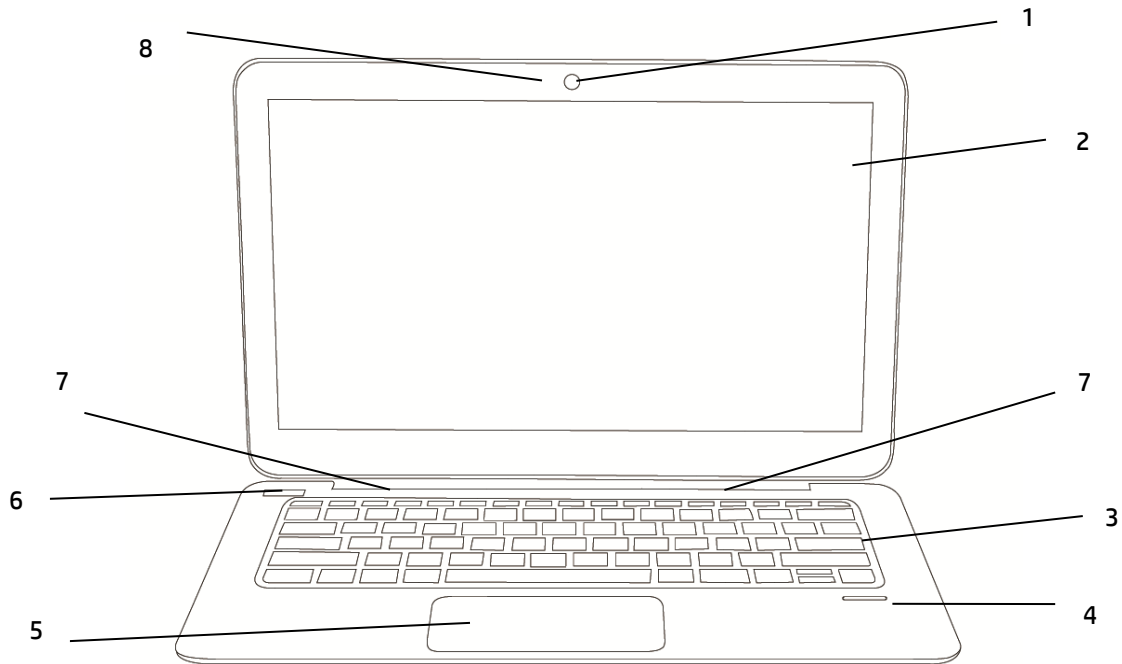


### Overview

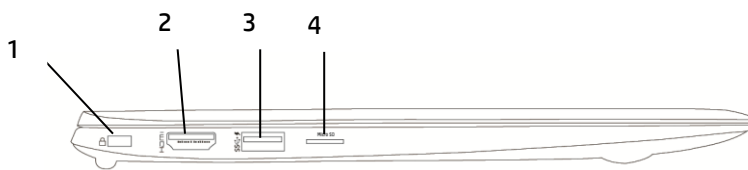
### HP EliteBook Folio 1020 Bang & Olufsen Limited Edition



Front

- 1. 720p HD webcam
- 2. 12.5" QHD diagonal display
- 3. Keyboard
- 4. Fingerprint reader
- 5. ForcePad™

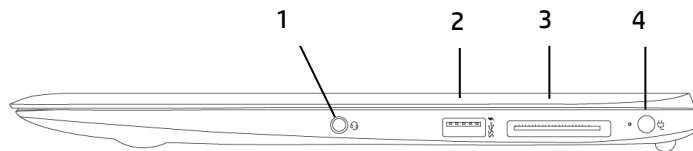
- 6. Power button
- 7. Speakers
- 8. Webcam LED



Side

- 1. Lock slot
- 2. HDMI port

- 3. USB charging port
- 4. Micro SD Media Reader Slot

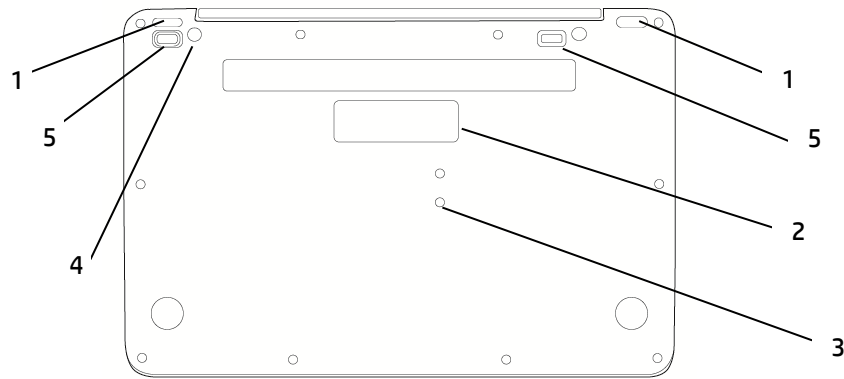


Side

- 1. Headphone/microphone combo
- 2. USB charging port

- 3. Side docking connector
- 4. Power connector

### Overview



Bottom

- |                                    |                              |
|------------------------------------|------------------------------|
| 1. Rubber anti-skid feet           | 4. Docking station guides    |
| 2. Service tag                     | 5. Docking station lock slot |
| 3. Spill resistant keyboard drains |                              |

### At A Glance

- Audio by Bang & Olufsen , 720p HD webcam for videoconferencing and still image capture, HP Noise Reduction Software for clean videoconferencing
- Weight starting at 2.72 lb/1.2 kg and height of 15.7mm; crafted from CnC aluminum
- Diamond cut with dual anodization
- Windows 10 Pro
- Enhanced security features including HP Sure Start, HP Client Security and HP Fingerprint Reader
- Enhanced durability through MIL-SPEC 810G testing, plus an additional 115,000 hours of reliability testing through HP's Total Test Process
- Fan-less, all solid state design, and choice of latest Intel® Core-M Processors with integrated Intel® HD Graphics
- 512 GB Solid State Drive
- New HP Premium Keyboard for enhanced user typing experience; also full size, backlit and spill-resistant with drain
- Suite of optional accessories including docking stations, displays, mice and carrying cases
- 12.5" diagonal QHD (2560 x 1440) Touch Screen
- 8 GB of memory (soldered down)
- HP 4-Cell (40 Whr) Long Life battery for battery life up to 10 hours
- ForcePad™ pressure-sensing Touchpad responds to a tap or a light pressure to support and enhance both basic and advanced touch gestures
- 802.11ac wireless connectivity
- Meets military standards 810G testing\* for drop, vibration, functional shock, dust, altitude, and high and low temperature, sand, explosive atmosphere, and freeze/thaw\*.

\* Testing was not intended to demonstrate fitness for Department of Defense contracts requirements or for military use. Test results are not a guarantee of future performance under these test conditions.

### Overview

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

### Features

## PRODUCT NAME

HP EliteBook Folio 1020 Bang & Olufsen Limited Edition<sup>1</sup>

## OPERATING SYSTEM

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

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.microsoft.com>

## PROCESSOR

Intel® Core™ M-5Y71 1.2 GHz (max turbo frequency 2.9 GHz), 4 MB L3 Cache, 4.5W<sup>1</sup>

1. Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. 64-bit computing system required. Performance will vary depending on your hardware and software configurations. Intel's numbering is not a measurement of higher performance.

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

## CHIPSET

Integrated with processor

## GRAPHICS

Integrated:  
Intel® HD<sup>1</sup> Graphics 5300

1. HD content required to view HD images.

## DISPLAY

### Internal

### Touch

12.5" diagonal eDP, UltraSlim, QHD UWVA (2560x1440) 340nts

### DisplayPort

Supported Resolutions

2560 x 1440

1920 x 1200

1920 x 1080

1600 x 1200

1600 x 900

1366 x 768

1280 x 1024

1024 x 768

### Features

**Number of Displays supported**

3 with the optional<sup>1</sup> HP Ultralim Docking Station or the DP hub.

1. Sold separately as an optional feature.

**NOTE:** Resolutions are dependent upon monitor capability, and resolution and color depth settings.

### STORAGE AND DRIVES

**Primary Storage Bay  
Solid State Drive<sup>1</sup>**

512 GB SATA III

1. For solid state drives (SSD), 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.

**NOTE:** Internal component upgrades to memory are not available after factory configuration.

### MEMORY

**Standard**

LPDDR3L SDRAM 1600 (Transfer rates up to 1600 MT/s)  
Supports Dual Channel Memory

**Standard memory**

8 GB soldered down

**NOTE:** Internal component upgrades to memory are not available after factory configuration.

### NETWORKING/COMMUNICATIONS

**Wireless**

Support for WLAN featuring support for the latest industry standards.  
Wireless LAN and integrated Bluetooth are also available both are factory configurable only.

**WLAN**

Intel® 802.11 (2x2) AC with Bluetooth® v4.0 Combo<sup>1</sup>

1. Wireless access point and Internet service is required and is not included. Availability of public wireless access points limited.

### AUDIO/MULTIMEDIA

**Audio**

Audio by Bang & Olufsen  
Two integrated stereo speakers  
Integrated dual- array microphone

**Webcam<sup>1</sup>**

720p HD<sup>2</sup> webcam

### Features

- HD format (widescreen)
  - Supports videoconferencing and still image capture
  - High quality fixed focus lens
  - Video capture at various resolutions up to 1280x720 resolution
  - M-JPEG compression supports higher frame rates for video capture and videoconferencing
  - Improved low light sensitivity
  - Improved dynamic range
1. [Wireless access point and Internet service is required and is not included. Availability of public wireless access points limited.](#)
  2. [HD content required to view HD images.](#)

## KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

### Keyboard

Spill-resistant with drain

Backlit

DuraKeys

Function Keys provide easy access to the following features:

F1 - Blank

F2 - Forcepad on/off

F3 - Sleep

F4 - Display Switching

F5 - Mute

F6 - Volume Down

F7 - Volume Up

F8 - Mic Mute

F9 - Brightness Down

F10 - Brightness Up

F11 - Backlight Toggle

F12 - Wireless On/Off

### ForcePad™

A pressure-sensing ForcePad™ that eliminates the need for repetitive motion and makes navigation easier

ForcePad™

Glass with chemical etched surface

Taps enabled as default

Gestures enabled by default - 2 Finger Scrolling, 2 Finger Zoom (Pinch)

## SOFTWARE AND SECURITY

### Preinstalled Software

#### Security

HP BIOSphere<sup>1</sup>

HP Sure Start

HP DriveLock | HP Automatic Drive Lock

HP BIOS Protection<sup>2</sup>

BIOS Update via Network

Master Boot Record Security

Power On Authentication

Pre-Boot Security

Secure Erase<sup>3</sup>

Absolute Persistence Module<sup>4</sup>

### Features

#### **HP Client Security Software Suite**

HP Client Security Manager  
HP Drive Encryption<sup>5</sup>

#### **MultiMedia**

Cyberlink Power DVD, BD  
Cyberlink YouCam BE

#### **Communication**

Intel® Wireless Pro Display (WiDi) Software for Windows<sup>6</sup>  
Skype for Business optimized

#### **HP Value Add Software**

HP ePrint Driver (HP Exclusive)<sup>7</sup>  
HP Hotkey Support  
HP Support Assistant

#### **Manageability**

HP Driver Packs<sup>8</sup>  
HP SoftPaq Download Manager (SDM)  
HP System Software Manager (SSM)<sup>8</sup>  
HP BIOS Config Utility (BCU)<sup>8</sup>  
HP Client Catalog<sup>8</sup>  
HP CIK for Microsoft SCCM<sup>8</sup>  
LANDESK Management<sup>9</sup>  
Discover HP Touchpoint Manager – Metro (Lighthouse)

#### **3<sup>rd</sup> Party**

Foxit PhantomPDF Express for HP  
HP Caller Dashboard  
Adobe® Flash Player (Commercial)  
Bing Search  
Buy Office

#### **Security**

TPM Embedded Security Chip 1.2  
Security lock slot (Lock sold separately.)  
Fingerprint Reader

1. Available only on business PCs with HP BIOS.
2. May require a manual recovery step if all copies of BIOS are compromised or deleted
3. For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.
4. BIOS Absolute Persistence module is shipped turned off, and will be activated when customers purchase and activate a subscription. Service may be limited. Check with Absolute for availability outside the U.S. The optional subscription service of Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: <http://www.absolute.com/company/legal/agreements/computrace-agreement>. If Data Delete is utilized, the Recovery Guarantee payment is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either create a PIN or purchase one or more RSA SecurID tokens from Absolute Software.

### Features

5. Data is protected prior to Drive Encryption login. Turning the PC off or into hibernate logs out of Drive Encryption and prevents data access. Requires Windows.
6. Integrated Intel Wi-Di feature is available on select configurations only and requires separately purchased projector, TV or computer monitor with an integrated or external Wi-Di receiver. External Wi-Di receivers connect to the projector, TV or computer monitor via a standard HDMI cable, also sold separately.
7. Requires an Internet connection to HP web-enabled printer and HP ePrint account registration (for a list of eligible printers, supported documents and image types and other HP ePrint details, see [www.hp.com/go/businessmobileprinting](http://www.hp.com/go/businessmobileprinting)).
8. Not preinstalled, however available on manageability website.
9. LANDesk is an optional feature sold separately. Managed devices must be connected to the management server. Location based functionality requires active LANDesk maintenance service. Wipe functionality performs a "Windows 8 Reset" and requires Windows 8. Lock performs a Windows "Lock Computer."
10. Not offered in China.

### POWER

#### Power Supply

45W Smart AC Adapter  
45W AC Adapter 2 prong (Japan only)  
65W Smart EM AC Adapter  
65W Slim Smart AC Adapter  
Power cord included is 3.2 ft / 1 m long  
Optional Power cord 1.8m long (Sold separately.)

#### Primary Battery

HP 4-Cell (40 Whr) Long Life Polymer

#### Battery Life

Up to 10 hours

#### System Standby Time

TBD

#### Power Conservation

Hibernation  
Standby  
ACPI compliance

### WEIGHTS & DIMENSIONS

#### Weight

Starting at 2.72 lbs/1.2 kg  
Weight varies by configuration and components.

#### Dimensions (w x d x h)

310 x 210 x 15.7 mm  
12.2 x 8.27 x .62 in

### PORTS/SLOTS





### Features

#### Ports

(2) USB 3.0 Charging ports

HDMI port

Docking connector

Headphone/microphone combo

4.5mm Multi-Pin AC Port

#### Digital Media Slots

Micro SD Media Reader Slot

Supports SD, SDHC, SDXC

## SERVICE AND SUPPORT

Services offers a limited 1-year warranty. 1-year limited warranty on primary battery. On-site service and optional extended service contracts are also available. Optional<sup>1</sup> HP Services<sup>2</sup> are extended service contracts which go beyond your standard limited warranties. For more details visit: <http://www.hp.com/go/lookuptool>.

1. Sold separately or as an optional feature.
2. 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. 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. 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>.

### Technical Specifications

#### SYSTEM UNIT

TBD

#### Intel® 802.11 (2x2) AC with Bluetooth® v4.0 Combo

<b>Wireless LAN Standards</b>	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac
<b>Interoperability</b>	Wi-Fi certified
<b>Frequency Band</b>	802.11b/g/n <ul style="list-style-type: none"> <li>● 2.402 – 2.482 GHz</li> </ul> <p>Note: The FCC has declared as of January 1, 2015 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.</p>
	802.11a <ul style="list-style-type: none"> <li>● 4.9 – 4.95 GHz (Japan)</li> <li>● 5.15 – 5.25 GHz</li> <li>● 5.25 – 5.35 GHz</li> <li>● 5.47 – 5.725 GHz</li> <li>● 5.825 – 5.850 GHz</li> </ul> <p>Note: Indonesia only supports 5.725 - 5.825 GHz (CH149 - CH161)</p>
<b>Data Rates</b>	<ul style="list-style-type: none"> <li>● 802.11b: 1, 2, 5.5, 11 Mbps</li> <li>● 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>● 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>● 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)</li> <li>● 802.11ac : MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, and 80MHz)</li> </ul>
<b>Modulation</b>	Direct Sequence Spread Spectrum
<b>Security<sup>1</sup></b>	BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM <ul style="list-style-type: none"> <li>● IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only</li> <li>● AES-CCMP: 128 bit in hardware</li> <li>● 802.1x authentication</li> <li>● WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.</li> <li>● WPA2 certification</li> <li>● IEEE 802.11i</li> <li>● Cisco Certified Extensions, all versions through CCX4 and CCX Lite</li> <li>● WAPI</li> </ul>
<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)

### Technical Specifications

<b>Roaming Output Power<sup>2</sup></b>	<p>IEEE 802.11 compliant roaming between access points</p> <ul style="list-style-type: none"> <li>● 802.11b : +16dBm minimum</li> <li>● 802.11g : +14dBm minimum</li> <li>● 802.11a : +14dBm minimum</li> <li>● 802.11n HT20(2.4GHz) : +13dBm minimum</li> <li>● 802.11n HT40(2.4GHz) : +13dBm minimum</li> <li>● 802.11n HT20(5GHz) : +12dBm minimum</li> <li>● 802.11n HT40(5GHz) : +12dBm minimum</li> <li>● 802.11ac 80MHz(5GHz) : +11dBm minimum</li> </ul>
<b>Power Consumption</b>	<p>Transmit: 2.0 W (max)          Receive: 1.6 W (max)          Idle mode (PSP): 180 mW (WLAN Associated)          Idle mode: 60 mW (WLAN unassociated)          Radio disabled: 30 mW</p>
<b>Power Management</b>	<p>ACPI and PCI Express compliant power management          802.11 compliant power saving mode</p>
<b>Receiver Sensitivity<sup>3</sup></b>	<p>802.11b, 1Mbps : -94dBm maximum          802.11b, 11Mbps : -86dBm maximum          802.11g, 6Mbps : -88dBm maximum          802.11g, 54Mbps : -74dBm maximum          802.11a, 6Mbps : -86dBm maximum          802.11a, 54Mbps : -72dBm maximum          802.11n, MCS07 : -69dBm maximum          802.11n, MCS15 : -66dBm maximum          802.11ac, 1SS, MCS-0 : -86dBm maximum          802.11ac, 1SS, MCS-9 : -61dBm maximum          802.11ac, 2SS, MCS-0 : -83dBm maximum          802.11ac, 2SS, MCS-9 : -58dBm maximum</p>
<b>Antenna type</b>	<p>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</p>
<b>Form Factor Dimensions</b>	<p>PCI-Express M.2 MiniCard          Type 2230 : 2.3 x 22.0 x 30.0 mm          Or          Type 1630 : 2.3 x 16.0 x 30.0 mm</p>
<b>Weight</b>	<p>Type 2230 : 2.8g          Or          Type 1630 : 2g</p>
<b>Operating Voltage Temperature</b>	<p>3.3v +/- 9%          Operating 14° to 158° F (-10° to 70° C)          Non-operating -40° to 176° F (-40° to 80° C)</p>
<b>Humidity</b>	<p>Operating 10% to 90% (non-condensing)          Non-operating 5% to 95% (non-condensing)</p>
<b>Altitude</b>	<p>Operating 0 to 10,000 ft (3,048 m)          Non-operating 0 to 50,000 ft (15,240 m)</p>
<b>LED Activity</b>	<p>LED Amber – Radio OFF; LED White – Radio ON</p>
	<p>1. Check latest software/driver release for updates on supported security features.</p>

### Technical Specifications

- Maximum output power may vary by country according to local regulations.
- 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).

**NOTE:** 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.

#### HP Integrated Module with Bluetooth 4.0+EDR Wireless Technology

<b>Bluetooth Specification</b>	4.0+EDR Compliant												
<b>Frequency Band</b>	2402 to 2480 MHz												
<b>Number of Available Channels</b>	79 (1 MHz) available channels												
<b>Data Rates and Throughput</b>	3 Mbps data rate; throughput up to 2.17 Mbps Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric or 1306.9 kbps symmetric												
<b>Transmit Power</b>	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of +4 dBm for BR and EDR.												
<b>Receiver Sensitivity</b>	<table border="1"> <thead> <tr> <th>Modulation</th> <th>0.01% BER</th> <th>0.001% BER</th> </tr> </thead> <tbody> <tr> <td>GFSK</td> <td>-80 dBm</td> <td>-70 dBm</td> </tr> <tr> <td><math>\pi/4</math>-DQPSK</td> <td>-80 dBm</td> <td>-70 dBm</td> </tr> <tr> <td>8DPSK</td> <td>-80 dBm</td> <td>-70 dBm</td> </tr> </tbody> </table>	Modulation	0.01% BER	0.001% BER	GFSK	-80 dBm	-70 dBm	$\pi/4$ -DQPSK	-80 dBm	-70 dBm	8DPSK	-80 dBm	-70 dBm
Modulation	0.01% BER	0.001% BER											
GFSK	-80 dBm	-70 dBm											
$\pi/4$ -DQPSK	-80 dBm	-70 dBm											
8DPSK	-80 dBm	-70 dBm											
<b>Power Consumption</b>	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 17 mW												
<b>Range</b>	Up to 33 ft (10 m)												
<b>Electrical Interface</b>	USB 2.0 compliant												
<b>Bluetooth Software Supported</b>	Microsoft Windows Bluetooth Software												
<b>Link Topology</b>													
<b>Electrical Interface</b>	Point to Point, Multipoint Pico Nets up to 7 slaves												
<b>Bluetooth Software Supported</b>	Full support of Bluetooth Security Provisions												
<b>Security</b>													
<b>Power Management</b>	Microsoft Windows ACPI, and USB Bus Support												
<b>Power Management</b>	Self-configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff												
<b>Certifications</b>	All necessary regulatory approvals for supported countries, including: FCC (47 CFR) Part 15C, Section 15.247 & 15.249												
<b>Bluetooth Profiles Supported</b>													
<b>Power Management</b>	ETS 300 328, ETS 300 826												
<b>Certifications</b>	Low Voltage Directive IEC950 UL, CSA, and CE Mark Serial Port Profile (SPP) <sup>1</sup> Service Discovery Application Profile (SDAP) Dial-Up Networking (DUN) <sup>1,2</sup> Generic Object Exchange Profile (GOEP) <sup>1,2</sup> Object Push Profile (OPP) <sup>1,2</sup> File Transfer Profile (FTP) Synchronization Profile (SYNC) Hard Copy Cable Replacement (HCRP) <sup>1,2</sup> Personal Area Networking Profile (PAN) <sup>1,2</sup> Human Interface Device Profile (HID) <sup>1,2</sup>												
<b>Certifications</b>													
<b>Bluetooth Profiles Supported</b>													

### Technical Specifications

FAX Profile (FAX)  
Basic Imaging Profile (BIP)<sup>2</sup>  
Headset Profile (HSP)  
Hands Free Profile (HFP)  
Advanced Audio Distribution Profile (A2DP)

### **ENVIRONMENTAL**

TBD

### **COUNTRY OF ORIGIN**

China

### Summary of Changes

Type	Description	Part Number
<b>Cases</b>	HP Essential Top Load Case (up to 15.6")	H2W17AA
	HP Essential Backpack (up to 15.6")	H1D24AA
	HP Slim Ultrabook Top Load (up to 15.6" x .88"/22/5mm)	F3W15AA
	HP Slim Ultrabook Backpack (up to 15.6" x .88"/22/5mm)	F3W16AA
<b>Docking</b>	HP UltraSlim Docking Station	D9Y32AA
	HP 3001pr USB 3 Port Replicator	F3S42AA
	HP USB 3.0 Port Replicator (Spin)	H1L08AA
	HP Universal Port Replicator (in testing)	E6D70AA
<b>Input/Output - Keyboard</b>	HP Touch To Pair Mouse	H6E52AA
	HP keyboard and mouse	G1K29AA
	HP Stylish USB Keyboard and Mouse	H4B79AA
<b>Adapters</b>	HP Wireless display adapter	J1V25AA
	HP USB dual output adapter	C5U89AA
<b>Input/Output</b>	HP Stylish USB KB/Mouse	H4B80AA
	HP X4000b Bluetooth Mouse	H3T50AA
	USB Graphics Adapter (DBU PL)	NL571AA
	HDMI to VGA Adapter	H4F02AA
	HP HDMI to DVI Adapter	F5A28AA
	HP EliteFolio Ethernet/VGA Adapter II	TBD
<b>Power</b>	HP 45W Smart AC Adapter (4.5mm)	H6Y88AA
<b>Storage</b>	HP External USB Optical Drive	F2B56AA
<b>Security</b>	12.5" Privacy Filter (2 way)	J6E64AA
	HP UltraSlim Keyed Cable Lock	H4D73AA
<b>Monitors</b>	HP EliteDisplay S240ml 23.8-in MHL Monitor	F4M47AA
	HP EliteDisplay E221c 21.5-in Webcam Monitor	D9E49AA
	HP EliteDisplay E221i 21.5-inch IPS Monitor	F9Z09AA

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## Summary of Changes