Overview

HP EliteBook 855 G7 Notebook PC



Left

- 1. Ambient Light Sensor (Optional)
- 2. Internal microphones (2)
- 3. Webcam LED (Optional)
- 4. Camera Shutter
- 5. HD and IR Camera (Optional)
- 6. IR Camera LEDs (Optional)

- 7. Glass Clickpad
- 8. Optional Smartcard reader
- 9. Audio Combo Jack
- 10. USB 3.1 Gen 1
- 11. Standard Security Lock Slot (Lock sold separately)

Overview



Right

- 1. Power Connector
- 2. USB 3.1 Gen 1 Port
- 3. HDMI port (Cable not included)
- 4. USB-C® (Alt Mode, 3.1 Gen2)
- **5.** USB-C[®] (Alt Mode, 3.1 Gen2)

- 6. Nano Sim
- 7. HP Fingerprint Sensor (select models)

1. All units have a SIM card stray but units that do not support WWAN are shipped with a non-removable SIM slot plug

Overview

AT A GLANCE

- Preinstall Windows 10, FreeDOS 3.0
- AMD® Ryzen Pro 4000 processors
- Display include your choice of 39.6cm (15") diagonal IPS Wide viewing Angle, FHD or UHD, Touch or Non-Touch
- AMD Radeon™ Vega UMA Graphics
- Enterprise grade security with HP Sure Sense⁴, HP Sure Start Gen6, HP Privacy Camera, HP Sure Run Gen3, HP Sure Recover Gen3, HP Sure Click, SmartCard Reader¹ and Touch Fingerprint reader⁵ (select models)
- Passed 19 MIL-STD 810H testing, plus an additional 120,000 hours of reliability testing through HP's Total Test Process³
- Weight starting at 3.74 lb (1.690 kg)
- Battery life up to 26 hours and 15 minutes
- Supports wireless LAN and wireless WAN options for connectivity on the go
- Up to 1 TB Solid State Drives
- Up to 32 GB total system memory
- 720p HD webcam, IR camera for face authentication with Windows Hello
- Designed to support USB-C[®] and Thunderbolt HP docking options²
- Full size, backlit, Keyboard and Clickpad with image sensor and glass surface, multi-touch gestures enabled, taps enabled as default
- Enables AMD Memory Guard to help defend against cold boot attacks with real-time encryption and decryption of system's memory
- Support HP Sure View Reflect with Optional 1000 nit Anti-Glare Privacy Screen which prevents visual hacking
- 1. Sold separately or as an optional feature
- 2. Recharges your battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.
- 3. MIL-STD-810G testing is not intended to demonstrate fitness of U.S. Department of Defense (DoD) contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.
- 4. HP Sure Sense requires Windows 10. See product specifications for availability.
- 5. HP Fingerprint Sensor is an optional feature and requires configuration at purchase.

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



Technical Specifications

PRODUCT NAME

HP EliteBook 855 G7 Notebook PC

OPERATING SYSTEM

Preinstalled

Windows 10 Pro 64 – HP recommends Windows 10 Pro for business¹

Windows 10 Pro 64 (National Academic only)2

Windows 10 Home 641

Windows 10 Home Single Language 641

Windows 10 Pro (Windows 10 Enterprise available with a Volume Licensing Agreement)¹

FreeDOS (Planned to be available December 2020)

- 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.

Note: Your product does not support Windows 8 or Windows 7. 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. A full list of HP products and the Windows 10 versions tested is available on the HP support website. https://support.hp.com/us-en/document/c05195282

HP tested Windows 10, version 1809 on this platform For testing information on newer versions of Windows 10, please see: https://support.hp.com/document/c05195282.

FreeDOS planned to be available September 2020.

PROCESSORS

AMD Ryzen™ 3 PRO 4450U APU with Radeon™ Graphics (2.5 GHz base clock, up to 3.8 GHz max boost clock, 4 MB L3 cache, 4 cores)^{3,4,5}

AMD Ryzen™ 5 PRO 4650U APU with Radeon™ Graphics (2.1 GHz base clock, up to 4 GHz max boost clock, 8 MB L3 cache, 6 cores)^{3,4,5}

AMD Ryzen™ 7 PRO 4750U APU with Radeon™ Graphics (1.7 GHz base clock, up to 4.1 GHz max boost clock, 8 MB L3 cache, 8 cores)^{3,4,5}

Processor Family

2nd Gen AMD® Ryzen™ PRO processor



Technical Specifications

- 3. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. AMD's numbering is not a measurement of clock speed.
- 4. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
- 5. In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com.

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

AMD Radeon™ Graphics⁶

Supports

Support HD decode, DX12, HDMI2.0

6. HD content required to view HD images.

DISPLAY

Non-Touch

39.6 cm (15.6") diagonal FHD IPS eDP anti-glare WLED-backlit bent, 250 nits, 45% NTSC (1920 x 1080) 6,7,8

39.6 cm (15.6") diagonal FHD IPS eDP anti-glare WLED-backlit bent, 250 nits, 45% NTSC for HD camera (1920 x 1080) 6,7,8

39.6 cm (15.6") diagonal FHD IPS eDP anti-glare WLED-backlit bent, 250 nits, 45% NTSC for HD + IR camera (1920 x 1080) 6.7.8

39.6 cm (15.6") diagonal FHD IPS eDP anti-glare WLED-backlit bent, 250 nits, 45% NTSC for WWAN (1920 x 1080) 6,7,8

39.6 cm (15.6") diagonal FHD IPS eDP anti-glare WLED-backlit bent, 250 nits, 45% NTSC for HD camera for WWAN (1920 \times 1080) 6,7,8

39.6 cm (15.6") diagonal FHD IPS eDP anti-glare WLED-backlit bent, 250 nits, 45% NTSC for HD + IR camera for WWAN (1920 x 1080) 6,7,8

39.6 cm (15.6") diagonal FHD IPS eDP + PSR anti-glare WLED-backlit bent, 400 nits, 100% sRGB with Ambient Light Sensor and HD + IR camera with Low Power (1920 x 1080) ^{6,7,8,9}

39.6 cm (15.6") diagonal FHD IPS eDP + PSR anti-glare WLED-backlit bent, 400 nits, 100% sRGB with Ambient Light Sensor and HD + IR camera for WWAN with Low Power (1920 x 1080) ^{6,7,8,9}

39.6 cm (15.6") diagonal FHD IPS eDP + PSR anti-glare WLED-backlit bent, 1000 nits with HP Sure View Integrated Privacy Screen, 72% NTSC with Ambient Light Sensor and HD + IR camera (1920 x 1080) ^{6,7,8,9}

39.6 cm (15.6") diagonal FHD IPS eDP + PSR anti-glare WLED-backlit bent, 1000 nits with HP Sure View Integrated Privacy Screen, 72% NTSC with Ambient Light Sensor and HD + IR camera for WWAN (1920 x 1080) ^{6,7,8,9}



Technical Specifications

Touch

39.6 cm (15.6") diagonal FHD IPS eDP anti-glare On-Cell WLED-backlit bent touch screen, 250 nits, 45% NTSC with HD+IR camera (1920 x 1080) 6,7,8

39.6 cm (15.6") diagonal FHD IPS eDP anti-glare On-Cell WLED-backlit bent touch screen, 250 nits, 45% NTSC, for HD+IR camera for WWAN (1920 \times 1080) $^{6.7,8}$

- 6. HD content required to view HD images.
- 7. Sold separately or as an optional feature.
- 8. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 9. HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.

Docking station model	Total number of supported displays (incl. the notebook) display)	Max. resolutions supported	Dock Connectors	Technical limitations
HP Thunderbolt Dock G2	4	Dual 4K @ 60Hz	2xDP, 1xVGA, 1xTB, 1xUSB-C alt- mode	Dual 4k (4096 x 2160) only with: • 1 DP + TB port or • USB-C alt mode + TB port Dual 4K (3840 x 2160) with any of the DP, TB or USB-C alt mode video ports
HP Elite USB-C Dock G5	4	Three 1680x1050 @ 60 Hz Dual 2K @ 60Hz Single 4K @ 60Hz (3840 x 1440)	1xHDMI, 2xDP	
HP USB-C Universal Dock G2	4	Dual 4K @ 60Hz Single 5K @ 60Hz	1xHDMI, 2xDP	
HP USB-C Travel Dock	2	Single 2K @ 60Hz	1xHDMI, 1xVGA	Single external display Only HDMI or VGA at the time



Technical Specifications

STORAGE AND DRIVES

Primary M.2 Storage

128 GB M.2 SATA-3 TLC¹⁰
256 GB PCIe® Gen3x4 NVMe™ TLC Opal 2¹⁰
256 GB PCIe® Gen3x4 NVMe™ SS TLC¹⁰
512 GB PCIe® Gen3x4 NVMe™ M.2 SS TLC¹⁰
1 TB PCIe® Gen3 x4 NVMe™ SS TLC¹⁰
256 GB PCIe® NVMe™ Value¹⁰
512 GB PCIe® NVMe™ Value¹⁰
512 GB PCIe® Gen3x4 NVMe™ TLC Opal 2¹⁰

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

32 GB DDR4-3200 SDRAM

Memory

```
32 GB DDR4-3200 SDRAM (2 x 16 GB)<sup>11</sup>
24 GB DDR4-3200 SDRAM (16 GB (1 x 16 GB) and 8 GB (1 x 8 GB))<sup>11</sup>
20 GB DDR4-3200 SDRAM (16 GB (1 x 16 GB) and 4 GB (1 x 4 GB))<sup>11</sup>
16 GB DDR4-3200 SDRAM (1 x 16 GB)<sup>11</sup>
16 GB DDR4-3200 SDRAM (2 x 8 GB)<sup>11</sup>
12 GB DDR4-3200 SDRAM (8 GB (1 x 8 GB) and 4 GB (1 x 4 GB))<sup>11</sup>
8 GB DDR4-3200 SDRAM (1 x 8 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>
```

Memory Slots

2 SODIMM

Both slots are customer accessible / upgradeable

DDR4 SODIMMS, system runs at 3200

Supports Dual Channel Memory

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

Intel® AX200 Wi-Fi 6 (2x2) and Bluetooth® 5 Combo, non-vPro™ (supporting gigabit file transfer speeds)¹² Realtek RTL8822BE 802.11ac (2x2) and Bluetooth® 5 Combo¹²

WWAN

Intel® XMM™ 7360 LTE-Advanced Cat 913,16,18

NFC

NXP NPC300 Near Field Communication Module

Miracast

Native Miracast Support15

Ethernet

Realtek PCIe GbE Family Controller 10/100/1000¹⁴

- 12. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 (802.11ax) are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax devices.
- 13. WWAN module is an optional feature, requires factory configuration and requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.
- 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.
- 15. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
- 16. Gigabit class Category 16 4G LTE module is optional and must be configured at the factory. Module designed for up to 1 Gbps download speeds as carriers deploy 5 carrier aggregation and 100Mhz channel bandwidth, requires activation and separately purchased service contract. Backwards compatible to HSPA 3G technologies. Check with service provider for coverage and availability in your area. Connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.
- 17. For full Intel® vPro™ functionality, Windows, a vPro supported processor, vPro enabled chipset, vPro enabled WLAN card and discrete TPM 2.0 are required. See https://www.intel.com/content/www/us/en/architecture-and-technology/vpro/vpro-platform-general.html
- 18. Standalone GPS is an optional feature and requires factory configuration. GPS and WWAN are mutually exclusive.



Technical Specifications

AUDIO/MULTIMEDIA

Audio

Audio by Bang & Olufsen
2 Integrated Stereo Speakers
Integrated 3 Multi Array Microphone

Camera

720p HD camera^{6,7}
720p HD+IR camera^{6,7,19}

Sensors

Ambient light sensor (select models only)
Hall Sensor

- 6. HD content required to view HD images.
- 7. Sold separately or as an optional feature.
- 19. Internet access required.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Premium Collaboration Keyboard, spill resistant with drain Backlit keyboard and DuraKeys available as an option

Pointing Device

Clickpad with multi-touch gestures enabled, taps enabled as default Microsoft Precision Touchpad Default Gestures Support

Function Keys

- F1 Display Switching
- F2 Blank or Privacy (with LED)
- F3 Brightness Down
- F4 Brightness Up
- F5 Audio Mute
- F6 Volume Down
- F7 Volume Up
- F8 Mic Mute
- F9 Blank or Backlit Toggle
- F10 Insert
- F11 Airplane Mode
- F12 HP Programmable Key

Print Screen



Technical Specifications

Power Button (with LED)

Hidden Function Keys

Fn+R - Break

Fn+S - Sys Rq

Fn+C - Scroll Lock

Fn+E-Insert

Fn+W-Pause

SOFTWARE AND SECURITY

Preinstalled Software

BIOS

HP BIOSphere Gen5²⁰

HP Drive Lock & Automatic Drive Lock

BIOS Update via Network

Power On Authentication

HP Secure Erase²¹

Absolute Persistence Module²²

Pre-boot Authentication

Software

HP Connection Optimizer

HP Hotkey Support

HP JumpStarts

HP Support Assistant²³

HP Noise Cancellation Software

Buy Office (sold separately)

HP Smart Support 44

Manageability Features

HP Driver Packs (download)²⁴

HP System Software Manager (SSM) (download)

HP BIOS Config Utility (BCU) (download)

HP Client Catalog (download)

HP Manageability Integration Kit Gen4 (download)²⁵

HP Image Assistant (download)

HP Client Management Script Library (download)

Ivanti Management Suite (download)



Technical Specifications

Client Security Software

HP Client Security Manager Gen6²⁶ HP Fingerprint Sensor²⁷ Windows Defender²⁸

Security Management

Pre-boot Authentication

TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified) (FIPS 140-2 Level 2 Certified)²⁹ USB enable/disable (via BIOS)

Power-on password (via BIOS)

Setup password (via BIOS)

Support for chassis padlocks and cable lock devices

HP Sure Click³⁰

HP Sure Start Gen631

HP Sure Run Gen3³²

HP Sure Recover Gen3³³

HP Sure Sense³⁴

IPv6 Certification:

Yes

Is the BIOS on this notebook ISO/IEC 19678:2015 (formerly NIST 800-147) compliant?: Yes

UEFI version: 2.7 Class: Class 3

20. HP BIOSphere Gen5 is available on select HP Pro and Elite PCs. Features may vary depending on the platform and configurations.

21. HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.

22. Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: https://www.absolute.com/about/legal/agreements/absolute/.

- 23. HP Support Assistant requires Windows and Internet access.
- 24. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
- 25. HP Manageability Integration Kit can be downloaded from

http://www8.hp.com/us/en/ads/clientmanagement/overview.html.

- 26. HP Client Security Manager Gen6 requires Windows and is available on the select HP Elite and Pro PCs.
- 27. HP Fingerprint sensor is an optional feature that must be configured at purchase.
- 28. Windows Defender Opt in and internet connection required for updates.
- 29. Firmware TPM is version 2.0.
- 30. HP Sure Click requires Windows 10 and supports Microsoft Internet Explorer, Google Chrome™, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office or Adobe Acrobat are installed.



Technical Specifications

- 31. HP Sure Start Gen6 is available on select HP PCs.
- 32. HP Sure Run Gen3 is available on select Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors.
- 33. HP Sure Recover Gen3 is available on select HP PCs and requires an open network connection. Not available on platforms with multiple internal storage drives. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.
- 34. HP Sure Sense requires Windows 10.

44. 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.

Smart Card Reader	Smart card standard	PC/SC 2.0 for Windows smart card standard
	Dimensions (L x W x H)	0.41x 0.08 x 0.32 in (10.5 x 2 x 8.2 mm)
	Smart Card support	ISO 7816 Class A and AB smart cards
	Smart Card Interface	Smart Card Interface with T = 0 and T = 1 support Support I2C memory card, SLE4418, SLE4428, SLE4432, SLE4442, SLE4436, SLE5536, SLE6636, AT88SC1608, AT45D041 card and AT45DB041 card via external EEPROM

POWER

Power Supply

HP Smart 45 W External AC power adapter³⁵

HP Smart 45 W External AC power adapter, 2-prong (Japan only) 35

HP Smart 65 W External AC power adapter³⁵

HP Smart 65 W EM External AC power adapter³⁵

65 Watt nPFC Slim USB-C Straight AC Adapter31

65 W USB Type-C® adapter35

Primary Battery

HP Long Life 3-cell, 56 Wh Li-ion^{36,37}

Support HP Fast Charge (Up to 50% in 30 minutes with 65W AC Adapter)^{36,37}

Battery Life

MM14

Up to 26 hours and 15 minutes (2nd Gen AMD® Ryzen™ PRO APU processor, 15.6" 400nits panel and 3-cell 56WHr battery) 38



Technical Specifications

MM18

Up to 14 hours and 45 minutes

Power Cord

2-wire plug - 1.0m

3-wire plug - 1.0m

- 35. Availability may vary by country.
- 36. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 37. Supports HP Fast Charge with 65W AC Adapter. Recharges the battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.
- 38. 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 www.bapco.com for additional details.

WEIGHTS & DIMENSIONS

Product Weight

Non-touch

Starting at 3.74 lb39

Starting at 1.69 kg³⁹

Touch

Starting at 3.92 lb39

Starting at 1.77 kg³⁹

Product Dimensions (W x D x H)

Non-Touch, WLAN only

14.15 x 9.20 x 0.75 in

35.96 x 23.37 x 1.92 cm

Touch, WLAN only

14.15 x 9.20 x 0.78 in

35.96 x 23.37 x 1.99 cm

WWAN

 $14.15 \times 9.20 \times 0.78 \text{ in}$

35.96 x 23.37 x 1.99 cm

39. Weight will vary by configuration.



Technical Specifications

PORTS/SLOTS

Ports

2 USB Type-C[®] 3.1 Gen 2(Alt mode), DisplayPort[™] 1.2

1 USB 3.1 Gen 1 port

1 USB 3.1 Gen 1 (1 charging)

1 HDMI 2.06

1 headphone/microphone combo

1 AC power

1 SIM card slot⁴⁰

1 Smartcard reader

6. HD content required to view HD images.

40. SIM slot is not user accessible without WWAN configuration.

SERVICE AND SUPPORT

HP Services offers 1-year or 3-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty 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.41

41. 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

3131EM ONL		
Stand-Alone Power Requirements (AC Power)	Nominal Operating Voltage	19 V
	Max Operating Power	Discrete < 65W UMA < 45W
Temperature	Operating	32° to 95° F (0° to 35° C) (not writing optical)
	Non-operating	41° to 95° F (5° to 35° C) (writing optical)
Relative Humidity	Operating	10% to 90%, non-condensing
	Non-operating	5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature
Shock	Operating	40 G, 2 ms, half-sine
	Non-operating	200 G, 2 ms, half-sine
Random Vibration	Operating	0.75 grms
	Non-operating	1.50 grms
Altitude (unpressurized)	Operating	-50 to 10,000 ft (-15.24 to 3,048 m)
	Non-operating	-50 to 40,000 ft (-15.24 to 12,192 m)
Planned Industry Standard	UL	Yes
Certifications	CSA	Yes
	FCC Compliance	Yes
	ENERGY STAR®	Select models ⁴²
	EPEAT®	EPEAT® 2019 Gold in United States ⁴³
	ICES	Yes
	Australia / NZ A-Tick Compliance	Yes
	ССС	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

42. Configurations of the HP ProBook 650 G7 that are ENERGY STAR® qualified are identified as HP ProBook 650 G7 ENERGY STAR on HP websites and on http://www.energystar.gov.

Yes

SABS



Technical Specifications

43. 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

Panel LCD 15.6 inch FHD (1920x1080) Anti-Glare WLED UWVA 45% NTSC 250 nits eDP 1.2 w/o PSR bent NWBZ

 Outline Dimensions (W x H x D)
 350.96 x 205.54 mm (max)

 Active Area
 344.16 x 193.59 mm (typ.)

Weight 370 g (max)
Diagonal Size 15.6 inch

Thickness 3.0 mm/ 5.0 mm (PCB) (max)

Interface eDP 1.2 (2 lane)
Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio600:1 (typ)Refresh Rate60 HzBrightness250 nits

Pixel Resolution 1920 x 1080 (FHD)

Format RGB Stripe
Backlight LED
Color Gamut Coverage NTSC 45%

Color Depth 6 bits (Hi FRC supportive w/ condition to enable)

Viewing Angle UWVA 85/85/85

Panel LCD 15.6 inch FHD (1920x1080) Anti-Glare WLED UWVA 45% NTSC 250nits eDP 1.2 w/o PSR bent Touch on Panel NWBZ

Outline Dimensions (W x H x D) 350.96 x 205.74 mm (max)

Active Area 344.16 x 193.59 mm (typ.)

Weight 380 g (max)

Diagonal Size 15.6 inch

Thickness 3.2 mm/ 5.2 mm (PCB) (max)

Interface eDP 1.2

Surface Treatment Anti-Glare On-cell

Touch Enabled No.

Contrast Ratio600 :1 (typ)Refresh Rate60 HzBrightness250 nits

Pixel Resolution 1920 x 1080 (FHD)

Format RGB Stripe

Backlight LED

Color Gamut Coverage NTSC 45%

Technical Specifications

Color Depth 6 bits

Viewing Angle UWVA 85/85/85/85

Panel LCD 15 inch FHD (1920x1080) Anti-Glare WLED **UWVA sRGB 100% NTSC** 400nits eDP 1.4+PSR2 bent LP Weight NB2X

Outline Dimensions (W x H x D) 349.46 x 204.79 mm (max)

Active Area 344.16 x 193.59 mm (typ.)

325 g (max) **Diagonal Size** 15.6 inch

Thickness 2.6 mm/4.6 mm (w/PCB) (max)

Interface eDP 1.4 **Surface Treatment** Anti-Glare

Touch Enabled No

Contrast Ratio 1200:1 (typ) **Refresh Rate** 60 Hz **Brightness** 400 nits

Pixel Resolution 1920 x 1080 (FHD)

Format **RGB Stripe**

Backlight LED

Color Gamut Coverage sRGB 100% (NTSC 72%)

Color Depth 8 bits

Viewing Angle UWVA 85/85/85/85

Panel LCD 15-in diagonal FHD (1920 x 1080) Anti-Glare WLED UWVA 72% NTSC 1000 nits eDP 1.4+PSR Sure View Reflect Outline Dimensions (W x H x D) 349.52 x 205.39 mm (max)

Active Area 344.16 x 193.59 mm

Weight 370 q (max) **Diagonal Size** 15 inch

Thickness 4.5 mm (max)

Interface eDP

Surface Treatment Anti-Glare (AG)

Touch Enabled No

Contrast Ratio 1500:1 (typ) **Refresh Rate** 60 Hz

Brightness 1000 nits

Pixel Resolution 1920 x 1080 (FHD)

Format RGB Backlight LED

Color Gamut Coverage 100% Srgb **Color Depth** 8 bits

Viewing Angle UWVA 85/85/85/85



Technical Specifications

STORAGE

SSD 128GB 2280 M2 SATA-3

Form Factor

M.2 2280

TLC

Capacity 128 GB **NAND Type** TLC

Height 0.09 in (2.3 mm) Width 0.87 in (22 mm) Weight 0.02 lb (10q) Interface **ATA-8, SATA 3.0 Maximum Sequential Read** 550 ~ 560 MB/s **Maximum Sequential Write** 380 ~ 530 MB/s **Logical Blocks** 250,069,680

Operating Temperature

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

Features ATA Security; DIPM; TRIM; DEVSLP

SSD 1TB 2280 PCIe-3x4 NVMe Form Factor Three Layer Cell single-sided

M.2 2280

Capacity 1 TB **NAND Type** TLC

Height 0.09 in (2.3 mm) Width 0.87 in (22 mm) Weight 0.02 lb (10q)

Interface PCIe NVMe Gen3X4 **Maximum Sequential Read** 3100 ~ 3500 MB/s **Maximum Sequential Write** 2770 ~ 3037 MB/s **Logical Blocks** 2,000,409,264

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

Features ATA Security; TRIM; L1.2

SSD 256GB 2280 M2 PCIe-3x4 Form Factor

M.2 2280

SS NVMe TLC

Capacity 256 GB **NAND Type** TLC

Height 0.09 in (2.3 mm)

Technical Specifications

 Width
 0.87 in (22 mm)

 Weight
 0.02 lb (10g)

Interface PCIe NVMe Gen3X4

Maximum Sequential Read 2800 ~ 3500 MB/s

Maximum Sequential Write 1400 ~ 2200 MB/s

Logical Blocks 500,118,192

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

Features ATA Security; TRIM; L1.2

SSD 256GB 2280 PCIe NVMe Value Form Factor M.2 2280
Capacity 256 GB
NAND Type Value

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Weight
 0.02 lb (10g)

 Interface
 PCIe NVMe Gen3

 Maximum Sequential Read
 2100 ~ 2200 MB/s

 Maximum Sequential Write
 900 ~ 1400 MB/s

 Logical Blocks
 500,118,192

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp] **Features** ATA Security (optional); TRIM; L1.2

SSD 256GB 2280 PCIe-3x4 NVMe Self Encrypted OPAL2 Three Layer Cell 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
 0.02 lb (10g)

 Interface
 PCIe NVMe Gen3X4

Maximum Sequential Read2800 ~ 3500 MB/sMaximum Sequential Write1663 ~ 2200 MB/sLogical Blocks500,118,192

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

Features ATA Security (Option); TCG Opal 2.0; TRIM; L1.2

Technical Specifications

SSD 512GB 2280 M2 PCle-3x4 Form Factor SS NVMe TLC

Form Factor M.2 2280
Capacity 512 GB
NAND Type TLC

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Weight
 0.02 lb (10g)

InterfacePCIe NVMe Gen3X4Maximum Sequential Read3100 ~ 3500 MB/sMaximum Sequential Write2400 ~ 2956 MB/sLogical Blocks1,000,215,215

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

Features ATA Security; TRIM; L1.2

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

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Weight
 0.02 lb (10g)

 Interface
 PCIe NVMe Gen3

 Maximum Sequential Read
 2200 ~ 2300 MB/s

 Maximum Sequential Write
 1000 ~ 1600 MB/s

 Logical Blocks
 1,000,215,215

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp] **Features** ATA Security (optional); TRIM; L1.2

SSD 512GB 2280 PCIe-3x4 NVMe Self Encrypted OPAL2 Three Layer Form Factor M.2 2280
Capacity 512 GB
NAND Type TLC

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Weight
 0.02 lb (10g)

InterfacePCIe NVMe Gen3X4Maximum Sequential Read3100 ~ 3500 MB/sMaximum Sequential Write2400 ~ 2956 MB/sLogical Blocks1,000,215,215

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

Technical Specifications

Features

ATA Security (Option); TCG Opal 2.0; TRIM; L1.2

NOTE: 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

NETWORKING

Intel® Wi-Fi 6¹ AX200 and Wireless LAN Standards Bluetooth® 5.0 802.11 ax (2x2) non-vPro,

supporting gigabit file transfer speeds) nonvPro IEEE 802.11a IEEE 802.11b IEEE 802.11q

IEEE 802.11n
IEEE 802.11ac
IEEE 802.11ax

IEEE 802.11d
IEEE 802.11e
IEEE 802.11h
IEEE 802.11i
IEEE 802.11k
IEEE 802.11r
IEEE 802.11v

Interoperability Wi-Fi CERTIFIED™

Frequency Band • 802.11b/g/n/ax

2.402 – 2.482 GHz
• 802.11a/n/ac/ax
4.9 – 4.95 GHz (Japan)
5.15 – 5.25 GHz

5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz

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 Wi-Fi 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 certificationWPA3 certification

Technical Specifications

• 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 Power² • 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
802.11ac VHT160(5GHz): +11.5dBm minimum
802.11ax HT40(2.4GHz): +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)

• 802.11ax VHT160(5GHz): +10dBm minimum

- Connected Standby 10 mW
- · 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

802.11ac, MCS9: -59dBm maximum

• 802.11ax, MCS11(HT40): -59dBm maximum

• 802.11ax, MCS11(VHT160): -58.5dBm 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

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



Technical Specifications

2. Type 1216: 1.67 x 12.0 x 16.0 mm

Weight 1. Type 2230: 2.8q

2. Type 126: 1.3q

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 4.0/4.1/4.2/5.0/5.1 Wireless Technology

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

Frequency Band 2402 to 2480 MHz

Number of Available

Signaling Data Rate

Channels

Legacy: 0~79 (1 MHz/CH)

BLE: 0~39 (2 MHz/CH)

Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps BLE: 1 Mbps data rate; throughput up to 0.2 Mbps

Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice

channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps

asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

Transmit Power The Bluetooth component shall operate as a Class II Bluetooth device with

a maximum transmit power of + 9.5 dBm for BR and EDR.

Power Consumption Peak (Tx) 330 mW

Peak (Rx) 230 mW

Selective Suspend 17 mW

Bluetooth Software

Supported **Link Topology** Microsoft Windows Bluetooth Software

Power Management Microsoft Windows ACPI, and USB Bus Support

Certifications FCC (47 CFR) Part 15C. Section 15.247 & 15.249

Power Management

Certifications

ETS 300 328, ETS 300 826 Low Voltage Directive IEC950

UL, CSA, and CE Mark

Bluetooth Profiles

Supported

BT4.1-ESR 5/6/7 Compliance

LE Link Layer Ping

LE Dual Mode



Technical Specifications

LE Link Layer

LE Low Duty Cycle Directed Advertising

LE L2CAP Connection Oriented Channels

Train Nudging & Interlaced Scan

BT4.2 ESR08 Compliance

LE Secure Connection-Basic/Full

LE Privacy 1.2 -Link Layer Privacy

LE Privacy 1.2 - Extended Scanner Filter Policies

LE Data Packet Length Extension

FAX Profile (FAX)

Basic Imaging Profile (BIP)2

Headset Profile (HSP)

Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

1. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. The specifications for

Wi-Fi 6 (802.11ax) are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax devices. Only available in countries where 802.11ax is supported.

- 2. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
- 3. Check latest software/driver release for updates on supported security features.
- 4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).



Technical Specifications

Realtek RTL8822CE

802.11ac 2x2 Wi-Fi and Wireless LAN Standards

Bluetooth® 5.0

IEEE 802.11a

IEEE 802.11b

IEEE 802.11q

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™

Frequency Band

• 802.11b/q/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)

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160MHz)

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

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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

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

802.11ac VHT80(5GHz): +11.5dBm minimum
 802.11ac VHT160(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 10 mW

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

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

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

Technical Specifications

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Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice

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Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps

asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

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a maximum transmit power of + 4 dBm for BR and EDR.

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Peak (Rx) 230 mW

Selective Suspend 17 mW

Bluetooth Software

Supported Link Topology Microsoft Windows Bluetooth Software

Power Management Microsoft Windows ACPI, and USB Bus Support

Certifications FCC (47 CFR) Part 15C, Section 15.247 & 15.249

Power Management

Certifications

ETS 300 328, ETS 300 826 Low Voltage Directive IEC950

UL, CSA, and CE Mark

Bluetooth Profiles

Supported

BT4.1-ESR 5/6/7 Compliance

LE Link Layer Ping

LE Dual Mode

LE Link Layer

LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels

Train Nudging & Interlaced Scan

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LE Privacy 1.2 - Extended Scanner Filter Policies

LE Data Packet Length Extension

Technical Specifications

FAX Profile (FAX)

Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

- 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).

Intel®	XMM	™ 7360	LTE-
Advan	ced C	AT9 ¹	

Technology/Operating bands

FDD LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3),

1700/2100 (Band 4), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 1400 (Band 11), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 17 lower), 850 (Band 18 lower), 850 (Band 19 upper), 800 (Band 20), 1400 (Band 21), 850 (Band 26), 700 (Band 28), 700 (Band 29 RX only), 2300 (Band 30),

1700/2100 (Band 66).

TDD LTE: 2600 (Band 38), 1900 (Band 39), 2400 (Band 40), 2500 (Band 41).

HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4),

850 (Band 5), 900 (Band 8) MHz

Wireless protocol

standards

3GPP Release 11 LTE Specification CAT.9, DL 60MHz BW throughput up to

450Mbps; UL 20MHz throughput up to 50Mbps

WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification

GPS Standalone, A-GPS (MS-A, MS-B)

GPS bands 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou 1561.098

MHz

Maximum data rates LTE: 450 Mbps (Download), 50 Mbps (Upload)

DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21 Mbps (Download), 5.76 Mbps (Upload)

Maximum output power LTE: 23 dBm

HSPA+: 23.5 dBm

Maximum power consumption

LTE: 1,200 mA (peak); 900 mA (average) HSPA+: 1,100 mA (peak); 800 mA (average)

Form Factor M.2, 3042-S3 Key B

Weight 5.8 g

Dimensions 42 x 30 x 2.3 mm

(Length x Width x

Thickness)



Technical Specifications

1. Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products or in all countries.

Near Field Communications Controller (optional) Dimensions (L x Wx H) Modu

Module 25 mm by 10 mm by 2.0 mm

Chipset

NPC100

System interface

I2C

NFC RF standards ISO/IEC 14443 A

ISO/IEC 14443 B ISO/IEC 15693 ISO/IEC 18092

ECMA-340 NFCIP-1 Target and Initiator

ECMA-320 NFCIP-2

NFC Forum Support

Tag Type 1, Type 2, Type3 and Type 4, NFCIP-1 and NFCIP-2

Reader (PCD-VCD) Mode

ISO/IEC 14443 B ISO/IEC 15693 MIFARE 1K MIFARE 4K MIFARE DESFire

ISO/IEC 14443 A

FeliCa

Jewel and Topaz cards

Card Emulation (PICC-

VICC) Mode

ISO/IEC 14443 A

ISO/IEC 14443 B and B'

MIFARE FeliCa

Frequency 13.56 MHz

NFC Modes Supported Reader/Writer, Peer-to-Peer

Raw RF Data Rates 106, 212, 424, 848 kbps

Operating temperature 0°C to 70°C

Storage temperature -20°C to 125°C

Humidity 10-90% operating

5-95% non-operating

Supply Operating voltage 4.35 to 5.25 Volts

I/O Voltage 1.8V or 3.3V

Power Consumption

(Booster enable, VBAT= 3.3V, VCC_BOOST = 5V)



Technical Specifications

Mode Power Consumption, Typical

Polling 7.3 mA

Detected Test Tag Type 1 Total 283.8 mA

Net Module 236.8 mA

Detected Test Tag Type 2 Total 288.8 mA

Net Module 241.8 mA

Detected Test Tag Type 3 Total 287.7 mA

Net Module 240.7 mA

Detected Test Tag Type 4 Total 282.3 mA

Net Module 235.3 mA

Antenna Antenna connector, 0.5mm pitch, 7 connector FPC. Antenna matching is

external to module



POWER

AC Adapter 45 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.8m

Dimensions 95 x 45 x 26.8 mm
Weight unit: 200g +/- 10g
Input Input Efficiency

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

Input frequency range 47 ~ 63 Hz

Input AC current Max. 1.4 A at 90 Vac

Output Output power 45W

DC output 19.5V

Hold-up time 5ms at 115 Vac input

Output current limit <8.0A

Connector Connector 4.5 mm Barrel Type
Environmental Design Operating temperature 32°F to 95°F (0°to 35°C)

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

temperature

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

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

Safety Certifications Eg:

*CE Mark - full compliance with LVD and EMC directives

*Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B,

FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE.

*MTBF - over 200,000 hours at 25°C ambient condition.

AC Adapter 45 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.8m 2prong
 Dimensions
 95 x 45 x 26.8 mm

 Weight
 unit: 200g +/- 10g

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

Input frequency range 47 ~ 63 Hz

Input AC current Max. 1.4 A at 90 Vac

Output Output power 45W

DC output 19.5V

Hold-up time 5ms at 115 Vac input

Output current limit <8.0A

Connector

Environmental Design

Operating temperature

Non-operating (storage)

4.5 mm Barrel Type

32°F to 95°F (0°to 35°C)

-4°F to 185°F (-20°to 85°C)

temperature

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

Humidity20% to 95%Storage Humidity10% to 95%

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*CE Mark - full compliance with LVD and EMC directives

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FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. *MTBF - over 200,000 hours at 25°C ambient condition.

AC Adapter 65 Watt nPFC Slim USB Type-C® Straight 1.8m

Dimensions Weight Input

88 x 53.5 x 21 mm unit: 220g +/- 10g

Input Efficiency 81.5% min at 115 Vac/ 230Vac @ 5V/3A

86.7% min at 115 Vac/ 230Vac @ 9V/3A 88% min at 115 Vac/ 230Vac @ 12V/5A 89% min at 115 Vac/ 230Vac @ 15V/4.33A 89% min at 115 Vac/ 230Vac @ 20V/3.25A

Input frequency range

47 ~ 63 Hz

65W

Input AC current

1.6 A at 90 VAC and maximum load

Output power

DC output 5V/9V/12V/15V/20V Hold-up time 5ms at 115 Vac input

Output current limit <8.0A

Connector

Output

Connector USB Type C®

Environmental Design

Operating temperature Non-operating (storage)

temperature

32°F to 95°F (0°to 35°C)

-4°F to 185°F (-20°to 85°C)

Altitude 0 to 16,400 ft (0 to 5000m) **Humidity** 5% to 95%

Storage Humidity 5% to 95%

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FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. *MTBF - over 100,000 hours at 25°C ambient condition.

AC Adapter 65 Watt nPFC Dimensions Slim USB type C® Straight Weight 1.8m

Input

90.0 x 51 x 28.5 mm unit: 250g +/- 10g

Input Efficiency 81.5% min at 115 Vac/ 230Vac @ 5V/3A

> 86.7% min at 115 Vac/ 230Vac @ 9V/3A 88% min at 115 Vac/ 230Vac @ 12V/5A 89% min at 115 Vac/ 230Vac @ 15V/4.33A 89% min at 115 Vac/ 230Vac @ 20V/3.25A

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47 ~ 63 Hz

Input AC current

1.6 A at 90 VAC and maximum load

Output

Output power 65W

DC output 5V/9V/12V/15V/20V **Hold-up time** 5ms at 115 Vac input

Output current limit 8.0A

Connector Connector USB Type C[®]

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

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

temperature

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

AC Adapter 65 Watt Smart nPFC EM Barrel 4.5mm New EM
 Dimensions
 102 x 55 x 30 mm

 Weight
 unit: 250g +/- 10g

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

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 Connector 4.5 mm Barrel Type

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

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

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FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE.

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AC Adapter 65 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.8m

 Dimensions
 90 x 51 x 28.5 mm

 Weight
 unit: 230g +/- 10g

 Input Efficiency

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

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 Connector 4.5 mm Barrel Type

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

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

temperature

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

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

Safety Certifications Eg

*CE Mark - full compliance with LVD and EMC directives

*Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B,

FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE.

*MTBF - over 200,000 hours at 25°C ambient condition.

Battery CC 3 Cell WHr 56 Long Life -PL Fast Charge

Dimensions (H x W x L) 7.0 x 66.5 x 276.3 mm

0.275 x 2.618 x 10.877 inch

Weight 215 g (0.47 lb)

0.45 lb

Cells/Type 3cell Lithium-Ion Polymer cell / 645180

Energy Voltage 11.55V

Amp-hour capacity 4.59Ah **Watt-hour capacity** 56Wh

Temperature 32° to 113° F (0° to 45°C)

Operating (Charging) 32° to 122° F (0° to 50°C)
Operating (Discharging) 14° to 140° F (-10° to 60°C)

Warranty Depends on system offering

Optional Travel Battery

Available

No



COUNTRY OF ORIGIN

China



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

•	. , ,	, , ,
Туре	Description	Part Number
Cases	HP Business Backpack (up to 17.3")	2SC67AA
	HP Business Case (up to 15.6")	2SC66AA
	HP Essential Top Load Case (up to 15.6")	H2W17AA
Docking	HP Thunderbolt Dock 120W G2	2UK37AA
	HP Thunderbolt Dock 230W G2	2UK38AA
	HP Thunderbolt Dock 120W G2 TAA	2UK37AA
	HP TB Dock Audio Module	3AQ21AA
	HP TB Dock 120W G2 cable	3XB94AA
	HP TB Dock G2 combo cable	3XB96AA
	HP USB-C Mini Dock	1PM64AA
	HP USB-C Dock G5	5TW10AA
	HP USB-C/A Universal Dock G2	5TW13AA
Input/Output	HP Slim Wireless Keyboard and Mouse	T6L04AA
	HP Slim USB Keyboard and Mouse	T6T83AA
	HP Wireless (Link-5) Keyboard	T6U20AA
	HP USB Essential Keyboard and Mouse	H6L29AA
	HP USB Collaboration Keyboard	Z9N38AA
	HP Wireless Collaboration Keyboard	Z9N39AA
	HP Comfort Grip Wireless Mouse	H2L63AA
	HP X4000b Bluetooth Mouse	H3T50AA
	HP 3-Button USB Laser Mouse	H4B81AA
	HP USB Travel Mouse	G1K28AA
	HP Ultra Mobile Wireless Mouse	H6F25AA
	HP Wireless Premium Mouse	1JR31AA
	HP USB Premium Mouse	1JR32AA
	HP Essential USB Mouse	2TX37AA
	HP Elite Presenter Mouse	2CE30AA
	HP Bluetooth Travel Mouse	6SP30AA
	HP Stereo 3.5mm Headset	T1A66AA
	HP Stereo USB Headset	T1A67AA
	HP UC Wireless Mono Headset	W3K08AA
	HP UC Wireless Duo Headset	W3K09AA
	HP USB-C to USB-A Hub	Z6A00AA
	HP USB-C to DP	N9K78AA
	HP USB-C to VGA	N9K76AA
	HP HDMI to VGA	H4F02AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA



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

HP USB-C to RJ45 Adapter	V7W66AA
HP USB to Gig RJ45 Adapter	N7P47AA
HP USB-C Travel Hub G2	7PJ38AA
HP Elite USB-C Hub	4WX89AA

	111 035 0 114101145 02	71330.41
	HP Elite USB-C Hub	4WX89AA
	DASH capability is supported with an exclusive USB-C to RJ45 dongle th	at can be purchased via HP
	Services as 3rd party option. (Available in Q3 2021)	
Power	HP 65W Slim AC Adapter	H6Y82AA
	HP 45W Smart AC Adapter	H6Y88A
	HP 65W Smart AC Adapter	H6Y89AA
	HP 45W 2-prong 4.5 mm DC jack AC Adapter	L6F60AA
	HP 45W USB-C Power Adapter	1HE07AA
	HP 65W USB-C Power Adapter	1HE08AA
	HP 65W USB-C Slim Power Adapter	3PN48AA
	HP Notebook Power Bank	N9F71AA
	HP USB-C Notebook Power Bank	1TZ86AA
Storage	HP USB External DVDRW Drive	F2B56AA
	HP 1TB TLC PCI-e 3x4 NVMe M.2 SSD (2280)	6SK99AA
	HP 2TB TLC PCI-e 3x4 NVMe M.2 SSD (2280)	6SL00AA
Memory	HP 4 GB 2666 Mhz DDR4	4VN05AA
	HP 8 GB 2666 Mhz DDR4	4VN06AA
	HP 16 GB 2666 Mhz DDR4	4VN07AA
	HP 4GB DDR4 3200 Memory	286H5AA
	HP 8GB DDR4 3200 Memory	286H8AA
	HP 16GB DDR4 3200 Memory	286J1AA
Security	HP Nano Keyed Cable Lock	1AJ39AA
	HP Nano Dual-Head Keyed Cable Lock	1AJ41AA
	HP Sure Key Cable Lock	6UW42AA



WWAN

HP XMMT 7360 LTE WWAN

3FB01AA

Summary of Changes

Date of change:	Version History:	Updated	Description of change:
	V1 to V2		Display section updated
September 22, 2020	V2 to V3		Smart Card Reader
December 10, 2020	V3 to V4		Display section updated
January 21, 2021	V4 to V5		WPA3 certification in Security, Networking section
March 24, 2021	V5 to V6		Options and Accessories section
March 29, 2021	V6 to V7	Updated	Product Dimensions
April 19, 2021	V7 to V8	Updated	Memory Section and Input/ Output Section Updated
May 6, 2021	V8 to V9	Added	HP Smart Support

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