Overview

HP EliteBook 830 G6 Notebook PC



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

Left

- 8. Glass Clickpad
- 9. Smartcard Reader (Optional)
- 10. USB 3.1 Gen 1 Charging Port
- 11. Vents
- 12. Standard Security Lock Slot (Lock sold separately)
- 13. Power Button



Overview



Right

- 1. Power Connector
- 2. USB Type-C[™] with Thunderbolt[™]
- 3. Docking Connector
- 4. Ethernet Port
- 5. HDMI Port (Cable not included)

- 6. USB 3.1 Gen 1 Port
- 7. Audio Combo Jack
- 8. SIM Card Slot¹
- 9. Touch Fingerprint Sensor (Optional)

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

- Eye-catching Ultraslim design, premium precision-crafted machined aluminum (CNC) chassis for clean, crisp, premium look and feel
- 8th Generation Intel[®] Core[™] i5, i7 Processors
- Preinstalled with Windows 10 versions or FreeDOS
- Designed to support all HP docking options including HP's traditional Ultraslim mechanical dock and all-new Thunderbolt dock²
- Featuring HP Collaboration Keyboard with Clickpad to manage most commonly used conferencing functions with a single keystroke
- Innovative world-facing third mic improves inbound ambient noise cancellation while 360 degree mic pick-up allows everyone to clearly hear and be heard
- Optional ultrabright displays with ambient light sensor
- Choice of displays:
 - 33.8 cm (13.3") diagonal FHD IPS Anti-Glare LED-backlit non-touch, 250 nits, 45% NTSC
 - 33.8 cm (13.3") diagonal FHD IPS Anti-Glare LED-backlit non-touch, 400 nits, 72% NTSC
 - 33.8 cm (13.3") diagonal FHD IPS Anti-Glare LED-backlit non-touch, 1000 nits, 72% NTSC with HP Sure View (Available 3Q 2019)
 - 33.8 cm (13.3") diagonal FHD IPS Anti-Glare On-Cell LED-backlit touch, 250 nits, 45% NTSC
 - 33.8 cm (13.3") diagonal FHD IPS Anti-Glare On-Cell LED-backlit touch, 1000 nits, 72% NTSC with HP Sure View (Available 3Q 2019)
- Enterprise grade security with HP Sure Sense⁵, HP SureStart Gen5, HP Privacy Camera, HP Sure View Gen3¹, HP Sure Run Gen2, HP Sure Recover Gen2 with Embedded Reimaging², HP Sure Click, SmartCard Reader² and Touch Fingerprint reader²
- Ultimate connectivity with optional CAT16 4G/LTE WWAN, and Thunderbolt™ Docking (dock sold separately)
- Supports fast charging (50% in 30 minutes) with no impact on battery recharge cycles³
- Flexible wireless connectivity options
- Choice of solid state drives up to 2 TB and DDR4 memory up to 32 GB
- Passed 19 MIL-STD 810G tests⁴
- UMA graphics: Up to 19 hours (Intel[®] 8th generation CPU and 3-cell 50 WHr battery)

1. HP Sure View Gen3 integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.

2. Sold separately or as an optional feature

3. 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.

4. MIL STD 810G testing is not intended to demonstrate fitness for U.S. Department of Defense 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.

5. HP Sure Sense requires Windows 10. See product specifications for availability.

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



PRODUCT NAME

HP EliteBook 830 G6 Notebook PC

OPERATING SYSTEMS

Preinstalled	Windows 10 Pro 64 – HP recommends Windows 10 Pro ¹ Windows 10 Pro 64 (National Academic License) ² Windows 10 Home 64 ¹ Windows 10 Home Single Language 64 ¹
	Windows 10 Pro (Windows 10 Enterprise available with a Volume Licensing Agreement) ¹ 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.

PROCESSORS

Intel[®] Core™ i7-8665U with Intel[®] UHD Graphics 620 (1.9 GHz base frequency, up to 4.8 GHz with Intel[®] Turbo Boost Technology, 8 MB L3 cache, 4 cores) ^{3,4,5,6}

Intel[®] Core[™] i7-8565U with Intel[®] UHD Graphics 620 (1.8 GHz base frequency, up to 4.6 GHz with Intel[®] Turbo Boost Technology, 8 MB L3 cache, 4 cores)^{3,4,5,6}

Intel[®] Core[™] i5-8365U with Intel[®] UHD Graphics 620 (1.6 GHz base frequency, up to 4.1 GHz with Intel[®] Turbo Boost Technology, 6 MB L3 cache, 4 cores) ^{3,4,5,6}

Intel[®] Core[™] i5-8265U with Intel[®] UHD Graphics 620 (1.6 GHz base frequency, up to 3.9 GHz with Intel[®] Turbo Boost Technology, 6 MB L3 cache, 4 cores)^{3,4,5,6}

Intel[®] Core[™] i3-8145U with Intel[®] UHD Graphics 620 (2.1 GHz base frequency, up to 3.9 GHz with Intel[®] Turbo Boost Technology, 4 MB L3 cache, 2 cores)^{3,4,5,6}

Processor Family

8th Generation Intel[®] Core™ i7 processor (i7-8665U and i7-8565U)⁶

- 8th Generation Intel[®] Core™ i5 processor (i5-8365U and i5-8265U)⁶
- 8th Generation Intel[®] Core[™] i3 processor (i3-8145U)⁶

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. Intel's numbering, branding and/or naming is not a measurement of higher performance.

Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
 Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost for more information.

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 Intel[®] UHD Graphics 620⁷

Supports Support HD decode, DX12, HDMI 1.4b⁸

7. HD content required to view HD images.

8. HDMI cable sold separately.

DISPLAY

Non-Touch

33.8 cm (13.3") diagonal FHD IPS eDP anti-glare WLED-backlit slim, 250 nits, 45% NTSC (1920 x 1080)^{7,9,10}
33.8 cm (13.3") diagonal FHD IPS eDP anti-glare WLED-backlit slim for HD camera, 250 nits, 45% NTSC (1920 x 1080)^{7,9,10}
33.8 cm (13.3") diagonal FHD IPS eDP anti-glare WLED-backlit slim for HD+IR camera, 250 nits, 45% NTSC (1920 x 1080)^{7,9,10}
33.8 cm (13.3") diagonal FHD IPS eDP anti-glare WLED-backlit slim for HD+IR camera, 250 nits, 45% NTSC (1920 x 1080)^{7,9,10}
33.8 cm (13.3") diagonal FHD IPS eDP anti-glare WLED-backlit slim for WWAN, 250 nits, 45% NTSC (1920 x 1080)^{7,9,10}
33.8 cm (13.3") diagonal FHD IPS eDP anti-glare WLED-backlit slim for HD camera and WWAN, 250 nits, 45% NTSC (1920 x 1080)^{7,9,10}
33.8 cm (13.3") diagonal FHD IPS eDP anti-glare WLED-backlit slim for HD camera and WWAN, 250 nits, 45% NTSC (1920 x 1080)^{7,9,10}

33.8 cm (13.3") diagonal FHD IPS eDP anti-glare LED-backlit slim for HD+IR camera and WWAN, 250 nits, 45% NTSC (1920 x 1080) ^{7,9,10}

33.8 cm (13.3") diagonal FHD IPS eDP + PSR anti-glare WLED-backlit ultraslim with Ambient Light Sensor for HD+IR camera, 400 nits, 72% NTSC (1920 x 1080)^{7,9,10}

33.8 cm (13.3") diagonal FHD IPS eDP + PSR anti-glare WLED-backlit ultraslim with Ambient Light Sensor for HD+IR camera and WWAN, 400 nits, 72% NTSC (1920 x 1080)^{7,9,10}

33.8 cm (13.3") diagonal FHD IPS eDP + PSR WLED-backlit ultraslim with HP Sure View Gen3 Integrated Privacy Screen, Ambient Light Sensor for HD+IR camera and WWAN, 1000 nits, 72% NTSC (1920 x 1080)^{7,9,10,11} (Available 3Q 2019)

Touch

33.8 cm (13.3") diagonal FHD IPS eDP anti-glare on-cell WLED-backlit slim touch screen for HD+IR camera, 250 nits, 45% NTSC (1920 x 1080)^{7,9,10}

33.8 cm (13.3") diagonal FHD IPS eDP anti-glare on-cell WLED-backlit slim touch screen for HD+IR camera and WWAN, 250 nits, 45% NTSC (1920 x 1080)^{7,9,10}

33.8 cm (13.3") diagonal FHD IPS eDP + PSR anti-glare on-cell WLED-backlit ultraslim touch screen with HP Sure View Gen3 Integrated Privacy Screen, Ambient Light Sensor for HD+IR camera and WWAN, 1000 nits, 72% NTSC (1920 x 1080)^{7,9,10,11} (Available 3Q 2019)

HDMI 1.4b

Supports resolution up to 4k @ 60Hz via DP and @ 30Hz via HDMI

Displays support

Supports 3 independent displays if used with optional HP UltraSlim Docking Station.2

7. HD content required to view HD images.

9. Sold separately or as an optional feature.

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



11. HP Sure View Gen3 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 UltraSlim Docking Station (Quest)	3	Dual 2.5K @ 60Hz	2xDP, 1xVGA	Dual 2.5k only with both displays intoDP
HP Thunderbolt Dock G2	3	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 G4	3	Dual 2K @ 60Hz Single 4K @ 60Hz (3840 x 1440)	1xHDMI, 2xDP	
HP USB-C Universal Dock	3	Dual 4K @ 60Hz Single 5K @ 60Hz	2xDP	
HP USB-C Travel Dock	2	Single 2K @ 60Hz	1xHDMI, 1xVGA	Single external display Only HDMI or VGA at the time

STORAGE AND DRIVES

Primary Storage

128 GB SATA-3 SS TLC¹² 256 GB PCIe NVMe Value SS TLC¹² 256 GB PCIe Gen3x4 NVMe SS TLC¹² 256 GB SATA-3 SS TLC Opal 2¹² 512 GB PCIe NVMe Value¹² 512 GB PCIe Gen3x4 NVMe SS TLC¹² 512 GB Intel® PCIe® NVMe[™] QLC + 32 GB Intel® Optane[™] (Memory Planned to be available Q3 2019)¹² 512 GB PCIe Gen3x4 NVMe SS TLC Opal 2¹² 512 GB SATA-3 SS TLC FIPS-140-2¹² 1 TB PCIe Gen3x4 NVMe SS TLC¹² 2 TB PCIe Gen3x4 NVMe SS TLC¹²

12. 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 DDR4-2400 SDRAM¹³

Memory

32 GB DDR4-2400 SDRAM (2 X 16 GB)¹³ 16 GB DDR4-2400 SDRAM (1 X 16 GB)¹³ 16 GB DDR4-2400 SDRAM (2 X 8 GB)¹³ 8 GB DDR4-2400 SDRAM (1 x 8 GB)¹³ 8 GB DDR4-2400 SDRAM (2 x 4 GB)¹³ 4 GB DDR4-2400 SDRAM (1 x 4 GB)¹³

Memory Slots

2 SODIMM Both slots are customer accessible / upgradeable DDR4 SODIMMS, system runs at 2400 Supports Dual Channel Memory

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



NETWORKING/COMMUNICATIONS

WLAN

Intel[®] Dual Band Wireless-AC 9560 802.11a/b/g/n/ac (2x2) Wi-Fi[®] and Bluetooth[®] 5 Combo, vPro^{™14} Intel[®] Dual Band Wireless-AC 9560 802.11a/b/g/n/ac (2x2) Wi-Fi[®] and Bluetooth[®] 5 Combo, non-vPro^{™14} Intel[®] Wi-Fi 6 AX200 802.11a/b/g/n/ac/ax (2x2) and Bluetooth[®] 5 Combo, vPro^{™15} Intel[®] Wi-Fi 6 AX200 802.11a/b/g/n/ac/ax (2x2) Bluetooth[®] 5 Combo, non-vPro^{™15}

WWAN

Intel[®] XMM[™] 7360 LTE-Advanced Cat 9¹⁶ Intel[®] XMM[™] 7560 LTE-Advanced Pro Cat 16¹⁷ Intel[®] XMM[™] 7262 LTE-Advanced Cat 6¹⁶

NFC

NPC300 Near Field Communication module

Miracast

Native Miracast Support¹⁸

Ethernet

Intel[®] I219-LM 10/100/1000 GbE, vPro^{™19} Intel[®] I219-V 10/100/1000 GbE, non-vPro^{™19}

14. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications 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 802.11ac WLAN devices.

15. 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.

16. 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.

17. 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.

18. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming. 19. 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.



AUDIO/MULTIMEDIA

Audio

Audio by Bang & Olufsen 2 Integrated stereo speakers Integrated 3 Multi Array Microphone

Camera

720p HD camera^{7,9} 720p HD IR camera^{7,9}

Sensors

Ambient light sensor (Select models only)

7. HD content required to view HD images.

9. Sold separately or as an optional feature.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Premium Collaboration Keyboard, backlit and spill resistant with drain Backlit keyboard 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 F3 - Brightness Down F4 - Brightness Up F5 - Audio Mute F6 - Volume Down F7 - Volume Up F8 - Mic Mute F9 - Blank or Backlit Toggle F10 - numlk F11 - Wireless F12 - Calendar Share/Present Call Answer Call End

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 Lock²¹ BIOS Update via Network Master Boot Record Security Power On Authentication Secure Erase²² Absolute Persistence Module²³ Pre-boot Authentication

Software

HP Native Miracast Support²⁴ HP Connection Optimizer HP Image Assistant HP Hotkey Support HP JumpStart HP Support Assistant²⁵ HP Noise Cancellation Software Buy Office (sold separately)

Manageability Features

HP Driver Packs²⁶ HP System Software Manager (SSM) HP BIOS Config Utility (BCU) HP Client Catalog HP Manageability Integration Kit Gen3²⁷ Ivanti Management Suite HP Cloud Recovery²⁸

Client Security Software

HP Client Security Manager Gen5²⁹ HP Fingerprint Sensor³⁰ HP Power On Authentication Windows Defender³¹

Security Management

Pre-boot Authentication TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified) SATA 0,1 port disablement (via BIOS) Serial, USB enable/disable (via BIOS) Power-on password (via BIOS) Setup password (via BIOS) Support for chassis padlocks and cable lock devices HP Sure Click³² HP Sure Start Gen5³³ HP Sure Run Gen2³⁴ HP Sure Recover Gen2³⁵ HP Sure Sense³⁶

ТРМ

Model: Infineon SLB9670 Version: 7.85



Revision: TPM 2.0 FIPS 140-2 Compliant: Yes

Smartcard Reader Model number: Alcor AU9560 FIPS 201 Compliant: Yes

IPv6 Certification:

Yes

MD5 Hash: Please follow the instructions below to access MD5 Hash.

Log-on to http://hp.com/support, enter your product name, select software and drivers, select OS, select driver. After selecting the driver, click on "Associated files" and then click on "Download". When opening the file, under "Purpose" you should see the appropriate "SOFTPAQ MD5:" Field

Graphics (Intel Video Driver): TBD WWAN: TBD WLAN: TBD

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

Yes UEFI version: 2.6

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

21. HP Automatic Drive Lock is not supported on NVMe drives.

22. 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™.

23. 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:

http://www.absolute.com/company/legal/agreements/ computrace-agreement. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.

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

25. HP Support Assistant requires Windows and Internet access.

26. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.

27. HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement.

28. HP Cloud Recovery is available for HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, wired network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: https://support.hp.com/us-en/document/c05115630

29. HP Client Security Manager Gen5 requires Windows and is available on the select HP Pro and Elite PCs. See product specifications for details.

30. HP Fingerprint Sensor sold separately or as an optional feature.

31. Windows Defender Opt in and internet connection required for updates.

32. HP Sure Click is available on select HP platforms 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

33. HP Sure Start Gen5 is available on select HP PCs with Intel processors. See product specifications for availability.

34. HP Sure Run Gen2: See product specifications for availability.

35. HP Sure Recover Gen2: See product specifications for availability. Requires an open, wired 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. HP Sure Recover (Gen1) does not support platforms with Intel[®] Optane[™]. 36. HP Sure Sense requires Windows 10. See product specifications for availability.

POWER

Power Supply

HP Smart 45 W External AC power adapter³⁷ HP Smart 45 W External AC power adapter, 2-prong (Japan only)³⁷ HP Smart 65 W External AC power adapter³⁷ HP Smart 65 W EM External AC power adapter³⁷ 45 W USB Type-C[™] adapter³⁷ 65 W USB Type-C[™] adapter³⁷

Primary Battery

HP Long Life 3-cell, 50 Wh Li-ion³⁸

Battery Life

UMA graphics: Up to 19 hours (Intel® 8th generation CPU and 3-cell 50 WHr battery)³⁹

Power Cord

2-wire plug - 1m³⁷ 3-wire plug - 1m³⁷ 3-wire plug - 1.8m³⁷ Duckhead power cord - 1.0m³⁷ Duckhead power cord - 1.8m³⁷

Battery Weight

193 +/- 10g

37. Availability may vary by country.

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

39. 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 2.94 lb (non-touch); Starting at 3.18 lb (touch)⁴⁰ Starting at 1.33 kg (non-touch); Starting at 1.44 kg (touch)⁴⁰

Product Dimensions (W x D x H)

Non-Touch 12.22 x 9.03 x 0.7 in 31.04 x 22.93 x 1.77 cm

Touch 12.22 x 9.03 x 0.7 in 31.04 x 22.93 x 1.78 cm

40. Weight will vary by configuration.

PORTS/SLOTS

Thunderbolt[™] (USB Type-C[™] connector)
 USB 3.1 Gen 1 (1 charging)
 docking connector
 HDMI 1.4⁸
 RJ-45
 AC power
 Headphone/microphone combo jack
 SIM card slot⁴¹
 Smartcard reader (Optional)
 Standard Security Lock Slot (Lock sold separately)

8. HDMI cable sold separately. 41. All units have a SIM card slot and icon but units that do not support WWAN are shipped with a non-removable SIM slot plug

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. Onsite 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.⁴²

42. 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 V
	Average Operating Power	Win10
	Integrated Graphics	6.78W
	Max Operating Power	UMA < 45W
Temperature	Operating	32° to 95° F (0° to 35° C)
	Non-operating	-4° to 140° F (-20° to 60° C)
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 [®] qualified	Select models ⁴³
	EPEAT [®] 2019	Yes, Silver in U.S. ⁴⁴
	ICES	Yes
	Australia	Yes
	NZ A-Tick Compliance	Yes
	כככ	Yes
	Japan VCCI Compliance	Yes
	КС	Yes
	BSMI	Yes
	CE Marking Compliance	Yes
	BNCI or BELUS	Yes
	CIT	Yes
	GOST	Yes
	Saudi Arabian Compliance (ICCP)	Yes
	SABS	Yes

43. Configurations of the HP Elitebook 830 G6 that are ENERGY STAR® certified are identified as HP Elitebook 830 G6 ENERGY STAR on HP websites and on http://www.energystar.gov.

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



ENVIRONMENTAL & INDUSTRY

Environmental Data	Eco-Label Certifications & declarations		eled with one o n ® y Management AT® registration aries by country servation Prog onmental Prote rk	r more of thes Program (FEM according to y. Visit http://v ram (CECP)	e marks: IP) IEEE 1680.1-2018 www.epeat.net for more
	System Configuration	The configuration used for Emissions data for the Nor Notebook".			
	Energy Consumption (in accordance with US				
	ENERGY STAR® test				
	method)	115VAC, 60Hz	230VAC		100VAC, 50Hz
	Normal Operation (Short idle)	5.04 W	4.88		5.04 W
	Normal Operation (Long idle)	3.70 W	3.37		3.40 W
	Sleep	0.90 W	0.89		0.91 W
	Off	0.37 W	0.36	5 W	0.38 W
		Note: Energy efficiency data listed is for an ENERGY STAR [®] compliant product if offered within the model family. HP computers marked with the ENERGY STAR [®] Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR [®] specifications for computers. If a model family does not offer ENERGY STAR [®] compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows [®] operating system.			
	Heat Dissipation*	115VAC, 60Hz	230VAC	, 50Hz	100VAC, 50Hz
	Normal Operation (Short idle)	17 BTU/hr	16 BT		17 BTU/hr
	Normal Operation (Long idle)	12 BTU/hr	11 BT	U/hr	11 BTU/hr
	Sleep	3 BTU/hr	3 BTI		3 BTU/hr
	Off	1 BTU/hr	1 BTI	J/hr	1 BTU/hr
		*NOTE: Heat dissipation is calculated based on the measured watts, assuming service level is attained for one hour.			sured watts, assuming the
	Declared Noise	Sound Power	r	9	Sound Pressure
	Emissions	(L _{wAd} , bels)			(L _{pAm} , decibels)
	(in accordance with ISO 7779 and ISO 9296)				
	Typically Configured – Idle			14.5	



Fixed Disk – Random		2.7	17.6	
writes Optical Drive – Sequential		3.4	27.7	
reads Longevity and Upgrading	years. Upgra include: • 3 USB ports • 1 PC card sl • 1 ExpressCo • 1 IEEE 1394 • 2 SODIMM r • Optional ex • 1 multi-bay • Interchange	adeable features and/or com lot (type I/II) ard/54 slot 4 Port memory slots pansion base docking static / II storage port eable HDD are available throughout the	Lextending its useful life by seven aponents contained in the proc on e warranty period and or for up	duct may
Batteries		he end of production. (s) in this product comply wi	th FLI Directive 2006/66/EC	
Additional Information	 This battery(s) in this product comply with EU Directive 2006/66/EC Batteries used in the product do not contain: Mercury greater the1ppm by weight Cadmium greater than 20ppm by weight Battery description: BCR1620 (coin cell) Battery type: Lithium Battery description: 6-cell high capacity Lithium-Ion battery (optional 8 cell available) This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC. This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680.1 (EPEAT) standard at the Silver level, see http://www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. This product contains 6.14% post-consumer recycled plastic (by wt.) according to IEEE 1680.1-2018 standard, criterion 4.2.1.1. This product is 96.0% recycle-able when properly disposed of at end of 		us al and tate of 1986). andard at marked by wt.)	
	life.			
Packaging Materials	External:	PAPER/Corrugated		261 g
RoHS Compliance	content. HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the		first iction of	



	 HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam. We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products. We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the scope of the commitment to include further restricted substances as regulations continue to evolve. To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.
Material Usage	 This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf): Asbestos Certain Azo Colorants Certain Brominated Flame Retardants – may not be used as flame retardants in plastics Cadmium Chlorinated Hydrocarbons Chlorinated Paraffins Formaldehyde Halogenated Diphenyl Methanes Lead carbonates and sulfates Lead and Lead compounds Mercuric Oxide Batteries Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user. Ozone Depleting Substances Polybrominated Biphenyl (PCB) Polychlorinated Biphenyl (PCB) Polychlorinated Terphenyls (PCT) Polychlorinated Terphenyls (PCT) Polyvinyl Chloride (PVC) – except for wires and cables, has been voluntarily removed from most applications. Radioactive Substances Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
Packaging Usage	 HP follows these guidelines to decrease the environmental impact of product packaging: Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials. Eliminate the use of ozone-depleting substances (ODS) in packaging materials. Design packaging materials for ease of disassembly. Maximize the use of post-consumer recycled content materials in packaging materials. Use readily recyclable packaging materials such as paper and corrugated materials.



End-of-life Management and Recycling	 Reduce size and weight of packages to improve transportation fuel efficiency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards. Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.
HP, Inc. Corporate Environmental Information	For more information about HP's commitment to the environment: Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www8.hp.com/us/en/hp- information/environment/ecolabels.html ISO 14001 certificates: http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

DISPLAYS

Panel LCD 13.3 inch diagonal FHD (1920 x 1080) Anti-Glare WLED UWVA 45 percent cg 250 nits eDP 1.2 w/o PSR slim	Outline Dimensions (W x H x D)Active AreaWeightDiagonal SizeThicknessInterfaceSurface TreatmentTouch EnabledContrast RatioRefresh RateBrightnessPixel ResolutionFormatBacklightColor Gamut CoverageColor Depth	300.56 x 187.77 mm (max) (w/ PCB & w/o bracket) 293.76 x 165.24 mm (typ.) 260 g (max) 13.3 inch 3.0 mm (max) eDP 1.2 (2 lane) Anti-Glare No 600:1 (typ.) 60 Hz 250 nits (typ.) 1920 x 1080 (FHD) NTSC LED 45% 6 bits
	Viewing Angle	UWVA 85/85/85/85



Panel LCD 13.3 inch diagonal FHD (1920 x 1080) Anti-Glare WLED UWVA 45 percent cg 250 nits eDP slim On-cell Touch	Outline Dimensions (W x H x D) Active Area Weight Diagonal Size Thickness Interface Surface Treatment Touch Enabled	300.56 x 187.77 293.76 x 165.24 mm (typ.) 268 g (max) 13.3 inch 3.2 mm (max) eDP 1.2 Anti-Glare On-cell Yes
	Contrast Ratio Refresh Rate Brightness	600:1 (typ.) 60 Hz 250 nits
	Pixel Resolution Format Backlight Color Gamut Coverage	1920 x 1080 (FHD) NTSC LED 45%
	Color Depth Viewing Angle	6 bits UWVA 85/85/85/85



Panel LCD 13.3 inch	Outline Dimensions (W x H x D)	
diagonal FHD (1920 x 1080)		299.06 x 185.54 mm (max)
Anti-Glare WLED UWVA 72	Active Area	293.76 x 165.24 mm (typ.)
percent cg 400 nits eDP	Weight Discourse Cine	170 g (max)
1.4+PSR2 Slim	Diagonal Size	13.3 inch
	Thickness	2.0 mm (max)
	Interface	eDP 1.4 + PSR2 (2 lane)
	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	NTSC
	Backlight	LED
	Color Gamut Coverage	72%
	Color Depth	8 bits
	Viewing Angle	UWVA 85/85/85/85
Panel LCD 13.3 inch diagonal FHD (1920 x 1080)	Outline Dimensions (W x H x D)	315.31 x 195.498 mm (max)
Anti-Glare WLED UWVA 72 percent cg 1000 nits eDP	Active Area	309.312 x 173.988 mm (typ.)
	Weight	265 g (max)
1.4+PSR2 flat Privacy	Diagonal Size	13.3 inch
	Thickness	3.0 mm (max)
	Interface	eDP 1.4 + PSR2 (4 lane)
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	2000:1 (typ.)
	Refresh Rate	60 Hz
	Brightness	1000 nits
	Pixel Resolution	1920 x 1080 (FHD)
	Format	RGB
	Backlight	LED
	Color Gamut Coverage	72%
	Color Depth	8 bits
		0 UILS
	Viewing Angle	UWVA 85/85/85



Technical Specifications

Panel LCD 13.3 inch	Outline Dimensions (W x H x D)	299.06 x 186.54 mm (max)
diagonal FHD (1920 x 1080)	Active Area	293.76 x 165.24 mm (typ.)
Anti-Glare WLED UWVA 72 percent cg 1000 nits	Weight	260 g (max)
eDP+PSR flat On-cell Touch	Diagonal Size	13.3 inch
Privacy	Thickness	3.2 mm (max)
	Interface	eDP 1.4 + PSR2 (4 lane)
	Surface Treatment	Anti-Glare On-cell
	Touch Enabled	YES
	Contrast Ratio	2000:1 (typ.)
	Refresh Rate	60 Hz
	Brightness	1000 nits
	Pixel Resolution	1920 x 1080 (FHD)
	Format	RGB
	Backlight	LED
	Color Gamut Coverage	72%
	Color Depth	8 bits
	Viewing Angle	UWVA 85/85/85/85

STORAGE AND DRIVES

SSD 128 GB 2280 M2 SATA-	Form Factor	M.2 2280
3 TLC	Capacity	128 GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	ATA-8, SATA 3.0
	Maximum Sequential Read	Around 540 ~ 560 MB/s
	Maximum Sequential Write	Around 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 1 TB 2280 PCIe-3x4	Form Factor	M.2 2280
NVMe Three Layer Cell	Capacity	1 TB
single-sided	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3X4



Technical Specifications

•	Maximum Sequential Read	Around 3200 ~ 3480 MB/s
	Maximum Sequential Write	Around 2400 ~ 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 256 GB 2280 M2 PCIe-	Form Factor	M.2 2280
3x4 SS NVMe TLC	Capacity	256 GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	Around 2900 ~ 3167 MB/s
	Maximum Sequential Write	Around 1300 ~ 1663 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 256 GB 2280 M2 SATA-	Form Factor	M.2 2280
3 Self Encrypted OPAL2 Three Layer Cell	Capacity	256 GB
Three Layer Cell	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	ATA-8, SATA 3.0
	Maximum Sequential Read	Around 530 ~ 560 MB/s
	Maximum Sequential Write	Around 500 ~ 530 MB/s
	Logical Blocks	500,118,192
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security; TCG OPAL 2.0; DIPM; TRIM; DEVSLP
SSD 256 GB 2280 PCIe NVMe	Form Factor	M.2 2280
Value	Capacity	256 GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	-	
	Width	0.87 in (22 mm)
	Width Weight	0.87 in (22 mm) 0.02 lb (10 g)
	Width	0.87 in (22 mm)

Not all configuration components are available in all regions/countries. c06308181 — DA 16443 - Worldwide — Version 5 — June 10, 2019

Technical Specifications

	Maximum Sequential Write Logical Blocks Operating Temperature Features	Around 780 ~ 1300 MB/s 500,118,192	
		32° to 158°F (0° to 70°C) [ambient temp] ATA Security; TRIM; L1.2	
2 TB 2280 PCIe-3x4 NVMe	Form Factor	M.2 2280	
Three Layer Cell single-	Capacity	2 TB	
sided	NAND Type	TLC	
	Height	0.09 in (2.3 mm)	
	Width	0.87 in (22 mm)	
	Weight	0.02 lb (10 g)	
	Interface	PCIe NVMe Gen3X4	
	Maximum Sequential Read	Around 2900 ~ 3000 MB/s	
	Maximum Sequential Write	Around 2100 MB/s	
	Logical Blocks	3,907,029,168	
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]	
	Features	ATA Security; TRIM; L1.2	
SSD 512 GB 2280 M2 PCIe- 3x4 SS NVMe TLC	Form Factor	M.2 2280	
3X4 33 NVME ILC	Capacity	512 GB	
	NAND Type	TLC	
	Height	0.09 in (2.3 mm)	
	Width	0.87 in (22 mm)	
	Weight	0.02 lb (10 g)	
	Interface	PCIe NVMe Gen3X4	
	Maximum Sequential Read	Around 2700 ~ 3400 MB/s	
	Maximum Sequential Write	Around 1390 ~ 2956 MB/s	
	Logical Blocks	1,000,215,215	
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]	
	Features	ATA Security; TRIM; L1.2	
SSD 512 GB 2280 M2 SATA-	Form Factor	M.2 2280	
3 Three Layer Cell Federal	Capacity	512 GB	
Information Processing	NAND Type	TLC	
Standard	Height	2.6 mm Max	
	Width	0.87 in (22 mm)	
	Weight	0.02 lb (10 g)	
	Interface	ACS-3, SATA 3.2	
	Maximum Sequential Read	Around 530 MB/s	
	Maximum Sequential Write	Around 400 MB/s	
hp		ents are available in all regions/countries. /orldwide — Version 5 — June 10, 2019	Page

	Logical Blocks	1,000,215,216
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security; TCG Opal 2.0; FIPS; DIPM; TRIM; DEVSLP
SSD 512 GB 2280 PCIe NVMe Value		M.2 2280
Value	Capacity	512 GB
	NAND Type	TLC/QLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	Around 1500 ~ 1700 MB/s
	Maximum Sequential Write	Around 860 ~ 1500 MB/s
	Logical Blocks	1,000,215,215
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security; TRIM; L1.2
SD 512 GB 2280 PCIe-3x4	Form Factor	M.2 2280
NVMe Self Encrypted OPAL2	Capacity	512 GB
Three Layer Cell	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	Around 2900 ~ 3400 MB/s
	Maximum Sequential Write	Around 1000 ~ 2500 MB/s
	Logical Blocks	1,000,215,216
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security; TCG Opal 2.0; FIPS; DIPM; TRIM; DEVSLP



Technical Specifications

NETWORKING/COMMUNICATIONS

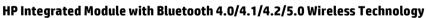
Intel® 9560 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo ¹ vPro	Wireless LAN Standards Interoperability Frequency Band	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac Wi-Fi® certified 802.11b/g/n •2.402 - 2.482 GHz 802.11a/n •4.9 - 4.95 GHz (Japan) •5.15 - 5.25 GHz •5.25 - 5.35 GHz •5.47 - 5.725 GHz •5.825 - 5.850 GHz
	Data Rates	 •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)
	Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
	Security ³	 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 Output Power ²	IEEE 802.11 compliant roaming between access points •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): +11.5dBm minimum •802.11ac VHT80(5GHz): +11.5dBm minimum
	Power Consumption	•Transmit mode 2.0 W •Receive mode 1.6 W •Idle mode (PSP) 180 mW (WLAN Associated) •Idle mode 50 mW (WLAN unassociated) •Connected Standby 10mW •Radio disabled 8 mW



Power Management	•	press compliant power management nt power saving mode
Receiver Sensitivity ³	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	Туре 2230: 2.8g	
Operating Voltage	3.3v +/- 9%	
Temperature	Operating Non-operating	14° to 158° F (–10° to 70° C) –40° to 176° F (–40° to 80° C)
Humidity	Operating Non-operating	10% to 90% (non-condensing) 5% to 95% (non-condensing)
Altitude	Operating Non-operating	0 to 10,000 ft (3,048 m) 0 to 50,000 ft (15,240 m)
LED Activity	LED Amber – Ra	dio OFF; LED White – Radio ON

- 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	1 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)		
Signaling Data Rate	Legacy: 3 Mbps signaling data rate ¹ 2.17 Mbps BLE: 1 Mbps signaling data rate ¹ 0.2 Mbps 1. Actual throughput may vary.		
	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 Consumption	Peak (Tx) 330 mW Peak (Rx) 230 mW		





	Selective Suspend 17 mW
Electrical Interface	USB 2.0 compliant
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 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)
Security & Manageability	Intel® vPro™ support with appropriate Intel® chipset components



Intel® 9560 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo¹ non-vPro	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	•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)
	Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
	Security ³	 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 Output Power ²	IEEE 802.11 compliant roaming between access points •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
	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 10mW Radio disabled 8 mW



Power Management		press compliant power management nt power saving mode
Receiver Sensitivity ³	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 Non-operating	14° to 158° F (–10° to 70° C) –40° to 176° F (–40° to 80° C)
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LED Activity	LED Amber – Ra	dio OFF; LED White – Radio ON

- 1. Check latest software/driver release for updates on supported security features.
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Bluetooth Specification	4.0/4.1/4.2/5.0 Compliant
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Signaling Data Rate	Legacy: 3 Mbps signaling data rate ¹ 2.17 Mbps BLE: 1 Mbps signaling data rate ¹ 0.2 Mbps 1. Actual throughput may vary.
	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 Consumption	Peak (Tx) 330 mW Peak (Rx) 230 mW



Selective Suspend 17 mW
Microsoft Windows Bluetooth Software
Microsoft Windows ACPI, and USB Bus Support
FCC (47 CFR) Part 15C, Section 15.247 & 15.249
ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark
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 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)



Intel® 22260 802.11a/b/g/n/ac/ax (2x2) Wi-Fi® 6 and Bluetooth® 5.1 Combo ¹ vPro	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac IEEE 802.11ax IEEE 802.11d IEEE 802.11b IEEE 802.11h
		IEEE 802.11i IEEE 802.11k IEEE 802.11r IEEE 802.11v
	Interoperability	Wi-Fi [®] certified
	Frequency Band	802.11b/g/n
	Frequency banu	•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	 •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)
	Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
	Security ³	 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 Power ²	 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 802.11n HT40(5GHz): +14.5dBm minimum



Technical Specifications

		60(5GHz): +11.5dBm minimum (2.4GHz): +10dBm minimum
		60(5GHz): +10dBm minimum
Power Consumption		.6 W) 180 mW (WLAN Associated) W (WLAN unassociated) Idby 10mW
Power Management		ress compliant power management It power saving mode
Receiver Sensitivity ³	•802.11b, 11Mb •802.11a/g, 6Ml •802.11a/g, 54M •802.11n, MCS0 •802.11n, MCS1 •802.11ac, MCS •802.11ac, MCS •802.11ac, MCS	s: -93.5dBm maximum ps: -84dBm maximum pps: -86dBm maximum Abps: -72dBm maximum 7: -67dBm maximum 5: -64dBm maximum 0: -84dBm maximum 9: -59dBm maximum 11(HT40): -59dBm maximum 11(VHT160): -58.5dBm maximum
Antenna type	enclosure Two embedded o	ntenna with spatial diversity, mounted in the display dual band 2.4/5 GHz antennas are provided to the card to IMO communications and Bluetooth communications
Form Factor	PCI-Express M.2	MiniCard
Dimensions		3 x 22.0 x 30.0 mm 67 x 12.0 x 16.0 mm
Weight	1. Type 2230: 2.8 2. Type 126: 1.3	5
Operating Voltage	3.3v +/- 9%	
Temperature	Operating Non-operating	14° to 158° F (–10° to 70° C) –40° to 176° F (–40° to 80° C)
Humidity	Operating Non-operating	10% to 90% (non-condensing) 5% to 95% (non-condensing)
Altitude	Operating Non-operating	0 to 10,000 ft (3,048 m) 0 to 50,000 ft (15,240 m)

- 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 4.0/4.1/4.2/5.0/5.1 Wireless TechnologyBluetooth Specification4.0/4.1/4.2/5.0/5.1 CompliantFrequency Band2402 to 2480 MHzNumber of AvailableLegacy: 0~79 (1 MHz/CH)

	\boldsymbol{n}
Y	2

Channels

BLE: 0~39 (2 MHz/CH)

Signaling Data Rate	Legacy: 3 Mbps signaling data rate ¹ 2.17 Mbps BLE: 1 Mbps signaling data rate ¹ 0.2 Mbps 1. Actual throughput may vary.
	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 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 Software 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 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)
Security & Manageability	Intel $^{\circ}$ vPro ^{m} support with appropriate Intel $^{\circ}$ chipset components



Intel® 22260 802.11a/b/g/n/ac/ax (2x2) Wi-Fi® 6 and Bluetooth® 5.1 Combo ¹ non-vPro	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11ac IEEE 802.11ac IEEE 802.11d IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11h IEEE 802.11k IEEE 802.11r IEEE 802.11v 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 •802.11a: 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
	Security ³	 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 Output Power ²	IEEE 802.11 compliant roaming between access points •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): +14.5dBm minimum •802.11n HT40(5GHz): +14.5dBm minimum



	•802.11ac VHT1 •802.11ax HT40	0(5GHz): +11.5dBm minimum 60(5GHz): +11.5dBm minimum (2.4GHz): +10dBm minimum 60(5GHz): +10dBm minimum
Power Consumption	-	I.6 W) 180 mW (WLAN Associated) W (WLAN unassociated) ndby 10mW
Power Management		press compliant power management nt power saving mode
Receiver Sensitivity ³	•802.11b, 11Mb •802.11a/g, 6M •802.11a/g, 54 •802.11n, MCSC •802.11n, MCS1 •802.11ac, MCS •802.11ac, MCS •802.11ac, MCS	s: -93.5dBm maximum ps: -84dBm maximum bps: -86dBm maximum Mbps: -72dBm maximum J7: -67dBm maximum 5: -64dBm maximum 0: -84dBm maximum 9: -59dBm maximum 11(HT40): -59dBm maximum 11(VHT160): -58.5dBm maximum
Antenna type	enclosure Two embedded	ntenna with spatial diversity, mounted in the display dual band 2.4/5 GHz antennas are provided to the card to IIMO communications and Bluetooth communications
Form Factor	PCI-Express M.2	MiniCard
Dimensions		3 x 22.0 x 30.0 mm 67 x 12.0 x 16.0 mm
Weight	1. Type 2230: 2. 2. Type 126: 1.3	
Operating Voltage	3.3v +/- 9%	
Temperature	Operating Non-operating	14° to 158° F (–10° to 70° C) –40° to 176° F (–40° to 80° C)
Humidity	Operating Non-operating	10% to 90% (non-condensing) 5% to 95% (non-condensing)
Altitude	Operating Non-operating	0 to 10,000 ft (3,048 m) 0 to 50,000 ft (15,240 m)

- 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 4.0/4.1/4.2/5.0/5.1 Wireless Technology

Bluetooth Specification	4.0/4.1/4.2/5.0/5.1 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available Channels	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)



Signaling Data Rate	Legacy: 3 Mbps signaling data rate ¹ to 2.17 Mbps BLE: 1 Mbps signaling data rate ¹ 0.2 Mbps 1. Actual throughput may vary.
	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 Software 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 BT4.2 ESR08 Compliance LE Secure Connection- Basic/Full LE Privacy 1.2 –Link Layer Privacy 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)



Technical Specifications

Intel®XMM 7360 LTE- Advanced CAT9	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+: 21Mbps (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 (Length x Width x Thickness)	42 x 30 x 2.3 mm
	Mobile Broadband is an opt	ional feature. Connection requires wireless data service contract, network

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.

Intel ® XMM 7262 LTE- Advanced CAT6	Technology/Operating bands	FDD LTE: 2100 (Band 1), 1800 (Band 3), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 800 (Band 20), 700 (Band 28), HSPA+: 2100 (Band 1), 850 (Band 5), 900 (Band 8)
	Wireless protocol standards	3GPP Release 11 LTE Specification CAT.6, DL 40MHz BW throughput up to 300Mbps; 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 and XTRA)
	GPS bands	1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz
	Maximum data rates	LTE: 300 Mbps (Download), 50 Mbps (Upload) DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) UMT: 384 kbps (Download), 384 kbps (Upload)
	Maximum output power	LTE: 23 dBm HSPA+: 23.5 dBm



Technical Specifications

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	6 g
Dimensions (Length x Width x Thickness)	42 x 30 x 2.3 mm
	optional feature. Connection requires wireless data service co lable in all areas. Contact service provider to determine the co

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.

Intel® XMM™ 7560 LTE- Advanced Pro	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), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 14 upper), 700 (Band 17 lower), 850 (Band 18 lower), 850 (Band 19 upper), 800 (Band 20), 1900 (Band 25), 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), 3500 (Band 42), 5200 (Band 46 RX only) HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4), 850 (Band 5), 900 (Band 8) MH
	Wireless protocol standards	3GPP Release 12 LTE Specification DL-CAT.16, DL 100MHz BW throughput up to 978Mbps; UL-CAT.13 40MHz throughput up to 150Mbps WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification
	GPS	Standalone, A-GPS (MS-B and LTO)
	GPS bands	GPS 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou 1561.098 ± 2.046 MHz
	Maximum data rates	LTE: 978 Mbps (Download), 150 Mbps (Upload) DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21Mbps (Download), 5.76 Mbps (Upload)
	Maximum output power	LTE: 23 dBm in all bands except B41 LTE B41 HPUE: 26dBm 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	6 g
	Dimensions (Length x Width x Thickness)	42 x 30 x 2.3 mm

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



Technical Specifications

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 W x H) Chipset System interface NFC RF standards	Module 17 mm by 10 mm by 2.0 mm NPC300 I2C ISO/IEC 14443 A ISO/IEC 14443 B ISO/IEC 15693 ISO/IEC 18092 ECMA-340 NFCIP-1 Target and Initiator
	NFC Forum Support Reader (PCD-VCD) Mode (1)	ECMA-320 NFCIP-2 Tag Type 1, Type 2, Type3 and Type 4, NFCIP-1 and NFCIP-2 ISO/IEC 14443 A ISO/IEC 14443 B ISO/IEC 15693
	Card Emulation (PICC- VICC) Mode (1)	MIFARE 1K MIFARE 4K MIFARE DESFire FeliCa Jewel and Topaz cards ISO/IEC 14443 A ISO/IEC 14443 B and B' MIFARE
	Fraguancy	FeliCa 13.56 MHz
	Frequency NFC Modes Supported	Reader/Writer, Peer-to-Peer
	Raw RF Data Rates	106, 212, 424, 848 kbps
		-25 C to 80°C
	Operating temperature	-25°C to 125°C
	Storage temperature Humidity	10-90% operating 5-95% non-operating
	Supply Operating voltage	2.7 to 5.5 Volts
	I/O Voltage	1.8V or 3.3V
Power Consumption (Booster enable, VBAT= 3.3V, VCC_BOOST = 5V)	Mode	Power Consumption, Typical
	Polling	710.93 mW
	Detected Test Tag Type 1	
	Detected Test Tag Type 2	
	Detected Test Tag Type 3	
	Detected Test Tag Type 4	
	Antenna	Antenna connector, 0.3mm pitch, 7 connector FPC. Antenna matching is external to module.



Technical Specifications

Intel® i219LM 10/100/1000 Integrated NIC	Connector	RJ-45			
	System Interface	PCI(Intel proprietary) + SMBus			
	Data rates supported	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14) 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21- 30) 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 8023 clauses 40) Auto-Negotiation (Automatic Speed Selection) Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s			
	IEEE Compliance	IEEE 802.1p QoS (Quality of Service) Support IEEE 802.1q VLAN support IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3az EEE (Energy Efficient Ethernet)			
	Performance	TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling Jumbo Frame 9K			
	Power consumption	Cable Disconnection: 25mW 100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW			
	Power Management	ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption			
	Management Interface	Auto MDI/MDIX Crossover cable detection			
	IT Manageability	Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite Virtual Cable Doctor for Ethernet cable status			
	Security & Manageability	Intel $^{\circ}$ vPro $^{\mathrm{TM}}$ support with appropriate Intel $^{\circ}$ chipset components			
	Mobile Broadband is an opti	onal feature. Connection requires wireless data service contract, network			

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.



Technical Specifications

Intel® i219v	Connector	RJ-45		
10/100/1000 Integrated NIC	System Interface	PCI(Intel proprietary) + SMBus		
	Data rates supported	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14) 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21- 30) 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 8023 clauses 40) Auto-Negotiation (Automatic Speed Selection) Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s		
	IEEE Compliance	IEEE 802.1p QoS (Quality of Service) Support IEEE 802.1q VLAN support IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3az EEE (Energy Efficient Ethernet)		
	Performance	TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling Jumbo Frame 9K		
	Power consumption	Cable Disconnection: 25mW 100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW		
	Power Management	ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption		
	Management Interface	Auto MDI/MDIX Crossover cable detection		
	IT Manageability	Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite Virtual Cable Doctor for Ethernet cable status		
	support, and is not availabl	ional feature. Connection requires wireless data service contract, network e in all areas. Contact service provider to determine the coverage area and		

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.



Technical Specifications

POWER

AC Adapter 45 Watt nPFC	Dimensions (H x W x D)	62.0 x 62.0 x 28.5mm	
Wall Mount USB type C Straight 1.8m C6NS	Weight	unit: 220g +/- 10g	
	Input	Input Efficiency	Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec: 5V: 81.5% 9V: 86.7% 10V: 87.5% 12V: 87.8% 15V: 87.8% 20V: 87.8%
		Input frequency range	47 ~ 63Hz
		Input AC current	Max. 1.4 A at 90 Vac
	Output	Output power	Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec:
		DC output	5V: 81.5%
		Hold-up time	9V: 86.7%
		Output current limit	10V: 87.5%
	Connector	Non-Standard C6	
	Environmental Design	Operating temperature	32oF to 95oF (Ooto 35oC)
		Non-operating (storage)	
		temperature	-4oF to 185oF (-20oto 85oC)
		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.	



Technical Specifications

AC Adapter 45 Watt Smart nPFC Standard Barrel	Dimensions (H x W x D) Weight	95.0x40.0x26.5mm unit: 200g +/- 10g	
4.5 mm Right Angle 1.8 m	Input	Input Efficiency	87.74 % at 115 Vac and 88.4 % at 230Vac
	• • •	Input frequency range	47 ~ 63 Hz
		Input AC current	Max. 1.4 A at 90 Vac
	Output	Output power	45W
		DC output	19.5V
		Hold-up time	5ms at 115 Vac input
		Output current limit	<8.0A
	Connector	C6	
	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	0 to 16,400 ft (0 to 5000m)
		Humidity	20% to 95%
		Storage Humidity	10% to 95%
	EMI and Safety Certifications	* Worldwide safety standa SELV; Agency approvals – FCC Class B, CISPR22 Class	with LVD and EMC directives ords - IEC60950, EN60950, UL60950, Class1, C-UL-US, NORDICS, DENAN, EN55022 Class B, B, CCC, NOM-1 NYCE. ors at 25°C ambient condition.

AC Adapter 45 Watt Smart nPFC Standard Barrel 4.5 mm Right Angle 1.8 m	Dimensions (H x W x D)	95.0 x 40.0 x 26.5mm	
	Weight	unit: 200g +/- 10g	
2prong	Input	Input Efficiency	87.74 % at 115 Vac and 88.4 % at 230Vac
		Input frequency range	47 ~ 63 Hz
		Input AC current	Max. 1.4 A at 90 Vac
	Output	Output power	45W
		DC output	19.5V
		Hold-up time	5ms at 115 Vac input
		Output current limit	<8.0A
	Connector	С8	
	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	0 to 16,400 ft (0 to 5000m)



Technical Specifications

		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.		
AC Adapter 65 Watt nPFC USB type C Straight 1.8m	Dimensions (H x W x D)	74 x 74 x 28.5 mm		
C6NS	Weight	unit: 245g +/- 10g		
	Input	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 @ 10V/5A 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 to 63 Hz	
		Input AC current	1.7 A at 90 VAC and maximum load	
	Output	Output power	65W	
		DC output	5V/9V/10V/12V/15V/20V	
		Hold-up time	5ms at 115 Vac input	
		Output current limit	<8.0A	
	Connector	Non-Standard C6		
	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	5% to 95%	
		Storage Humidity	5% 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 100,000 hours at 25°C ambient condition.		

AC Adapter 65 Watt Smart nPFC EM Barrel 4.5mm New EM	Dimensions (H x W x D)	102 x 55 x 30 mm	
	Weight	unit: 250g +/- 10g	
	Input	Input Efficiency	88.0 % at 115 Vac and 89.0 % at 230Vac
		Input frequency range	47 ~ 63 Hz



Technical Specifications

	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	
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	* Worldwide safety standa SELV; Agency approvals - (FCC Class B, CISPR22 Class	with LVD and EMC directives rds - IEC60950, EN60950, UL60950, Class1, C-UL-US, NORDICS, DENAN, EN55022 Class B, B, CCC, NOM-1 NYCE. Irs at 25°C ambient condition.

IC Adapter 65 Watt Smart IPFC Standard Barrel	Dimensions (H x W x D) Weight	90.0 x 51 x 28.5mm unit: 230g +/- 10g	
4.5mm Right Angle 1.8m	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	Non-Standard C6	
	Environmental Design	Operating temperature	32°F to 95°F (0° to 35°C)
		Non-operating (storage) temperature	32°F to 95°F (0° to 35°C)
		Altitude	0 to 16,400 ft (0 to 5000m)
		Humidity	20% to 95%
		Storage Humidity	10% to 95%
	EMI and Safety Certifications	* Worldwide safety standa	with LVD and EMC directives Irds - IEC60950, EN60950, UL60950, Class1, C-UL-US, NORDICS, DENAN, EN55022 Class B, B, CCC, NOM-1 NYCE.



Technical Specifications

* MTBF - over 100,000 hours at 25°C ambient condition.

Battery SS 3 Cell 50 WHr Long Life -PL	Dimensions (H x W x D) Weight Cells/Type	L 278.7mm x W 76.3mm x H 7.1mm 193 +/- 10g 3cell Lithium-Ion Polymer cell / P604883A1	
	Energy	Voltage	11.55V
		Amp-hour capacity	4.113Ah/ 4.330Ah
		Watt-hour capacity	50Wh
	Temperature	Operating (Charging)	0° to 50° C
		Operating (Discharging)	-10° to 60° C
		Warranty	based on system offering
		Optional Travel Battery Available	No



Technical Specifications

Country of Origin

China



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

Туре	Description	Part Number
Cases	HP Essential Top Load Case (up to 15.6")	H2W17AA#xxx
	HP Slim Ultrabook Top Load	F3W15AA#xxx
	HP Basic/Essential Backpack	H1D24AA#xxx
	HP Exec Midnight 15.6" Backpack	1KM16AA#xxx
Docking	HP UltraSlim Docking Station	D9Y32AA#xxx
	HP UltraSlim Docking Station TAA US	E5C22AV#ABA
	HP Thunderbolt Dock 120W G2	2UK37AA
	HP Thunderbolt Dock 230W G2	2UK38AA
	HP TB Dock Audio Module	3AQ21AA
	HP TB Dock 120W G2 cable	3XB94AA
	HP TB Dock G2 combo cable	3XB96AA
	HP USB-C Universal Dock	1MK33AA#xxx
	HP Elite 90W Thunderbolt 3 Dock	1DT93AA#xxx
	HP USB-C Dock G4	3FF69AA#xxx
	HP USB-C Mini Dock	1PM64AA#xxx
	HP USB-C Travel Dock	T0K29AA#xxx
	HP USB Travel Dock	T0K30AA#xxx
	HP USB-C Universal Dock w/4.5mm Adapter	2UF95AA
	HP USB-C Universal Dock w/4.5mm Adapter - non-flash version	3DV65AA
	HP USB-C Dock G5	5TW10AA#XXX
	HP USB-C/A Universal Dock G2	5TW13AA#XXX
	HP Adjustable Dual Display Stand	AW664AA#xxx
	HP Display and Notebook Stand II	E8G00AA#xxx
	HP TB Dock G2 w/ Combo Cable	3TR87AA
	HP TB Dock 120W G2 w/ Audio	3YE87AA
Input/Output	HP Slim Wireless Keyboard and Mouse	T6L04AA#xxx
	HP Slim USB Keyboard and Mouse	T6T83AA#xxx
	HP Wireless (Link-5) Keyboard	T6U20AA#xxx
	HP USB Essential Keyboard and Mouse	H6L29AA#xxx
	HP Conferencing Keyboard	K8P74AA#xxx
	HP USB Collaboration Keyboard	Z9N38AA#xxx
	HP Wireless Collaboration Keyboard	Z9N39AA#xxx
	HP Comfort Grip Wireless Mouse	H2L63AA#xxx
	HP X4000b Bluetooth Mouse	H3T50AA#xxx
	HP 3-Button USB Laser Mouse	H4B81AA#xxx
	HP USB Travel Mouse	G1K28AA#xxx
	HP Ultra Mobile Wireless Mouse	H6F25AA#xxx
	HP Slim Bluetooth Mouse to AMO	F3J92AA#xxx
	HP Wireless Premium Mouse	1JR31AA#xxx
	HP USB Premium Mouse	1JR32AA#xxx



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QuickSpecs

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

	HP Essential USB Mouse	2TX37AA#xxx
	HP Elite Presenter Mouse	2CE30AA#xxx
	HP USB-C to USB 3.0 Adapter	N2Z63AAA#xxx
	HP USB-C to USB-A Hub	Z6A00AA#xxx
	HP USB-C to DP	N9K78AA#xxx
	HP USB-C to VGA	N9K76AA#xxx
	HP HDMI to DVI	F5A28AA#xxx
	HP HDMI to VGA	H4F02AA#xxx
	HP USB-C to HDMI 2.0 Adapter	1WC36AA#xxx
Power	HP 65W Slim AC Adapter	H6Y82AA#xxx
	HP 90W Slim AC Adapter	H6Y83AA#xxx
	HP 90W Slim Combo AC Adapter w/ USB	H6Y84AA#xxx
	HP 45W Smart AC Adapter	H6Y88AA#xxx
	HP 65W Smart AC Adapter	H6Y89AA#xxx
	HP 90W Smart AC Adapter	H6Y90AA#xxx
	HP 45W 2-prong 4.5 mm DC jack AC Adapter	L6F60AA#ABJ
	HP 45W USB-C Power Adapter	1HE07AA#xxx
	HP 65W USB-C Power Adapter	1HE08AA#xxx
	65W USB-C Slim Power Adapter	3PN48AA
	HP Notebook Power Bank	N9F71AA#xxx
	HP USB-C Notebook Power Bank	1TZ86AA#xxx
	HP 45W USB-C Power Adapter	1HE07AA#xxx
	HP 65W USB-C Power Adapter	1HE08AA#xxx
UCC	HP Stereo 3.5mm Headset	T1A66AA#xxx
	HP Stereo USB Headset	T1A67AA#xxx
	HP UC Wireless Mono Headset	W3K08AA#xxx
	HP UC Wireless Duo Headset	W3K09AA#xxx
Storage	HP USB External DVDRW Drive	F2B56AA#xxx
	HP 256GB M2 PCIe NVME SSD TLC (2280)	1FU87AA#xxx
	HP 512GB M2 PCIe NVME SSD TLC 2280)	1FU88AA#xxx
Security	HP Docking Station Cable Lock	AU656AA#xxx
	HP Essential Combination Lock	T0Y16AA#xxx
	HP Combination Lock	T0Y15AA#xxx
	HP Keyed Cable lock	T0Y14AA#xxx
	HP Keyed Cable Lock 10mm	T1A62AA#xxx
	HP Dual Head Keyed Cable Lock	T1A64AA#xxx
Displays	HP EliteDisplay E243d 23.8-inch Docking Monitor	1TJ76AA
	HP EliteDisplay E243 23.8-inch Monitor	1FH47AA
hp -	Not all configuration components are available in all regions/countries. c06308181 — DA 16443 - Worldwide — Version 5 — June 10, 2019	Page 4

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

HP EliteDisplay E273q 27-inch Monitor

1FH52AA



Change Log

Date of change:	Version History:		Description of change:
May 28, 2019	From V1 to V2	Updated	Sure View Gen3
May 30, 2019	From V2 to V3	Updated	Lock Slot
June 7, 2019	From V3 to V4	Added	Environmental Section
June 10, 2019	From V4 to V5	Added	HP Cloud Recovery

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