

Overview

HP ProBook 445 14 inch G10 Notebook PC



1. Internal Microphones (2)

2. Webcam LED (Optional)

3. HD or 5MP Camera

4. Camera Shutter (Only available with webcam)

5. IR Camera LED (Optional)

Left

6. Clickpad

7. SuperSpeed USB Type-A 5Gbps signaling rate port (USB 3.2 Gen 1)

8. Ethernet Port (RJ-45)

9. Nano Security Lock Slot (Lock sold separately)

Overview



- | | |
|---|---|
| 1. Speakers | 6. SuperSpeed USB Type-A 5Gbps signaling rate port (USB 3.2 Gen 1) |
| 2. Power Button Key | 7. HDMI 2.1 Port (Cable not included) |
| 3. Power Connector | 8. Audio Combo Jack |
| 4. SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4) | 9. Nano SIM Slot (Select models) |
| 5. SuperSpeed USB Type-A 5Gbps signaling rate port (USB 3.2 Gen 1) | 10. Touch Fingerprint Sensor (Select models) |

Right

Overview

At a Glance

- Preinstalled with Windows 11 versions or FreeDOS
- Choice of AMD Barcelo™ 7000 series mobile processors, R7, R5 and R3
- Integrated AMD Radeon™ graphics
- Choice of 35.6 cm (14.0") diagonal HD, Ultra Wide Viewing Angle FHD, FHD Touch Screen and Low Blue Light option
- Choice of primary solid state drives up to 1TB, 2nd SSD 128GB/256GB (Optional)
- Fast and upgradeable dual channel DDR4 SODIMM memory up to 32 GB
- Optimize your video calls with a 5MP+IR camera, HD camera and temporal noise reduction that adjusts to the lighting in your environment. New 5MP Camera (Optional) with HP Auto frame allows you around a little without losing viewers' attention.
- Supports wireless options for connectivity on the go including gigabit-speed up to Wi-Fi 6E and CAT16 4G/LTE WWAN (Optional)
- HP Wolf Security for business standard security including HP Sure Start, HP Sure Run, HP Sure Recover and HP Sure Click.
- Features redesigned quiet and responsive HP Keyboard with the HP Programmable key and backlit options
- Pass MIL-STD 810H tests¹
- Battery options 42.75 Wh and 51.3 Wh
- Battery life up to 17 hours 45 minutes with the optional 51.3Whr battery
- Supports fast charging (50% in 30 minutes) with no impact on battery recharge cycles
- Designed to support HP docking options including the HP Universal Dock G5
- Synchronized hinge allows the EliteBook to ProBook to open to 177° +/- 3° without lifting the keyboard and offers visibility from multiple angles.

1. MIL-STD 810GH is not intended to demonstrate fitness of U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.

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

Technical Specifications

PRODUCT NAME

HP ProBook 445 14 inch G10 Notebook PC

OPERATING SYSTEMS

Preinstalled

Windows 11 Pro ¹
 Windows 11 Pro Education ¹
 Windows 11 Home - HP recommends Windows 11 Pro for business ¹
 Windows 11 Home Single Language - HP recommends Windows 11 Pro for business ¹
 Windows 11 Pro (Windows 11 Enterprise or Windows 10 Enterprise available with a Volume Licensing Agreement) ¹
 Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade) ²
 FreeDOS

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

2. This system is preinstalled with Windows 10 Pro software and also comes with a license for Windows 11 Pro software and provision for recovery software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.

PROCESSORS

Processor ^{3,4,5,6}	Cores	Threads	L3 Cache	Max Boost Frequency ⁵	Base Frequency
AMD Ryzen™ 7-7730U	8	16	16MB	4.50GHz	2.00GHz
AMD Ryzen™ 5-7530U	6	12	16MB	4.50GHz	2.00GHz
AMD Ryzen™ 3-7330U	4	8	8MB	4.30GHz	2.30GHz

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. AMD Max Burst frequency performance varies depending on hardware, software and overall system configuration.

6. 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>.

Technical Specifications

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

AMD Radeon™ Graphics ⁷

Supports

Support HD decode, DX12, HDMI 2.1

[7.HD content required to view HD images.](#)

DISPLAY

Non-Touch

35.6 cm (14") diagonal FHD UWVA eDP anti-glare Low Blue Light, bent, 400 nits, 100% sRGB for 5MP + IR camera (1920 x 1080) with HP Eye Ease ^{7,8}

35.6 cm (14") diagonal FHD UWVA eDP anti-glare Low Blue Light, bent, 400 nits, 100% sRGB for HD Webcam (1920 x 1080) with HP Eye Ease ^{7,8}

35.6 cm (14") diagonal FHD UWVA eDP anti-glare, bent, 250 nits, 45% NTSC for 5MP+IR camera (1920 x 1080) ^{7,8}

35.6 cm (14") diagonal FHD UWVA eDP anti-glare, narrow bezel bent, 250 nits, 45% NTSC for HD camera for WWAN (1920 x 1080) ^{7,8}

35.6 cm (14") diagonal FHD UWVA eDP anti-glare, narrow bezel bent, 250 nits, 45% NTSC for HD Webcam (1920 x 1080) ^{7,8}

35.6 cm (14") diagonal FHD UWVA eDP 1.2 w/o PSR anti-glare, narrow bezel bent, 250 nits, 45% NTSC (1920 x 1080) ^{7,8}

35.6 cm (14") diagonal HD SVA eDP anti-glare, narrow bezel bent, 250 nits, 45% NTSC for HD Webcam (1366 x 768) ^{7,8}

35.6 cm (14") diagonal HD SVA eDP 1.2 w/o PSR anti-glare, narrow bezel bent, 250 nits, 45% NTSC (1366 x 768) ^{7,8}

Touch

35.6 cm (14") diagonal FHD UWVA eDP 1.2 w/o PSR anti-glare, narrow bezel bent, 250 nits, 45% NTSC for HD camera for WWAN Touch on Panel (1920 x 1080) ^{7,8,9,10}

35.6 cm (14") diagonal FHD UWVA eDP anti-glare, narrow bezel bent, 250 nits, 45% NTSC for HD Webcam Touch on Panel (1920 x 1080) ^{7,8,9,10}

DisplayPort™ 1.4

Supports resolutions up to 4096 x 2304 @ 60Hz

Display Size (Diagonal)

14"

35.56 cm (14") Diagonal

[7. HD content required to view HD images.](#)

[8. HDMI cable sold separately](#)

[9. Resolutions are dependent upon monitor capability, and resolution and color depth settings.](#)

[10. Actual brightness will be lower with touchscreen or HP Sure View.](#)

Technical Specifications

DOCKING (Sold Separately)

Docking station model #1	HP Thunderbolt 120W G4 Dock
Docking station model #2	HP Thunderbolt 280W G4 Dock
Docking station model #3	HP USB-C G5 Dock
Docking station model #4	HP USB-C/A Universal G2 Dock
Docking station model #5	HP USB-C G5 Essential Dock

For additional aftermarket options and docking specs please see page 36.

STORAGE AND DRIVES

Primary M.2 Storage

- 1 TB PCIe® NVMe™ M.2 TLC Solid State Drive ¹¹
- 512 GB PCIe® NVMe™ M.2 Value Solid State Drive ¹¹
- 256 GB PCIe® NVMe™ M.2 Value Solid State Drive ¹¹
- 128 GB PCIe® NVMe™ M.2 Value Solid State Drive ¹¹

Secondary M.2 Storage (Optional)

- 256 GB PCIe® NVMe™ M.2 Value Solid State Drive ^{11,12}
- 128 GB PCIe® NVMe™ M.2 Value Solid State Drive ^{11,12}

11. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10 and 11) is reserved for system recovery software.

12. Secondary SSD slot (M.2 2230 form factor; Optional) is used for data storage only, not used for OS deployment

MEMORY

Maximum Memory

32 GB DDR4-3200 SDRAM ¹³

Memory

- 32 GB DDR4-3200 SDRAM (2 x 16 GB) ¹³
- 16 GB DDR4-3200 SDRAM (1 x 16 GB) ¹³
- 16 GB DDR4-3200 SDRAM (2 x 8 GB) ¹³
- 8 GB DDR4-3200 SDRAM (1 x 8 GB) ¹³
- 8 GB DDR4-3200 SDRAM (2 x 4 GB) ¹³
- 4 GB DDR4-3200 SDRAM (1 x 4 GB) ¹³

Memory Slots

2 SODIMM

Both slots are accessible / upgradeable by IT or self-maintainers only.

DDR4 PC4 SODIMMS, system runs at 3200

Supports Dual Channel Memory

13. 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

Realtek 8852CE Wi-Fi 6E + Bluetooth® 5.3 M.2 2230 PCI-e+USB WW WLAN Wireless Card ¹⁴

Mediatek RZ616 Wi-Fi 6E + Bluetooth® 5.3 M.2 2230 PCI-e+USB WW WLAN Wireless Card ¹⁴

WWAN

Intel® XMM™ 7560 R+ LTE-Advanced Pro WWAN ¹⁵

Miracast

Native Miracast Support ¹⁶

Ethernet

Realtek RTL8111HSH 10/100/1000 Integrated NIC ¹⁷

14. Wi-Fi 6E requires a Wi-Fi 6E router, and Windows 11, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.

15. WWAN module is an optional feature, requires factory configuration and 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.

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

17. 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 microphone (Dual Array)

Speaker Power

2W/4ohm per speaker

Camera

Dual Array Digital Microphone HD USB2 Wide Field of View Integrated Camera ⁷

Dual Array Digital Microphone 5MP USB2 Infrared Wide Field of View Integrated Camera ¹⁸

5 MP + IR camera for face authentication with Windows Hello

7. HD content required to view HD images.

18. Sold separately or as an optional feature.

Technical Specifications

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Premium Keyboard, full-size, spill resistant and optional Durakeys and backlit

Pointing Device

Clickpad with multi-touch gesture support

Function Keys

F1 - Display Switching

F2 - Blank or SureView On/Off

F3 - Brightness Down

F4 - Brightness Up

F5 - Audio Mute

F6 - Volume Down

F7 - Volume Up

F8 - Mic Mute

F9 - Blank or Backlit Toggle

F10 - Insert

F11 - Wireless

F12 - Programmable key

Hidden Function Keys

Fn+R - Break

Fn+S - Sys Rq

Fn+C - Scroll Lock

Technical Specifications

SOFTWARE AND SECURITY

Preinstalled Software

Software

HP Quick Drop ¹⁹
HP PC Hardware Diagnostics Windows
myHP
HP Smart Support [download] ²⁰
HP Services Scan²¹
HP Connection Optimizer
HP Hotkey Support
HP Support Assistant ²²
HP Notifications
HP Privacy Settings
HP Power Manager ²³
Buy Microsoft Office (Sold separately)

Manageability Features

HP Image Assistant Gen5 (download)
HP Manageability Integration Kit (download) ²⁴
HP Client Management Script Library (download)
HP Driver Packs (download)
HP Cloud Recovery ²⁵
HP Client Catalog (download)
HP Connect²⁶

Security Management

HP Wolf Security of Business ²⁷ includes:
HP Sure Click ²⁸
HP Sure Sense ²⁹
HP Sure Run Gen5 ³⁰
HP Sure Recover Gen5 ³¹
HP Sure Start Gen6 ³²
HP Tamper Lock
HP Sure Admin ³³
HP Client Security Manager Gen7 ³⁴

BIOS

HP BIOSphere Gen6 ³⁵
HP Secure Erase ³⁶
Absolute Persistence Module ³⁷
HP DriveLock & Automatic DriveLock
BIOS Update via Network
HP Wake on WLAN
HP Fingerprint Sensor ³⁸
Secured-Core PC Enable³⁹
TPM 2.0 Embedded Security Chip (Common Criteria EAL4+ Certified) (FIPS 140-2 Level 2 Certified)

IPv6 Support

Yes

Technical Specifications

FirstNet Certified:

Yes

The BIOS on this notebook implements ISO/IEC 19678:2015 guidelines (formerly NIST 800-147).

UEFI version: 2.7

Class: Class 3

19. HP Quick Drop requires Internet access and Windows 10 or higher PC preinstalled with HP QuickDrop app and either an Android device (phone or tablet) running Android 7 or higher with the Android HP QuickDrop app, and /or an iOS device (phone or tablet) running iOS 12 or higher with the iOS HP QuickDrop app.
20. HP Smart Support automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration data and health insights and is available preinstalled on select products, thru HP Factory Configuration Services; or it can be downloaded. For more information about how to enable HP Smart Support or for download, please visit <http://www.hp.com/smart-support>.
21. HP Services Scan is provided with Windows Update on select products and will check entitlement on each hardware device to determine if an HP TechPulse-enabled service has been purchased, and will download applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP TechPulse follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access with connection to TechPulse portal is required. For full system requirements or to disable this feature, please visit <http://www.hpdaas.com/requirements>. Not applicable in China.
22. HP Support Assistance requires Windows and Internet Access
23. HP Power Manager requires Windows 10 and higher and can be downloaded from the Microsoft Store
24. HP Manageability Integration Kit can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>.
25. HP Cloud Recovery is available for Z by HP, HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, wired network connection. **NOTE:** You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: <https://support.hp.com/us-en/document/c05115630>.
26. HP Connect is available from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager. Subscription to Microsoft Endpoint Manager required and sold separately. Network connection required.
27. HP Wolf Security for Business requires Windows 10 or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features.
28. HP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.
29. HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS.
30. HP Sure Run Gen5 is available on select HP PCs and requires Windows 10 and higher.
31. HP Sure Recover Gen5 with Embedded Reimaging is an optional feature which requires Windows 10 and higher must be configured at purchase. You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Network based recovery using Wi-Fi is only available on PCs with Intel Wi-Fi Module
32. HP Sure Start Gen7 is available on select HP PCs and requires Windows 10 and higher
33. HP Sure Admin requires Windows 10 or higher, HP BIOS, HP Manageability Integration Kit from <http://www.hp.com/go/clientmanagement> and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store
34. HP Client Security Manager Gen7 requires Windows and is available on the select HP Elite and Pro PCs.
35. HP BIOSphere Gen6 features may vary depending on the platform and configuration.
36. HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.
37. Absolute firmware module is shipped turned off and can only be activated with the purchase a license subscription and full activation of the software agent. License subscriptions can be purchased for terms ranging multiple years. Service is limited,

Technical Specifications

check with Absolute for availability outside the U.S. Certain conditions apply. For full details visit:

<https://www.absolute.com/about/legal/agreements/absolute/>

38. HP Fingerprint sensor is an optional feature that must be configured at purchase.

39. Secured-Core PC Enable requires an Intel® vPro®, AMD Ryzen™ Pro processor or Qualcomm® processor with SD850 or higher and requires 8 GB or more system memory. Secured-core PC is enabled from the factory.

POWER

Power Supply

AC Adapter 45 Watt nPFC Standard USB Type C® Straight 1.8m ⁴⁰

AC Adapter 45 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.8m ⁴⁰

AC Adapter 45 Watt Smart nPFC Standard C8 for 2 prong Barrel 4.5mm Right Angle ⁴⁰

AC Adapter 65 Watt nPFC Standard USB Type C® Straight 1.8m ⁴⁰

AC Adapter 65 Watt Smart nPFC EM Barrel 4.5mm ⁴⁰

AC Adapter 65 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.8m ⁴⁰

Battery

HP Long Life 3-cell, 42.75 Wh polymer ^{41,42}

HP Long Life 3-cell, 51.3 Wh polymer ^{41,42}

Power Cord

3-wire plug - 1m

2-wire plug - 1m

Battery Life

Up to 14 hours 15 minutes with 42.75Whr battery (HP Long Life 3-Cell, 51.3Whr Polymer, UMA graphics, AMD R7, display set to 200 nits, 2*4G memory, 256G SSD) ⁴³

Up to 17 hours 45 minutes with 51.3Whr battery (HP Long Life 3-Cell, 51.3Whr Polymer, UMA graphics, AMD R7, display set to 200 nits, 2*4G memory, 256G SSD) ⁴³

Battery Weight

HP Long Life 3-cell - 42.75 Wh Polymer - .40 lb

HP Long Life 3-cell - 51.3 Wh Polymer - .45 lb

HP Long Life 3-cell - 42.75 Wh Polymer - 181.83 g

HP Long Life 3-cell - 51.3 Wh Polymer - 203.56 g

40. Availability may vary by country.

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

42. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.

43. Windows MM18 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.

Technical Specifications

WEIGHTS & DIMENSIONS

Product Weight - 42.75 Wh

Starting at 3.05 lb ⁴⁴

Starting at 1.385 kg⁴⁴

Product Weight - 51.3 Wh

Starting at 3.10 lb ⁴⁴

Starting at 1.405 kg ⁴⁴

Product Dimensions (W x D x H)

12.67 x 8.42 x 0.78 in

32.19 x 21.39 x 1.99 cm

Packaging Dimensions (W x D x H) ⁴⁵

12"-15" boxes (305mm height): 1200mm x 1000mm x 1080mm

44. Weight will vary by configuration. Does not include power adapter.

45. Product packaging size varies based on options chosen. Please contact your HP representative for your packaging size details.

PORTS/SLOTS

1 SuperSpeed USB Type-C[®] 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)

3 SuperSpeed USB Type-A 5Gbps signaling rate port (USB 3.2 Gen 1)

1 HDMI 2.1 ⁴⁶

1 RJ-45

1 Headphone/microphone combo jack

1 AC power

1 Nano SIM slot for WWAN (optional)

46. HDMI cable sold separately

Technical Specifications

SERVICE AND SUPPORT

1-year warranty and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty except for HP Long Life batteries which will follow the one or three year warranty of the platform. Refer to <http://www.hp.com/support/batterywarranty/> for additional battery information. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: <http://www.hp.com/go/cpc>.⁴⁷

47. 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	7.52W (Idle)
Integrated graphics	Yes (AMD Radeon™ Graphics)
Discrete Graphics	N/A
Max Operating Power	Discrete < 65W 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	200 G, 2 ms, half-sine

Random Vibration

Operating	1.043 grams
Non-operating	3.5 grams

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

Regulatory Model Number	HSN-Q34C-4
CSA/UL 62368-1	Yes
ENERGY STAR®	Yes ⁴⁸
EPEAT®	EPEAT® Gold in the United States ⁴⁹
FCC/ICES/CISPR/VCCI	Yes
CE MARKING	Yes
GS Mark	Yes
	Related commodity should comply with ISO 9241 Standards.
China CCC/SRRC	Yes
Taiwan BSMI/NCC	
Korea KCC/KC/KES	Yes
Ukraine NSoC/TEC	Yes
EAEU Compliance	Yes
Saudi Arabian Compliance	Yes
TCO	Yes
Low Blue Light	Yes
WW RoHS	Yes

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48. Configurations of the HP ProBook 445 14 inch G10 Notebook PC that are ENERGY STAR® qualified are identified as HP ProBook 445 14 inch G10 Notebook PC ENERGY STAR on HP websites and on <http://www.energystar.gov>.

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

DISPLAYS

1. Actual brightness will be lower with touchscreen or HP Sure View.

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

Panel LCD 14 inch FHD (1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP 1.2 w/o PSR bent Touch on Panel NWBZ	Outline Dimensions (W x H x D)	316.170 x 186.400 mm (max) (w/ PCB)
	Active Area	309.370 x 174.020 mm (typ.)
	Weight	305 g (max)
	Diagonal Size	14.0 (inch)
	Surface Treatment	Anti-Glare On-cell
	Touch Enabled	Yes ¹
	Contrast Ratio	600:1 (typ.)
	Refresh Rate	60 Hz
	Brightness	250 nits
	Pixel Resolution - Format	1920 x 1080 (FHD)
	Backlight	LED
	Pixel Resolution	RGB Stripe
	Color Gamut Coverage	NTSC 45%
	Color Depth	6 bits (Hi FRC supportive w/ condition to enable)
	Viewing Angle	UWVA 85/85/85/85
	Low Blue Light	No
	Power Consumption (W, EBL@ 150nits max/ 200nits max)	2.3W max./2.8W max.

14.0 in FHD (1920 x 1080) Anti-Glare UWVA Low Blue Light sRGB NB2X 400 eDP 1.4+PSR2 Low-Power 100 bent LCD Panel	Outline Dimensions (W x H)	315.10 x 184.90 mm
	Active Area	309.37 x 174.02 mm
	Weight	230g max
	Diagonal Size	14
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	1200:1 (typ)
	Refresh Rate	60Hz
	Brightness	400 (typ)
	Pixel Resolution - Format	1920 x 1080 (FHD)
	Backlight	WLED
	Pixel Resolution	RGB

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Color Gamut Coverage	sRGB100%
Color Depth	8 bits
Viewing Angle	UWVA 89/89/89/89
Low Blue Light	Yes
Power Consumption (W, EBL@ 150nits max/ 200nits max)	1.23 W max/1.5 W max

Panel LCD 14-in FHD (1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP 1.2 w/o PSR NWBZ bent	Outline Dimensions (W x H)	316.170 x 186.400 mm (max) (w/ PCB)
	Active Area	309.370 x 174.020 mm (typ.)
	Weight	300 g (max)
	Diagonal Size	14.0 (inch)
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	600:1 (typ.)
	Refresh Rate	60 Hz
	Brightness	250 nits
	Pixel Resolution - Format	1920 x 1080 (FHD)
	Backlight	LED
	Pixel Resolution	RGB Stripe
	Color Gamut Coverage	NTSC 45%
	Color Depth	6 bits (Hi FRC supportive w/ condition to enable)
	Viewing Angle	UWVA 85/85/85/85
Low Blue Light	No	
Power Consumption (W, EBL@ 150nits max/ 200nits max)	2.205W Max/2.716W Max	

Panel LCD 14-in HD (1366x768) Anti-Glare WLED SVA 45percent cg 250nits eDP 1.2 w/o PSR NWBZ bent	Outline Dimensions (W x H)	316.110 x 186.370 mm (max)
	Active Area	309.400 x 173.950 mm (typ.)
	Weight	300 g (max)
	Diagonal Size	14.0 (inch)
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	300:1 (typ.)
	Refresh Rate	60 Hz
	Brightness	250 nits
	Pixel Resolution - Format	1366 x 768 (HD)
	Backlight	LED
	Pixel Resolution	RGB Stripe
	Color Gamut Coverage	NTSC 45%

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Color Depth	6 bits
Viewing Angle	SVA 45/45/15/35
Low Blue Light	No
Power Consumption (W, EBL@ 150nits max/ 200nits max)	2.52W max./ 2.86W max.

Technical Specifications

STORAGE AND DRIVES

For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10 and 11) is reserved for system recovery software.

SSD 128GB 2230 PCIe NVMe Value	Form Factor	M.2 2230
	Capacity	128GB
	NAND Type	QLC
	Interface	PCIe NVMe
	Maximum Sequential Read	2000 MB/s ±20%
	Maximum Sequential Write	600 MB/s ±20%
	Logical Blocks	250,069,680
	Features	Pyrite; TRIM; L1.2

SSD 256GB 2230 PCIe NVMe Value	Form Factor	M.2 2230
	Capacity	256 GB
	NAND Type	QLC
	Interface	PCIe NVMe
	Maximum Sequential Read	2000 MB/s ±20%
	Maximum Sequential Write	900 MB/s ±20%
	Logical Blocks	500,118,192
	Features	Pyrite; TRIM; L1.2
Form Factor	M.2 2230	

SSD 256GB 2280 PCIe NVMe Value	Form Factor	M.2 2280
	Capacity	256GB
	NAND Type	QLC
	Interface	PCIe NVMe
	Maximum Sequential Read	2000 MB/s ±20%
	Maximum Sequential Write	900 MB/s ±20%
	Logical Blocks	500,118,192
	Features	Pyrite; TRIM; L1.2
Form Factor	M.2 2280	

SSD 512GB 2280 PCIe NVMe Value	Form Factor	M.2 2280
	Capacity	512GB
	NAND Type	QLC
	Interface	PCIe NVMe
	Maximum Sequential Read	2200 MB/s ±20%
	Maximum Sequential Write	1000 MB/s ±20%
	Logical Blocks	1,000,215,216
	Features	Pyrite; TRIM; L1.2
Form Factor	M.2 2280	

Technical Specifications

SSD 1TB 2280 PCIe-4x4 NVMe Three Layer Cell	Form Factor	M.2 2280
	Capacity	1TB
	NAND Type	QLC
	Interface	PCIe NVMe Gen4X4
	Maximum Sequential Read	6400 MB/s \pm 20%
	Maximum Sequential Write	5000 MB/s \pm 20%
	Logical Blocks	2,000,409,264
	Features	Pyrite 2.0; TRIM; L1.2
	Form Factor	M.2 2280

Technical Specifications

NETWORKING/COMMUNICATIONS

Realtek RTL8852CE 802.11ax 2x2 Wi-Fi 6E + Bluetooth® 5.3 Wireless Card (802.11ax 2x2, supporting gigabit data rate)¹	Wireless LAN Standards	<ul style="list-style-type: none"> IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac IEEE 802.11ax IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11i IEEE 802.11k
	Interoperability	Wi-Fi certified
	Frequency Band	<ul style="list-style-type: none"> •802.11b/g/n/ax 2.402 – 2.482 GHz •802.11a/n/ac/ax 5.15 – 5.25 GHz 5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz
	Data Rates	<ul style="list-style-type: none"> • 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, (20MHz, 40MHz, ,80MHz & 160MHz) • 802.11ax : MCS0 ~ MCS11, (20MHz, 40MHz, ,80MHz & 160MHz)
	Modulation	Direct Sequence Spread Spectrum OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
	Security²	<ul style="list-style-type: none"> • IEEE and Wi-Fi certified 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 • WPA3 (personal) certification • IEEE 802.11i • WAPI • EAP
	Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
	Roaming	IEEE 802.11 compliant roaming between access points
	Output Power³	<ul style="list-style-type: none"> • 802.11b : +17dBm minimum • 802.11g : +16dBm minimum • 802.11a : +17dBm minimum • 802.11n HT20(2.4GHz) : +14dBm minimum • 802.11n HT40(2.4GHz) : +13dBm minimum • 802.11n HT20(5GHz) : +14dBm minimum • 802.11n HT40(5GHz) : +13dBm minimum

Technical Specifications

	<ul style="list-style-type: none"> • 802.11ac VHT80(5GHz) : +10dBm minimum • 802.11ac VHT160(5GHz) : +10dBm minimum • 802.11ax HE40(2.4GHz) : +12dBm minimum • 802.11ax HE80(5GHz) : +10dBm minimum • 802.11ax HE160(5GHz) : +10dBm minimum • 802.11ax HE80(6GHz) : +10dBm minimum • 802.11ax HE160(6GHz) : +10dBm minimum
Power Consumption	<ul style="list-style-type: none"> • Transmit mode :2.5 W • Receive mode :2 W • Idle mode (PSP) 180 mW (WLAN Associated) • Idle mode :50 mW (WLAN unassociated) • Connected Standby/Modern Standby: 10mW • Radio disabled: 8 mW
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
Receiver Sensitivity⁴	<ul style="list-style-type: none"> •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(VHT80) : -84dBm maximum •802.11ac, MCS9(VHT80) : -59dBm maximum •802.11ac, MCS9(VHT160) : -58.5dBm maximum •802.11ax, MCS11(HE40): -57dBm maximum •802.11ax, MCS11(HE80): -54dBm maximum •802.11ax, MCS11(HE160): -53.5dBm maximum
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure Two embedded dual band 2.4/5/6 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications
Form Factor	PCI-Express M.2 MiniCard
Dimensions	1. Type 2230 : 2.3 x 22.0 x 30.0 mm 2. Type 1216: 1.67 x 12.0 x 16.0 mm
Weight	1. Type 2230 : 2.8g 2. Type 126: 1.3g
Operating Voltage	3.3v +/- 9%
Temperature	Operating 14° to 158° F (-10° to 70° C) Non-operating -40° to 176° F (-40° to 80° C)
Humidity	Operating 10% to 60% (non-condensing) Non-operating 5% to 95% (non-condensing)
Altitude	Operating 0 to 10,000 ft (3,048 m) Non-operating 0 to 50,000 ft (15,240 m)
LED Activity	N/A

HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Wireless Card

Bluetooth Specification 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Compliant

Technical Specifications

Frequency Band	2402 to 2480 MHz
Number of Available Channels	Legacy : 0~79 (1 MHz/CH) BLE : 0~39 (2 MHz/CH)
Signaling Data Rate	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
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 & 15.407
Power Management Certifications	ETS 300 328 Low Voltage Directive 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) BT5.2 ESR9/10 Compliance LE Advertisement Extensions Channel Selection Algo Limited High Duty Cycle Non-Connectable Advertising 2Mbps LE LE Long Range Windows BT profiles support

Technical Specifications

BT5.3
 Periodic Advertisement interval
 Encryption key size control enhancements

1. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.
2. Check latest software/driver release for updates on supported security features.
3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

Mediatek RZ616 Wi-Fi 6E + Bluetooth® 5.3 Wireless Card (802.11ax 2x2, supporting gigabit data rate) ¹

Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac IEEE 802.11ax IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11i IEEE 802.11j IEEE 802.11k IEEE 802.11mc IEEE 802.11r IEEE 802.11v IEEE 802.11w
Interoperability	Wi-Fi certified
Frequency Band	•802.11b/g/n/ax 2.402 – 2.482 GHz •802.11a/n/ac/ax 5.15 – 5.25 GHz 5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz 5.925 – 7.125 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, (20MHz, 40MHz, ,80MHz & 160MHz) • 802.11ax : MCS0 ~ MCS11, (20MHz, 40MHz, ,80MHz & 160MHz)
Modulation	Direct Sequence Spread Spectrum OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM



Technical Specifications

Security²	<ul style="list-style-type: none"> • IEEE and Wi-Fi certified 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 • WPA3 (personal) certification • IEEE 802.11i • WAPI
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points
Output Power³	<p>2.4GHz (MIMO, typical):</p> <ul style="list-style-type: none"> • 802.11b : +18dBm • 802.11g : +16.5dBm • 802.11n/ac/ax (HT20/VHT20/HE20) : +16dBm • 802.11n/ac/ax (HT40/VHT40/HE40) : +12.5dBm <p>5GHz (MIMO, typical):</p> <ul style="list-style-type: none"> • 802.11a : +13dBm • 802.11n/ac/ax (HT20/VHT20/HE20) : +13.5dBm • 802.11n/ac/ax (HT40/VHT40/HE40) : +12.5dBm • 802.11ac/ax (VHT80/HE80) : +11.5dBm • 802.11ax HE160 : +11.5dBm <p>6GHz LPI mode (MIMO, typical)::</p> <ul style="list-style-type: none"> • 802.11a : 0dBm • 802.11ax HE20 : +1dBm • 802.11ax HE40 : +4dBm • 802.11ax HE80 : +7dBm • 802.11ax HE160 : +7.5dBm
Power Consumption	<ul style="list-style-type: none"> • Transmit mode :2.5 W • Receive mode :2 W • Idle mode (PSP) 180 mW (WLAN Associated) • Idle mode :50 mW (WLAN unassociated) • Connected Standby/Modern Standby: 10mW • Radio disabled: 8 mW
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
Receiver Sensitivity⁴	<p>2.4GHz (SISO):</p> <ul style="list-style-type: none"> • 802.11b, 11Mbps : -82dBm maximum • 802.11g, 54Mbps : -71dBm maximum • 802.11n, MCS7 : -64dBm maximum • 802.11ac, MCS9 : -52dBm maximum • 802.11ax, MCS11(HT40): -49dBm maximum <p>5GHz (SISO):</p> <ul style="list-style-type: none"> • 802.11a, 54Mbps : -71dBm maximum • 802.11n, MCS07 : -64dBm maximum • 802.11ac, MCS9 : -52dBm maximum • 802.11ax, MCS11(HE80/HE160): -46dBm maximum <p>6GHz (SISO):</p>

Technical Specifications

- 802.11a, 54Mbps : -71 dBm maximum
- 802.11n, MCS7 : -64dBm maximum
- 802.11ac, MCS9 : -52dBm maximum
- 802.11ax, MCS11 (HE160): -46dBm maximum

Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure Two embedded dual band 2.4/5/6 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications	
Form Factor	PCI-Express M.2 MiniCard	
Dimensions	1. Type 2230 : 2.3 x 22.0 x 30.0 mm 2. Type 1216: 1.67 x 12.0 x 16.0 mm	
Weight	1. Type 2230 : 2.8g 2. Type 126: 1.3g	
Operating Voltage	3.3v +/- 9%	
Temperature	Operating	14° to 158° F (-10° to 70° C)
	Non-operating	-40° to 176° F (-40° to 80° C)
Humidity	Operating	10% to 60% (non-condensing)
	Non-operating	5% to 95% (non-condensing)
Altitude	Operating	0 to 10,000 ft (3,048 m)
	Non-operating	0 to 50,000 ft (15,240 m)
LED Activity	N/A	

HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Wireless Card

Bluetooth Specification	4.0/4.1/4.2/5.0/5.1/5.2/5.3 Compliant	
Frequency Band	2402 to 2480 MHz	
Number of Available Channels	Legacy : 0~79 (1 MHz/CH) BLE : 0~39 (2 MHz/CH)	
Signaling Data Rate	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 1.5 Bluetooth device with a maximum transmit power of + 14 dBm and 10 dBm for BR and EDR, respectively.	
Power Consumption	Peak (Tx): 330 mW Peak (Rx): 230 mW Selective Suspend: 17 mW	
Bluetooth Software Supported Link Topology	Microsoft Windows Bluetooth Software	
Power Management	Microsoft Windows ACPI, and USB Bus Support	
Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.407	
Power Management Certifications	ETS 300 328 Low Voltage Directive CE Mark	

Technical Specifications

Bluetooth Software 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) BT5.2 ESR9/10 Compliance LE Advertisement Extensions Channel Selection Algo Limited High Duty Cycle Non-Connectable Advertising 2Mbps LE LE Long Range Windows BT profiles support BT5.3 Periodic Advertisement interval Encryption key size control enhancements
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1. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.

2. Check latest software/driver release for updates on supported security features.

3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.

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

Technical Specifications

Intel® XMM™ 7560 R+ LTE-Advanced Pro¹	Technology/Operating bands	FDD LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3), 1700/2100 (Band 4), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 14 upper), 700 (Band 17 lower), 850 (Band 18 lower), 850 (Band 19 upper), 800 (Band 20), 1900 (Band 25), 850 (Band 26), 700 (Band 28), 700 (Band 29 RX only), 2300 (Band 30), 1700/2100 (Band 66), 600 (band 71).
	Wireless protocol standards	TDD LTE: 2100 (Band 34), 2600 (Band 38), 1900 (Band 39), 2400 (Band 40), 2500 (Band 41), 3500 (Band 42), 3700 (Band 43), 3700 (band 48), 5200 (Band 46 RX only) MHz; HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4), 850 (Band 5), 900 (Band 8) MHz 3GPP Release 12 LTE Specification DL-CAT.16, DL 100MHz BW throughput up to 978Mbps; UL-CAT.13 40MHz throughput up to 150Mbps
	GPS GPS bands	WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification Standalone GPS/Beidou/Glonass, A-GPS (MS-A, MS-B) 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou 1561.098 MHz
	Maximum data rates	LTE: 978 Mbps (Download), 150 Mbps (Upload) DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21Mbps (Download), 5.76 Mbps (Upload)
	Maximum output power	LTE: 23 dBm in all band except B41 LTE B41 HPUE = 26dBm HSPA+: 23.5 dBm
	Maximum power consumption	LTE: 1,200 mA (peak); 900 mA (average) HSPA+: 1,100 mA (peak); 800 mA (average)
	Form Factor	M.2, 3042-S3 Key B
	Weight	6 g
	Dimensions (Length x Width x Thickness)	42 x 30 x 2.3 mm
	embedded eSIM	Support

1. Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products or in all countries.

Technical Specifications

Realtek RTL8111HSH 10/100/1000 Integrated NIC	Connector	RJ-45
	System Interface	PCIe + SMBus
	Data rates supported	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14) 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30) 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 8023 clauses 40) Auto-Negotiation (Automatic Speed Selection) Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s
	IEEE Compliance	IEEE 802.1p QoS (Quality of Service) Support IEEE 802.1q VLAN support IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3az EEE (Energy Efficient Ethernet)
	Performance	TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling Jumbo Frame 9K
	Power consumption	Cable Disconnection: 25mW 100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW
	Power Management	ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption
	Management Interface	Auto MDI/MDIX Crossover cable detection
	IT Manageability	Wake-on-LAN from modern standby or sleep state (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite Virtual Cable Doctor for Ethernet cable status

Technical Specifications

POWER

1. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors

AC Adapter 45 Watt nPFC Standard USB Type C® Straight 1.8m	Weight	0.44 lb (200 g) max (Not including power cord. Power cord varies by country.)
	Input	100 ~ 240VAC
	Input Efficiency	Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec: 5V : 81.5% 9V : 86.7% 12V : 87.4% 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 100% load 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%
	EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL62368-1 Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC, USB-IF, Ukraine(CoC+DoC+RoHS+ECO)

Technical Specifications

AC Adapter 45 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.8m	Weight	0.44 lb (200 g) max (Not including power cord. Power cord varies by country.)	
	Input	100 ~ 240VAC	
	Output	Input Efficiency	87.74 % at 115 Vac and 88.4 % at 230Vac
		Input frequency range	47 ~ 63 Hz
		Input AC current	Max. 1.4 A at 90 Vac
		Output power	45W
		DC output	19.5V
	Connector	Hold-up time	100% load 5ms at 115 Vac input/80% load 10ms at 115 Vac input
		Output current limit	<8.0A
	Environmental Design	Connector	4.5mm Barrel Type
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%	
EMI and Safety Certifications	Storage Humidity	10% to 95%	
	CE Mark - full compliance with LVD and EMC directives		
	Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL62368-1		
	Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia GEMS and RCM, BIS, BSMI, UAE, UKCA DoC		

AC Adapter 65 Watt nPFC Standard USB Type C® Straight 1.8m	Dimensions (H x W x D)	3.543 x 2.008 x 1.122 in (9.0x5.1x2.85cm)	
	Weight	0.53 lb (240 g) max (Not including power cord. Power cord varies by country.)	
	Input	Input	100 ~ 240VAC
		Input Efficiency	Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec: 5V: 81.5% 9V: 86.7% 12V: 88% 15V: 88% 20V: 89%
	Output	Input frequency range	47 ~ 63 Hz
		Input AC current	Max. 1.6 A at 90 Vac
		Output power	5V/15W 9V/27W 12V/60W

Technical Specifications

		15V/60W 20V/65W
	DC output	5V/9V/12V/15V/20V
	Hold-up time	100% load 5ms at 115 Vac input
	Output current limit	<8.0A
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%
EMI and Safety Certifications		CE Mark - full compliance with LVD and EMC directives Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL 62368-1 Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC

AC Adapter 65 Watt Smart nPFC EM Barrel 4.5mm	Dimensions (H x W x D)	4.016 x 2.165 x 1.181 in (10.2x5.5x3cm)
	Weight	0.58 lb (265 g) max (Not including power cord. Power cord varies by country.)
	Input	100 ~ 240VAC
	Input Efficiency	88.0 % at 115 Vac and 89.0 % at 230Vac
	Input frequency range	47 ~ 63 Hz
	Input AC current	Max. 1.7 A at 90 Vac
	Output	Output power 65W
		DC output 19.5V
		Hold-up time 100% load 5ms at 115 Vac input/80% load 10ms at 115 Vac input
		Output current limit <11.0A
	Connector	4.5mm Barrel Type
	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%

Technical Specifications

EMI and Safety Certifications	<p>CE Mark - full compliance with LVD and EMC directives</p> <p>Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL62368-1</p> <p>Agency approvals - C-UL-US, TUV/GS, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, BIS, UKCA DoC</p>
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AC Adapter 65 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.8m	<p>Dimensions (H x W x D) 3.543 x 2.008 x 1.122 in (9.0x5.1x2.85cm)</p> <p>Weight 0.55 lb (250 g) max (Not including power cord. Power cord varies by country.)</p> <p>Input 100 ~ 240VAC</p> <p>Input Efficiency 88.0 % at 115 Vac and 89.0 % at 230Vac</p> <p>Input frequency range 47 ~ 63 Hz</p> <p>Input AC current Max. 1.7 A at 90 Vac</p> <p>Output</p> <p>Output power 65W</p> <p>DC output 19.5V</p> <p>Hold-up time 100% load 5ms at 115 Vac input/80% load 10ms at 115 Vac input</p> <p>Output current limit <11.0A</p> <p>Connector 4.5mm Barrel Type</p> <p>Environmental Design</p> <p>Operating temperature 32°F to 95°F (0°to 35°C)</p> <p>Non-operating (storage) temperature -4°F to 185°F (-20°to 85°C)</p> <p>Altitude 0 to 16,400 ft (0 to 5000m)</p> <p>Humidity 20% to 95%</p> <p>Storage Humidity 10% to 95%</p> <p>EMI and Safety Certifications</p> <p>CE Mark - full compliance with LVD and EMC directives</p> <p>Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018, EN62368-1:2014+A11, UL62368-1</p> <p>Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia GEMS and RCM, BIS, BSMI, UAE, UKCA DoC</p>

Technical Specifications

HP 65W Slim USB-C Straight AC Power Adapter	Dimensions (H x W x D)	3.819 x 2.106 x 0.827 in (9.7x5.35x2.1 cm)	
	Weight	0.49 lb (220 g) max (Not including power cord. Power cord varies by country.)	
	Input	100 ~ 240VAC	
	Output	Input Efficiency	Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec: 5V : 81.5% 9V : 86.7% 12V : 88.0% 15V : 89.0% 20V : 89.0%
		Input frequency range	47-63Hz
		Input AC current	Max. 1.6 A at 90 Vac
		Output power	5V/15W 9V/27W 12V/60W 15V/65W 20V/65W
		DC output	5V/9V/12V/15V/20V
		Hold-up time	100% load 5ms at 115 Vac input
	Connector	Output current limit	< 8.0A
		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%	
EMI and Safety Certifications	<p>CE Mark - full compliance with LVD and EMC directives</p> <p>Worldwide safety standards - IEC60950-1, IEC 62368-1:2014 and IEC62368-1 : 2018, EN62368-1:2020+A11, UL 62368-1</p> <p>Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC, CU(EAC), KCC(Safety+EMC), NOM-001 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC, Ukraine (CoC+DoC+RoHS+ECO)</p>		

Technical Specifications

RH 42Whr Long Life Polymer Fast Charge 3 cell Battery¹	Weight	0.18 kg (0.397 lb)	
	Cells/Type	3 cell Lithium-Ion Polymer cell / 545974	
	Energy	Voltage	11.4V
		Amp-hour capacity	3.752Ah
		Watt-hour capacity¹	42.75Wh
	Temperature	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	

1. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.

RH 51Whr Long Life Polymer Fast Charge 3 cell Battery¹	Weight	0.2025 kg (0.446 lb)	
	Cells/Type	3cell Lithium-Ion Polymer cell / 566075	
	Energy	Voltage	11.58V
		Amp-hour capacity	4.431Ah
		Watt-hour capacity¹	51.3Wh
	Temperature	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	

1. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.

Technical Specifications

AUDIO

HD Stereo Codec	ALC3247-CG
Audio I/O Ports	Headset: CTIA only and Headphone-out
Internal Speaker Amplifier	ALC 3247 has Embedded Class-D 2W Stereo Amplifier
Multi-streaming Capable	Playback multi-streaming can be enabled in the audio control panel to allow independent audio. Following MSFT Behavior
Sampling	streams to be sent to/from the front and rear jacks or integrated speaker.
Wavetable Syntheses	Independent sampling rates for DAC's and ADC's; supports resolutions from 16 to 24-bit; 44.1 kHz: External MIC/internal MIC 16bit,48000Hz: External SPK/Internal SPK
Analog Audio	Support 3.5mm Headset: CTIA only and Headphone-out
# of Channels on Line-Out	N/A
Internal Speaker	Yes

FINGERPRINT READER

Sensor vendor	ELAN 80ST
Sensor type	Capacitive
DPI resolution	508 DPI
Scan area	80x80 pixels
False Rejection Rate	<3%
False Acceptance Rate	< 0.001%
Mobile Voltage Operation	2.7~3.6V
Operating Temperature	-20°C - +80°C
Current Consumption	35mA peak
Image	
Low Latency Wait For Finger	900uA
Capture Rate	Capture Rate: 50 frame/sec
ESD Resistance	IEC 61000-4-2 4B (+15KV)
Detection Matrix	508 dpi / 4x4mm sensor area

COUNTRY OF ORIGIN

China

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

DOCKING (Sold Separately)

Docking station model #1	HP Thunderbolt 120W G4 Dock
Total number of supported displays (incl. the notebook display)	4
Max. resolutions supported	Quad 4K @60Hz Dual 8K single cable@30 for TB hosts or USB-C hosts DP 1.4 with DSC in high res mode
Dock Connectors	2xDP, 1xHDMI, 1xTB, 1xUSB-C Alt Mode
Technical limitations	Maximum resolution and display support is dependent on the maximum capability of the notebook.

Thunderbolt Hosts:

Maximum of (4) displays with maximum resolution of 5K@ 30Hz running Thunderbolt host.

Maximum resolution possible is dual 8K displays @ 60Hz running Thunderbolt host or running a non-Thunderbolt host in high resolution mode @30Hz

Non-Thunderbolt hosts:

The highest resolution for dual displays running a non-Thunderbolt host in multi-function mode is

(1) 5K dual cable (using both DP ports) +(1) 4K on USB-C DP port

Non-Thunderbolt hosts support (3) displays with a maximum resolution of (2) 5K single cable + (1) 4K UHD @ 60 Hz in high resolution mode. In multi-function mode the maximum resolution for (3) displays is (2) 5K single cable @ 30Hz + (1) 4K UHD @ 30Hz.

Docking station model #2	HP Thunderbolt 280W G4 Dock
Total number of supported displays (incl. the notebook display)	4
Max. resolutions supported	Quad 4K @60Hz Dual 8K single cable@30 for TB hosts or USB-C hosts DP 1.4 with DSC in high res mode
Dock Connectors	2xDP, 1xHDMI, 1xTB, 1xUSB-C Alt Mode
Technical limitations	Maximum resolution and display support is dependent on the maximum capability of the notebook.

Thunderbolt Hosts:

Maximum of (4) displays with maximum resolution of 5K@ 30Hz running Thunderbolt host.

Maximum resolution possible is dual 8K displays @ 60Hz running Thunderbolt host or running a non-Thunderbolt host in high resolution mode @30Hz

Non-Thunderbolt hosts:

The highest resolution for dual displays running a non-Thunderbolt host in multi-function mode is

(1) 5K dual cable (using both DP ports) +(1) 4K on USB-C DP port

Non-Thunderbolt hosts support (3) displays with a maximum resolution of (2) 5K single cable + (1) 4K UHD @ 60 Hz in high resolution mode. In multi-function mode the maximum resolution for (3) displays is (2) 5K single cable @ 30Hz + (1) 4K UHD @ 30Hz.

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

<p>Docking station model #3</p> <p>Total number of supported displays (incl. the notebook display)</p> <p>Max. resolutions supported</p> <p>Dock Connectors</p> <p>Technical limitations</p>	<p>HP USB-C G5 Dock</p> <p>3</p> <p>Dual 5K@ 30Hz + (1) 4K UHD (multi-function mode)</p> <p>1xHDMI, 2xDP</p> <p>Maximum resolution and display support is dependent on the maximum capability of the notebook.</p> <p>Highest resolution with dual displays is two 8K@ 60Hz host in High Resolution mode.</p> <p>Three maximum displays supported are two 5K@ 30 Hz on DP ports plus one 4K UHD@ 30 Hz on HDMI in Multi-function mode</p> <p>The highest resolution for a non-Thunderbolt host in Multi-function mode is a single 5K dual cable (using both DP ports) + (1) 4K on HDMI port.</p>
<p>Docking station model #4</p> <p>Total number of supported displays (incl. the notebook display)</p> <p>Max. resolutions supported</p> <p>Dock Connectors</p> <p>Technical limitations</p>	<p>HP USB-C/A Universal G2 Dock</p> <p>3</p> <p>Dual 4K @ 60Hz</p> <p>Single 5K @ 60Hz</p> <p>1xHDMI, 2xDP</p> <p>Maximum resolution and display support is dependent on the maximum capability of the notebook.</p> <p>The best resolution for dual or triple displays is 4K UHD@ 60Hz.</p> <p>For use with the USB-A adapter that comes in the box the maximum number of displays supported is (2) 4k x 60 Hz on the Type-A Gen 1 connection from the host.</p>
<p>Docking station model #5</p> <p>Total number of supported displays (incl. the notebook display)</p> <p>Max. resolutions supported</p> <p>Dock Connectors</p> <p>Technical limitations</p>	<p>HP USB-C G5 Essential Dock</p> <p>3</p> <p>For hosts that support DisplayPort 1.4 with Display Stream Compression:</p> <p>3x FHD @ 60 Hz</p> <p>3x QHD @ 60 Hz</p> <p>3x 4K @ 60 Hz</p> <p>For hosts that support DisplayPort 1.3/1.4:</p> <p>3x FHD @ 60 Hz</p> <p>3x QHD @ 60 Hz</p> <p>2x 4K @ 60 Hz</p> <p>1 x HDMI, 2 x DP</p> <p>Video resolution depends on the capability of the host machine. This dock provides up to 65W of power delivery to the host machine.</p>

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

Type	Description	Part Number
Audio	HP Wired USB-A Stereo Headset	428K6AA
	HP Wired 3.5mm Stereo Headset	428K7AA
	HP 365 BT Speaker	567D3AA#ACJ
Video	HP 325 FHD USB-A Webcam	53X27AA
	HP 965 4K USB-A STR Webcam	695J5AA
Cases	HP Prelude G2 15.6 Backpack	1E7D6AA
	HP Prelude G2 15.6 Top Load	1E7D7AA
	HP Prelude Pro Recycled 15.6 Backpack	1X644AA
	HP Prelude Pro Recycled 15.6 Top Load	1X645AA
	HP Renew 14 Laptop Sleeve	2E6U9AA
	HP Renew Business 14.1 Laptop Bag	3E5F9AA
	HP Renew Business 14.1 Laptop Sleeve	3E2U7AA
	HP Renew Business 15.6 Laptop Bag	3E5F8AA
	HP Renew Business 17.3 Laptop Backpack	3E2U5AA
	HP Renew Business 17.3 Laptop Bag	3E2U6AA
	HP Renew Executive 14.1 Laptop Sleeve	6B8Y3AA
	HP Renew Executive 16 Laptop Backpack	6B8Y1AA
HP Renew Executive 16 Laptop Bag	6B8Y2AA	
Docking	HP USB-C 120W G5 Dock	5TW10AA
	HP USB-C/A 120W G2 Universal Dock	5TW13AA
	HP Thunderbolt 120W G4 Dock	4J0A2AA
	HP Thunderbolt 280W G4 Dock	4J0G4AA
Hub	HP 4K USB-C Multiport Hub	6G842AA
	HP Universal USB-C Multiport Hub	50H55AA
	HP USB-C Travel Dock G2	7PJ38AA
	HP USB-C to USB-A Hub	Z6A00AA
Adapter	HP USB-C to RJ45 Adapter G2	4Z527AA
	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z7Z7AA
	HP HDMI to VGA Adapter	H4F02AA
	HP USB-C to DisplayPort Adapter	N9K78AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to VGA Adapter	N9K76AA

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

Keyboard/Combo	HP 125 WD USB Keyboard	266C9AA
	HP 320K WD USB Keyboard	9SR37AA
	HP 355 Compact Multi-Device BT Keyboard	692S9AA
	HP 455 Programmable Wireless Keyboard	4R177AA
	HP 975 USB+BT Dual-Mode Wireless Keyboard	3Z726AA
	HP 155 Wired Mouse and Keyboard Combo	5B8C0AA#ACJ
	HP 225 Wired Mouse and Keyboard Combo	286J4AA
	HP 235 Wireless Mouse and Keyboard Combo	1Y4D0AA
	HP 655 Wireless Keyboard and Mouse Combo	4R009AA
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165AA	
Mouse	HP 125 USB-A Wired Mouse	265A9AA
	HP 128 USB Laser Wired Mouse	265D9AA
	HP 155 USB-A Wired Mouse	5B8B7AA#ACJ
	HP 235 Wireless 2.4GHz Slim Wireless Mouse	4E407AA
	HP 320M USB-A Wired Mouse	9VA80AA
	HP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse	3B4Q5AA
	HP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse	6E6F0AA
	HP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	6H1A5AA
	HP Creator USB-A+Bluetooth 935 Wireless Mouse Black	1D0K8AA
	HP USB Premium Wireless Mouse	1JR31AA
HP USB-A+Bluetooth Multi-Device 635 Wireless Mouse Black	1D0K2AA	
HP USB-A+Bluetooth Travel Bluetooth Mouse	6SP30AA	
Power	HP 65W 4.5 mm Smart AC Power Adapter	H6Y89AA
	HP 65W GaN USB-C Laptop Charger	600Q7AA
	HP 65W USB-C Laptop Charger	671R3AA
	HP 65W USB-C LC AC Power Adapter	1P3K6AA
	HP 90W 4.5 mm Smart AC Power Adapter	H6Y90AA
Commodity	HP USB DVD-Writer EXT ODD	F2B56AA
	HP Nano Keyed Cable Lock	1AJ39AA
	HP Nano Master Keyed Cable Lock	1AJ40AA
	HP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA
	HP Combination Nano Cable Lock	63B28AA
	HP Essential Combination Nano Cable Lock	63B31AA

Change Log

Date of change:	Version History:		Description of change:
March 2, 2023	V1 to V2	Updated	Techspecs
March 9, 2023	V2 to V3	Added	Docking station
March 30, 2023	V3 to V4	Updated	At a Glance section
April 4, 2023	V4 to V5	Updated	DisplayPort™ in Display section
April 24, 2023	V5 to V6	Updated	WWAN CAT in At a Glance section
	V6 to V7		

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