### Overview

### HP ProBook x360 11 G3 EE Notebook PC



	Le	ft	
1.	Internal microphones (2)	7.	Volume button
2.	User-facing webcam LED	8.	Power button
3.	User-facing 720p webcam	9.	Headphone / Microphone combo jack
4.	ClickPad	10.	USB 3.1 Gen 1 port
5.	World-facing 5 megapixels webcam (Select models only)	11.	Security lock slot (Nano lock sold separately)
6.	World-facing webcam LED (Select models only)		



## **Overview**



- 1. Power connector
- 2. Ethernet (RJ-45) port
- 3. HDMI port (Cable not included)

#### Right

- 4. USB 3.1 Gen 1 port
- 5. USB Type-C™ (Data and Power in-out)
- 6. Micro SD card reader



#### Overview

#### **AT A GLANCE**

- Starting at 2.97 lbs (1.35 kg) non-touch and 3.17 lbs (1.44 kg) touch
- Less than 20 mm (0.79 inch), this flexible 360° hinge converts to laptop, tablet, tent, or stand mode easily
- Passed MIL-STD 810G testing¹ with rugged features such as co-molded rubber trim, spill- and pick-resistant keyboard, and Corning® Gorilla® Glass 3 touch screen
- Optional dual camera system for project-based learning
- Optional HP Active Pen provides an authentic digital inking experience
- Pre-installed with Windows 10 Pro 64, Windows 10 Pro 64 (National Academic), Windows 10 Home 64, or Windows 10 Pro
  in S mode 64
- Powered by Intel® Celeron® N4000, Intel® Celeron® N4100 or Intel® Pentium® N5000 processors
- Choice of 29.4cm (11.6 inch) diagonal HD UWVA slim LED touch screen (1366 x 768), 29.4 cm (11.6 inch) diagonal HD SVA anti-glare slim LED non-touch (1366 x 768) or 29.4 cm (11.6 inch) diagonal HD SVA slim LED touch screen (1366 x 768) displays
- 64 GB eMMC or up to 256 GB SATA-3 Solid State Drive storage options
- Up to 8 GB system memory for enhanced memory management
- Reliable connectivity with choice of Intel® Dual Band Wireless-AC 9260 802.11a/b/g/n/ac (2x2) WiFi and Bluetooth® 5.0 Combo WLAN or Realtek RTL8822BE 802.11a/b/g/n/ac (2x2) WiFi and Bluetooth® 4.2 Combo WLAN for learning and collaboration beyond the classroom
- Built-in ports include: Ethernet (RJ-45), USB 3.1 Gen 1, USB Type-C™, and HDMI 2.0a port for connecting to highresolution displays
- Enhanced security TPM 2.0 discrete chip
- Battery life Up to 16hrs and 30 mins for SSD
- Battery life Up to 16hrs and 50 mins for eMMC

1. MIL STD 810G testing is pending and 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. Damage under the MIL STD test conditions or any accidental damage requires an optional HP Accidental Damage Protection Care Pack.

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



#### **PRODUCT NAME**

HP ProBook x360 11 G3 EE 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 in S mode 643

Windows 10 Pro in S mode 64 (National Academic only)<sup>2,3</sup>

**Note:** 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.

- 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
- 3. Windows 10 Pro in S mode 64 works exclusively with apps from the Windows store. Some accessories and apps compatible with Windows 10 may not work, and performance may vary. Certain default settings, features, and apps cannot be changed. Easily switch to Windows 10 Pro configuration (fee applies) Learn more at Microsoft.com/Windows 10S.

#### **PROCESSORS**

Intel® Pentium® Silver N5000 with Intel® UHD Graphics 605 (1.1 GHz base frequency, up to 2.7 GHz burst frequency, 4 MB cache, 4 cores) 4,5,6

Intel® Celeron® N4100 with Intel® UHD Graphics 600 (1.1 GHz base frequency, up to 2.4 GHz burst frequency, 4 MB cache, 4 cores)4,5,6

Intel® Celeron® N4000 with Intel® UHD Graphics 600 (1.1 GHz base frequency, up to 2.6 GHz burst frequency, 4 MB cache, 2 cores)<sup>4,5,6</sup>

#### **Processors Family**

Intel® Celeron® processor (N4000 is Windows 10 only)<sup>6</sup>
Intel® Celeron® processor (N4100 is Windows 10 only)<sup>6</sup>
Intel® Pentium® silver processor (N5000 is Windows 10 only)<sup>6</sup>

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



- 5. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
- 6. NOTE: 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 605 (for Pentium)<sup>7</sup> Intel® UHD Graphics 600 (for Celeron)<sup>7</sup>

7. HD content required to view HD images.

**NOTE:** View processor section for details.

#### **DISPLAY**

#### Internal

#### **Non-Touch**

29.46 cm (11.6") diagonal HD SVA eDP anti-glare LED-backlit slim, 220 cd/m², 67% sRGB (1366 x 768)

#### **Touch**

29.46 cm (11.6") diagonal HD IPS eDP LED-backlit touch screen with HD camera, 220 cd/m², 67% sRGB(1366 x 768) 29.46 cm (11.6") diagonal HD SVA eDP LED-backlit touch screen with HD camera, 220 cd/m², 67% sRGB (1366 x 768)

#### HDMI<sup>2</sup>

Port supports resolutions up to 3840 x 2160 external resolution @60 Hz

- 7. HD content required to view HD images.
- 8. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 9. Touchscreen is an optional feature that must be configured at purchase.

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



#### STORAGE AND DRIVES

**Primary Storage** M.2 (NGFF) 2280 Solid State Drive 128 GB SATA-3 TLC Solid State Drive<sup>10,11</sup> 256 GB SATA-3 TLC Solid State Drive<sup>10,11</sup>

#### **eMMC Configurations**

64 GB eMMC<sup>10</sup>

- 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.
- 11. Not available with eMMC storage.

#### **MEMORY**

Standard **Maximum Memory** 8 GB DDR4-2400 SDRAM12

#### Memory

4 GB DDR4-2400 SDRAM (on-board)12 8 GB DDR4-2400 SDRAM (on-board)12

> 12. 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**

#### Broadband Wireless (WWAN)1,2,3 **WLAN**

Intel® Dual Band Wireless-AC 9260 802.11a/b/q/n/ac (2x2) Wi-Fi® and Bluetooth® 5 Combo, non-vPro™ 13 Realtek RTL8822BE 802.11ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo<sup>13</sup>

#### Miracast

Miracast Support<sup>15</sup>

#### **Ethernet**

Realtek RTL8111HSH-CG 10/100/1000 GbE NIC14

- 13. 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.
- 14. The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.
- 15. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.



#### **AUDIO/MULTIMEDIA**

#### Audio

**HP Audio** 

2 Integrated stereo speakers

#### Camera

User-facing 720p HD camera<sup>7,16</sup> Located on display

#### Webcam

World-facing 5 MP secondary camera<sup>7,9,16</sup>
Located on keyboard deck (option only available with touch display configurations)

NOTE: Both webcams are fix focus.

- 7. HD content required to view HD images.
- 9. Sold separately or as an optional feature.

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

#### Keyboard

Full-sized keyboard, spill and pick resistant

#### **Pointing Device**

Clickpad with multi-touch gesture support, taps enabled as default Default on: 2-finger scroll, pinch Support Windows 10 modern Trackpad gestures

#### **Function Keys**

- F1 Blank
- F2 ClickPad Enable/Disable
- F3 Sleep
- F4 Display Switching
- F5 Audio Mute/Unmute
- F6 Volume Down
- F7 Volume Up
- F8 Mic Mute/Unmute
- F9 Brightness Down
- F10 Brightness Up
- F11 Blank
- F12 Wireless On/Off

#### Pen

Optional HP Active Pen9



## **Technical Specifications**

#### Sensors

Accelerometer Magnetometer Gyroscope

9. Sold separately or as an optional feature.

#### SOFTWARE AND SECURITY

#### BIOS

HP BIOSphere Gen4<sup>17</sup>
HP DriveLock & Automatic DriveLock<sup>18</sup>
BIOS Update via Network
Secure Erase<sup>19</sup>
Absolute Persistence Module<sup>20</sup>
Pre-boot Authentication
HP Wireless Wakeup

#### Software

HP Native Miracast Support<sup>15</sup>
HP Connection Optimizer
HP 3D DriveGuard
HP Hotkey Support - CMIT
HP Jumpstart
HP Support Assistant<sup>22</sup>
HP Noise Cancellation Software
HP School Pack
HP Host Based MAC Address Manager

#### **Manageability Features**

Buy Office (sold separately)

HP Driver Packs<sup>24</sup>
HP System Software Manager (SSM)
HP BIOS Config Utility (BCU)
HP Client Catalog

HP Manageability Integration Kit Gen2<sup>25</sup>

Ivanti Management Suite<sup>26</sup>

#### **Client Security Software**

- HP Client Security Suite Gen3<sup>27</sup> including:
- HP Security Manager (including Credential Manager, HP Password Manager<sup>28</sup>, HP Spare Key)
- HP Device Access Manager<sup>30</sup>
- HP Power On Authentication

Windows Defender31

#### **Security Management**



## **Technical Specifications**

Secure Erase<sup>19</sup>

TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified)<sup>32</sup>

SATA 0.1 port disablement (viaBIOS)

RAID configurations<sup>33</sup>

Serial, USB enable/disable (viaBIOS)

Power-on password (viaBIOS)

Setup password (viaBIOS)

Support for chassis padlocks and cable lock devices

- 15. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
- 17. HP BIOSphere Gen4 requires Intel(R) or AMD 8th Gen processors. Features may vary depending on the platform and configurations.
- 18. HP Drive Lock & Automatic Drive Lock is not supported on NVMe drives
- 19. HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method.
- 20. 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.
- 21. HP ePrint Driver 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/eprintcenter). Print times and connection speeds may vary.
- 22. 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. Ivanti Management Suite subscription required.
- 27. HP Client Security Suite Gen 3 requires Windows and Intel® or AMD 8th generation processors.
- 28. HP Password Manager requires Internet Explorer or Chrome or FireFox. Some websites and applications may not be supported. User may need to enable or allow the add-on / extension in the internet browser.
- 30. HP Device Access Manager requires HP Client Security Suite Gen4
- 31. Windows Defender Opt in and internet connection required for updates.
- 32. 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).
- 33. RAID configuration is optional and does require a second hard drive.

#### **POWER**

#### **Power Supply**

HP Smart 45 W External AC power adapter<sup>34</sup>
HP Smart 65 W EM External AC power adapter<sup>34</sup>
HP Smart 45 W USB Type-C™ adapter<sup>34</sup>

#### **Primary Battery**

HP Long Life 3-cell, 48 Wh Li-ion (90% in 90 minutes)<sup>35,36</sup>



## **Technical Specifications**

#### **Power Cord**

3-wire plug - 1m

#### **Battery life**

Up to 16hrs and 30 mins for SSD<sup>37</sup> Up to 16hrs and 50 mins for eMMC<sup>37</sup>

**NOTE:** Battery is internal and not replaceable by customer.

- 34. Availability may vary by country.
- 35. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 36. Recharges the battery up to 90% within 90 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 90% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.
- 37. Windows 10 MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.

#### **ENVIRONMENTAL**

## Eco-Label Certifications & declarations

This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

- IT ECO declaration
- US ENERGY STAR®
- EPEAT® Gold registered in the United States. See http://www.epeat.net for registration status in your country.
- TCO Certified 5.0.

#### **System Configuration**

The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a "Typically Configured Notebook".

### Energy Consumption (in accordance with US ENERGY STAR® test

method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation (Sort idle)	4.19 W	4.27 W	4.15 W
Normal Operation (Long idle)	1.48 W	1.51 W	1.45 W
Sleep	0.34 W	0.37 W	0.34 W
Off	0.25 W	0.30 W	0.25 W



## **Technical Specifications**

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, 60Hz
Normal Operation (Short idle)	14 BTU/hr	15 BTU/hr	14 BTU/hr
Normal Operation (Long idle)	5 BTU/hr	5 BTU/hr	5 BTU/hr
Sleep	1 BTU/hr	1 BTU/hr	1 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr

<sup>\*</sup>Note: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L <sub>WAd</sub> , bels)	Sound Pressure (L <sub>pAm</sub> , decibels)
Typically Configured – Idle	2.5	16
Fixed Disk – Random writes	2.5	16

#### Longevity and Upgrading

This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include:

- 3 USB ports
- 1 PC card slot (type I/II)
- 1 ExpressCard/54 slot
- 1 IEEE 1394 Port
- 2 SODIMM memory slots
- · Optional expansion base docking station
- 1 multi-bay II storage port
- Interchangeable HDD

Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.

#### **Batteries**

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 size: CR2032 (coin cell)

Battery type: Lithium



27 g

13 q

### **Technical Specifications**

#### **Additional Information**

- 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 (EPEAT) standard at the <qold> level, see http://www.epeat.net
- Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and IS01043.
- This product contains 2.5% post-consumer recycled plastic (by wt.)
- This product is 97.6% recycle-able when properly disposed of at end of life.

#### **Packaging Materials**

**External:** PAPER/Corrugated 237 q

PLASTIC/Polyethylene low density - LDPE

PLASTIC/Polyethylene Expanded -

PLASTIC/Polypropylene - PP 3 q

#### **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

Internal:

- Certain Azo Colorants
- Certain Brominated Flame Retardants may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehvde
- 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 Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) except for wires and cables, and certain retail packaging 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.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

## End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: <a href="http://www.hp.com/go/reuse-recycle">http://www.hp.com/go/reuse-recycle</a> 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: <a href="http://www.hp.com/go/recyclers">http://www.hp.com/go/recyclers</a>. 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.

#### Hewlett-Packard 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://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC\_GBU\_Product\_Design\_ISO\_ 14K\_Certificate.pdf

and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

#### **WEIGHTS & DIMENSIONS**

#### **Product Weight**

Starting at 2.97 lb (non-touch); Starting at 3.17 lb (touch)<sup>38</sup> Starting at 1.35 kg (non-touch); Starting at 1.44 kg (touch)<sup>38</sup>

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

11.8 x 8.11 x 0.78 in 30 x 20.59 x 1.99 cm

38. Weight will vary by configuration.



## **Technical Specifications**

#### **Ports**

2 USB 3.1 Gen 1 1 USB Type-C™ (Data transfer, power delivery) 1 HDMI 2.0a<sup>39</sup> 1 AC power 1 RJ-45 1 headphone/microphone combo jack

#### **Expansion Slots**

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

39. HDMI cable sold separately. **NOTE:** All cables are sold separately.

#### SERVICE AND SUPPORT

HP Services offers 1-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year limited warranty as the platform. Refer to <a href="http://www.hp.com/support/batterywarranty">http://www.hp.com/support/batterywarranty</a>/ 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: <a href="http://www.hp.com/go/cpc">http://www.hp.com/go/cpc</a>. 40

40. 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 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 19V
Average Operating Power Win 10
Integrated graphics Yes
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 240 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** 

 $\begin{array}{lll} \text{UL} & \text{Yes} \\ \text{CSA} & \text{Yes} \\ \text{FCC Compliance} & \text{Yes} \\ \text{ENERGY STAR 7.0}^{\text{@}} & \text{Yes}^{\text{41}} \end{array}$ 

EPEAT® Registered Gold in United States<sup>42</sup>

Yes

Yes

**ICES** Yes Australia / Yes NZ A-Tick Compliance Yes CCC Yes Japan VCCI Compliance Yes KC Yes **BSMI** Yes **CE Marking Compliance** Yes **BNCI or BELUS** Yes CIT Yes GOST Yes Saudi Arabian Compliance (ICCP) Yes



**SABS** 

**UKRSERTCOMPUTER** 

### **Technical Specifications**

41. Configurations of the HP ProBook x360 11 G3 is ENERGY STAR® qualified are identified as HP ProBook x360 11 G3 ENERGY STAR on HP websites and on http://www.energystar.gov.

42. EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at http://www.hp.com/go/options.

#### **DISPLAYS**

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

Panel LCD 11.6 HD AG WLED SVA 45% cg 220 nits eDP Slim **Outline Dimensions** 

278.5 x 168.5 mm(max)

(W x H x D)

Active Area

256.125 x 144 mm

Weight 210g max
Diagonal Size 11.6 (inch)
Thickness 3.0 mm (max)

InterfaceeDP1.2Surface TreatmentAnti-glareTouch EnabledNone10 Touch PointsYes

Contrast Ratio 400:1 (typical)

Refresh Rate 60Hz

**Brightness** 220 nit typical (panel only)

Pixel Resolution 1366x768 (HD)

Format RGB
Backlight LED
Color Gamut Coverage 45%
Color Depth 6 bits

**Viewing Angle** SVA 45/45/15/35

Panel LCD 11.6 HD AG WLED SVA 45% cg 220 nits eDP Slim **Outline Dimensions** 

 $(W \times H \times D)$ 

J. O. I.

278.5 x 168.5 mm(max)

**Active Area** 256.125 x 144 mm

Weight 210g max

Diagonal Size 11.6 (inch)

Thickness 3.0 mm (max)



## **Technical Specifications**

Interface eDP1.2

Surface Treatment BrightView Glass

**Touch Enabled** Yes

Contrast Ratio 400:1 (typical)

Refresh Rate 60Hz

**Brightness** 220 nit typical (panel only)

Pixel Resolution 1366x768 (HD)

Format RGB

Backlight LED

Color Gamut Coverage 45%

Color Depth 6 bits

**Viewing Angle** SVA 45/45/15/35

Panel LCD 11.6 inch HD AG Outline Dimensions

WLED UWVA 50 percent cg(W x H x D) 220 nits eDP slim Active Area

ν H × D)

278.5 x 168.5 mm(max)

256.125 x 144 mm

Weight 200g max

Diagonal Size 11.6 (inch)

Thickness 3.2 mm max Interface eDP1.2

Surface Treatment BrightView Glass

**Touch Enabled** Yes

**Contrast Ratio** 800:1 (typical)

Refresh Rate 60Hz

**Brightness** 220 nit typical (panel only)

Pixel Resolution 1366x768 (HD)

Format RGB
Backlight LED
Color Gamut Coverage 50%
Color Depth 6 bits

Viewing Angle UWVA 85/85/85

#### STORAGE AND DRIVES

eMMC 64 GB MO-276 MMCv5.0 Drive Weight 0.2 g
Height 1.4 mm

Width 11.5 x 13 mm
Interface MMC optical

Seek Time Sequential Read Sequential Write

Up to 250 MB/s Up to 70 MB/s

**Logical Blocks** 32 GB (31,268,536,320 Bytes)/64 GB (62,537,072,640 Bytes)



## **Technical Specifications**

128 GB 2280 M2 SATA-3

**TLC Solid State Drive** 

Operating Temperature 0 to 70
Security Features HS400
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

Seek Time Sequential Read Sequential Write

Up To 520 MB/s Up To 450 MB/s

**Logical Blocks** 250,069,680

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

Features DIPM; TRIM; DEVSLP

256 GB 2280 M2 SATA-3 TLC Solid State Drive Form Factor M.2 2280
Capacity 256GB
NAND Type TLC

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Interface
 0.02 lb (10 g)

 Seek Time
 Seguential Read

Seek Time Sequential Read Sequential Write

Up To 540 MB/s Up To 515 MB/s

**Logical Blocks** 500,118,192

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

Features DIPM; TRIM; DEVSLP

#### **NETWORKING/COMMUNICATIONS**

Realtek 802.11a/b/g/n/ac (2x2) WiFi and Bluetooth® 4.2 Combo Wireless LAN IEEE 802.11a Standards IEEE 802.11b IEEE 802.11g

IEEE 802.11n
IEEE 802.11ac

InteroperabilityWi-Fi certifiedFrequency Band802.11b/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, and

80MHz)

**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

Ad-hoc (Peer to Peer)

•Cisco Certified Extensions, all versions through CCX4 and CCX Lite

WAPI

**Network Architecture** 

Models Roaming Infrastructure (Access Point Required)

Intrastructure (Access Point Required)
IEEE 802.11 compliant roaming between access points

Output Power<sup>2</sup> • 802.1

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)

Connected Standby 10mWRadio 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° to 176° F (–40° to 80° C)

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

Non-operating 5% to 95% (non-condensing)
Operating 0 to 10,000 ft (3,048 m)

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

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

LED Amber – Radio 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.

Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

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

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

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

BLE: 0~39 (2 MHz/CH)

**Data Rates and Throughput** Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps

BLE: 1 Mbps data rate; throughput up to 0.2 Mbps

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

voice channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

**Transmit Power** The Bluetooth component shall operate as a Class II Bluetooth

device with a maximum transmit power of + 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

**Link Topology** 

**LED Activity** 

Power ManagementMicrosoft Windows ACPI, and USB Bus SupportCertificationsFCC (47 CFR) Part 15C, Section 15.247 & 15.249

**Power Management** ETS 300 328, ETS 300 826 **Certifications** 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)

Intel Thunder Peak 9260 802.11a/b/g/n/ac (2x2) WiFi and Bluetooth® 5.0 Combo¹ Non-vPro Wireless LAN Standards

IEEE 802.11a

IEEE 802.11b

IEEE 802.11n

IEEE 802.11ac

IEEE 802.11d

IEEE 802.11e

IEEE 802.11h

IEEE 802.11i

IEEE 802.11k

IEEE 802.11r

IEEE 802.11v

Interoperability Wi-Fi certified

Frequency Band 802.11b/g/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

3.023 3.030 dri2

**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

Cisco Certified Extensions, all versions through CCX4 and CCX

Lite •WAPI

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

Models Infrastructure (Access Point Required) Roaming

Output Power<sup>2</sup>

IEEE 802.11 compliant roaming between access points

 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 802.11n HT40(5GHz): +14.5dBm minimum 802.11ac VHT80(5GHz): +11.5dBm minimum 802.11ac VHT160(5GHz): +11.5dBm minimum

**Power Consumption** Transmit mode: 2.0 W

Receive mode: 1.6 W

•Idle mode (PSP) 180 mW (WLAN Associated) •Idle mode: 50 mW (WLAN unassociated) Connected Standby/Modern Standby: 10mW

Radio disabled: 8 mW

ACPI and PCI Express compliant power management **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/q, 6Mbps: -86dBm maximum 802.11a/q, 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

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: 2.8q

2. Type 126: 1.3g

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

**Dimensions** 



**Altitude** 

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

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

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

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

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LED Activity LED Amber – Radio OFF; LED White – Radio ON

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

voice channels

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Peak (Rx) 230 mW

Selective Suspend 17 mW

Electrical Interface USB 2.0 compliant

**Bluetooth Software Supported Microsoft Windows Bluetooth Software** 

**Link Topology** 

**Power Management** Microsoft Windows ACPI, and USB Bus Support **Certifications** FCC (47 CFR) Part 15C, Section 15.247 & 15.249

Power ManagementETS 300 328, ETS 300 826CertificationsLow 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)

**POWER** 

**HP 45W Smart AC adapter Dimensions** (H x W x D) 3.74 x 1.57 x 1.04 in (9.5 x 4.0 x 2.65 cm)

 Weight
 0.386 lb (175g) max

 Input
 90 to 265 VAC

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

**Input frequency range** 47 to 63 Hz **Input AC current** 1.4 A at 90 VAC

Output Output power 45W

**DC output** 19.5V

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

Output current protection < 8.0A

**Connector** 4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords

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

temperature

Non-operating (storage) -4° 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** CE Mark - full compliance with LVD and EMC directives

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.

HP 65W EM Smart AC adapter

 Dimensions
 102x55x30mm

 Weight
 270g +/- 10g

**Input Input Efficiency** 87% min at 115V/230V

**Input frequency range** 47 to 63 Hz

Input AC current 1.7 A at 90 VAC and maximum load

**Output DC output** 65W(19.5V/3.33A)

**Hold-up time** 5 msec at 115 VAC input

Output current limit <11A, Over voltage protection- 29V max

automatic shutdown



**Connector** 4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords

**Environmental Design** Operating  $0^{\circ}$  to  $35^{\circ}$  C

temperature

Non-operating (storage) -20° to 85° C

temperature

Altitude 0 to 5,000 m Humidity 0% to 95% Storage Humidity 0% to 95%

**EMI and Safety**CE Mark - EMC directives; Worldwide safety standards - IEC60950, Certifications
EN60950, UL60950, Class1, SELV: Agency approvals - C-UL-US, NOR

EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE; Reliability - failure rate of less than 0.1% annually within the first three

years of operation.

HP 45W USB type C Dimens Straight 1.8m AC Adapter Weight

**Dimensions** 94.0mm\*40.0mm\*26.5mm

**Veight** 192.5g +/-10%

**Input Input Efficiency** Average Efficiency of 25%, 50%, 75%, 100%

load condition with 115Vac/230Vac Spec:

5V: 81.5% 9V: 86.7% 12V: 87.41% 15V: 87.8%

**Input frequency range** 47 ~ 63Hz

**Input AC current** Max. 1.4 A at 90 Vac

Output Output power 5V/15W

9V/27W 12V/36W 15V/45W

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

Output current limit <5.0A

**Connector** USB Type-C

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

temperature

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**CE Mark - full compliance with LVD and EMC directives
Worldwide safety standards - IEC60950, EN60950, UL

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

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

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



HP 3-cell Long Life Li-Ion (48 WHr) Dimensions (H x W x L)

7.3\*94\*184.47mm (0.287\*3.7\*7.263 inch)

Weight

0.215kg

Cells/Type

3cell Lithium-Ion Prismatic cell / 596080

3cell Lithium-Ion Polymer cell / 606072

Voltage 11.4V Amp-hour capacity 4.212Ah Watt-hour capacity 48Wh

Operating (Charging)32° to 113° F (0° to 45° C)Operating (Discharging)14° to 122° F (-10° to 60° C)

**Optional Travel Battery** 

**Available** 

No

### **COUNTRY OF ORIGIN**

China



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

Туре	Description	Part Number
Cases	HP Essential Top Load Case	H2W17AA#xxx
	HP Essential Backpack	H1D24AA
	HP Slim Ultrabook Top Load	F3W15AA
	HP Slim Ultrabook Backpack	F3W16AA
	HP Black 11.6 Always On Case	2MY57AA
	HP Slim Ultrabook Messenger	F3W14AA
Docking	HP USB-C Universal Dock	1MK33AA
	HP USB Travel Dock	TOK30AA
	HP 3005pr USB3 Port Replicator	Y4H06AA
	HP USB-C Universal Dock w/4.5mm Adapter	2UF95AA
	HP USB-C Universal Dock NF	3DV65AA
	HP USB-C Travel Dock	T0K29AA
Input/Output	HP Comfort Grip Wireless Mouse	H2L63AA
	HP 3-Button USB Laser Mouse	H4B81AA
	HP HDMI to VGA Adapter	H4F02AA
	HP Slim USB Keyboard & Mouse Bundle	T6T83AA#xxx
	HP USB Premium Mouse	1JR32AA
	HP Wireless Premium Mouse	1JR31AA
	HP Essential USB Mouse	2TX37AA#xxx
	HP USB Travel Mouse	G1K28AA
	HP Slim Bluetooth Mouse	F3J92AA#xxx
	HP Slim Wireless keyboard and mouse	T6L04AA#xxx
	HP USB-C to USB 3.0 Adapter	N2Z63AA#xxx
	HP USB-C to 3 and 4.5mm Adapter	N2Z65AA#xxx
	HP USB-C to RJ45 Adapter	V7W66AA#xxx
	HP Stereo USB Headset	T1A67AA
	HP Stereo 3.5mm Headset	T1A66AA
	HP Active Pen with Spare Tips	1FH00AA#xxx
	HP Active Pen Nib Set	3RV57AA
Power	HP 45W Smart AC Adapter 4.5mm	H6Y88AA#xxx
	HP 45W USB-C Power Adapter	1HE07AA#xxx
	HP 65W USB-C Power Adapter	1HE08AA#xxx
	HP Notebook Powerbank	N9F71AA#xxx
Storage	HP External USB Optical Drive	F2B56AA
Security	HP Nano Keyed Cable Lock	1AJ39AA
Displays	HP ProDisplay P240VA 23.8-inch Monitor	N3H13AA
	HP ProDisplay P232 23-inch Monitor	K7X31AA
	HP EliteDisplay E243m 23.8-inch Collaboration Monitor	1FH48AA
	HP EliteDisplay E230t 23-Inch Touch Monitor	W2Z50AA
	HP EliteDisplay S14 14-inch USB-C Portable Monitor	3HX46AA



## **Summary of Changes**

Date of change:	Version History:		Description of change:
April 15, 2019	V1 to V2	Added	Environmental tab and 10 touch points to display section

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