

### Overview

#### HP Chromebook 14 G5



#### Left

- 1. Webcam LED
- 2. Webcam
- 3. Internal microphone
- 4. Power button
- 5. USB Type-C™
- 6. USB 3.1 Gen 1
- 7. Micro SD Card reader
- 8. Audio combo jack
- 9. Touchpad

### Overview



#### Right

1. USB 3.1 Gen 1
2. USB Type-C™
3. Nano Security lock slot

### Overview

#### AT A GLANCE

- Enjoy affordable, convenient mobile productivity with latest Intel® Celeron® processor
- Sleek and durable 180° hinge
- Optional FHD IPS touchscreen for collaboration <sup>2</sup>
- Designed to pass MIL-STD 810G testing <sup>1</sup>
- 2 USB-C™ ports for charging, power and data transfer, and 2 USB 3.1 Gen 1 ports for sleep and charge support
- Choice of up to 8 GB memory and 64GB eMMC storage
- Spill and pick resistant keyboard; optional backlit keyboard for low-light environment<sup>2</sup>
- HD webcam with wider view angle for meeting the group in conference
- HP USB-C docking with Power and video through <sup>2</sup>
- Enjoy Android™ Apps\* on Chrome OS™ <sup>3</sup>
- Your Chromebook boots up within 10 seconds and you can be browsing online and working in Google Apps just moments later
- Store up to 100 GB of your files and content with Google Drive. Your own virtual hard drive is available anywhere the Internet is accessible with this complimentary two year promotion <sup>4</sup>

1. MIL-STD testing is not final 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

2. Sold separately or as an optional feature.

3. The availability of Chrome OS System supporting Android Apps is dependent on Google's Chrome OS support, readiness timeline will be announced by Google <https://sites.google.com/a/chromium.org/dev/chromium-os/chrome-os-systems-supporting-android-apps>

4. This offer is tied to this device and is non-transferable. If this device is returned, the extra storage will be revoked. In order to redeem this offer, you will need to be on Chrome OSTM 23 or later. Internet access is required and not included. Additional information about storage plan refunds, renewals, cancellations and expiration is available at the Google website: <https://support.google.com/chromebook/answer/2703646?hl=en>

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

### Features

#### PRODUCT NAME

HP ProBook 14 G5 Notebook PC

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#### OPERATING SYSTEM

**Preinstalled**  
Chrome OS™

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#### PROCESSORS

Intel® Celeron® N3350 with Intel® HD Graphics 500 (1.1 GHz base frequency, up to 2.4 GHz burst frequency, 2 MB cache, 2 cores)<sup>5</sup>

Intel® Celeron® N3450 with Intel® HD Graphics 500 (1.1 GHz base frequency, up to 2.2 GHz burst frequency, 2 MB cache, 4 cores)<sup>5</sup>

5. 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® numbering is not a measurement of higher performance.

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#### GRAPHICS

**Integrated**  
Intel® HD Graphics 500<sup>6</sup>

6. HD content required to view HD images.

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#### DISPLAY

##### Non-Touch

35.56 cm (14") diagonal HD SVA anti-glare WLED-backlit, 220 cd/m<sup>2</sup>, 72% sRGB (1366 x 768)<sup>7,8</sup>

35.56 cm (14") diagonal FHD IPS anti-glare WLED-backlit, 220 cd/m<sup>2</sup>, 72% sRGB (1920 x 1080)<sup>7,8</sup>

##### Touch

35.56 cm (14") diagonal HD SVA Brightview WLED-backlit touch screen, 220 cd/m<sup>2</sup>, 72% sRGB (1366 x 768)<sup>7,8</sup>

35.56 cm (14") diagonal FHD IPS Brightview WLED-backlit, 220 cd/m<sup>2</sup>, 72% sRGB (1920 x 1080)<sup>7,8</sup>

7. HD content required to view HD images.

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

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### Features

#### STORAGE AND DRIVES

##### Primary Storage

eMMC 5.0

16 GB<sup>9</sup>

32 GB<sup>9</sup>

64 GB<sup>9</sup>

9. For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. 5.1 GB of the eMMC are dedicated/allocated to the Chrome OS™ partition.

#### MEMORY

##### Maximum Memory

8 GB LPDDR4-2400 SDRAM

##### Memory soldered down

4 GB LPDDR4-2400 SDRAM

8 GB LPDDR4-2400 SDRAM

#### NETWORKING/COMMUNICATIONS

##### Broadband Wireless (WWAN)

##### WLAN

Intel® Dual Band Wireless-AC 7265 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, non-vPro™<sup>10</sup>

Integrated Wireless options with dual antennas.

10. 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.

#### AUDIO/MULTIMEDIA

##### Audio

HD audio; Dual speakers

Integrated dual array microphone

##### Camera

720p HD camera<sup>11</sup>

11. HD content required to view HD images.

### Features

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

##### Keyboard

Full-sized island-style, spill resistant, pick resistant.

Full-sized island-style, optional backlit, spill resistant, pick resistant

##### Pointing Devices

Touchpad with multi-touch gestures enabled. Taps enabled as default

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#### SOFTWARE AND SECURITY

##### Preinstalled Software

##### Software Included

Store up to 100 GB with Google Drive (2-year subscription included)<sup>12</sup>

HP Classroom Manager

##### Security

H1 Security IC

Nano Security lock slot<sup>13</sup>

12. Google Drive offer is tied to this device and is non-transferable. If this device is returned, the extra storage will be revoked. In order to redeem this offer, you will need to be on Chrome OSTM 23 or later. Internet access is required and not included. Additional information about storage plan refunds, renewals, cancellations and expiration is available at the Google website: <https://support.google.com/chromebook/answer/2703646?hl=en>

13. Lock must be purchased separately.

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#### POWER

##### Power Supply

45 W USB Type-C™ straight type AC adapter

##### Primary Battery

HP Long Life 2-cell, 47.36 Wh Li-ion <sup>14</sup>

##### Battery Life

11 hrs (HD)

10 hrs (FHD)<sup>15</sup>

##### Power Cord

Minimum 2.6M length USB-C/power cord

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

15. Testing conducted by HP using Google Chrome OS power\_LoadTest based on PV result (configuration is Intel® DC/ HD panel/ 4GB memory/ 64GB storage using Power\_load test, battery life may vary for different configurations). Battery life will vary and the maximum capacity of the battery will naturally decrease with time and usage. See <http://www.chromium.org/chromium-os/testing/power-testing> for test details.

## Features

### WEIGHT & DIMENSIONS

**Weight**

Starting at 3.39 lb (1.54 kg)<sup>16</sup>

**Dimensions** (w x d x h)

18.35 x 8.93 x 0.72 in (33.7 x 22.6 x 1.83 cm)

16. Weight will vary by configuration.

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### PORTS/SLOTS

**Ports**

2 USB 3.1 Type-C™

2 USB 3.1 Gen 1 (Sleep and Charge support)

1 headphone/microphone combo jack

**Slots**

1 micro SD (multi-format digital media reader)

Supports SD, SDHC, SDXC

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### SERVICE AND SUPPORT

HP Services offers a 1-year limited warranties and 90 day support options depending on country. Batteries have a default one year limited warranty. 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>17</sup>

17. 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](http://www.hp.com/go/cpc). HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.

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## Technical Specifications

## DISPLAYS

## 14.0" HD WLED AntiGlare (1366x768) slim, SVA

<b>Outline Dimensions (W x H x D)</b>	320.9 x 205.6 (max) x 3.0 (max.) mm
<b>Active Area</b>	309.4 x 173.95 mm
<b>Weight</b>	280g max.
<b>Diagonal Size</b>	14"
<b>Surface Treatment</b>	AG
<b>Touch enabled</b>	No
<b>Contrast Ratio</b>	300:1 (typ. - AG)
<b>Refresh Rate</b>	60Hz
<b>Brightness</b>	220 nits typ. (Panel Only)
<b>Format</b>	RGB
<b>Configuration</b>	1366 x 768
<b>Interface</b>	eDP 1.2
<b>LCD Mode</b>	TN
<b>PPI</b>	112
<b>Viewing Angle</b>	SVA 40/40/15/30

## 14.0" HD WLED BrightView (1366x768) SVA slim TOP, Touch

<b>Outline Dimensions (W x H x D)</b>	320.9 x 205.6 (max) x 3.2 (max.) mm
<b>Active Area</b>	309.4 x 173.95 mm
<b>Weight</b>	275g max.
<b>Diagonal Size</b>	14"
<b>Surface Treatment</b>	BV
<b>Touch enabled</b>	Yes
<b>Contrast Ratio</b>	500:1 (typ. - AG)
<b>Refresh Rate</b>	60Hz
<b>Brightness</b>	200 nits typ. (Panel Only)
<b>Format</b>	RGB
<b>Configuration</b>	1366 x 768

### Technical Specifications

<b>Interface</b>	eDP 1.2
<b>LCD Mode</b>	TN
<b>PPI</b>	112
<b>Viewing Angle</b>	SVA 40/40/15/30

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#### 14.0" FHD WLED AntiGlare (1920x1080) slim (3.0mm) UWVA, eDP

<b>Outline Dimensions (W x H x D)</b>	320.9 x 205.6 (max) x 3.0 (max.) mm
<b>Active Area</b>	309.31 x 173.99 mm
<b>Weight</b>	290g max.
<b>Diagonal Size</b>	14"
<b>Surface Treatment</b>	AG
<b>Touch enabled</b>	No
<b>Contrast Ratio</b>	600:1 (typ. - AG)
<b>Refresh Rate</b>	60Hz
<b>Brightness</b>	220 nits typ. (Panel Only)
<b>Format</b>	RGB
<b>Configuration</b>	19020x 1080
<b>Interface</b>	eDP 1.2
<b>LCD Mode</b>	IPS/FFS/AHVA
<b>PPI</b>	157
<b>Viewing Angle</b>	UWVA 85/85/85/85

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#### 14.0" FHD WLED BrightView (1920x1080) slim (3.0mm) UWVA, TOP Touch eDP

<b>Outline Dimensions (W x H x D)</b>	320.9 x 205.6 (max) x 3.2 (max.) mm
<b>Active Area</b>	309.31 x 173.99 mm
<b>Weight</b>	290g max.
<b>Diagonal Size</b>	14"
<b>Surface Treatment</b>	BV
<b>Touch enabled</b>	No

### Technical Specifications

<b>Contrast Ratio</b>	800:1 (typ. - AG)
<b>Refresh Rate</b>	60Hz
<b>Brightness</b>	220 nits typ. (Panel Only)
<b>Format</b>	RGB
<b>Configuration</b>	19020x 1080
<b>Interface</b>	eDP 1.2
<b>LCD Mode</b>	IPS/FFS/AHVA
<b>PPI</b>	157
<b>Viewing Angle</b>	UWVA 85/85/85/85

## NETWORKING/COMMUNICATIONS

### WLAN

#### Intel® Stone Peak 2 7265 802.11a/b/g/n/ac (2x2) WiFi and Bluetooth® 4.2 Combo

<b>Wireless LAN Standards</b>	<ul style="list-style-type: none"> <li>IEEE 802.11a</li> <li>IEEE 802.11b</li> <li>IEEE 802.11g</li> <li>IEEE 802.11n</li> <li>IEEE 802.11ac</li> </ul>
<b>Frequency Band</b>	<ul style="list-style-type: none"> <li>802.11b/g/n                             <ul style="list-style-type: none"> <li>• 2.402 – 2.482 GHz</li> </ul> </li> <li>802.11a/n                             <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> </li> </ul>
<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>	<ul style="list-style-type: none"> <li>Direct Sequence Spread Spectrum</li> <li>BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM</li> </ul>
<b>Security</b>	<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> </ul>

### Technical Specifications

	<ul style="list-style-type: none"> <li>• Cisco Certified Extensions, all versions through CCX4 and CCX Lite</li> <li>• WAPI</li> </ul>
<b>Network Architecture Models</b>	<p>Ad-hoc (Peer to Peer)</p> <p>Infrastructure (Access Point Required)</p>
<b>Roaming</b>	IEEE 802.11 compliant roaming between access points
<b>Output Power</b>	<ul style="list-style-type: none"> <li>• 802.11b : +14dBm minimum</li> <li>• 802.11g : +12dBm minimum</li> <li>• 802.11a : +12dBm minimum</li> <li>• 802.11n HT20(2.4GHz) : +12dBm minimum</li> <li>• 802.11n HT40(2.4GHz) : +12dBm minimum</li> <li>• 802.11n HT20(5GHz) : +10dBm minimum</li> <li>• 802.11n HT40(5GHz) : +10dBm minimum</li> <li>• 802.11ac VHT80(5GHz) : +10dBm minimum</li> </ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>• Transmit mode 2.0 W</li> <li>• Receive mode 1.6 W</li> <li>• Idle mode (PSP) 180 mW (WLAN Associated)</li> <li>• Idle mode 50 mW (WLAN unassociated)</li> <li>• Connected Standby 10mW</li> <li>• Radio disabled 8 mW</li> </ul>
<b>Power Management</b>	<p>ACPI and PCI Express compliant power management</p> <p>802.11 compliant power saving mode</p> <p>802.11b, 1Mbps : -93.5dBm maximum</p> <p>802.11b, 11Mbps : -84dBm maximum</p> <p>802.11a/g, 6Mbps : -86dBm maximum</p> <p>802.11a/g, 54Mbps : -72dBm maximum</p> <p>802.11n, MCS07 : -67dBm maximum</p> <p>802.11n, MCS15 : -64dBm maximum</p> <p>802.11ac, MCS0 : -84dBm maximum</p> <p>802.11ac, MCS9 : -59dBm maximum</p>
<b>Antenna type</b>	<p>High efficiency antenna with spatial diversity, mounted in the display enclosure</p> <p>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</b>	PCI-Express M.2 MiniCard
<b>Dimensions</b>	Type 2230 : 2.3 x 22.0 x 30.0 mm
<b>Weight</b>	Type 2230 : 2.8g
<b>Operating Voltage</b>	3.3v +/- 9%
<b>Temperature</b>	<p>Operating: 14° to 158° F (-10° to 70° C)</p> <p>Non-operating: -40° to 176° F (-40° to 80° C)</p>
<b>Humidity</b>	<p>Operating: 10% to 90% (non-condensing)</p> <p>Non-operating: 5% to 95% (non-condensing)</p>
<b>Altitude</b>	<p>Operating: 0 to 10,000 ft (3,048 m)</p> <p>Non-operating: 0 to 50,000 ft (15,240 m)</p>

### Technical Specifications

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

<b>HP Integrated Module with Bluetooth 4.0/4.1/4.2 Wireless Technology</b>	4.0/4.1/4.2 Compliant
<b>Frequency Band</b>	2402 to 2480 MHz
<b>Number of Available Channels</b>	Legacy : 0~79 (1 MHz/CH) BLE : 0~39 (2 MHz/CH)
<b>Data Rates and Throughput</b>	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)
<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>Power Consumption</b>	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 17 mW
<b>Electrical Interface</b>	USB 2.0 compliant
<b>Bluetooth Software Supported</b>	Microsoft Windows Bluetooth Software
<b>Link Topology</b>	
<b>Power Management</b>	Microsoft Windows ACPI, and USB Bus Support
<b>Certifications</b>	FCC (47 CFR) Part 15C, Section 15.247 & 15.249
<b>Power Management Certifications</b>	ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark
<b>Bluetooth Profiles Supported</b>	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)

### Technical Specifications

#### Advanced Audio Distribution Profile (A2DP)

## POWER

### HP 45W USB-C AC adapter

<b>Dimensions</b>	94.0mm*40.0mm*26.5mm
<b>Weight</b>	192.5g +/-10%
<b>Input</b>	100 to 240 VAC
	<b>Input Efficiency</b>
	Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec: 5V : 81.5% 9V: 86.7 12V : 87.8% 15V : 87.8%
	<b>Input frequency range</b>
	47 ~ 63Hz
	<b>Input AC current</b>
	Max. 1.4 A at 90 Vac
<b>Output</b>	<b>Output power</b>
	5V/15W ; 9V/27W ; 12V/36W ; 15V/45W
	<b>DC output</b>
	5V/9V/12V/15V
	<b>Hold-up time</b>
	5ms at 115 Vac input
	<b>Output current limit</b>
	<5.0A
<b>Connector</b>	USB Type-C
<b>Environmental Design</b>	<b>Operating temperature</b>
	32°F to 95°F (0°C to 35°C)
	<b>Non-operating temperature</b>
	-4°F to 185°F (-20°C to 85°C)
	<b>Altitude</b>
	0 to 16,400 ft (0 to 5000m)
	<b>Humidity</b>
	20% to 95%
	<b>Storage Humidity</b>
	10% to 95%
<b>EMI and Safety Certifications</b>	*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

### HP 2-cell Long Life Li-ion(47 Whr)

<b>Dimensions (H x W x L)</b>	3.89mm*240.8mm*76.4mm (0.153*9.48*3.01inch)
<b>Weight</b>	0.19kg (0.42lb)
<b>Cells/Type</b>	2 cell Lithium-Ion Polymer cell / 4473A9
<b>Voltage</b>	7.7V
<b>Amp-hour capacity</b>	6150mAH

### Technical Specifications

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<b>Watt-hour capacity</b>	47.3WH
<b>Temperature</b>	5°C~ 40°C
<b>Operating (Charging)</b>	0°C~ 45°C
<b>Operating (Discharging)</b>	-10°C~ 60°C
<b>Warranty</b>	Please check with MKT for Warranty
<b>Optional Travel Battery Available</b>	No

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### COUNTRY OF ORIGIN

China

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

Type	Description	Part Number	
<b>Cases</b>	HP Business Slim Top Load	H5M90AA	
	HP Essential Top Load Case (up to 15.6")	H2W17AA	
	HP Essential Backpack (up to 15.6")	H1D24AA	
<b>Docking</b>	HP USB-C Universal Dock	1MK33AA	
	HP USB-C Mini Dock	1PM64AA	
	HP USB-C Dock G4	3FF69AA	
<b>Input/Output</b>	HP 3-Button Laser Mouse	H4B81AA	
	HP Ultra Mobile Wireless Mouse	H6F25AA	
	HP USB Essential Keyboard/Mouse	H6L29AA	
	HP Ultra Mobile Wireless Mouse	H6F25AA	
	HP USB Optical Travel mouse	G1K28AA	
	HP Slim Bluetooth Mouse	F3J92AA	
	HP Essential USB Mouse	2TX37AA	
	HP Stereo USB Headset	T1A67AA	
	HP Stereo 3.5mm Headset	T1A66AA	
	HP USB-C to DP	N9K78AA	
	HP USB-C to HDMI 2.0 Adapter	1WC36AA	
	HP USB-C to USB HUB	Z6A00AA	
	HP USB to RJ45 Adapter	N7P47AA	
	<b>Power</b>	HP 45W USB-C G2 Power Adapter	1MZ01AA#ABA
		HP Notebook USB-C Power Bank	2NA10AA
<b>Storage</b>	HP External USB Optical Drive	F2B56AA	
<b>Security</b>	HP Nano Keyed Cable Lock	1AJ39AA	
<b>Displays</b>	HP EliteDisplay S240n 23.8-inch Monitor	W9A88AA	
	HP EliteDisplay S270n 27-inch Monitor	2PD37AA	
	HP EliteDisplay E273q 27-inch Monitor	1FH52AA	
	HP EliteDisplay E273m 27-inch Monitor	1FH51AA	

### Summary of Changes

<b>Date of change:</b>	<b>Version History:</b>		<b>Description of change:</b>
December 21, 2017	V1 to V2	Change	Power cord changed to 2.6m
January 9, 2018	V2 to V3	Added	Full-sized island-style, optional backlit, spill resistant, pick resistant
January 16, 2018	V3 to V4	Change	Battery life

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