequency performance varies depending on hardware, software and overall system configuration.

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

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

AMD Radeon™ Vega 8 Mobile Graphics

AMD Radeon™ Vega 6 Mobile Graphics

AMD Radeon™ Vega 3 Mobile Graphics

AMD Radeon™ Graphics

AMD Radeon™ R4 Graphics

AMD Radeon™ R3 Graphics

Supports

Support HD decode, DX12, HDMI 1.4b⁷

7. HD content required to view HD images.



Technical Specifications

DISPLAYS

Internal

Non-Touch

35.56 cm (14") diagonal, HD (1366 x 768), SVA, Anti-Glare WLED, 250nits, eDP micro-edge, 45% NTSC ^{7,8,9}
35.56 cm (14") diagonal, FHD (1920 x 1080), IPS, Anti-Glare WLED, 250nits eDP micro-edge, 45% NTSC ^{7,8,9}

HDMI

Port supports resolutions up to 1920 x 1080 external resolution @60 Hz

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.

STORAGE AND DRIVES

Primary Storage

1 TB 5400 rpm SATA ¹⁰

500 GB 7200 rpm SATA ¹⁰

500 GB 5400 rpm SATA ¹⁰

Primary M.2 Storage

128 GB M.2 SATA-3 TLC Solid State Drive ¹⁰

128 GB PCIe NVMe™ TLC Solid State Drive ¹⁰

256 GB M.2 SATA-3 TLC Solid State Drive ¹⁰

256 GB PCIe® NVMe™ M.2 Value Solid State Drive ¹⁰

512 GB PCIe® NVMe™ M.2 Value Solid State Drive ¹⁰

1TB PCIe® NVMe™ M.2 Value Solid State Drive ¹⁰

Dual Storage

128 GB M.2 SATA-3 TLC Solid State Drive + 1TB 5400rpm SATA ¹⁰

128 GB PCIe NVMe™ TLC Solid State Drive + 1TB 5400rpm SATA ¹⁰

256 GB PCIe® NVMe™ M.2 Value Solid State Drive + 1TB 5400rpm SATA ¹⁰

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.

MEMORY

Maximum Memory

16 GB DDR4-3200 SDRAM ¹¹

Memory

16 GB DDR4-3200 SDRAM (2 x 8 GB)¹¹

16 GB DDR4-2400 SDRAM (2 X 8 GB) ¹¹

16 GB DDR4-2133 SDRAM (2 X 8 GB) ¹¹

12 GB DDR4-3200 SDRAM (4 GB (1 x 4 GB) and 8 GB (1 x 8 GB))¹¹

12 GB DDR4-2400 SDRAM (4 GB (1 x 4GB) and 8 GB (1 x 8 GB)) ¹¹

12 GB DDR4-2133 SDRAM (4 GB (1 x 4GB) and 8 GB (1 x 8 GB)) ¹¹

8 GB DDR4-3200 SDRAM (2 x 4 GB) ¹¹

8 GB DDR4-2400 SDRAM (2 x 4 GB) ¹¹

8 GB DDR4-2133 SDRAM (2 x 4 GB) ¹¹

8 GB DDR4-3200 SDRAM (1 x 8 GB) ¹¹



Technical Specifications

- 8 GB DDR4-2400 SDRAM (1 x 8 GB) ¹¹
- 8 GB DDR4-2133 SDRAM (1 x 8 GB) ¹¹
- 4 GB DDR4-3200 SDRAM (1 x 4 GB) ¹¹
- 4 GB DDR4-2400 SDRAM (1 x 4 GB) ¹¹
- 4 GB DDR4-2133 SDRAM (1 x 4 GB) ¹¹

Memory Slots

2 SODIMM (Ryzen3/5/7 speed runs up to 2400, ProA4/A6 speed runs up to 2133)

Supports Dual Channel Memory

1 SODIMM (Athlon Gold/Silver/A4/A6 processors)

Support Single 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.

Technical Specifications

NETWORKING/COMMUNICATIONS

WLAN

Realtek RTL8822CE 802.11ac 2x2 Wi-Fi® + Bluetooth® 5²⁶

Realtek RTL8822CE 802.11a/b/g/n/ac (2x2) Wi-Fi® with Bluetooth® 4.2 Combo¹²

Realtek RTL8822CE 802.11a/b/g/n/ac (1x1) Wi-Fi® with Bluetooth® 4.2 Combo¹²

Realtek Wi-Fi CERTIFIED 6™ (2x2) and Bluetooth® 5.2 combo¹²

Miracast

Compatible with Miracast-certified devices (For Win10)¹³

Ethernet

Realtek 10/100/1000 GbE NIC¹⁴

12. Wi-Fi supporting gigabit speeds (802.11ac) is achievable when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160MHz channels.

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

14. 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.

26. 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.

AUDIO/MULTIMEDIA

Audio

2 Integrated stereo speakers

Integrated digital microphone

Camera

HP TrueVision HD Camera^{7,8}

Webcam

VGA webcam⁸

7. HD content required to view HD images.

8. Sold separately or as an optional feature.



Technical Specifications

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

Full Size Textured island-style Keyboard

Pointing Device

Touchpad with multi-touch gesture support (PTP certified)

Function Keys

F1 - Open " How to get help in Windows 10" webpage

F2 - Brightness Down

F3 - Brightness Up

F4 - Display Switching

F5 - Blank

F6 - Mute

F7 - Volume Down

F8 -Volume Up

F9 - Previous

F10 - Play/Pause

F11 - Next

F12 - Airplane mode

SOFTWARE AND SECURITY

Preinstalled Software**Software**

HP Support Assistant ¹⁶

Native Miracast Support ¹⁷

HP documentation

HP Setup Integrated OOBE

HP SSRM

HP Audio Switch

HP JumpStarts

McAfee LiveSafe™ ¹⁵

Xerox® DocuShare® 30-day free trial offer²⁶

HP QuickDrop

HP Smart Support ²⁷

Security Management

Firmware TPM 2.0 (On select models)¹⁸

Discrete TPM Rev.1.2 (On select models)¹⁸

15. 30 days free trial

16. HP Support Assistant requires Windows and Internet access.

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

18. 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).³² Firmware TPM is version 2.0.

26. Simply sign up and start using Xerox® DocuShare® Go. No credit card. No obligation. Data will become unavailable unless a subscription is entered before the end of the 30-day free trial period. See visit <http://www.xerox.com/docusharego> for details.

27. HP Smart Support is available to commercial customers through your HP Service Representative and HP Factory Configuration Services; or it can be downloaded at: <http://www.hp.com/smart-support>. HP Smart Support automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration data and health insights.



Technical Specifications

POWER

Power Supply¹⁹

HP Smart 65 W EM External AC power adapter¹⁹

HP Smart 45 W External AC power adapter¹⁹

Primary Battery

HP Long Life 3-cell, 41 Wh Li-ion Polymer^{20, 28}

HP Long Life 4-cell, 46 Wh Li-ion Battery Polymer (India only)^{20, 28}

Power Cord

1M (3.28 feet) length power cord

MM18 Battery life

Up to 10 hours and 30 minutes²¹

Battery Weight

0.18 kg

0.39 lb

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 3.25 lb ²²

Starting at 1.47 kg ²²

Product Dimensions (w x d x h)

12.76 x 8.89 x 0.78 in

32.4 x 22.59 x 1.99 cm

22. Weight will vary by configuration.

PORTS/SLOTS

Ports

2 SuperSpeed USB Type-A 5Gbps signaling rate ²⁴ (USB 3.2 Gen 1)

1 SuperSpeed USB Type-C[®] 5Gbps signaling rate (Data Transfer Only) ²⁴

1 HDMI v1.4b ²³

1 RJ-45

1 AC Power

1 Headphone/microphone combo jack

Expansion Slots

Support SD/SDHC/SDXC

1 Multi-format digital media reader (Select models)

23. HDMI cable sold separately.

24. SuperSpeed USB 20Gbps is not available.

SERVICE AND SUPPORT

1-year limited warranty 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>. 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 | 19.5 V |
| Average Operating Power | TBD |
| Integrated graphics | 6.03W |
| 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® | Yes |
| EPEAT® | Yes |
| ICES | Yes |
| Australia / | No |
| NZ A – Tick Compliance | No |
| CCC | Yes |
| Japan VCCI Compliance | Yes |
| KC | No |
| BSMI | Yes |
| CE Marketing Compliance | Yes |
| BNCI or BELUS | No |
| CIT | No |
| GOST | No |
| Saudi Arabian Compliance (ICCP) | No |
| SABS | No |
| UKRSERTCOMPUTER | No |



Technical Specifications

DISPLAYS

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

| | | |
|--|---------------------------------------|-----------------------------------|
| Panel LCD 14-in FHD (1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP NWBZ slim | Outline Dimensions (W x H x D) | 316.11 x 198.07 max. (w/ PCB)(mm) |
| | Active Area | 309.31 x 173.99(mm) |
| | Weight | 285g max. |
| | Diagonal Size | 14.0" |
| | Thickness | 3.0mm max. |
| | Interface | eDP 1.2 |
| | Surface Treatment | Anti-glare (AG) |
| | Touch Enabled | None |
| | Contrast Ratio | 600:1 |
| | Refresh Rate | 60Hz |
| | Brightness | 250nit |
| | Pixel Resolution | 1920 x 1080 (FHD) |
| | Format | RGB |
| | Backlight | LED |
| | Color Gamut Coverage | 45% |
| | Color Depth | 6bit |
| Viewing Angle | UWVA 85/85/85/85 | |

| | | |
|--|---------------------------------------|------------------------------|
| Panel LCD 14-in HD (1366x768) Anti-Glare WLED SVA 45percent cg 250nits eDP NWBZ ultraslim | Outline Dimensions (W x H x D) | 315.9+/-0.3 x 197.55 +/- 0.5 |
| | Active Area | 309.4 x 173.95(mm) |
| | Weight | 285g Max |
| | Diagonal Size | 14" |
| | Thickness | 3.0mm max |
| | Interface | eDP 1.2 |
| | Surface Treatment | Anti-glare (AG) |
| | Touch Enabled | None |
| | Contrast Ratio | 300:1 (|
| | Refresh Rate | 60Hz |
| | Brightness | 250nit |
| | Pixel Resolution | 1366 x 768 (HD) |
| | Format | RGB |
| | Backlight | LED |
| | Color Gamut Coverage | 45% |
| | Color Depth | 6 bits |
| Viewing Angle | SVA 45/45/15/30 | |



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) is reserved for system recovery software.

| | | |
|--|---------------------------------|--|
| SSD 128GB 2280 M2 SATA-3 TLC (SSD 128GB 2280 M2 SATA-3 TLC) | Drive Weight | 0.01 lb (6 g) ~ 0.02 lb (10 g) |
| | Capacity | 128 GB |
| | Height | 0.09 in (2.3 mm) |
| | Width | 0.87 in (22 mm) |
| | Interface | ATA-8, SATA 3.0 |
| | Performance | |
| | Maximum Sequential Read | Up To 560 MB/s |
| | Maximum Sequential Write | Up To 530 MB/s |
| | Logical Blocks | 250,069,680 |
| | Operating Temperature | 32° to 158°F (0° to 70°C) [ambient temp] |

| | | |
|--|---------------------------------|--|
| SSD 1TB 2280 PCIe NVMe Value (SSD 1TB 2280 PCIe NVMe Value) | Drive Weight | 0.01 lb (6 g) ~ 0.02 lb (10 g) |
| | Capacity | 1 TB |
| | Height | 0.09 in (2.3 mm) |
| | Width | 0.87 in (22 mm) |
| | Interface | PCIe NVMe Gen3X4 |
| | Performance | |
| | Maximum Sequential Read | Up to 2400MB/s |
| | Maximum Sequential Write | Up to 1950MB/s |
| | Logical Blocks | 2,000,409,264 |
| | Operating Temperature | 32° to 158°F (0° to 70°C) [ambient temp] |

| | | |
|---|---------------------------------|--|
| SSD 256GB 2280 M2 SATA-3 TLC (SSD 256GB 2280 M2 SATA-3 Three Layer Cell) | Drive Weight | 0.01 lb (6 g) ~ 0.02 lb (10 g) |
| | Capacity | 256 GB |
| | Height | 0.09 in (2.3 mm) |
| | Width | 0.87 in (22 mm) |
| | Interface | PCIe NVMe Gen3X4 |
| | Performance | |
| | Maximum Sequential Read | Up to 530MB/s |
| | Maximum Sequential Write | Up to 520MB/s |
| | Logical Blocks | 500,118,192 |
| | Operating Temperature | 32° to 158°F (0° to 70°C) [ambient temp] |



Technical Specifications

| | | |
|--|---------------------------------|--|
| SSD 256GB 2280 PCIe NVMe Value (SSD 256GB 2280 PCIe NVMe Value) | Drive Weight | 0.01 lb (6 g) ~ 0.02 lb (10 g) |
| | Capacity | 256GB |
| | Height | 0.09 in (2.3 mm) |
| | Width | 0.87 in (22 mm) |
| | Interface | PCIe NVMe Gen3X2 |
| | Performance | |
| | Maximum Sequential Read | Up to 1500MB/s |
| | Maximum Sequential Write | Up to 750MB/s |
| | Logical Blocks | 500,118,192 |
| | Operating Temperature | 32° to 158°F (0° to 70°C) [ambient temp] |
| | Features | TRIM, L1.2 |

| | | |
|--|---------------------------------|--|
| SSD 512GB 2280 PCIe NVMe Value (SSD 512GB 2280 PCIe NVMe Value) | Drive Weight | 0.01 lb (6 g) ~ 0.02 lb (10 g) |
| | Capacity | 512GB |
| | Height | 0.09 in (2.3 mm) |
| | Width | 0.87 in (22 mm) |
| | Interface | PCIe NVMe Gen3X2 |
| | Performance | |
| | Maximum Sequential Read | Up to 1500MB/s |
| | Maximum Sequential Write | Up to 750MB/s |
| | Logical Blocks | 1,000,215,216 |
| | Operating Temperature | 32° to 158°F (0° to 70°C) [ambient temp] |
| | Features | TRIM, L1.2 |

Technical Specifications

NETWORKING/COMMUNICATIONS

| | | |
|--|---|---|
| <p>Realtek RTL8822CE 802.11ac 2x2 Wi-Fi® + Bluetooth® 5¹</p> | <p>Wireless LAN Standards</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>Interoperability</p> | <p>Wi-Fi certified modules</p> |
| | <p>Frequency Band</p> | <p>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</p> |
| | <p>Data Rates</p> | <p>• 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, and 80MHz)</p> |
| | <p>Modulation</p> | <p>Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM</p> |
| | <p>Security²</p> | <p>• 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 • IEEE 802.11i • WAPI</p> |
| | <p>Network Architecture Models</p> | <p>Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)</p> |
| | <p>Roaming</p> | <p>IEEE 802.11 compliant roaming between access points</p> |
| | <p>Output Power³</p> | <p>• 802.11b : +18.5dBm minimum • 802.11g : +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</p> |
| | <p>Power Consumption</p> | <p>• 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</p> |



Technical Specifications

| | | |
|---|--|--------------------------------|
| Power Management | ACPI and PCI Express compliant power management 802.11 compliant power saving mode | |
| Receiver Sensitivity⁴ | <ul style="list-style-type: none"> • 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 • 802.11ac, MCS9: -59dBm 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 | |
| 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 : 2.8g 2. Type 126: 1.3g | |
| 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 | |

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. Check latest software/driver release for updates on supported security features.

3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.

4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

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 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 + 4 dBm for BR and EDR. |



Technical Specifications

| | | |
|--|---|---|
| <p>Realtek 802.11a/b/g/n/ac (1x1) Wi-Fi® and Bluetooth® 4.2 Combo¹</p> | <p>Wireless LAN Standards</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>Interoperability</p> | <p>Wi-Fi certified modules</p> |
| | <p>Frequency Band</p> | <p>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</p> |
| | <p>Data Rates</p> | <p>• 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, and 80MHz)</p> |
| | <p>Modulation</p> | <p>Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM</p> |
| | <p>Security²</p> | <p>• 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 • IEEE 802.11i • WAPI</p> |
| | <p>Network Architecture Models</p> | <p>Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)</p> |
| | <p>Roaming</p> | <p>IEEE 802.11 compliant roaming between access points</p> |
| | <p>Output Power³</p> | <p>• 802.11b : +14dBm minimum • 802.11g : +12dBm minimum • 802.11a : +12dBm minimum • 802.11n HT20(2.4GHz) : +12dBm minimum • 802.11n HT40(2.4GHz) : +12dBm minimum • 802.11n HT20(5GHz) : +10dBm minimum • 802.11n HT40(5GHz) : +10dBm minimum • 802.11ac VHT80(5GHz) : +10dBm minimum</p> |
| | <p>Power Consumption</p> | <p>• 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</p> |
| | <p>Power Management</p> | <p>ACPI and PCI Express compliant power management</p> |



Technical Specifications

| | |
|---|--|
| Receiver Sensitivity⁴ | 802.11 compliant power saving mode <ul style="list-style-type: none"> • 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 • 802.11ac, MCS9: -59dBm 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 |
| Dimensions | Type 2230 : 2.3 x 22.0 x 30.0 mm |
| Weight | Type 2230 : 2.8g |
| 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 |

1. Wi-Fi supporting gigabit speeds (802.11ac) is achievable when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160MHz channels.
2. Check latest software/driver release for updates on supported security features.
3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

HP Integrated Module with Bluetooth® 4.0/4.1/4.2 Wireless Technology

| | |
|-------------------------------------|--|
| Bluetooth Specification | 4.0/4.1/4.2 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 + 4 dBm for BR and EDR. |



Technical Specifications

| | | |
|---|--|---|
| Realtek 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo¹ | 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, and 80MHz) |
| | Modulation | Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM |
| | Security² | • 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 • 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 Power³ | • 802.11b : +14dBm minimum • 802.11g : +12dBm minimum • 802.11a : +12dBm minimum • 802.11n HT20(2.4GHz) : +12dBm minimum • 802.11n HT40(2.4GHz) : +12dBm minimum • 802.11n HT20(5GHz) : +10dBm minimum • 802.11n HT40(5GHz) : +10dBm minimum • 802.11ac VHT80(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/Modern Standby: 10mW • Radio disabled: 8 mW |
| | Power Management | ACPI and PCI Express compliant power management |



Technical Specifications

| | |
|---|--|
| Receiver Sensitivity⁴ | 802.11 compliant power saving mode <ul style="list-style-type: none"> • 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 • 802.11ac, MCS9: -59dBm 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 |
| Dimensions | Type 2230 : 2.3 x 22.0 x 30.0 mm |
| Weight | Type 2230 : 2.8g |
| 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 |

1. Wi-Fi supporting gigabit speeds (802.11ac) is achievable when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160MHz channels.
2. Check latest software/driver release for updates on supported security features.
3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

HP Integrated Module with Bluetooth® 4.0/4.1/4.2 Wireless Technology

| | |
|-------------------------------------|--|
| Bluetooth Specification | 4.0/4.1/4.2 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 + 4 dBm for BR and EDR. |



Technical Specifications

POWER

| | | |
|---|---|--|
| AC Adapter 65 Watt Smart nPFC EM Barrel 4.5mm New EM | Dimensions (H x W x D) | 102x55x30mm |
| | Weight | unit: 250g +/- 10g |
| | Input | Input Efficiency 88.0 % at 115 Vac and 89.0 % at 230Vac |
| | | Input frequency range 47 ~ 63 Hz |
| | | Input AC current Max. 1.7 A at 90 Vac |
| Output | Output power | 65W |
| | DC output | 19.5V |
| | Hold-up time | 5ms at 115 Vac input |
| | Output current limit | <11.0A |
| Connector | C6 (3pin/with grounded, with Smart ID DC connector) | |
| Environmental Design | Operating temperature | 32°F to 95°F (0° to 35°C) |
| | Non-operating (storage) temperature | -4°F to 185°F (-20° to 85°C) |
| | Altitude | 0 to 16,400 ft (0 to 5,000 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. | |

Technical Specifications

| | | | |
|---|---|---|---|
| AC Adapter 45 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.8m | Dimensions | 95 x 40 x 26.5 mm | |
| | Weight | 200 g +/- 10 g | |
| | Input | Input Efficiency | 87.74 % at 115 Vac and 88.4 % at 230Vac |
| | | Input frequency range | 47 ~ 63 Hz |
| | Output | Input AC current | Max. 1.4 A at 90 Vac |
| | | Output power | 45 W |
| | | DC output | 19.5 V |
| | | Hold-up time | 5 ms at 115 Vac input |
| | | Output current limit | <8.0A |
| | Connector | C6 (3pin/with grounded, with Smart ID DC connector) | |
| | Environmental Design | Operating temperature | 32°F to 95°F (0°to 35°C) |
| | | Non-operating (storage) temperature | -4°F to 185°F (-20°to 85°C) |
| | | Altitude | 0 to 16,400 ft (0 to 5000m) |
| | | Humidity | 20% to 95% |
| | | Storage Humidity | 10% to 95% |
| EMI and Safety 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. | | |

| | | |
|---|--|--|
| HP 3-cell Long Life Li-Ion (41 Wh) | Dimensions (H x W x L) | 6.0. x 186.85 x 90.2 mm (0.236 x 7.35 x 3.55 inch) |
| | Weight | 0.175 kg (0.37 lb) |
| | Cells/Type | 3 cell Lithium-Ion Polymer cell / 515974 |
| | Energy | |
| | Voltage | 11.4 V / 11.34 V |
| | Amp-hour capacity | 3.6 Ah / 3.62 Ah |
| | Watt-hour capacity | 41 Wh |
| | Temperature | |
| | Operating (Charging) | 32° to 113° F (0° to 45° C) |
| | Operating (Discharging) | 14° to 122° F (-10° to 60° C) |
| | Fuel Gauge LED | NA |
| | Warranty | 1-year |
| | Optional Travel Battery Available | No |



Technical Specifications

| | | |
|---|--|---|
| HP 4-cell Long Life Li-Ion (46 Wh) | Dimensions (H x W x L) | 7.51. x 186.85 x 90.2 mm (0.295 x 7.35 x 3.55 inch) |
| | Weight | 0.20 kg (0.44 lb) |
| | Cells/Type | 4 cell Lithium-Ion Polymer cell / 336975 |
| | Energy | |
| | Voltage | 15.4 V |
| | Amp-hour capacity | 2.988 Ah |
| | Watt-hour capacity | 46 Wh |
| | Temperature | |
| | Operating (Charging) | 32° to 113° F (0° to 45° C) |
| | Operating (Discharging) | 14° to 122° F (-10° to 60° C) |
| | Fuel Gauge LED | NA |
| | Warranty | 1-year |
| | Optional Travel Battery Available | No |

COUNTRY OF ORIGIN

China



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

| Type | Description | Part Number |
|---------------------|--|-------------|
| Cases | HP Prelude Pro Top Load | 1X645AA |
| | HP Prelude Pro Backpack | 1X644AA |
| | HP Prelude Top Load 15.6 | 1E7D7AA |
| | HP Prelude Backpack 15.6 | 1E7D6AA |
| Docking | HP 4.5 mm and USB-C® Dock Adapter G2 | 6LX61AA |
| Input/Output | HP USB Essential Keyboard/Mouse | H6L29AA |
| | HP Wired Desktop 320MK Mouse and Keyboard | 9SR36AA |
| | HP Slim Wireless Keyboard & Mouse | T6L04AA |
| | HP Wired Desktop 320K Keyboard | 9SR37AA |
| | HP Slim Wireless Keyboard (Link-5) | T6U20AA |
| | HP 3-Button USB Laser Mouse | H4B81AA |
| | HP Essential USB Mouse | 2TX37AA |
| | HP USB Travel Mouse | G1K28AA |
| | HP Bluetooth Travel Mouse | 6SP30AA |
| | HP Comfort Grip Wireless Mouse | H2L63AA |
| | HP Wired Desktop 320M Mouse | 9VA80AA |
| | HP HDMI to VGA Adapter | H4F02AA |
| | HP HDMI to DVI | F5A28AA |
| Power | HP 45W Smart AC Adapter | H6Y88AA |
| | HP 65W Smart AC Adapter | H6Y89AA |
| | HP 65W Slim Adapters (w/ detachable DC cable + TIPS) | H6Y82AA |
| Storage | HP External USB Optical Drive | F2B56AA |



Summary of Changes

| Date of change: | Version History: | | Description of change: |
|-------------------|------------------|---------|---|
| | V1 to V2 | | USB Information Updated |
| January 28, 2021 | V2 to V3 | Update | Primary Battery Updated |
| February 12, 2021 | V3 to V4 | Update | Processors Section and added Battery Spec |
| February 25, 2021 | V4 to V5 | Update | Xerox DocuShare offer value |
| April 20, 2021 | V5 to V6 | Update | TechSpecs/Memory Modules |
| May 6, 2021 | V6 to V7 | Added | HP Smart Support |
| June 10, 2021 | V7 to V8 | Update | Security lock slot in Overview section |
| June 14, 2021 | V8 to V9 | Added | New WLAN in Networking/Communications section |
| July 6, 2021 | V9 to V10 | Added | Battery disclaimer |
| October 12, 2021 | V10 to V11 | 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) |
| October 15, 2021 | V11 to V12 | Removed | Memory from Options and Accessories section |
| December 13, 2021 | V12 to V13 | Update | OS footnotes |
| April 20, 2022 | V13 to V14 | Added | Reference for USB Ports |
| July 21, 2022 | V14 to V15 | Removed | HP USB-C®/A Universal Dock G2 from Docking Options |
| August 8, 2022 | V15 to V16 | Updated | Memory Slots |
| | V16 to V17 | | |
| | | | |

Copyright © 2021 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.

AMD and Radeon are trademarks of Advanced Micro Devices, Inc. Bluetooth is a trademark owned by its proprietor and used by HP Inc. under license. USB Type-C® and USB-C® are registered trademarks of USB Implementers Forum. ENERGY STAR is a registered trademark of the U.S. Environmental Protection Agency. All other trademarks are the property of their respective owners.

