

Overview

HP 255 G7 Notebook PC



1. Webcam LED
2. Webcam
3. Internal microphone
4. Touchpad
5. Touchpad button
6. Audio combo jack

Left

7. USB 3.1 Gen 1 port
8. USB 3.1 Gen 1 port
9. HDMI port (Cable not included)
10. RJ-45/Ethernet port
11. AC Smart Pin adapter plug
12. Power button

Overview



Right

1. Security lock slot (Lock sold separately)
2. Optical drive (optional)
3. USB 2.0 port
4. SD Card slot
5. Hard drive indicator LED
6. Power indicator LED

Overview

AT A GLANCE

- Preinstalled with Windows 10 versions or FreeDOS
- Choice of AMD Ryzen™ processors
- 15" (39.6 cm) diagonal FHD/HD Anti-Glare Display
- Choice of Integrated Intel® UHD Graphics 620, HD Graphics 620 or Switchable Discrete Graphics NVIDIA Geforce MX110
- Dark Ash Silver or Asteroid Silver color with texture pattern (Color options available in select countries)
- Up to 1TB Hard Drive or 256 GB M.2 PCIe Value Solid State Drive
- Weight starting at 1.78Kgs (3.91 lbs)
- Security features including FW TPM 2.0 and security lock slot (Lock not included)
- Keyboard - Full size textured island-style keyboard with numeric pad
- Touchpad with gestures support
- HP webcam with single digital microphone and HD (supporting WDR- Wide Dynamic Range) or VGA camera
- Two USB 3.1 (Gen 1) ports and One USB 2.0 port
- Wireless LAN (WLAN) up to 802.11ac to keep you connected
- Battery Life up to 10 hours and 30 minutes

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

Features

PRODUCT NAME

HP 255 G7 Notebook PC

OPERATING SYSTEM

| | |
|------------------------|--|
| Preinstalled OS | Windows 10 Pro 64 ¹ Windows 10 Home 64 ¹ Windows 10 Home Single Language 64 ¹ Windows 10 Pro 64 (National Academic only) ² FreeDOS |
|------------------------|--|

1. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 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/>.

2. Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see <https://aka.ms/ProEducation> for Windows 10 Pro Education feature information.

PROCESSOR

AMD Ryzen™ 5 2500U APU with Radeon™ Vega Graphics (2 GHz base frequency, up to 3.6 GHz burst frequency, 6 MB cache, 4 cores)^{3,4,5}

AMD Ryzen™ 3 2200U APU with Radeon™ Vega Graphics (2.5 GHz base frequency, up to 3.4 GHz burst frequency, 5 MB cache, 2 cores)^{3,4,5}

AMD A9-9425 APU with Radeon™ R5 Graphics (3.1 GHz base frequency, up to 3.7 GHz burst frequency, 1 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}

Processor Family

AMD Ryzen™ 5 Mobile Processors⁵

AMD Ryzen™ 3 Mobile Processors⁵

7th Generation AMD A9 APU processor (A9-9425)⁵

7th Generation AMD A6 APU processor (A6-9225)⁵

7th Generation AMD A4 APU processor (A4-9125)⁵

3. Multi core 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, branding and/or naming is not a measurement of clock speed.

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

Features

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

Chipset is integrated with processor

GRAPHICS

Integrated

AMD Radeon Vega 8 Mobile Graphics
AMD Radeon Vega 3 Mobile Graphics
AMD Radeon™ R5 Graphics
AMD Radeon™ R4 Graphics
AMD Radeon™ R3 Graphics

Supports

Support HD decode, DX12, HDMI 1.4b⁶

6. HDMI cable sold separately.

DISPLAY

Internal

Non-Touch

39.6 cm (15.6") diagonal HD SVA eDP anti-glare WLED-backlit slim, 220 cd/m², 67% sRGB (1366 x 768)^{7,8}

39.6 cm (15.6") diagonal FHD SVA eDP anti-glare WLED-backlit slim, 220 cd/m², 67% sRGB (1920 x 1080)^{7,8}

HDMI

Port supports resolutions up to 1920 x 1200 external resolution @60 Hz

7. 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

1 TB 5400 rpm SATA⁹
500 GB 7200 rpm SATA⁹
500 GB 5400 rpm SATA⁹

Primary M.2 Storage

128 GB SATA-3 TLC Solid State Drive⁹
256 GB SATA-3 TLC Solid State Drive⁹
256 GB PCIe Gen3x4 NVMe Value Solid State Drive⁹

Features

9. 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

8 GB DDR4-2400 SDRAM¹⁰

8 GB DDR4-1866 SDRAM¹⁰

Memory

8 GB DDR4-2400 SDRAM (1 x 8 GB)

8 GB DDR4-2400 SDRAM (2 x 4 GB)¹⁰

4 GB DDR4-2400 SDRAM (1 x 4 GB)

8 GB DDR4-1866 SDRAM (1 x 8 GB)

4 GB DDR4-1866 SDRAM (1 x 4 GB)

8 GB DDR4-1866 SDRAM (2 X 4 GB)

Memory Slots

2 SODIMM (AMD Ryzen™ Mobile Processors)

DDR4 PC4 SODIMMS, system runs at 2400 (AMD Ryzen™ Mobile Processors)

1 SODIMM (7th Generation AMD APU processor)

Supports Dual Channel Memory¹¹

DDR4 PC4 SODIMMS, system runs at 1866 (7th Generation AMD APU processor)

All slots are customer non-accessible / non-upgradeable

10. 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.

11. Dual channel memory support only for AMD Ryzen™ APU processors.

NETWORKING/COMMUNICATIONS

WLAN

Realtek 802.11ac (1x1) and Bluetooth® 4.2 Combo¹²

Miracast

Compatible with Miracast-certified devices¹³

Ethernet

Integrated 10/100/1000 GbE NIC

12. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.

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

AUDIO/MULTIMEDIA

Audio

2 Integrated stereo speakers

Camera

HP TrueVision HD Camera^{7,14}

Webcam

VGA webcam¹⁴

Optical Drive

Optional DVD-Writer^{15,16}

7. HD content required to view HD images.

14. Sold separately or as an optional feature.

15. Unit shipped with either "DVD+/-RW SuperMulti DL" or "DVD Writer Drive." Units undergoing repairs may be returned with a "DVD+/-RW SuperMulti DL."

16. HD-DVD disks cannot be played on this drive. No support for DVDRAM. Actual speeds may vary. Don't copy copyright protected materials. Double Layer discs can store more data than single layer discs; discs burned with this drive may not be compatible with many existing single-layer DVD drives and players.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

Keyboard - Full size textured island-style keyboard with numeric pad

Pointing Device

Touchpad with multi-touch gesture support

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

HP JumpStart

HP Documentation

HP Setup Integrated OOBE

HP SSRM

HP Audio Switch

HP Support Assistant¹⁷

McAfee LiveSafe™

Security Management

TPM 2.0¹⁸

Security lock slot (Lock sold separately)

17. HP Support Assistant requires Windows and Internet access.

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). 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).

POWER

Power Supply

65 W EM Smart AC adapter¹⁹

45 W Smart AC adapter¹⁹

Primary Battery

3-cell, 41 Wh Li-ion Battery²⁰

Power Cord

1M (3.28 feet) length power cord¹⁹

Battery Life

Up to 10 hours and 30 minutes hrs²¹

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 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 3.91 lbs²²

Starting at 1.78 kgs²²

Product Dimensions (w x d x h)

14.8 x 9.68 x 0.89 in

37.6 x 24.6 x 2.25 cm

22. Weight will vary by configuration.

PORTS/SLOTS

Ports

2 USB 3.1 Gen 1

1 USB 2.0

1 HDMI v1.4b⁶

1 RJ-45

- 1 AC power
- 1 Headphone/microphone combo jack

Expansion Slots

- 1 multi-format digital media reader
- Supports SD, SDHC, SDXC

6. HDMI cable sold separately.

SERVICE AND SUPPORT

HP Services offers 1-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year limited warranty as the platform. 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>.²³

23. 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.

SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)

| | |
|---------------------------|-----------------------------|
| Nominal Operating Voltage | 19.5 V |
| Average Operating Power | Win 10 |
| Integrated graphics | 6.87W |
| 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 |

Planned Industry Standard Certifications

| | |
|---------------------------------|-----------------------------------|
| UL | Yes |
| CSA | No |
| FCC Compliance | Yes |
| ENERGY STAR® | Yes ²⁴ |
| EPEAT® 2019 | Yes, Silver in U.S. ²⁵ |
| ICES | Yes |
| Australia / | Yes |
| NZ A-Tick Compliance | Yes |
| CCC | Yes |
| Japan VCCI Compliance | Yes |
| KC | Yes |
| BSMI | Yes |
| CE Marking Compliance | Yes |
| BNCI or BELUS | Yes |
| CIT | Yes |
| GOST | Yes |
| Saudi Arabian Compliance (ICCP) | Yes |
| SABS | Yes |

24. Configurations of the HP 255 G7 that are ENERGY STAR® certified are identified as HP 255 G7 ENERGY STAR on HP websites and on <http://www.energystar.gov>.

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

DISPLAYS

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

| | | | | |
|---|--|-------------------------|-----------------|--|
| 15.6" diagonal HD WLED AntiGlare (1366x768) slim-flat (3.2mm) SVA, eDP | Outline Dimensions (W x H x D) | 360 x 224.3 x 3.2 (max) | | |
| | Active Area | 344.2 x 193.5 | | |
| | Weight | 420 max. | | |
| | Diagonal Size | 15.6 (inch) | | |
| | Thickness | 3.2mm max | | |
| | Interface | eDP 1.2 (1 lane) | | |
| | Surface Treatment | Anti-glare (AG) | | |
| | Touch Enabled | NO | | |
| | Contrast Ratio | 300:1 (typ) | | |
| | Refresh Rate | 60Hz | | |
| | Brightness | 220 nit typ | | |
| | Pixel Resolution | Format | 1366 x 768 (HD) | |
| | | Configuration | RGB | |
| | Backlight | LED | | |
| | Color Gamut Coverage | 45% | | |
| | Color Depth | 6 bits (Hi FRC) | | |
| | Viewing Angle | SVA 40/40/15/30 | | |

| | | | | |
|---|--|----------------------|-------------------|--|
| 15.6" diagonal FHD WLED AntiGlare (1920x1080) slim-flat (3.2mm) SVA, eDP | Outline Dimensions (W x H x D) | 360.0 x 224.3mm max | | |
| | Active Area | 344.16 x 193.59 | | |
| | Weight | 370g max. | | |
| | Diagonal Size | 15.6 (inch) | | |
| | Thickness | 3.2mm max | | |
| | Interface | eDP 1.2 | | |
| | Surface Treatment | Anti-glare (AG) | | |
| | Touch Enabled | NO | | |
| | Contrast Ratio | 300:1 (typ) | | |
| | Refresh Rate | 60Hz | | |
| | Brightness | 220 nit typ | | |
| | Pixel Resolution | Format | 1920 x 1080 (FHD) | |
| | | Configuration | RGB | |
| | Backlight | LED | | |

| | |
|-----------------------------|-----------------|
| Color Gamut Coverage | 45% |
| Color Depth | 6 bits + FRC |
| Viewing Angle | SVA 45/45/25/35 |

STORAGE AND DRIVES

500 GB 5400 rpm SATA Hard Drive

| | |
|------------------------------|--|
| Drive Weight | 92g(0.20lb) |
| Rotation speed | 5400 rpm |
| Cache Buffer | Up to 128MB |
| Height | 7.0 +/- 0.2 mm (0.28 +/- .008 in) |
| Width | 69.85 +/- 0.25 mm (2.750 +/- 0.010 in) |
| Interface | ATA-8, SATA 3.0 |
| Transfer Rate | 600 MB/s |
| Seek Time | Single Track: 2 ~ 1.5 ms Average: 11 ~ 16 ms Maximum: 18 ~ 22 ms |
| Logical Blocks | 976,773,168 |
| Operating Temperature | 0° to 60°C |
| Security Features | ATA Security |
| Features | S.M.A.R.T., NCQ, Ultra DMA |

500 GB 7200 rpm SATA Hard Drive

| | |
|------------------------------|--|
| Drive Weight | <95g (0.209lb) |
| Rotation speed | 500 GB |
| Cache Buffer | 6.8 +/- 0.2 mm (0.268 +/- .008 in) |
| Height | 7.0 +/- 0.2 mm (0.28 +/- .008 in) |
| Width | 69.85 +/- 0.25 mm (2.750 +/- 0.010 in) |
| Interface | ATA-8, SATA 3.0 |
| Transfer Rate | 600 MB/s |
| Seek Time | Single Track: 2 ~ 1.5 ms Average: 11 ~ 13 ms Maximum: 18 ~ 22 ms |
| Logical Blocks | 976,773,168 |
| Operating Temperature | 0° to 60°C |
| Security Features | ATA Security |
| Features | S.M.A.R.T., NCQ, Ultra DMA |

1 TB 5400 rpm SATA Hard Drive

| | |
|-----------------------|--------------|
| Drive Weight | 90g(0.198lb) |
| Rotation speed | 5400 rpm |
| Cache Buffer | Up to 128MB |
| Height | <7.2mm |

| | |
|------------------------------|--|
| Width | 69.85 +/- 0.25 mm (2.750 +/- 0.010 in) |
| Interface | ATA-8, SATA 3.0 |
| Transfer Rate | 600 MB/s |
| Seek Time | Single Track: 2 ~ 1.5 ms Average: 11 ~ 16 ms Maximum: 18 ~ 22 ms |
| Logical Blocks | 976,773,168 |
| Operating Temperature | 0° to 60°C |
| Security Features | ATA Security |
| Features | S.M.A.R.T., NCQ, Ultra DMA |

128 GB 2280 M2 SATA-3 TLC Solid State Drive

| | |
|------------------------------|--|
| Drive Weight | 0.02 lb (10 g) |
| Height | 0.09 in (2.3 mm) |
| Width | 0.87 in (22 mm) |
| Interface | ATA-8, SATA 3.0 |
| Transfer Rate | 550MB/s |
| Logical Blocks | 250,069,680 |
| Operating Temperature | 32° to 158°F (0° to 70°C) [ambient temp] |
| Security Features | ATA Security |
| Features | DIPM; TRIM; DEVSLP |

256 GB 2280 M2 SATA-3 TLC Solid State Drive

| | |
|------------------------------|--|
| Drive Weight | 0.02 lb (10 g) |
| Height | 0.09 in (2.3 mm) |
| Width | 0.87 in (22 mm) |
| Interface | ATA-8, SATA 3.0 |
| Transfer Rate | 550MB/s |
| Logical Blocks | 500,118,192 |
| Operating Temperature | 32° to 158°F (0° to 70°C) [ambient temp] |
| Security Features | ATA Security |
| Features | DIPM; TRIM; DEVSLP |

256 GB 2280 M2 PCIe NVMe Value Solid State Drive

| | |
|--------------------|--------------------------------|
| Form Factor | M.2 2280 |
| Capacity | 256 GB |
| NAND Type | TLC |
| Height | 0.09 in (2.3 mm) |
| Width | 0.87 in (22 mm) |
| Weight | 0.01 lb (6 g) ~ 0.02 lb (10 g) |
| Interface | PCIe NVMe Gen3x2 |

| | |
|---------------------------------|--|
| Maximum Sequential Read | Up To 1500 MB/s |
| Maximum Sequential Write | Up To 1000 MB/s |
| Logical Blocks | 500,118,192 |
| Operating Temperature | 32° to 158°F (0° to 70°C) [ambient temp] |
| Features | DIPM; TRIM; DEVSLP |

NETWORKING/COMMUNICATIONS

WLAN

**Realtek RTL8821CE
802.11ac 1x1 WiFi +
Bluetooth® 4.2 Combo
Adapter (MU-MIMO
supported)**

| | |
|------------------------------------|--|
| Wireless LAN Standards | IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac |
| Interoperability | Wi-Fi® certified |
| Frequency Band | 802.11b/g/n •2.402 – 2.482 GHz 802.11a/n •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 | <ul style="list-style-type: none"> • 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 |
| Security³ | <ul style="list-style-type: none"> • 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 • Cisco Certified Extensions, all versions through CCX4 and CCX Lite • WAPI |
| Network Architecture Models | Ad-hoc (Peer to Peer) Infrastructure (Access Point Required) |

| | |
|---|---|
| Roaming | IEEE 802.11 compliant roaming between access points |
| Output Power² | <ul style="list-style-type: none"> • 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: 2.0 W (max) Receive: 1.6 W (max) Idle mode (PSP): 180 mW (WLAN Associated) Idle mode: 50 mW (WLAN unassociated) Connect Standby: 10 mW (WLAN+BT) Radio disabled: 8 mW |
| Power Management | ACPI and PCI Express compliant power management 802.11 compliant power saving mode |
| Receiver Sensitivity³ | 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 White – Radio ON |
| | <ol style="list-style-type: none"> 1. Check latest software/driver release for updates on supported security features. 2. Maximum output power may vary by country according to local regulations. 3. 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) |
| Signaling Data Rate | Legacy: 3 Mbps signaling data rate up to 2.17 Mbps BLE: 1 Mbps signaling data rate 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. |

POWER

HP 65 W Smart AC adapter

| | |
|--------------------------------------|--|
| Dimensions (H x W x D) | 108 x 47 x 37.4mm |
| Weight | 250g |
| Input | 100 to 240 VAC |
| | Input Efficiency 88.0 % at 115 VAC and 89.0 % at 230VAC |
| | Input frequency range 50~ 60 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 The power supply shall limit the maximum steady state output current to an average current of 11 Amperes. |
| Connector | 4.5mm Barrel Type |
| Environmental Design | Operating temperature 32° to 95° F (0° to 35° C) |
| | Non-operating (storage) temperature -4° to 185° F (-20° to 85° C) |
| | Altitude The power supply can be operated at 5,000 m above sea level |
| | Humidity The power supply shall withstand without degradation with 95% relative humidity, non-condensing, both operating and non-operating |
| 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 | Dimensions (H x W x D) | 95x40x26.5mm | |
| | Weight | 200g | |
| | Input | 100 to 240 VAC | |
| | Output | Input Efficiency | 87.8 % at 115 VAC and 88.5 % at 230VAC |
| | | Input frequency range | 50~ 60 Hz |
| | | Input AC current | Max. 1.4 A at 90 VAC |
| | | Output power | 45W |
| | | DC output | 19.5V |
| | | Hold-up time | 5ms at 115 VAC input |
| | | Output current limit | The power supply shall limit the maximum steady state output current to an average current of 8 Amperes. |
| | Connector | 4.5mm Barrel Type | |
| | Environmental Design | Operating temperature | 32° to 95° F (0° to 35° C) |
| | | Non-operating (storage) temperature | -4° to 185° F (-20° to 85° C) |
| | | Altitude | The power supply can be operated at 5,000 m above sea level |
| Humidity | | The power supply shall withstand without degradation with 95% relative humidity, non-condensing, both operating and non-operating | |
| 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 65 W Smart AC adapter (EM) | Dimensions (H x W x D) | 102x55x30mm | |
| | Weight | 270g | |
| | Input | 100 to 240 VAC | |
| | Output | Input Efficiency | 88.0 % at 115 VAC and 89.0 % at 230VAC |
| | | Input frequency range | 50~ 60 Hz |
| | | Input AC current | Max. 1.7 A at 90 VAC |
| | | Output power | 65W |
| | | DC output | 19.5V |
| | | Hold-up time | 5ms at 115 VAC input |
| | | Output current limit | The power supply shall limit the maximum steady state output current to an average current of 11 Amperes. |
| | Connector | 4.5mm Barrel Type | |
| | Environmental Design | Operating temperature | 32° to 95° F (0° to 35° C) |
| | | Non-operating (storage) temperature | -4° to 185° F (-20° to 85° C) |

Altitude The power supply can be operated at 5,000 m above sea level

Humidity The power supply shall withstand without degradation with 95% relative humidity, non-condensing, both operating and non-operating

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 Li-Ion (41 WHr)

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 0.18 kg (0.39 lb)
Cells/Type 3cell Lithium-Ion Polymer cell / 515974
Voltage 11.4V
Amp-hour capacity 3.6Ah
Watt-hour capacity 41Wh
Operating (Charging) 32° to 113° F (0° to 45° C)
Operating (Discharging) 14° to 122° F (-10° to 60° C)
Optional Travel Battery Available No

HP 3-cell Li-Ion (41 WHr)

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 0.19 kg (0.41 lb)
Cells/Type 3cell Lithium-Ion Prismatic cell / 496080
Voltage 11.55V
Amp-hour capacity 3.615Ah/3.63Ah
Watt-hour capacity 41Wh
Operating (Charging) 32° to 113° F (0° to 45° C)
Operating (Discharging) 14° to 122° F (-10° to 60° C)
Optional Travel Battery Available No

Country of Origin

China

| Category | Description | Part Number |
|---------------------|--|-------------|
| Cases | HP Essential Top Load Case | H2W17AA#xxx |
| | HP Essential Backpack (up to 15.6") | H1D24AA |
| | HP Essential Messenger Case (up to 17.3") | H1D25AA |
| Docking | HP 3005PR USB3 Port Replicator | Y4H06AA |
| | HP USB Travel Dock | TOK30AA |
| | HP Monitor Stand | M9X76AA |
| Input/Output | HP Slim USB Keyboard and Mouse | T6T83AA |
| | HP Slim Wireless Keyboard and Mouse | T6L04AA |
| | HP 3-Button USB Laser Mouse | H4B81AA |
| | HP USB Travel Mouse | G1K28AA |
| | HP Comfort Grip Wireless Mouse | H2L63AA |
| | HP Ultra Mobile Wireless Mouse | H6F25AA#xxx |
| | HP HDMI to DVI Adapter | F5A28AA |
| | HP Stereo USB Headset | T1A67AA |
| | HP Stereo 3.5mm Headset | T1A66AA |
| Power | HP 45W Smart AC Adapter 4.5mm | H6Y88AA#XXX |
| | HP 65W Smart AC Adapter | H6Y89AA#xxx |
| | HP 65W Slim AC Adapter | H6Y82AA#xxx |
| Storage | HP External USB Optical Drive | F2B56AA |
| Memory | HP 4GB 2666Mhz DDR4 | 4VN05AA |
| | HP 8GB 2666Mhz DDR4 | 4VN06AA |
| Displays | HP S140u 14-inch Portable Display | G8R65AA |
| | HP ProDisplay P223 21-5 inch Monitor | X7R61AA |
| | HP ProDisplay P232 23-inch Monitor | K7X31AA |
| | HP ProDisplay P240va 23.8-inch Monitor | N3H14AA |
| | HP EliteDisplay S14 14-inch USB-C Portable Monitor | 3HX46AA |

Summary of Changes

| Date of change: | Version History: | | Description of change: |
|------------------------|-------------------------|---------|-------------------------------|
| January 2, 2019 | From v1 to v2 | Removed | Memory 16 GB |
| March 1, 2019 | From v2 to v3 | Removed | USB-C Travel Dock |
| March 4, 2019 | From v3 to v4 | Removed | Battery Life |
| March 18, 2019 | From v4 to v5 | Added | Battery Life |
| May 17, 2019 | From v5 to v6 | Updated | Memory Section |
| June 13, 2019 | From v6 to v7 | Updated | EPEAT |
| | | | |
| | | | |

Copyright © 2019 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 is a trademark of Advanced Micro Devices, Inc. USB Type-C™ and USB-C™ are trademarks of USB Implementers Forum. SD, SDHC and SDXC are registered trademarks of SD-3C in the United States, other countries or both. ENERGY STAR is a registered trademark of the U.S. Environmental Protection Agency. All other trademarks are the property of their respective owners.