### **Overview**

#### **HP EliteBook 735 G6 Notebook PC**



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

#### Left

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

### **Overview**



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

#### Right

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

1. 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

### **Overview**

#### AT A GLANCE

- Eye-catching Ultraslim design, premium precision-crafted machined aluminum (CNC), seamless formed aluminum chassis for clean, crisp, premium look and feel
- Choice of 2nd Generation AMD® Ryzen™ PRO processors
- Designed to support all HP docking options including HP's traditional Ultraslim mechanical dock and all-new Thunderbolt™ dock¹
- 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 ant-glare touch displays with ambient light sensor
- Choice of displays:
  - 33.8 cm (13.3") diagonal FHD IPS anti-glare LED-backlit, non-touch, 250 cd/m², 45% NTSC 33.8 cm (13.3") diagonal FHD IPS anti-glare LED-backlit non-touch 400 cd/m², 72% NTSC 33.8cm (13.3") diagonal FHD IPS anti-glare LED-backlit non-touch, 1000 cd/m², 72% NTSC with HP Sure View 33.8cm (13.3") diagonal FHD Anti-Glare On-Cell LED-backlit touch, 250 cd/m², 45% NTSC
- Enterprise grade security with HP SureStart, HP Privacy Camera<sup>1</sup>, HP Sure View<sup>4</sup>, HP Sure Run, HP Sure Recover, HP Sure Click, HP Sure Sense<sup>5</sup>, SmartCard Reader<sup>1</sup> and Touch Fingerprint reader<sup>1</sup>
- Preinstalled with Windows 10 versions or FreeDOS
- Supports fast charging (50% in 30 minutes) with no impact on battery recharge cycles<sup>2</sup>
- Flexible wireless connectivity options
- Passed MIL-STD 810G tests<sup>3</sup>
- Battery Life up to 15 hours and 15 minutes (2<sup>nd</sup> Gen AMD® Ryzen™ PRO APU processor, 13.3" 400 nits panel and 3-cell 50WHr battery)
- 1. Sold separately or as an optional feature.
- 2. HP Elite notebooks 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 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.
- 4. HP Sure View G3 integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation. Available in Q3'19.
- 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.



#### **Features**

#### **PRODUCT NAME**

HP EliteBook 735 G6 Notebook PC

#### **OPERATING SYSTEM**

**Preinstalled** Windows 10 Pro 64<sup>1</sup>

Windows 10 Pro 64 (National Academic License)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** 

- 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 <a href="http://www.windows.com/">http://www.windows.com/</a>.
- 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.

#### **PROCESSORS**

AMD Ryzen™ 7 PRO 3700U APU with Radeon™ Vega 10 Graphics (2.3 GHz base clock, up to 4 GHz max boost clock, 4 MB L3 cache. 4 cores)<sup>3,4,5</sup>

AMD Ryzen™ 5 PRO 3500U APU with Radeon™ Vega 8 Graphics (2.1 GHz base clock, up to 3.7 GHz max boost clock, 4 MB L3 cache, 4 cores)<sup>3,4,5</sup>

AMD Ryzen™ 3 PRO 3300U APU with Radeon™ Vega 6 Graphics (2.1 GHz base clock, up to 3.5 GHz max boost clock, 4 MB L3 cache. 4 cores)<sup>3,4,5</sup>

#### **Processor Family**

2nd Gen AMD® Ryzen™ PRO APU processor<sup>5</sup>

- 3. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
- 4. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. AMD's numbering is not a measurement of clock speed.
- 5. 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



#### **Features**

#### **GRAPHICS**

#### Integrated

AMD Radeon™ Vega Graphics<sup>6</sup>

#### Supports

Support HD decode, DX12, and HDMI2.0

6. HD content required to view HD images.

#### **DISPLAY**

#### Non-Touch

33.8 cm (13.3") diagonal FHD IPS eDP anti-glare WLED-backlit slim, 250 nits, 45% NTSC (1920 x 1080)<sup>6,8,9</sup>

33.8 cm (13.3") diagonal FHD IPS eDP anti-glare WLED-backlit slim, 250 nits, 45% NTSC with HD camera (1920 x 1080)<sup>6,8,9</sup>

33.8 cm (13.3") diagonal FHD IPS eDP anti-glare WLED-backlit slim, 250 nits, 45% NTSC with HD + IR camera (1920 x 1080)<sup>6,8,9</sup>

33.8 cm (13.3") diagonal FHD IPS eDP anti-glare WLED-backlit slim, 250 nits, 45% NTSC for WWAN (1920 x 1080)<sup>6,8,9</sup>

33.8 cm (13.3") diagonal FHD IPS eDP anti-glare WLED-backlit slim, 250 nits, 45% NTSC with HD camera for WWAN (1920  $\times$  1080)<sup>6,8,9</sup>

33.8 cm (13.3") diagonal FHD IPS eDP anti-glare WLED-backlit slim, 250 nits, 45% NTSC with HD + IR camera for WWAN (1920  $\times$  1080)<sup>6,8,9</sup>

33.8 cm (13.3") diagonal FHD IPS eDP + PSR anti-glare WLED-backlit ultraslim, 400 nits, 72% NTSC with Ambient Light Sensor and HD + IR camera  $(1920 \times 1080)^{6,8,9}$ 

33.8 cm (13.3") diagonal FHD IPS eDP + PSR anti-glare WLED-backlit ultraslim, 400 nits, 72% NTSC with Ambient Light Sensor and HD + IR camera for WWAN  $(1920 \times 1080)^{6,8,9}$ 

33.8 cm (13.3") diagonal FHD IPS eDP + PSR anti-glare WLED-backlit ultraslim with HP Sure View Integrated Privacy Screen, 1000 nits. 72% NTSC with Ambient Light Sensor and HD + IR camera for WWAN (1920 x 1080)<sup>6,7,8,9</sup>

#### Touch

33.8 cm (13.3") diagonal FHD IPS eDP anti-glare On-Cell WLED-backlit slim touch screen, 250 nits, 45% NTSC with HD+IR camera  $(1920 \times 1080)^{6,8,9}$ 

33.8 cm (13.3") diagonal FHD IPS eDP anti-glare On-Cell WLED-backlit slim touch screen, 250 nits, 45% NTSC, with HD+IR camera for WWAN (1920  $\times$  1080)<sup>6,8,9</sup>

#### **HDMI 2.0**

Support resolution up to 4k @ 60Hz

- 6. HD content required to view HD images.
- 7. HP Sure View Gen3 integrated privacy panel is an option feature that must be configurated at purchase and is designed to function in landscape orientation. Available in Q3'19.
- 8. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 9. Sold separately or as an optional feature.



#### **Features**

Docking station model	Total number of supported displays (incl. the notebook display)	Max.resolutions supported	Dock Connectors	Technical limitations
HP UltraSlim Docking Station	4	Dual 2.5K @ 60Hz	2xDP, 1xVGA	Dual 2.5k only with both displays into DP
HP Thunderbolt Dock G2	4	Dual 2560 x 1600 @ 60Hz Single 3840 x 2160 @ 60Hz	2xDP, 1xVGA, 1xTB, 1xUSB-C alt-mode	
HP Elite USB-C Dock G4	4	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
HP USB-C Mini Dock	2	Single 4K @ 30Hz	1xHDMI, 1xVGA	Single external display Only HDMI or VGA at the time

#### STORAGE AND DRIVES

#### **Primary M.2 Storage**

128 GB SATA-3 SS TLC<sup>10</sup>
256 GB PCIe® NVMe™ Value SS TLC<sup>10</sup>
256 GB PCIe® Gen3x4 NVMe™ SS TLC<sup>10</sup>
256 GB SATA-3 TLC Opal 2<sup>10</sup>
512 GB PCIe® Gen3x4 NVMe™ SS TLC<sup>10</sup>
512 GB PCIe® Gen3x4 NVMe™ SS TLC Opal 2<sup>10</sup>
512 GB PCIe® Value<sup>10</sup>

1 TB PCIe® Gen3 x4 NVMe™ SS TLC¹0

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 DDR4-2400 SDRAM

#### Memory

32 GB DDR4-2400 SDRAM (2 x 16 GB)11

16 GB DDR4-2400 SDRAM (1 x 16 GB)11

16 GB DDR4-2400 SDRAM (2 x 8 GB)<sup>11</sup>

8 GB DDR4-2400 SDRAM (1 x 8 GB)<sup>11</sup>

8 GB DDR4-2400 SDRAM (2 x 4 GB)11

4 GB DDR4-2400 SDRAM (1 x 4 GB)11

#### **Memory Slots**

2 SODIMM



#### **Features**

Both slots are customer accessible / upgradeable DDR4 SODIMMS, system runs at 2400 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.

#### **NETWORKING/COMMUNICATIONS**

#### WLAN

Intel® Dual Band Wireless-AC 9260 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 Combo, non-vPro™12 Intel® AX200 Wi-Fi 6¹6 (2x2) and Bluetooth® 5 Combo, non-vPro™ (supporting gigabit file transfer speeds) Realtek RTL8822BE 802.11ac (2x2) and Bluetooth® 4.2 Combo¹2

#### **WWAN**

Intel® XMM™ 7360 LTE-Advanced Cat 913

#### NFC

NXP NPC300 Near Field Communication Module

#### Miracast

Native Miracast Support<sup>14</sup>

#### **Ethernet**

Realtek PCIe GbE Family Controller 10/100/1000<sup>15</sup>

- 12. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.
- 13. WWAN module 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. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
- 15. 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.
- 16. 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. Feature available in Q3'19.

#### AUDIO/MULTIMEDIA

#### **Audio**

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

#### Camera

720p HD camera<sup>6,9</sup> 720p HD+IR camera<sup>6,9,17</sup>

#### Sensors



#### **Features**

Ambient light sensor (Select models only) Hall Sensor

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

#### **KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS**

#### Keyboard

HP Premium Collaboration Keyboard, 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



#### **Features**

#### **SOFTWARE AND SECURITY**

### **Preinstalled Software**

**BIOS** 

HP BIOSphere Gen5<sup>18</sup>

HP Drive Lock & Automatic Drive Lock<sup>19</sup>

**BIOS Update via Network** 

**Master Boot Record Security** 

**Power On Authentication** 

Secure Erase<sup>20</sup>

Absolute Persistence Module<sup>21</sup>

**Pre-boot Authentication** 

#### Software

HP Native Miracast Support<sup>22</sup>

**HP Connection Optimizer** 

**HP Image Assistant** 

**HP Hotkey Support** 

**HP JumpStart** 

HP Support Assistant<sup>23</sup>

**HP Noise Cancellation Software** 

Buy Office (Sold separately)

#### **Manageability Features**

HP Driver Packs<sup>24</sup>

**HP System Software Manager (SSM)** 

**HP BIOS Config Utility (BCU)** 

**HP Client Catalog** 

HP Manageability Integration Kit Gen3<sup>25</sup>

HP Cloud Recovery<sup>26</sup>

#### **Client Security Software**

HP Client Security Manager Gen5<sup>27</sup>

HP Fingerprint Sensor<sup>28</sup>

**HP Power On Authentication** 

Windows Defender<sup>29</sup>

#### **Security Management**

**Pre-boot Authentication** 

TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified)<sup>30</sup>

SATA 0,1 port disablement (via BIOS)

USB enable/disable (via BIOS)

Power-on password (via BIOS)

Setup password (via BIOS)



#### **Features**

Support for chassis padlocks and cable lock devices

HP Sure Click<sup>31</sup>

HP Sure Start For AMD32

Sure Run Gen2<sup>33</sup>

Sure Recover Gen234

Sure Sense<sup>35</sup>

#### Security

#### **TPM**

Model: Infineon SLB9670

Version: 7.85 Revision: TPM 2.0

FIPS 140-2 Compliant: Yes (select models only)

#### **Smartcard Reader**

Model number: Alcor AU9560 FIPS 201 Compliant: Yes

#### **IPv6 Certification:**

Yes/No

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

18. 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.

19. HP Drive Lock & Automatic Drive Lock is not supported on NVMe drives

20. 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™.

21. 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: <a href="http://www.absolute.com/company/legal/agreements/">http://www.absolute.com/company/legal/agreements/</a> 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.

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



#### **Features**

- 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://www.hp.com/go/clientmanagement.
- 26. 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
- 27. HP Client Security Manager Gen5 requires Windows and is available on the select HP Pro and Elite PCs. See product specifications for details.
- 28. HP Fingerprint Sensor sold separately or as an optional feature.
- 29. Windows Defender Opt in and internet connection required for updates.
- 30. Firmware TPM is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).re TPM is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).
- 31. HP Sure Click is available on most HP PCs and supports Microsoft® Internet Explorer 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.
- 32. HP Sure Start for AMD is available on select HP PCs with AMD processors. See product specifications for availability.
- 33. HP Sure Run Gen2: See product specifications for availability.
- 34. 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™. 35. HP Sure Sense requires Windows 10. See product specifications for availability.



#### **Features**

#### **POWER**

#### **Power Supply**

HP Smart 45 W External AC power adapter<sup>36</sup>
HP Smart 45 W External AC power adapter, 2-prong (Japan only)<sup>36</sup>
HP Smart 65 W External AC power adapter<sup>36</sup>
HP Smart 65 W EM External AC power adapter<sup>36</sup>
45 W USB Type-C<sup>™</sup> adapter<sup>36</sup>
65 W USB Type-C<sup>™</sup> adapter<sup>36</sup>

#### **Primary Battery**

HP Long Life 3-cell, 50 Wh Li-ion<sup>37, 38</sup> Support HP Fast Charge (Up to 50% in 30 minutes with 65W AC Adapter)<sup>37, 38</sup>

#### **Battery Life**

Battery Life up to 15 hours and 15 minutes (2<sup>nd</sup> Gen AMD® Ryzen™ PRO APU processor, 13.3" 400 nits panel and 3-cell 50WHr battery)<sup>39</sup>

#### **Power Cord**

2-wire plug - 1.0m<sup>36</sup>
3-wire plug - 1.0m<sup>36</sup>
3-wire plug - 1.8m<sup>36</sup>
Duckhead power cord - 1.0m<sup>36</sup>
Duckhead power cord - 1.8m<sup>36</sup>

- 36. Availability may vary by country.
- 37. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 38. 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.
- 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 <a href="http://www.bapco.com">http://www.bapco.com</a> for additional details.

#### **WEIGHTS & DIMENSIONS**

#### Weight

Starting at 2.94 lb (non-touch); Starting at 3.18 lb (touch)<sup>40</sup> Starting at 1.33 kg (non-touch); Starting at 1.44 kg (touch)<sup>40</sup>

#### 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 1.79 cm

40. Weight will vary by configuration.



#### **Features**

#### **PORTS/SLOTS**

#### **Ports**

1 USB Type-C<sup>™</sup> (Alt Mode) 2 USB 3.1 Gen 1 (1 charging)

1 HDMI 2.041

1 RJ-45 / Ethernet

1 Docking connector

1 Headphone/microphone combo

1 AC power

1 SIM card slot<sup>42</sup>

1 Smartcard reader<sup>42</sup>

41. HDMI cable sold separately.

42. Sold separately or as an optional feature.

#### **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.<sup>43</sup>

43. 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 <a href="http://www.hp.com/go/cpc">http://www.hp.com/go/cpc</a>. 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 Nominal Operating Voltage 19V
Requirements (AC Power) Average Operating Power Win 10

Integrated Graphics AMD has no this data (APU is 15 W)

Max Operating Power UMA <45 W

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

**Non-operating**  $-4^{\circ}$  to  $140^{\circ}$  F ( $-20^{\circ}$  to  $60^{\circ}$  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 Certifications

CSA

UL Yes
CSA Yes
FCC Compliance Yes

**ENERGY STAR**° Yes, Select models<sup>44</sup> **EPEAT**° **2019** Yes, Silver in U.S.<sup>45</sup>

Australia / Yes

**NZ A-Tick Compliance** 

CCC Yes
Japan VCCI Compliance Yes
KC Yes
BSMI Yes
CE Marking Compliance Yes
GOST Yes
Saudi Arabian Compliance Yes

(ICCP)

**UKRSERTCOMPUTER** Yes

44. Configurations of the HP Elitebook 735 G6 that are ENERGY STAR® certified are identified as HP Elitebook 735 G6 ENERGY STAR on HP websites and on http://www.energystar.gov.

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



### **Technical Specifications**

#### **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 NWBZ Outline Dimensions (W x H) 300.56 x 187.77 mm (max) (w/ PCB & w/o bracket)

**Active Area** 293.76 x 165.24 mm (typ.)

Weight 260 g (max)

Diagonal Size 13.3 inch

Thickness 3.0 mm (max)

Interface eDP 1.2 (2 lane)

Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio 600:1 (typ.)
Refresh Rate 60 Hz

**Brightness** 250 nits (typ.) **Pixel Resolution** 1920 x 1080 (FHD)

Format of LCD Pixel RGB

Arrangement

BacklightLEDColor Gamut Coverage45% NTSCColor Depth6 bits

Viewing Angle UWVA 85/85/85

Panel LCD 13.3 inch diagonal FHD (1920 x 1080) Anti-Glare WLED UWVA 45 percent cg 250 nits eDP slim Touch on Panel Narrow Bezel **Outline Dimensions (W x H)** 300.56 x 187.77

**Active Area** 293.76 x 165.24 mm (typ.)

Weight 268 g (max)

Diagonal Size 13.3 inch

Thickness 3.2mm (max)
Interface eDP 1.2

Surface Treatment Anti-Glare On-cell

**Touch Enabled** Yes

Contrast Ratio600:1 (typ.)Refresh Rate60 HzBrightness250 nits

Pixel Resolution 1920 x 1080 (FHD)

Format of LCD Pixel RGB

Arrangement

BacklightLEDColor Gamut Coverage45% NTSCColor Depth6 bits

Viewing Angle UWVA 85/85/85



Panel LCD 13.3 inch diagonal FHD (1920 x 1080) Anti-Glare WLED UWVA 72 percent cg 400 nits eDP 1.4+PSR2 Ultraslim Narrow Bezel Outline Dimensions (W x H) 299.06 x 185.54 mm (max)
Active Area 293.76 x 165.24 mm (typ.)

Weight 170 g (max)

Diagonal Size 13 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 of LCD Pixel RGB

Arrangement

BacklightLEDColor Gamut Coverage72% NTSCColor Depth8 bits

Viewing Angle UWVA 85/85/85

Panel LCD 13.3 inch FHD (1920 x 1080) Anti-Glare WLED UWVA 72percent cg 1000nits eDP 1.4+PSR2 flat Privacy NWBZ\* **Outline Dimensions (W x H)** 299.06 x 186.54 mm (max) **Active Area** 293.76 x 165.24 mm (typ.)

Weight 255 g (max)
Diagonal Size 13.3 inch
Thickness 3.0 mm (max)

Interface eDP 1.4 + PSR2 (4 lane)

Bright-View (BV)

Touch Enabled No

**Surface Treatment** 

Contrast Ratio 2000:1 (typ.)

**Refresh Rate** 60 Hz **Brightness** 1000 nits

Pixel Resolution 1920 x 1080 (FHD)

Format of LCD Pixel RGB

Arrangement

Backlight LED

Color Gamut Coverage 72% NTSC

Color Depth 8 bits

Viewing Angle UWVA 85/85/85

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



<sup>\*</sup>Available in 03'19

### **Technical Specifications**

#### **STORAGE**

**SSD 128 GB 2280 M2 SATA-3 TLC Form Factor** M.2 2280

Capacity 128 GB NAND Type TLC

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Weight
 0.02 lb (10 g)

 Interface
 ATA-8, SATA 3.0

Maximum Sequential Read Around 540 ~ 560 MB/s
Maximum Sequential Write Around 380 ~ 530 MB/s

**Logical Blocks** 250069680

**Operating Temperature** 32° to 158°F (0° to 70°C) [ambient temp] **Features** ATA Security; DIPM; TRIM; DEVSLP

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

Form Factor 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 (10 g)

 Interface
 PCIe NVMe Gen3X4

Maximum Sequential Read Around 3200 ~ 3480 MB/s
Maximum Sequential Write Around 2400 ~ 3037 MB/s

**Logical Blocks** 2000409264

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

**Features** ATA Security; TRIM; L1.2

SSD 256 GB 2280 M2 PCIe-3x4 SS Form Factor NVMe TLC

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 (10 g)

 Interface
 PCIe NVMe Gen3X4

Maximum Sequential Read Around 2900 ~ 3167 MB/s
Maximum Sequential Write Around 1300 ~ 1663 MB/s

**Logical Blocks** 500118192

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



### **Technical Specifications**

Features ATA Security; TRIM; L1.2

SSD 256 GB 2280 M2 SATA-3 Self Form Factor Encrypted OPAL2 Three Layer Capacity

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 (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** 500118192

**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

Value

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 (10 g)

 Interface
 PCIe NVMe Gen3X4

Maximum Sequential Read Around 1500 ~ 1700 MB/s
Maximum Sequential Write Around 780 ~ 1300 MB/s

**Logical Blocks** 500118192

**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 Form Factor M.2 2280 NVMe TLC Capacity 512 GB

**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



### **Technical Specifications**

**Logical Blocks** 1000215215

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

Features ATA Security; TRIM; L1.2

SSD 512 GB 2280 PCIe NVMe

Value

Form Factor M.2 2280
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** 1000215215

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

**Features** ATA Security; TRIM; L1.2

SSD 512 GB 2280 PCIe-3x4 NVMe Form Factor Self Encrypted OPAL2 Three Capacity

Layer Cell

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 (10 g)

 Interface
 PCIe NVMe Gen3X4

Maximum Sequential Read Around 2900 ~ 3400 MB/s
Maximum Sequential Write Around 1000 ~ 2500 MB/s

Logical Blocks 1000215216

**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® 9260 802.11a/b/g/n/ac (2 x 2) Wi-Fi® and Bluetooth® 5.0 Combo<sup>1</sup> Non-vPro

Wireless LAN Standards

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

Wi-Fi® certified Interoperability **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)

•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<sup>3</sup> •IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only

•AES-CCMP: 128 bit in hardware

802.1x authentication

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

 WPA2 certification •IEEE 802.11i •WAPI

**Network Architecture** Ad-hoc (Peer to Peer)

Models

Infrastructure (Access Point Required)

Roaming

IEEE 802.11 compliant roaming between access points

Output Power<sup>2</sup> • 802.11b: +18.5dBm minimum

• 802.11q: +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

### **Technical Specifications**

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 10mW

Radio disabled 8 mW

**Power Management** ACPI compliant power management

802.11 compliant power saving mode

**Receiver Sensitivity**<sup>4</sup> 802.11b, 1Mbps: -93.5dBm maximum

802.11b, 11Mbps: -84dBm maximum 802.11a/g, 6Mbps: -86dBm maximum 802.11a/g, 54Mbps: -72dBm maximum 802.11n, MCS07: -67dBm maximum 802.11n, MCS15: -64dBm maximum 802.11ac, MCS0: -84dBm maximum 802.11ac, MCS9: -59dBm maximum

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

enclosure

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

Form Factor PCI-Express M.2 MiniCard

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

2. Type 1216: 1.67 x 12.0 x 16.0 mm

**Weight** 1. Type 2230: 2.8g

2. Type 126: 1.3g

Operating Voltage 3.3v +/- 9%

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

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

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

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

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

**Non-operating** 0 to 50,000 ft (15,240 m)

**LED Activity LED Amber** – Radio OFF

LED OFF — Radio ON

#### HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0 Wireless Technology

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

Frequency Band 2402 to 2480 MHz

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



### **Technical Specifications**

Signaling Data Rate Legacy: 3 Mbps signaling data rate<sup>1</sup> 2.17 Mbps

BLE: 1 Mbps signaling data rate<sup>1</sup> 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

USB 2.0 compliant

Selective Suspend 17 mW

**Electrical Interface** 

**Bluetooth Software** 

Supported

Microsoft Windows Bluetooth Software

**Power Management** 

Certifications

Microsoft Windows ACPI, and USB Bus Support 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 Laver

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 is required. Availability of public wireless access point is limited.
- 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**

Wi-Fi® and Bluetooth®

4.2 Combo<sup>1</sup>

802.11a/b/g/n/ac (2 x 2) Wireless LAN Standards IEEE 802.11a

> IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac

Wi-Fi® certified Interoperability **Frequency Band** 802.11b/q/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, and 80MHz)

Modulation Direct Sequence Spread Spectrum

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

Security<sup>3</sup> •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 certification •IEEE 802.11i •WAPI

**Network Architecture** 

Models

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

**Output Power<sup>2</sup>** • 802.11b: +14dBm minimum

• 802.11g: +12dBm minimum • 802.11a: +12dBm minimum

 802.11n HT20(2.4GHz): +12dBm minimum • 802.11n HT40(2.4GHz): +12dBm minimum 802.11n HT20(5GHz): +10dBm minimum 802.11n HT40(5GHz): +10dBm minimum 802.11ac VHT80(5GHz): +10dBm minimum

**Power Consumption** Transmit mode 2.0 W

Receive mode 1.6 W

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



### **Technical Specifications**

Connected Standby 10mW

· Radio disabled 8 mW

Power Management ACPI and PCI Express compliant power management 802.11 compliant

power saving mode

**Receiver Sensitivity<sup>3</sup>** 802.11b, 1Mbps: -93.5dBm maximum

802.11b, 11Mbps: -84dBm maximum 802.11a/g, 6Mbps: -86dBm maximum 802.11a/g, 54Mbps: -72dBm maximum 802.11n, MCS07: -67dBm maximum 802.11n, MCS15: -64dBm maximum 802.11ac, MCS0: -84dBm maximum 802.11ac, MCS9: -59dBm maximum

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

enclosure

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

Form Factor PCI-Express M.2 MiniCard

**Dimensions** Type 2230: 2.3 x 22.0 x 30.0 mm

 Weight
 Type 2230: 2.8g

 Operating Voltage
 3.3v +/- 9%

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

**Non-operating**  $-40^{\circ}$  to  $176^{\circ}$  F ( $-40^{\circ}$  to  $80^{\circ}$  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 Wireless Technology

**Bluetooth Specification** 4.0/4.1/4.2 Compliant **Frequency Band** 2402 to 2480 MHz

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

**Signaling Data Rate** Legacy: 3 Mbps signaling data rate<sup>1</sup> 2.17 Mbps

BLE: 1 Mbps signaling data rate<sup>1</sup> 0.2 Mbps

1. Actual throughput may vary.

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

channels



### **Technical Specifications**

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

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

Train Nudging & Interlaced Scan

LE L2CAP Connection Oriented Channels

BT4.2 ESR08 Compliance

LE Cocure Connection Bac

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 is required. Availability of public wireless access point is limited.
- 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**

BT5 (802.11ax 2 x 2. nonvPro, supporting gigabit file transfer speeds) non-vPro

Intel® Wi-Fi® 65 AX200 + Wireless LAN Standards

IEEE 802.11a IEEE 802.11b

IEEE 802.11a 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

Security<sup>3</sup> •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 certification •IEEE 802.11i

•WAPI

**Network Architecture** 

Ad-hoc (Peer to Peer)

Models Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

Output Power<sup>2</sup> • 802.11b: +18.5dBm minimum

• 802.11g: +17.5dBm minimum 802.11a: +18.5dBm minimum

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



### **Technical Specifications**

• 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

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

Power Consumption • Transmit mode 2.0 W

• Receive mode 1.6 W

• Idle mode (PSP) 180 mW (WLAN Associated)

• Idle mode 50 mW (WLAN unassociated)

Connected Standby 10mW

• Radio disabled 8 mW

Power Management ACPI and PCI Express compliant power management 802.11 compliant

power saving mode

**Receiver Sensitivity**<sup>3</sup> •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

2. Type 1216: 1.67 x 12.0 x 16.0 mm

**Weight** 1. Type 2230: 2.8g

2. Type 126: 1.3g

**Operating Voltage** 3.3v +/- 9%

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

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

HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0/5.1 Wireless Technology



### **Technical Specifications**

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

Frequency Band 2402 to 2480 MHz

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

**Signaling Data Rate** Legacy: 3 Mbps signaling data rate<sup>1</sup> 2.17 Mbps

BLE: 1 Mbps signaling data rate<sup>1</sup> 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

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)

1. Wireless access point and Internet service is required. Availability of public wireless access point is limited.

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.



### **Technical Specifications**

- 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/q (OFDM modulation).
- 5. 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. Feature available in Q3'19.

Intel® XMM™ 7360 LTE-Advanced CAT9<sup>1</sup>

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)

LTE: 23 dBm Maximum output power

HSPA+: 23.5 dBm

LTE: 1,200 mA (peak); 900 mA (average) Maximum power consumption 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

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. WWAN is an optional feature, requires factory configuration and separately purchased service contract. Check with service provider for coverage and availability in your area. 4G LTE not available on all products, in all regions.



### **Technical Specifications**

Near Field Communications Controller (optional) **Dimensions (L x W x H)** Module 25 mm by 10 mm by 2.0 mm

Chipset NPC300

**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(1)

ISO/IEC 14443 A

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

MIFARE DESFire

FeliCa

Jewel and Topaz cards

Card Emulation ISO/IEC 14443 A (PICC-VICC) Mode(1) ISO/IEC 14443 B a

ISO/IEC 14443 B and B'
MIFARE

FeliCa

Frequency 13.56 MHz

Storage temperature

NFC Modes Supported Reader/Writer, Peer-to-Peer Raw RF Data Rates 106, 212, 424, 848 kbps

Operating temperature 0°C to 70°C

**Humidity** 10-90% operating

5-95% non-operating

-20°C to 125°C

**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) Mode Power Consumption, Typical

Polling 710.93 mW

Detected Test Tag Type 1 152.09 mW

Detected Test Tag Type 2 341.26 mW

Detected Test Tag Type 3 383.76 mW

Detected Test Tag Type 4 312.26 mW

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

external to module.

### **Technical Specifications**

Realtek RTK8111EPH 10/100/1000 Integrated NIC **Connector** RJ-45

System Interface PCIe + SMBus

**Data rates supported** 10 Mbit/s operation (10BASE-T; IEEE 802.3; 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** ACPI compliant – multiple power modes

**Management** 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** RTK DASH support with appropriate RTK chipset components

### **Technical Specifications**

#### **POWER**

AC Adapter 45 Watt nPFC Wall Mount USB type C Straight 1.8 m C6NS

Dimensions Weight Input

Output

62.0 x 62.0 x 28.5 mm unit: 220 g +/- 10 g 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%

47 ~ 63 Hz

Input frequency range

Input AC current Max. 1.4 A at 90 Vac

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%

Hold-up time 9V: 86.7%

Output current limit 10V: 87.5%

**Connector** Non-Standard C6

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%

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

 Dimensions
 95.0 x 40.0 x 26.5 mm

 Weight
 unit: 200 g +/- 10 g

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

**Input frequency range** 47 ~ 63Hz

Input AC current Max. 1.4 A at 90 Vac

 Output
 Output power
 45 W

 DC output
 19.5 V

**Hold-up time** 5ms at 115 Vac input

Output current limit <8.0A

**Connector** C6

**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%

CE Mark - full compliance with LVD and EMC directives **Safety Certifications** 

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

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

MTBF - over 200.000 hours at 25°C ambient condition.

**AC Adapter 45 Watt Smart nPFC Standard** Barrel 4.5 mm Right Angle 1.8 m 2prong

Dimensions 95.0 x 40.0 x 26.5 mm Weight unit: 200 q +/- 10 q

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 45W **Output power** 

**DC** output 19.5V

Hold-up time 5ms at 115 Vac input

Output current limit <8.0A

Connector **C8** 

**Environmental Design** Operating temperature 32° to 95° F (0° to 35° C) -4° to 185° F (-20° to 85° C)

Non-operating (storage) temperature

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

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

**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 Dimensions USB type C Straight 1.8 m Weight C6NS

74 x 74 x 28.5 mm unit: 245 g +/- 10 g

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 ~ 63 Hz

**Input AC current** 1.7 A at 90 VAC and maximum load

Output 65W **Output power** 

> 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) -4°F to 185°F (-20° to 85°C)

temperature

**Altitude** 

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

**Humidity** 5% to 95% **Storage Humidity** 5% to 95%

**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 4.5 mm New EM

**Dimensions** 102 x 55 x 30 mm

Weight unit: 250 q +/- 10 q

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

> Input frequency range 47 ~ 63 Hz

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

**Output** 65W **Output power** 

> DC output 19.5V

Hold-up time 5ms at 115 Vac input

Output current limit <11.0A

Connector

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

**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 **Smart nPFC Standard** Barrel 4.5 mm Right Angle 1.8 m

**Dimensions** 90.0 x 51 x 28.5 mm Weight unit: 230 g +/- 10 g

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

**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** 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 SS 3 Cell 50 WHr Long Life -PL **Dimensions** L 278.7 mm x W 76.3 mm x H 7.1 mm

**Weight** 193 g +/- 10 g

Cells/Type 3cell Lithium-Ion Polymer cell / P604883A1

Voltage 11.55 V

**Energy** Amp-hour capacity 4.113 Ah/ 4.330 Ah

Watt-hour capacity 50 Wh

Temperature Operating (Charging) 0° to 50° C Operating (Discharging) -10° to 60° C

Warranty Based 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 #
Cases	HP Essential Top Load Case (up to 15.6")	H2W17AA
	HP Slim Ultrabook Top Load	F3W15AA
	HP Basic/Essential Backpack	H1D24AA
	HP Exec Midnight 15.6" Backpack	1KM16AA
Docking	HP UltraSlim Docking Station	D9Y32AA
	HP Thunderbolt Dock 120W G2	2UK37AA
	HP TB Dock Audio Module	3AQ21AA
	HP TB Dock 120W G2 cable	3XB94AA
	HP TB Dock G2 combo cable	3XB96AA
	HP USB-C Dock G4	3FF69AA
	HP USB-C Mini Dock	1PM64AA
	HP USB Travel Dock	TOK30AA
	HP USB-C Universal Dock	1MK33AA
	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
	HP USB-C/A Universal Dock G2	5TW13AA
	HP Adjustable Dual Display Stand	AW664AA
	HP Display and Notebook Stand II	E8G00AA
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 Conferencing Keyboard	K8P74AA
	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 Slim Bluetooth Mouse to AMO	F3J92AA
	HP Wireless Premium Mouse	1JR31AA
	HP USB Premium Mouse	1JR32AA
	HP Essential USB Mouse	2TX37AA
	HP Elite Presenter Mouse	2CE30AA
	HP Stereo 3.5mm Headset	T1A66AA
	HP Stereo USB Headset	T1A67AA
	HP UC Wireless Mono Headset	W3K08AA
	HP UC Wireless Duo Headset	W3K09AA

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

	UDITED Cto IICD 2 O Adaptor	N2Z63AAA
	HP USB-C to USB 3.0 Adapter HP USB-C to USB-A Hub	Z6A00AA
	HP USB-C to DP	N9K78AA
	HP USB-C to VGA	N9K76AA
	HP HDMI to DVI	F5A28AA
	HP HDMI to VGA	H4F02AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	חור טטט-כ נט ווטויוו ב.ט אנומףנפו	IWCJUAN
Power	HP 65W Slim AC Adapter	H6Y82AA
	HP 90W Slim AC Adapter	H6Y83AA
	HP 90W Slim Combo AC Adapter w/ USB	H6Y84AA
	HP 45W Smart AC Adapter	H6Y88AA
	HP 65W Smart AC Adapter	H6Y89AA
	HP 90W Smart AC Adapter	H6Y90AA
	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
	65W USB-C Slim Power Adapter	3PN48AA
	HP Notebook Power Bank	N9F71AA
	HP USB-C Notebook Power Bank	1TZ86AA
Memory	HP 4GB 2400MHz DDR4 Memory	Z4Y84AA
•	HP 8GB 2400MHz DDR4 Memory	Z4Y85AA
	HP 16GB 2400MHz DDR4 Memory	Z4Y86AA
Storage	HP USB External DVDRW Drive	F2B56AA
-	HP 256GB M2 PCIe NVME SSD TLC (2280)	1FU87AA
	HP 512GB M2 PCIe NVME SSD TLC 2280)	1FU88AA
Security	HP Docking Station Cable Lock	AU656AA
	HP Essential Combination Lock	TOY16AA
	HP Combination Lock	TOY15AA
	HP Keyed Cable lock	TOY14AA
	HP Keyed Cable Lock 10mm	T1A62AA
	HP Dual Head Keyed Cable Lock	T1A64AA

### **Summary of Changes**

#### **Change Log**

Date of change:	Version History:		Description of change:
June 25, 2019	V1 to V2	Updated	Color Gamut
June 27, 2019	V2 to V3	Updated	Battery Life and Display Section

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