

Overview

HP ProBook 640 G4



Right

- | | |
|-------------------------------|--|
| 1. Webcam (Select models) | 9. HDMI port (Cable not included) |
| 2. Webcam LED (Select models) | 10. USB 3.1 Gen 1 port |
| 3. Internal microphones (2) | 11. USB 3.1 Gen 1 charging port |
| 4. Power connector | 12. USB Type-C™ charging port |
| 5. MicroSD card slot | 13. HDD LED indicator |
| 6. Docking connector | 14. Fingerprint reader (Select models) |
| 7. VGA port | 15. Clickpad |
| 8. Ethernet port | |

Overview



Left

1. Smart Card Reader (Select models)
2. Audio combo jack
3. USB 3.1 Gen 1 port
4. Security lock slot (Lock sold separately)
5. Power button

Overview

AT A GLANCE

- Windows 10 versions or FreeDOS 2.0
- Precision-crafted slim design with fingerprint resistant modern, fresh and comfortable natural silver finish
- Choice of 8th Generation Intel® Core™processors, with integrated graphics or optional AMD Radeon™ RX540 128 bit Discrete Graphics
- HP Advanced keyboard, spill resistant with optional backlit design
- Large Clickpad with gestures support
- Enhanced security features including TPM2.0, HP Privacy Camera, optional Smart Card Reader, optional Finger Print Reader, and HP Sure Start Gen4.
- LED-backlit display
35.56 cm (14") diagonal HD and FHD or Touch FHD with camera and with WWAN
- HDMI port for connecting to high-resolution displays
- Optional HD webcam with dual-microphone array for video conferencing
- Three USB 3.1 Gen1 ports (1 charging) and one USB-C port (PD+DP, Gen1)
- Flexible wireless connectivity options
- Battery life up to 14.5 hours with fast charging technology
- Dual storage combines SSD fast boot up and app access with cost effective HDD mass storage
- Passed MIL-STD 810G testing¹

1. MIL-STD-810G testing is conducted on select HP products. Testing is not intended to demonstrate fitness of U.S. Department of Defense (DoD) 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.

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

Technical Specifications

PRODUCT NAME

HP ProBook 640 G4

OPERATING SYSTEM

Preinstalled

Windows 10 Pro 64¹
Windows 10 Pro 64 (National Academic only)^{1,2}
Windows 10 Home 64¹
Windows 10 Home Single Language 64¹
FreeDOS 2.0

1. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com/>.

2. Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see <https://aka.ms/ProEducation> for Windows 10 Pro Education feature information.

PROCESSORS

Intel® Core™ i7-8650U with Intel® UHD graphics 620

(1.9 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores)^{3,4,5}

Intel® Core™ i7-8550U with Intel® UHD graphics 620

(1.8 GHz base frequency, up to 4 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores)^{3,4,5}

Intel® Core™ i5-8350U with Intel® UHD Graphics 620

(1.7 GHz base frequency, up to 3.6 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores)^{3,4,5}

Intel® Core™ i5-8250U with Intel® UHD Graphics 620

(1.6 GHz base frequency, up to 3.4 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores)^{3,4,5}

Intel® Core™ i5-7300U with Intel® HD Graphics 620

(2.6 GHz base frequency, up to 3.5 GHz with Intel® Turbo Boost Technology, 3 MB cache, 2 cores)^{3,4,5}

Intel® Core™ i5-7200U with Intel® HD Graphics 620

(2.5 GHz base frequency, up to 3.1 GHz with Intel® Turbo Boost Technology, 3 MB cache, 2 cores)^{3,4,5}

Intel® Core™ i3-8130U with Intel® HD Graphics 620

(2.2 GHz, 4 MB cache, 2 cores)^{3,4,5,6}

Processor Family

8th Generation Intel® Core™ i7 processor (i7-8650U, i7-8550U models)⁵

8th Generation Intel® Core™ i5 processor (i5-8350U, i5-8250U models)⁵

8th Generation Intel® Core™ i3 processor (i3-8130U model)^{5,6}

7th Generation Intel® Core™ i5 processor (i5-7300U, i5-7200U models)⁵

3. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

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

5. 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>.

6. Intel® Core™ i3-8130U processor is planned to be available in 2Q 2018.

Technical Specifications

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

Intel® UHD graphics 620⁷

Intel® HD graphics 620⁷

Note: View processor section for details.

Discrete

AMD Radeon™ RX540 (2 GB GDDR5 dedicated)⁸

7. HD content required to view HD images.

8. AMD Dynamic Switchable Graphics technology requires an Intel processor, plus an AMD Radeon™ discrete graphics configuration and is not available on FreeDOS and Linux OS. With AMD Dynamic Switchable Graphics technology, full enablement of all discrete graphics video and display features may not be supported on all systems (e.g. OpenGL applications will run on the integrated GPU or the APU as the case may be).

DISPLAY

Non-Touch HD

35.56 cm (14") diagonal HD SVA eDP anti-glare LED-backlit, 220 cd/m², 45% sRGB (1366 x 768)^{7,9}

35.56 cm (14") diagonal HD SVA eDP anti-glare LED-backlit, 220 cd/m², 45% sRGB, for camera (1366 x 768)^{7,9}

35.56 cm (14") diagonal HD SVA eDP anti-glare LED-backlit, 220 cd/m², 45% sRGB, for WWAN (1366 x 768)^{7,9}

35.56 cm (14") diagonal HD SVA eDP anti-glare LED-backlit, 220 cd/m², 45% sRGB, for camera and WWAN (1366 x 768)^{7,9}

Non-Touch FHD

35.56 cm (14") diagonal FHD IPS eDP anti-glare LED-backlit, 220 cd/m², 45% sRGB (1920 x 1080)^{7,9}

35.56 cm (14") diagonal FHD IPS eDP anti-glare LED-backlit, 220 cd/m², 45% sRGB, for camera (1920 x 1080)^{7,9}

35.56 cm (14") diagonal FHD IPS eDP anti-glare LED-backlit, 220 cd/m², 45% sRGB, for WWAN (1920 x 1080)^{7,9}

35.56 cm (14") diagonal FHD IPS eDP anti-glare LED-backlit, 220 cd/m², 45% sRGB, for camera and WWAN (1920 x 1080)^{7,9}

Non-Touch FHD Privacy Panel

HP Sure View Integrated Privacy Screen 35.56 cm (14") diagonal FHD IPS eDP anti-glare LED-backlit, 700 cd/m², 72% sRGB (1920 x 1080)^{7,9,10}

Touch FHD

35.56 cm (14") diagonal FHD IPS eDP LED-backlit touch screen, 220 cd/m², 45% sRGB, for camera and WWAN (1920 x 1080)^{7,9}

7. HD content required to view HD images.

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

10. HP Sure View is optional and must be configured at purchase.

Technical Specifications

STORAGE AND DRIVES

Primary Storage

500 GB 7200 rpm¹¹
500 GB 7200 rpm Self Encrypting Drive (FIPS-140-2)¹¹
1 TB 7200 rpm¹¹

Primary M.2 Storage

16GB PCIe NVMe 3D X (Need to work with HDD) (Planned to be available in 2Q 2018)
118GB PCIe NVMe 3D X (Planned to be available in 3Q 2018)
128 GB SATA-3 SS TLC¹¹
256 GB SATA-3 TLC OPAL2¹¹
256 GB PCIe NVMe SS Value¹¹
256 GB PCIe Gen3x4 NVMe SS TLC¹¹
360 GB Intel PCIe Gen3x4 NVMe SS TLC¹¹
512 GB SATA SS TLC (FIPS)¹¹
512 GB PCIe Gen3x4 NVMe SS TLC¹¹
1 TB PCIe Gen3x4 NVMe SS TLC¹¹

11. 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 SDRAM¹²

Memory

4 GB Total System Memory (4 GB x 1)¹²
8 GB Total System Memory (4 GB x 2)¹²
8 GB Total System Memory (8 GB x 1)¹²
12 GB Total System Memory (8 GB + 4 GB)¹²
16 GB Total System Memory (16 GB x 1)¹²
16 GB Total System Memory (8 GB x 2)¹²
32 GB Total System Memory (16 GB x 2)¹²

Memory Slots

2 SODIMM
Both slots are customer accessible / upgradeable
DDR4 PC4 SODIMMS - System supports run rate at 2133 in 7th Gen Processor, 2400 in 8th Gen processor
Supports Dual Channel Memory

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.

Technical Specifications

NETWORKING/COMMUNICATIONS

WLAN

Intel® Dual Band Wireless-AC 3168 802.11a/b/g/n/ac (1x1) Wi-Fi® and Bluetooth® 4.2 Combo, non-vPro™¹³

Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, vPro™¹³

Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, non-vPro™¹³

Realtek RTL8822BE 802.11ac 2x2 Wi-Fi® and Bluetooth® 4.2 Combo Adapter¹³

Realtek RTL8821CE 802.11ac 1x1 Wi-Fi® and Bluetooth® 4.2 Combo Adapter¹³

WWAN

LTE CAT4: Huawei HP Lt4132, LTE/HSPA+ w/GPS M.2¹⁴

LTE CAT9: Fibocom Intel(R) XMM(TM) 7360 LTE-Advanced Lt4210 LTE/HSPA+ w/GPS¹⁴

NFC

NXP NPC300 Near Field Communication Module¹⁴

WPAN Bluetooth

Bluetooth® 4.2 supported via all supported WLAN modules¹⁵

Ethernet

Intel® Ethernet Connection I219-LM 10/100/1000 (vPro™)¹⁶

Intel® Ethernet Connection I219-V 10/100/1000 (Non-vPro™)¹⁶

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. 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.

15. Sold separately or as an optional feature.

16. The term ""10/100/1000"" or ""Gigabit"" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

AUDIO/MULTIMEDIA

Audio

2 Integrated stereo speakers

Integrated dual array microphone

Webcam

720p HD HP Privacy Camera^{7,15,17}

7. HD content required to view HD images.

15. Sold separately or as an optional feature.

17. Internet access required.

Technical Specifications

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Advanced Keyboard
ClickPad, Spill-resistant with drain
ClickPad, Spill-resistant with drain, DuraKeys & Backlit
Dual Point, Spill-resistant with drain, DuraKeys & Backlit
Dual Point, Spill-resistant with drain, DuraKeys & Backlit Privacy

Function Keys

ESC: system information
F1 - Display Switching
F2 - Blank or Privacy
F3 - Brightness Down
F4 - Brightness Up
F5 - Speaker Mute
F6 - Volume Down
F7 - Volume Up
F8 - Mic Mute
F9 - Backlight Toggle (for backlit keyboard) or Blank
F10 - NumLock
F11 - Wifi Toggle
F12 - Sleep

Clickpad requirements:

On/off control by driver
Taps enabled as default
Gestures:
(Win 10):
Disabled by default:
3 Finger Flick
2 Finger Rotate
Momentum Motion
1 Finger Vertical Scroll
Win 10:
Support PTP with Miniport driver
Settings enabled by default by MSFT:
2 Finger Scrolling
2 Finger Zoom (Pinch)
OSD (enable/disable)
3 finger tap - Cortana
3 finger flick - App switch
4 finger tap - Action Center

Technical Specifications

SOFTWARE AND SECURITY

Preinstalled Software

BIOS

HP BIOSphere Gen4¹⁸
HP DriveLock & Automatic DriveLock
BIOS Update via Network
Master Boot Record Security
Power On Authentication
Secure Erase¹⁹
Absolute Persistence Module²⁰
Pre-boot Authentication
HP Wireless Wakeup

Software

HP Native Miracast Support²¹
HP LAN-Wireless Protection
HP Velocity
HP 3D DriveGuard
HP ePrint + JetAdvantage²²
HP Hotkey Support - CMIT
HP Recovery Manager
HP Jumpstart
HP Support Assistant²³
HP Noise Cancellation Software
HP Host Based MAC Address Manager
HP PhoneWise²⁹
Buy Office

Manageability Features

HP Driver Packs²³
HP System Software Manager (SSM)
HP BIOS Config Utility (BCU)
HP Client Catalog
HP Manageability Integration Kit Gen2²⁴
Ivanti Management Suite²⁵

Client Security Software

HP Client Security Suite Gen4 including:²⁶
HP Security Manager²⁷ (including Credential Manager, HP Password Manager, HP Spare Key)
Power On Authentication
HP Fingerprint Sensor³⁰

Technical Specifications

HP Device Access Manager
Microsoft Defender²⁸

Security Management

Secure Erase¹⁹
TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified)
SATA 0,1 port disablement (viaBIOS)
RAID configurations³¹
Serial, USB enable/disable (viaBIOS)
Power-on password (viaBIOS)
Setup password (viaBIOS)
Support for chassis padlocks and cable lock devices
Integrated hood sensor
HP Sure Click³²
HP Sure Start Gen4

Security

TPM

Model: TPM SLB9670 VQ2.0 FW7.63RS3 913310-002
Version: TPM 2.0
Revision: 1.16
FIPS 140-2 Compliant: No

Smartcard Reader

Model number: Alcor AU9560
FIPS 201 Compliant: Yes

IPv6 Certification

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

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

Yes

UEFI version: 2.5

Technical Specifications

18. HP BIOSphere Gen4 features may vary depending on the PC platform and configurations. Requires Intel® or AMD 8th generation processors.
19. Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88. Supported on Elite platforms with BIOS version F.03 or higher.
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. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming
22. 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 <http://www.hp.com/go/eprintcenter>). Print times and connection speeds may vary.
23. HP Support Assistant requires Windows and Internet access.
23. HP Driver Packs not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.
24. HP Manageability Integration Kit can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>
25. Ivanti Management Suite subscription required.
26. HP Client Security Suite Gen 4 requires Windows and Intel® or AMD 8th generation processors.
27. 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.
28. Microsoft Defender Opt in and internet connection required for updates.
29. HP PhoneWise Client is only available on select platforms. For supported platforms and HP PhoneWise system requirements see www.hp.com/go/HPPhoneWise.
30. HP Fingerprint Sensor sold separately or as an optional feature.
31. RAID configuration is optional and does require a second hard drive.
32. HP Sure Click is available on select HP platforms and supports Microsoft® Internet Explorer and Chromium™. Check <http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-0922ENW> for all compatible platforms as they become available.

Technical Specifications

POWER

Power Supply

HP Smart 45 W right angle 4.5 mm AC Adapter³³

HP Smart 65 W right angle 4.5 mm AC Adapter³³

HP Smart 45 W right angle 4.5 mm AC Adapter 2-prong (Japan only)³³

45W Straight USB Type C AC Adapter

65W Straight USB Type C AC adapter

Primary Battery

HP Long Life 3-cell, 48 Wh Li-ion³⁴

HP Fast Charge Technology - 90% in 90minutes

Power Cord

3-wire plug (C5), 1.8m, Sticker, Conventional³³

3-wire plug (C5), 1.0m, Sticker, Conventional³³

2-wire plug (C5), 1.0m, Sticker, Conventional (Japan only)³³

Duckhead power cord (C5) 1.0m, Sticker, Premium (For USB Type C AC adapters)

Duckhead power cord (C5) 1.8m, Sticker, Premium (For USB Type C AC adapters)

Battery Life

Up to 14 hours and 15 minutes with Intel 7th Gen CPU (with SSD)³⁵

Up to 14 hours and 30 minutes with Intel 8th Gen CPU³⁵

33. Availability may vary by country.

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

35. Windows 10 MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See <http://www.bapco.com> for additional details.

WEIGHTS & DIMENSIONS

Weight

Starting at 3.8 lb (non-touch); Starting at 4.26 lb (touch)³⁶

Starting at 1.73 kg (non-touch); Starting at 1.93 kg (touch)³⁶

Dimensions (w x d x h)

Non-touch

13.4 x 9.5 x 0.83 in

34 x 24 x 2.095 cm

Touch

13.4 x 9.5 x 0.87 in

34 x 24 x 2.195 cm

36. Weight will vary by configuration.

Technical Specifications

PORTS/SLOTS

Ports

- 1 USB 3.1 Type-C™ (charging)
- 1 USB 3.1 Gen 1 (charging)
- 2 USB 3.1 Gen 1
- 1 HDMI 1.4³⁷
- 1 RJ-45
- 1 VGA
- 1 headphone/microphone combo
- 1 AC power

Expansion Slots

- 1 docking connector
- 1 microSD (multi-format digital media reader)

³⁷. HDMI cable sold separately.

ENVIRONMENTAL & INDUSTRY

Environmental Data	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: <ul style="list-style-type: none"> • IT ECO declaration • US ENERGY STAR® • EPEAT[®] Gold registered in the United States. See http://www.epeat.net for registration status in your country. Search keyword <i>generator</i> on HP's 3rd party option store for solar energy accessory at http://www.hp.com/go/options 		
	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 (Short idle)	4.12 W	4.38 W	4.22 W
	Normal Operation (Long idle)	1.85 W	1.54 W	1.82 W
	Sleep	0.43 W	0.44 W	0.43 W
	Off	0.30 W	0.31 W	0.30 W

Technical Specifications

	<p>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.</p>		
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation (Short idle)	4.12 W	4.38 W	4.22 W
Normal Operation (Long idle)	1.85 W	1.54 W	1.82 W
Sleep	0.43 W	0.44 W	0.43 W
Off	0.30 W	0.31 W	0.30 W
	<p>*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.</p>		
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L _{WAd} , bels)	Sound Pressure (L _{pAm} , decibels)	
Typically Configured – Idle	3.1	22.7	
Fixed Disk – Random writes	3.3	26.7	
Longevity and Upgrading	<p>"This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include:</p> <p>Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.</p>		
Batteries	<p>"This battery(s) in this product comply with EU Directive 2006/66/EC</p> <p>Batteries used in the product do not contain: Mercury greater the 1ppm by weight Cadmium greater than 20ppm by weight</p> <p>Battery size: CR2032 (coin cell) Battery type: lithium/manganese dioxide "</p>		

Technical Specifications

	Additional Information	<ul style="list-style-type: none"> • "• 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 Gold level, see www.epeat.net • • Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. • • This product contains 0% post-consumer recycled plastic (by wt.) • • This product is 94.4% recycle-able when properly disposed of at end of life." 		
	Packaging Materials	External:	PAPER/Corrugated	276 g
		Internal:	PLASTIC/EPE (Expanded Polyethylene)	53 g
			PLASTIC/Polyethylene low density	13 g
			PLASTIC/Polypropylene - PP	4 g
		The plastic packaging material contains at least 50% recycled content.		
		The corrugated paper packaging materials contains at least 75% recycled content.		
	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): <ul style="list-style-type: none"> • Asbestos • Certain Azo Colorants • Certain Brominated Flame Retardants – may not be used as flame retardants in plastics • Cadmium • Chlorinated Hydrocarbons • Chlorinated Paraffins • Formaldehyde • Halogenated Diphenyl Methanes • Lead carbonates and sulfates • Lead and Lead compounds • Mercuric Oxide Batteries • Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user. • Ozone Depleting Substances • Polybrominated Biphenyls (PBBs) • Polybrominated Biphenyl Ethers (PBBEs) • Polybrominated Biphenyl Oxides (PBBOs) • Polychlorinated Biphenyl (PCB) • Polychlorinated Terphenyls (PCT) • Polyvinyl Chloride (PVC) – except for wires and cables, has been voluntarily removed from most applications. • Radioactive Substances • Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO) 		

Technical Specifications

	Packaging Usage	<p>HP follows these guidelines to decrease the environmental impact of product packaging:</p> <ul style="list-style-type: none"> • 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	<p>Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.</p> <p>The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.</p>
	HP, Inc. Corporate Environmental Information	<p>For more information about HP's commitment to the environment:</p> <p>Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html</p> <p>Eco-label certifications http://www8.hp.com/us/en/hp-information/environment/ecolabels.html</p> <p>ISO 14001 certificates: http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf</p>

SERVICE AND SUPPORT

HP Services offers 3 year and 1 year limited warranties and 90 day support 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. 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>³⁸

Technical Specifications

38. HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit <http://www.hp.com/go/cpc>. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.

Technical Specifications

SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)	Nominal Operating Voltage	19V
	Average Operating Power	Win 10
	Integrated Graphics	6.78W
	Discrete Graphics	18W
	Max Operating Power	Discrete < 65W UMA < 45W
Temperature	Operating	32° to 95° F (0° to 35° C) (not writing optical) 41° to 95° F (5° to 35° C) (writing optical)
	Non-operating	-4° to 140° F (-20° to 60° C)
Relative Humidity	Operating	10% to 90%, non-condensing
	Non-operating	5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature
Shock	Operating	40 G, 2 ms, half-sine
	Non-operating	200 G, 2 ms, half-sine
Random Vibration	Operating	0.75 grms
	Non-operating	1.50 grms
Altitude (unpressurized)	Operating	-50 to 10,000 ft (-15.24 to 3,048 m)
	Non-operating	-50 to 40,000 ft (-15.24 to 12,192 m)
Planned Industry Standard Certifications	UL	Yes
	CSA	Yes
	FCC Compliance	Yes
	ENERGY STAR®	Select models ³⁹
	EPEAT®	Registered Gold in United States ⁴⁰
	ICES	Yes
	Australia / 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	Yes	
	UKRSERTCOMPUTER	

39. Configurations of the HP Probook 640 G4 that are ENERGY STAR® qualified are identified as HP Probook 640 G4 ENERGY STAR on HP websites and on <http://www.energystar.gov>.

40. 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>.

Technical Specifications

DISPLAYS

14" diagonal FHD UWVA anti-glare flat LED backlit non-touch; 220 cd/m²; 45% sRGB (1920 x 1080)	Outline Dimensions (W x H)	320.9x205.6 (max)
	Active Area	309.31 x 173.99
	Weight	290 max.
	Diagonal Size	14 (inch)
	Thickness	3.0mm max
	Interface	eDP 1.2
	Surface Treatment	Anti-Glare (AG)
	Touch Enabled	None
	Contrast Ratio	600:1 (typ) - AG
	Refresh Rate	60Hz
	Brightness	220 nits
	Pixel Resolution	1920 x 1080 (FHD)
	Format	RGB
	Backlight	LED
	Color Gamut Coverage	45%
Color Depth	6 bits + Hi FRC	
Viewing Angle	UWVA 85/85/85/85	

Technical Specifications

14" diagonal FHD UWVA anti-glare flat LED backlit touch; 220 cd/m²; 45% sRGB (1920 x 1080)	Outline Dimensions (W x H)	320.9x205.6 (max)
	Active Area	309.31 x 173.99
	Weight	290 max.
	Diagonal Size	14 (inch)
	Thickness	3.0mm max
	Interface	eDP 1.2
	Surface Treatment	BV
	Touch Enabled	Yes
	Contrast Ratio	600:1 (typ) - AG
	Refresh Rate	60Hz
	Brightness	220 nits
	Pixel Resolution	1920 x 1080 (FHD)
	Format	RGB
	Backlight	LED
	Color Gamut Coverage	45%
	Color Depth	6 bits + Hi FRC
Viewing Angle	UWVA 85/85/85/85	

Technical Specifications

14" diagonal HD SVA anti-glare LED-backlit non-touch; 220 cd/m²; 45% sRGB (1366 x 768)	Outline Dimensions (W x H)	320.9 x 205.6 (mm) max
	Active Area	309.40 x 173.95 (mm)
	Weight	290 g max
	Diagonal Size	14 (inch)
	Thickness	3.0 (mm) max
	Interface	eDP 1.2
	Surface Treatment	Anti-Glare (AG)
	Touch Enabled	None
	Contrast Ratio	300:1 (typical)
	Refresh Rate	60 Hz
	Brightness	220 nits
	Pixel Resolution	1366 x 768 (HD)
	Format	RGB
	Backlight	LED
	Color Gamut Coverage	45%
	Color Depth	6 bits + Hi FRC
Viewing Angle	SVA 40/40/15/30	

Technical Specifications

Panel LCD 14 inch FHD (1920x1080) Anti-Glare WLED UWVA 72percent cg 700nits eDP 1.3+PSR ultraslim	Outline Dimensions (W x H)	315.41 x 196.14 mm max.
	Active Area	309.312 x 173.988
	Weight	225g max.
	Diagonal Size	14.0 inch
	Thickness	2.40 mm max.
	Interface	eDP 1.3
	Surface Treatment	Anti-glare (AG)
	Touch Enabled	N/A
	Contrast Ratio	600:1 typ. @ sharing 150:1 typ. @ privacy
	Refresh Rate	120Hz
	Brightness	700 nits typ. @ sharing 350 nits typ. @ privacy
	Pixel Resolution	1920 x 1080 (FHD)
	Format	RGB
	Backlight	LED
	Color Gamut Coverage	72%
	Color Depth	6 bits + Hi FRC
Viewing Angle	UWVA 85/85/85/85	

Technical Specifications

STORAGE

HDD 500 GB 7200RPM 7mm SATA	Drive Weight	0.21 lbs (95 g)
	Rotation speed	7200RPM
	Cache Buffer	Up to 32MB
	Height	0.28 in (7 mm)
	Width	2.75 in (69.85 mm)
	Interface	ATA-8, SATA 3.0
	Transfer Rate	600 MB/s
	Seek Time	Single Track: 2 ~ 1.5 ms; Average: 11 ~ 13 ms; Maximum: 18 ~ 22 ms
	Logical Blocks	976773168
	Operating Temperature	32° to 140°F (0° to 60°C) [ambient temp]
	Security Features	ATA Security
	Features	S.M.A.R.T., NCQ, Ultra DMA

HDD 500 GB 7200RPM 7mm FIPS SATA Opal2	Drive Weight	0.21 lbs (95 g)
	Rotation speed	7200 rpm
	Cache Buffer	Up to 32MB
	Height	n/a
	Width	0.28 in (7 mm)
	Interface	2.75 in (69.85 mm)
	Transfer Rate	ATA-8, SATA 3.0
	Seek Time	Single Track: 2 ~ 1.5 ms; Average: 11 ~ 13 ms; Maximum: 18 ~ 22 ms
	Logical Blocks	976,773,168
	Operating Temperature	32° to 140°F (0° to 60°C) [ambient temp]
	Security Features	ATA Security; TCG Opal 2.x, FIPS
	Features	S.M.A.R.T., NCQ, Ultra DMA

Technical Specifications

HDD 1 TB 7200RPM 7mm SATA 2.5in	Drive Weight	90g
	Rotation speed	7200rpm
	Cache Buffer	128MB
	Height	7.2mm Max.
	Width	69.85mm
	Interface	ATA-8, SATA 3.0
	Transfer Rate	600 MB/s
	Seek Time	Single Track: 1.5 ms; Average: 13 ms; Maximum: 32 ms
	Logical Blocks	1,953,525,168
	Operating Temperature	0~60°C
	Security Features	ATA Security
	Features	S.M.A.R.T., NCQ, Ultra DMA, TRIM

SSD 128 GB 2280 M2 SATA-3 TLC	Drive Weight	0.02 lb (10 g)
	Capacity	128GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	ATA-8, SATA 3.0
	Maximum Sequential Read	Up To 520 MB/s
	Maximum Sequential Write	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

Technical Specifications

SSD 256 GB 2280 M2 PCIe-3x4 SS NVMe TLC	Drive Weight	0.02 lb (10 g)
	Capacity	256GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	Up To 2600 MB/s
	Maximum Sequential Write	Up To 900 MB/s
	Logical Blocks	500,118,192
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
Features	TRIM; L1.2	

SSD 256 GB 2280 M2 SATA-3 Self Encrypted OPAL2 TLC	Drive Weight	0.02 lb (10 g)
	Capacity	256GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	ATA-8, SATA 3.0
	Maximum Sequential Read	Up To 530 MB/s
	Maximum Sequential Write	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	

256 GB 2280 PCIe NVMe Value Solid State Drive	Drive Weight	0.02 lb (10 g)
	Capacity	256GB
	NAND Type	MLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	Up To 1700 MB/s
	Maximum Sequential Write	Up To 600 MB/s
	Logical Blocks	703,282,608
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
Features	TRIM; L1.2	

Technical Specifications

SSD 512 GB 2280 M2 PCIe-3x4 SS NVMe TLC	Drive Weight	0.02 lb (10 g)
	Capacity	512GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	Up To 2600 MB/s
	Maximum Sequential Write	Up To 1400 MB/s
	Logical Blocks	1,000,215,216
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
Features	TRIM; L1.2	

SSD 512 GB 2280 M2 SATA-3 TLC FIPS	Drive Weight	0.02 lb (10 g)
	Capacity	512GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	ACS-3, SATA 3.2
	Maximum Sequential Read	Up To 530 MB/s
	Maximum Sequential Write	Up To 400 MB/s
	Logical Blocks	1,000,215,216
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
Features	DIPM; TRIM; DEVSLP	

SSD 1 TB 2280 PCIe-3x4 NVMe TLC SS	Drive Weight	0.02 lb (10 g)
	Capacity	1TB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	2900
	Maximum Sequential Write	2000
	Logical Blocks	2000409263
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
Features	TRIM; L1.2	

Technical Specifications

SSD 16 GB 2280 PCIe-3x2 NVMe 3D Xpoint	Form Factor	M.2 2280
	Capacity	16 GB
	NAND Type	Xpoint
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	PCIe NVMe Gen3X2
	Maximum Sequential Read	1400
	Maximum Sequential Write	300
	Logical Blocks	28,181,188
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	L1.2

SSD 360 GB 2280 PCIe-3x4 NVMe Three Layer Cell	Form Factor	M.2 2280
	Capacity	360GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	1700
	Maximum Sequential Write	600
	Logical Blocks	703,282,608
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	TRIM; L1.2

Technical Specifications

POWER

AC Adapter 65 Watt nPFC USB type C™	Dimensions	74x74x28.5mm		
	Weight	unit: 245g +/- 10g		
	Input	Input Efficiency	81.5% min at 115 Vac/ 230Vac @ 5V/3A 86.7% min at 115 Vac/ 230Vac @ 9V/3A 88% min at 115 Vac/ 230Vac @ 10V/5A 88% min at 115 Vac/ 230Vac @ 12V/5A 89% min at 115 Vac/ 230Vac @ 15V/4.33A 89% min at 115 Vac/ 230Vac @ 20V/3.25A	
		Input frequency range	47 ~ 63 Hz	
		Input AC current	1.7 A at 90 VAC and maximum load	
		Output	Output power	65W
			DC output	5V/9V/10V/12V/15V/20V
	Hold-up time		5ms at 115 Vac input	
	Connector	Output current limit	<8.0A	
	Environmental Design	Duck head / duck head power cord, without Smart ID DC connector		
Operating temperature		32°F to 95°F (0° to 35°C)		
Non-operating (storage) temperature		-4°F to 185°F (-20° to 85°C)		
Altitude		0 to 16,400 ft (0 to 5000m)		
Humidity		5% to 95%		
EMI and Safety Certifications	Storage Humidity	5% to 95%		
	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.			

Technical Specifications

AC Adapter 45 Watt nPFC USB type C	Dimensions	62.0x62.0x28.5mm
	Weight	unit: 220g +/- 10g
Output	Input	Input Efficiency
		Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec:5V : 81.5%9V : 86.7%10V : 87.5%12V : 87.8%15V : 87.8%20V : 87.8%
		Input frequency range
		47 ~ 63Hz
		Input AC current
		Max. 1.4 A at 90 Vac
		Output power
		5V/15W 9V/27W 10V/37.5W 12V/45W 15V/45W 20V/45W
		DC output
		5V / 9V / 10V /12V / 15V / 20V
	Hold-up time	5ms at 115 Vac input
	Output current limit	<5.0A
Connector	USB Type-C™	
Environmental Design	Operating temperature	32°F to 95°F (0°to 35°C)
	Non-operating (storage) temperature	-4°F to 185°F (-20°to 85°C)
	Altitude	0 to 16,400 ft (0 to 5000m)
	Humidity	20% to 95%
	Storage Humidity	10% to 95%
Safety Certifications	CE Mark - full compliance with LVD and EMC directives Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. MTBF - over 200,000 hours at 25°C ambient condition.	

Technical Specifications

HP 45W Smart AC adapter	Dimensions	3.74 x 1.57 x 1.04 in (9.5 x 4.0 x 2.65 cm)	
	Weight	0.386 lb (175g) max	
Output	Input	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 power	45W	
	DC output	19.5V	
	Hold-up time	5ms at 115 VAC input	
	Output current limit	<8.0A	
Connector	4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords		
Environmental Design	Operating temperature	32°F to 95°F (0° to 35°C)	
	Non-operating (storage) temperature	-4°F to 185°F (-20° to 85°C)	
	Altitude	0 to 16,400 ft (0 to 5000m)	
	Humidity	20% to 95%	
Safety Certifications	Storage Humidity	10% to 95%	
	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 65W Smart AC adapter	Dimensions	107.0x47.0x30.0mm	
	Weight	unit: 250g +/- 10g	
Output	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 power	65W	
	DC output	19.5V	
	Hold-up time	5ms at 115 Vac input	
	Output current limit	<11.0A	
Connector	4.5mm Barrel Type		
Environmental Design	Operating temperature	32° to 95° F (0° to 35° C)	
	Non-operating (storage) temperature	-4° to 185° F (-20° to 85° C)	
	Altitude	0 to 16,400 ft (0 to 5000m)	
	Humidity	20% to 95%	
Safety Certifications	Storage Humidity	10% to 95%	
	CE Mark - full compliance with LVD and EMC directives		
	Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. MTBF - over 200,000 hours at 25°C ambient condition.		

Technical Specifications

Battery CD 3 Cell WHr 48 Long Life -PR+PL Fast Charge	Dimensions (H x W x L)	8.05. x185.15x95 mm
	Weight	0.26 kg
	Cells/Type	3cell Lithium-Ion Polymer cell / 606072
	Energy	Voltage 11.4V
		Amp-hour capacity 4.212Ah /4.0Ah
		Watt-hour capacity 48Wh
	Temperature	Operating (Charging) 32° to 113° F (0° to 45° C)
		Operating (Discharging) 14° to 122° F (-10° to 60° C)
	Fuel Gauge LED	N/A
	Warranty	3 years ⁶
Optional Travel Battery Available	No	

COUNTRY OF ORIGIN

China

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

Type	Description	Part #
Cases	HP 15.6 Business Top Load	2SC66AA
	HP Slim Top Load	F3W15AA
	HP Slim Backpack	F3W16AA
Docking	HP 2013 UltraSlim Docking Station	D9Y32AA
	HP USB-C Dock G4	3FF69AA
	HP USB-C Universal Dock	1MK33AA
Input/Output	HP Slim USB Keyboard and Mouse	T6T83AA
	HP Slim Wireless Keyboard and Mouse	T6L04AA
	HP Ultra Mobile Wireless Mouse	H6F25AA
	HP Comfort Grip Wireless Mouse	H2L63AA
	HP Wireless Premium Mouse	1JR31AA
	HP Slim Bluetooth Mouse	F3J92AA
	HP USB Premium Mouse	1JR32AA
	HP USB Travel Mouse	G1K28AA
	HP Elite Presenter Mouse	2CE30AA
	HP HDMI to DVI Adapter	F5A28AA
	HP HDMI to VGA	H4F02AA
	HP USB-C to DP	N9K78AA
	HP USB-C to USB-A Hub	Z6A00AA
	HP USB-C to VGA	N9K76AA
	HP Stereo 3.5mm Headset	T1A66AA
HP Stereo USB Headset	T1A67AA	
Power	HP 45W Smart AC Adapter	H6Y88AA
	HP 65W Smart AC Adapter	H6Y89AA
	HP 45W USB-C Power Adapter	1HE07AA
	HP 65W USB-C Power Adapter	1HE08AA
	HP USB-C Notebook Power Bank	2NA10AA
Storage	HP External USB Optical Drive	F2B56AA
	HP 128GB TLC M.2 SATA-3	2JB95AA
	HP 256GB TLC PCIe 3x4 NVMe M.2 SSD	1FU87AA
	HP 512GB TLC PCIe 3x4 NVMe M.2 SSD	1FU88AA
Security	HP Docking Station Cable Lock	AU656AA#XXX
	HP 14.0" Notebook Privacy Filter	J6E65AA
	HP Keyed Cable Lock 10mm	T1A62AA

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

Memory	HP 4GB DDR4 Memory	Z4Y84AA
	HP 8GB DDR4 Memory	Z4Y85AA
	HP 16GB DDR4 Memory	Z4Y86AA
UCC	HP Wireless Collaboration Keyboard	Z9N39AA
	HP USB Collaboration Keyboard	Z9N38AA
	HP UC Speaker Phone	K7V16AA
	HP UC Wireless Mono Headset	W3K08AA
	HP UC Wireless Duo Headset	W3K09AA
Displays	HP ProDisplay P223 21.5-inch Monitor	X7R61AA
	HP ProDisplay P240va 23.8-inch Monitor	N3H14AA
	HP EliteDisplay E243 23.8-inch Monitor	1FH47AA

Summary of Changes

Date of change:	Version History:	Update	Description of change:
March 6, 2018	Pre V1	Change	256 GB 2280 PCIe NVMe Value Solid State Drive capacity fixed to 256 GB
		Added	Footnote number 1 to first bullet in At a glance section
March 30, 2018	V1 to V2	Change	Processor and at a glance section updated
May 8, 2018	V2 to V3	Added	Environmental tab

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