Overview

HP ProBook 455 15.6 inch G10 Notebook PC



Left

- 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)

- 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



Right

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



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 39.6 cm (15.6") 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.
- 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 tests ¹
- Battery options 42.75 Wh and 51.3 Wh
- Battery life up to 17 hours 15 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 455 15.6 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.



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

39.6 cm (15.6") 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}

39.6 cm (15.6") diagonal FHD UWVA eDP anti-glare Low Blue Light, bent, 400 nits, 100% sRGB for HD Webcam (1920 x 1080) with HP Eve Ease ^{7,8}

39.6 cm (15.6") diagonal FHD UWVA eDP anti-glare, bent, 250 nits, 45% NTSC for 5MP+IR camera (1920 x 1080) ^{7,8} 39.6 cm (15.6") diagonal FHD UWVA eDP anti-glare, narrow bezel bent, 250 nits, 45% NTSC for HD camera for WWAN (1920 x 1080) ^{7,8}

39.6 cm (15.6") diagonal FHD UWVA eDP anti-glare, narrow bezel bent, 250 nits, 45% NTSC for HD Webcam (1920 x 1080) ^{7,8} 39.6 cm (15.6") diagonal FHD UWVA eDP 1.2 w/o PSR anti-glare, narrow bezel bent, 250 nits, 45% NTSC (1920 x 1080) ^{7,8} 39.6 cm (15.6") diagonal HD SVA eDP anti-glare, narrow bezel bent, 250 nits, 45% NTSC for HD Webcam (1366 x 768) ^{7,8} 39.6 cm (15.6") diagonal HD SVA eDP 1.2 w/o PSR anti-glare, narrow bezel bent, 250 nits, 45% NTSC (1366 x 768) ^{7,8}

Touch

39.6 cm (15.6") 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

39.6 cm (15.6") 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)

15"

39.6 cm (15") 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.



DOCKING (Sold Separately)

Docking station model #1HP Thunderbolt 120W G4 DockDocking station model #2HP Thunderbolt 280W G4 Dock

Docking station model #3 HP USB-C G5 Dock

Docking station model #4HP 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 39.

STORAGE AND DRIVES

Primary M.2 Storage

1 TB PCIe® Gen4x4 NVMe™ M.2 SSD TLC ^{11,13} 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.
- 13. Available only to HK (Hong Kong), TW (Taiwan) and CN (China).

MEMORY

Maximum Memory

32 GB DDR4-3200 MT/s SDRAM 14

Memory

32 GB DDR4-3200 MT/s SDRAM (2 x 16 GB) ¹⁴
16 GB DDR4-3200 MT/s SDRAM (1 x 16 GB) ¹⁴
16 GB DDR4-3200 MT/s SDRAM (2 x 8 GB) ¹⁴
8 GB DDR4-3200 MT/s SDRAM (1 x 8 GB) ¹⁴
8 GB DDR4-3200 MT/s SDRAM (2 x 4 GB) ¹⁴
4 GB DDR4-3200 MT/s SDRAM (1 x 4 GB) ¹⁴

Memory Slots

2 SODIMM

Both slots are accessible / upgradeable by IT or self-maintainers only. DDR4 PC4 SODIMMS, system runs at 3200 MT/s $\,$

Supports Dual Channel Memory

14. Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.



NETWORKING/COMMUNICATIONS

WLAN

Realtek 8852CE Wi-Fi 6E + Bluetooth® 5.3 M.2 2230 PCI-e+USB WW WLAN Wireless Card ¹⁵ Mediatek RZ616 Wi-Fi 6E + Bluetooth® 5.3 M.2 2230 PCI-e+USB WW WLAN Wireless Card ¹⁵

WWAN

Intel® XMM™ 7560 R+ LTE-Advanced Pro WWAN 16

Miracast

Native Miracast Support 17

Ethernet

Realtek RTL8111HSH 10/100/1000 Integrated NIC 18

- 15. 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.
- 16. 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.
- 17. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
- 18. 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 ¹⁹
5 MP + IR camera for face authentication with Windows Hello

- 7. HD content required to view HD images.
- 19. 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



SOFTWARE AND SECURITY

Preinstalled Software

Software

HP Quick Drop 20

HP PC Hardware Diagnostics Windows

mvHF

HP Smart Support [download] 21

HP Services Scan 22

HP Connection Optimizer

HP Hotkey Support

HP Support Assistant 23

HP Notifications

HP Privacy Settings

HP Power Manager 24

Buy Microsoft Office (Sold separately)

Manageability Features

HP Image Assistant Gen5 (download)

HP Manageability Integration Kit (download) 25

HP Client Management Script Library (download)

HP Driver Packs (download)

HP Cloud Recovery 26

HP Client Catalog (download)

HP Connect²⁷

Security Management

HP Wolf Security of Business 28 includes:

HP Sure Click 29

HP Sure Sense 30

HP Sure Run Gen5 31

HP Sure Recover Gen5 32

HP Sure Start Gen6 33

HP Tamper Lock

HP Sure Admin 34

HP Client Security Manager Gen7 35

BIOS

HP BIOSphere Gen6 36

HP Secure Erase 37

Absolute Persistence Module 38

HP DriveLock & Automatic DriveLock

BIOS Update via Network

HP Wake on WLAN

HP Fingerprint Sensor 39

Secured-Core PC Enable 40

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

- 20. 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.
- 21. 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.
- 22. 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
- 23. HP Support Assistance requires Windows and Internet Access
- 24. HP Power Manager requires Windows 10 and higher and can be downloaded from the Microsoft Store.
- 25. HP Manageability Integration Kit can be downloaded from
- http://www8.hp.com/us/en/ads/clientmanagement/overview.html.
- 26. 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.
- 27. 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.
- 28. 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.
- 29. HP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.
- 30. HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS.
- 31. HP Sure Run Gen5 is available on select HP PCs and requires Windows 10 and higher.
- 32. 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
- 33. HP Sure Start Gen7 is available on select HP PCs and requires Windows 10 and higher
- 34. 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
- 35. HP Client Security Manager Gen7 requires Windows and is available on the select HP Elite and Pro PCs.
- 36. HP BIOSphere Gen6 features may vary depending on the platform and configuration.
- 37. 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™.
- 38. 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,



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

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

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

40. 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 41

AC Adapter 45 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.8m 41

AC Adapter 45 Watt Smart nPFC Standard C8 for 2 prong Barrel 4.5mm Right Angle 41

AC Adapter 65 Watt nPFC Standard USB Type-C® Straight 1.8m 41

AC Adapter 65 Watt Smart nPFC EM Barrel 4.5mm 41

AC Adapter 65 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.8m 41

Battery

HP Long Life 3-cell, 42.75 Wh polymer ^{42,43} HP Long Life 3-cell, 51.3 Wh polymer ^{42,43}

Power Cord

3-wire plug - 1m 2-wire plug - 1m

Battery Life

Up to 14 hours 30 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) 44

Up to 17 hours 15 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) 44

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

- 41. Availability may vary by country.
- 42. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 43. 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.
- 44. 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 3.86 lb ⁴⁵ Starting at 1.750 kg ⁴⁵

Product Weight - 51.3 Wh

Starting at 3.91 lb ⁴⁵ Starting at 1.770 kg ⁴⁵

Product Dimensions (W x D x H)

14.14 x 9.21 x 0.78 in 35.94 x 23.39 x 1.99 cm

Packaging Dimensions (W x D xH) 46

12"-15" boxes (305mm height): 1200mm x 1000mm x 1080mm 16"-17" boxes (345mm height): 1200mm x 1000mm x 1200mm

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

46. 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 47
- 1 RJ-45
- 1 Headphone/microphone combo jack
- 1 AC power
- 1 Nano SIM slot for WWAN (optional)

47. 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. 48

48. 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-5

CSA/UL 62368-1 Yes ENERGY STAR® Yes⁴⁹

EPEAT® Gold in the United States 50

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 Yes Korea KCC/KC/KES Yes **Ukraine NSoC/TEC** Yes **EAEU Compliance** Yes Saudi Arabian Compliance Yes TC0 Yes Low Blue Light Yes **WW RoHS** Yes



49. Configurations of the HP ProBook 455 15.6 inch G10 Notebook PC that are ENERGY STAR® qualified are identified as HP ProBook 455 15.6 inch G10 Notebook PC ENERGY STAR on HP websites and on http://www.energystar.gov. 50. 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 15.6 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) 350.960 x 205.740 mm (max)

Diagonal Size 15.6 inch

Thickness 3.2mm/ 5.2mm (PCB) (max)

Interface eDP 1.2

Surface Treatment Anti-Glare On-cell

Touch Enabled Yes¹

Contrast Ratio600:1 (typ.)Refresh Rate60 HzBrightness250 nits

Pixel Resolution - Format 1920 x 1080 (FHD)

Backlight LED

Pixel ResolutionRGB StripeColor Gamut CoverageNTSC 45%Color Depth6 bits

Viewing Angle UWVA 85/85/85

Low Blue Light No

Power Consumption (W, EBL@ 150nits

max/ 200nits max)

2.54 (Max) / 3.12 (Max)

15.6 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)
 349.46 x 204.79 max

 Active Area
 344.16 x 193.59 typ

Weight 310 (max)
Diagonal Size 15.6

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



Color Gamut Coverage sRGB 100%
Color Depth 8 bits

Viewing Angle UWVA 89/89/89

Low Blue Light Yes

Power Consumption (W, EBL@ 150nits

max/200nits max)

1.27 (max) / 1.5 (max)

Panel LCD 15.6 inch FHD (1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP 1.2 w/o PSR bent NWBZ

 Outline Dimensions (W x H)
 350.960 x 205.540mm (max)

 Active Area
 344.160 x 193.590 mm (typ.)

Weight370 g (max)Diagonal Size15.6 inchSurface TreatmentAnti-Glare

Touch Enabled No

Contrast Ratio600:1 (typ.)Refresh Rate60 HzBrightness250 nits

Pixel Resolution - Format 1920 x 1080 (FHD)

BacklightLEDPixel ResolutionRGB Stripe

Color Gamut Coverage NTSC 45%

Color Depth 6 bits (Hi FRC supportive w/ condition to enable)

Viewing Angle UWVA 85/85/85

Low Blue Light No

Power Consumption (W, EBL@ 150nits

max/ 200nits max)

2.62 (Max) / 3.27 (Max)

Panel LCD 15.6-in HD (1366x768) Anti-Glare WLED SVA 45percent cg 250nits eDP 1.2 w/o PSR NWBZ bent

 Outline Dimensions (W x H)
 350.960 x 205.540 mm (max)

 Active Area
 344.230 x 193.540 mm (typ.)

Weight 370 g (max)

Diagonal Size 15.6 inch

Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio300:1 (typ.)Refresh Rate60 HzBrightness250 nits

Pixel Resolution - Format 1366 x 768 (HD)

BacklightLEDPixel ResolutionRGB StripeColor Gamut CoverageNTSC 45%



Color Depth 6 bits

Viewing Angle SVA 45/45/15/35

Low Blue Light No

Power Consumption (W, EBL@ 150nits

max/ 200nits max)

2.49 (Max) / 2.78 (Max)



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	PCle	NVMe
-----------	------	------	------

Value

Form Factor M.2 2230
Capacity 128GB
NAND Type QLC

Interface PCIe NVMe

Minimum Sequential Read $2000 \text{ MB/s} \pm 10\%$ Minimum Sequential Write $600 \text{ MB/s} \pm 10\%$ Logical Blocks250,069,680FeaturesPyrite; TRIM; L1.2

SSD 256GB 2230 PCIe NVMe

Value

Form Factor M.2 2230
Capacity 256 GB
NAND Type QLC
Interface PCIe NVMe

Minimum Sequential Read $2000 \text{ MB/s} \pm 10\%$ Minimum Sequential Write $900 \text{ MB/s} \pm 10\%$ Logical Blocks500,118,192FeaturesPyrite; TRIM; L1.2

SSD 256GB 2280 PCIe NVMe

Value

Form Factor M.2 2280
Capacity 256GB
NAND Type QLC
Interface PCIe NVMe

Minimum Sequential Read $2000 \, MB/s \pm 10\%$ Minimum Sequential Write $900 \, MB/s \pm 10\%$ Logical Blocks500,118,192FeaturesPyrite; TRIM; L1.2

SSD 512GB 2280 PCIe NVMe

Value

Form Factor M.2 2280
Capacity 512GB
NAND Type QLC
Interface PCIe NVMe

Minimum Sequential Read $2200 \text{ MB/s} \pm 10\%$ Minimum Sequential Write $1000 \text{ MB/s} \pm 10\%$ Logical Blocks1,000,215,216FeaturesPyrite; TRIM; L1.2

SSD 1 TB 2280 PCIe NVMe

Value¹

Form Factor M.2 2280
Capacity 1TB
NAND Type TLC

InterfacePCIe NVMe Gen4X4Minimum Sequential Read3200 MB/s ± 10%Minimum Sequential Write2700 MB/s ± 10%Logical Blocks2,000,409,264FeaturesPyrite 2.0; TRIM; L1.2

1. Available only to HK (Hong Kong), TW (Taiwan) and CN (China).



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 IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n

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 •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 5.955 – 6.415 GHz 6.435 – 6.515 GHz 6.535 – 6.875 GHz 6.895 – 7.115 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

• 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

Ad-hoc (Peer to Peer)

Models

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

Output Power³ • 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
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 HE160(5GHz): +10dBm minimum

Power Consumption • 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

802.11ax HE160(6GHz): +10dBm minimum

Radio disabled: 8 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

Receiver Sensitivity⁴ •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(HE80): -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

Frequency Band 2402 to 2480 MHz

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

Bluetooth Profiles Supported

BT4.1-ESR 5/6/7 Compliance

LE Link Layer Ping LE Dual Mode

LE Link Laver

LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels

Train Nudging & Interlaced Scan

BT4.2 ESR08 Compliance

LE Secure Connection- Basic/Full LE Privacy 1.2 -Link Layer Privacy

LE Privacy 1.2 - Extended Scanner Filter Policies

LE Data Packet Length Extension

FAX Profile (FAX)

Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

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

- 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	Wireless LAN Standards	IEEE 802.11a
+ Bluetooth® 5.3 Wireless		IEEE 802.11b
Card (802.11ax 2x2,		IEEE 802.11g
supporting gigabit data		IEEE 802.11n
rate)¹		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

• 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 2.4GHz (MIMO, typical):

• 802.11b: +18dBm • 802.11g: +16.5dBm

802.11n/ac/ax (HT20/VHT20/HE20): +16dBm
 802.11n/ac/ax (HT40/VHT40/HE40): +12.5dBm

5GHz (MIMO, typical): • 802.11a: +13dBm

802.11n/ac/ax (HT20/VHT20/HE20) : +13.5dBm802.11n/ac/ax (HT40/VHT40/HE40) : +12.5dBm

• 802.11ac/ax (VHT80/HE80): +11.5dBm

• 802.11ax HE160 : +11.5dBm 6GHz LPI mode (MIMO, typical)::

• 802.11a: 0dBm

802.11ax HE20: +1dBm
802.11ax HE40: +4dBm
802.11ax HE80: +7dBm
802.11ax HE160: +7.5dBm

Power Consumption

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

2.4GHz (SISO):

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

5GHz (SISO):

• 802.11a, 54Mbps : -71dBm maximum



802.11n, MCS07: -64dBm maximum
 802.11ac, MCS9: -52dBm maximum

•802.11ax, MCS11(HE80/HE160): -46dBm maximum

6GHz (SISO):

802.11a, 54Mbps: -71dBm 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

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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

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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 Microsoft Windows Bluetooth Software

Supported 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 Low Voltage Directive

CE Mark

ETS 300 328

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

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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)

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BT5.2

ESR9/10 Compliance

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2Mbps LE LE Long Range

Windows BT profiles support

BT5.3

Periodic Advertisement interval

Encryption key size control enhancements

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Intel® XMM™ 7560 R+ LTE-Advanced Pro 1

Technology/Operating

GPS

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 bands

(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). 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

Wireless protocol standards 3GPP Release 12 LTE Specification DL-CAT.16, DL 100MHz BW

throughput up to 978Mbps; UL-CAT.13 40MHz throughput up to

150Mbps

WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification Standalone GPS/Beidou/Glonass, A-GPS (MS-A, MS-B)

GPS bands 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 LTE: 1,200 mA (peak); 900 mA (average) consumption HSPA+: 1,100 mA (peak); 800 mA (average)

Form Factor M.2, 3042-S3 Key B

Weight 6 q

Dimensions 42 x 30 x 2.3 mm

(Length x Width x Thickness)

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.

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 Disconnetion: 25mW

100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW

Power ACPI compliant – multiple power modes

Management 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



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 nPF Standard USB Type C[®] Straight 1.8m

AC Adapter 45 Watt nPFC Dimensions (H x W x D)

3.701 x 1.693 x 1.071 in (9.4x4.3x2.72cm)

Weight

Output

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 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 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)

AC Adapter 45 Watt Smart Dimensions (H x W x D)

nPFC Standard Barrel 4.5mm Right Angle 1.8m

Weight

3.74 x 1.772 x 1.043 in (9.5x4.5x2.65cm)

0.44 lb (200 g) max (Not including power cord. Power cord varies by

country.)

Input 100 ~ 240VAC

> **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 **Output power** 45W

> **DC** output 19.5V

Hold-up time 100% load 5ms at 115 Vac input/80% load

10ms at 115 Vac input

Output current limit <8.0A

Connector 4.5mm Barrel Type

Environmental Design Operating

32°F to 95°F (0°to 35°C) temperature

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%

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AC Adapter 65 Watt nPFC Dimensions (H x W x D) Standard USB Type C® Straight 1.8m

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.)

100 ~ 240VAC Input

> **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%

Input frequency range 47 ~ 63 Hz

Input AC current Max. 1.6 A at 90 Vac

Output Output power 5V/15W

9V/27W 12V/60W 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 32°F to 95°F (0°to 35°C)

temperature

Non-operating (storage) -4°F to 185°F (-20°to 85°C)

temperature

Altitude 0 to 16,400 ft (0 to 5000m)

Humidity 20% to 95% **Storage Humidity** 10% to 95%

EMI and Safety 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 Dimensions (H x W x D) 4.016 x 2.165 x 1.181 in (10.2x5.5x3cm)

Weight

nPFC EM Barrel 4.5mm

menoralis (in the target) in the first term (in the target)

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 32°F to 95°F (0°to 35°C)

temperature

Non-operating (storage) -4°F to 185°F (-20°to 85°C)

temperature

Altitude 0 to 16,400 ft (0 to 5000m)



Humidity 20% to 95%

Storage Humidity 10% to 95%

EMI and Safety Certifications

CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards - IEC60950-1 and IEC62368-1: 2018.

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CISPR32 Class B, CCC and CECP, BIS, UKCA DoC

AC Adapter 65 Watt Smart Dimensions (H x W x D)

nPFC Standard Barrel 4.5mm Right Angle 1.8m

Weight

3.543 x 2.008 x 1.122 in (9.0x5.1x2.85cm)

0.55 lb (250 g) max (Not including power cord. Power cord varies by

country.)

100 ~ 240VAC Input

> **Input Efficiency** 88.0 % at 115 Vac and 89.0 % at 230Vac

Input frequency range 47 ~ 63 Hz

Max. 1.7 A at 90 Vac **Input AC current**

Output **Output power** 65W

DC output

Hold-up time 100% load 5ms at 115 Vac input/80% load

10ms at 115 Vac input

Output current limit <11.0A

Connector

Environmental Design

4.5mm Barrel Type **Operating**

temperature

32°F to 95°F (0°to 35°C)

Non-operating (storage) -4°F to 185°F (-20°to 85°C)

temperature

Altitude 0 to 16,400 ft (0 to 5000m)

Humidity 20% to 95% **Storage Humidity** 10% to 95%

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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

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 capacity 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 No

Available

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 capacity** 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

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** Capacitive Sensor type 508 DPI **DPI** resolution Scan area 80x80 pixels

<3% **False Rejection Rate False Acceptance Rate** < 0.001% **Mobile Voltage Operation** 2.7~3.6V -20°C - +80°C **Operating Temperature**

Current Consumption

Image

35mA peak

Low Latency Wait For

Finger

900uA

Capture Rate: 50 frame/sec **Capture Rate ESD Resistance** IEC 61000-4-2 4B (+15KV) **Detection Matrix** 508 dpi / 4x4mm sensor area



Technical Specifications

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: • IT ECO declaration • US ENERGY STAR® • US Federal Energy Management Program (FEMP) • EPEAT® Gold registered in the United States. See http://www.epeat.net for registration status in your country. • TCO Certified • China Energy Conservation Program (CECP) • China State Environmental Protection Administration (SEPA) • Taiwan Green Mark • Korea Eco-label • Japan PC Green label*			
Sustainable Impact Specifications	 Product Carbon Footprint (hp.com) Ocean-bound plastic in Speaker 10% post-consumer recycled plastic 50% recycled metal Low halogen Outside Box and corrugated cushions are 100% sustainably sourced and recyclable Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable Bulk packaging available 			
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, 50Hz	
Normal Operation (Sort	4.04	4.34	4.37	
idle) Normal Operation (Long	0.86	1.02	0.7	
idle) Sleep	0.86	1.02	0.81	
Off	0.3	0.32	0.3	
	NOTE: Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.			
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz	
Normal Operation (Short idle)	1.38 BTU/hr	14.8 BTU/hr	14.9 BTU/hr	
Normal Operation (Long idle)	2.9 BTU/hr	3.5 BTU/hr	2.4 BTU/hr	
Sleep	2.9 BTU/hr	3.5 BTU/hr	2.8 BTU/hr	



Technical Specifications

Declared Noise Emissions	Sound Power Sound Pressure				
(in accordance with		(L _{WAd} , bels)		(L _{pAm} , decibels)	
ISO 7779 and ISO 9296)	(LWAU, DCt3)		(LpAm, decibets)		
Typically Configured — Idle		2.6	13.	3.2	
Fixed Disk – Random writes				3	
Optical Drive – Sequential reads		3.8	27.	5	
Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.				
Additional Information	This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC.				
		HP product is designed to copment (WEEE) Directive – 20	omply with the Waste Electrica 102/96/EC.	al and Electronic	
		product is in compliance wit king Water and Toxic Enforce	th California Proposition 65 (St ement Act of 1986).	ate of California; Safe	
		product is in compliance wit v.epeat.net	th the IEEE 1680 (EPEAT) stanc	lard at the Gold level, see	
		tics parts weighing over 25 o	grams used in the product are	marked per ISO11469 and	
	• This	product is 93.3% recycle-ab	ole when properly disposed of	at end of life.	
Packaging Materials	External:	PAPER/Corrugated		245 g	
		PAPER/Paperboard		50 g	
		PAPER/Molded Pulp		96 g	
	Internal:	PLASTIC/Polyethylene low	v density-LDPE	10 g	
	The plastic p	ackaging material contains	at least 0.0% recycled content		
	The corrugated paper packaging materials contains at least 61.0% recycled content.				
RoHS Compliance	HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam.			bstances (RoHS) Directive	
	We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products.				
	We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the scope of the commitment to include further restricted substances as regulations continue to evolve.				
	To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.				
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/supplychain/gen_specifications.html):				
	CertCertCadıChlo	 Asbestos Certain Azo Colorants Certain Brominated Flame Retardants – may not be used as flame retardants in plastics Cadmium 			



Technical Specifications

<u> </u>					
	Bis(2-Ethylhexyl) phthalate (DEHP)				
	Benzyl butyl phthalate (BBP)				
	Dibutyl phthalate (DBP)				
	Diisobutyl phthalate (DIBP)				
	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, and certain retail packaging has been voluntarily removed from most applications. 				
	Radioactive Substances				
	Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)				
Packaging Usage	HP follows these guidelines to decrease the environmental impact of product packaging:				
	Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in				
	packaging materials.				
	 Eliminate the use of ozone-depleting substances (ODS) in packaging materials. 				
	 Design packaging materials for ease of disassembly. 				
	 Maximize the use of post-consumer recycled content materials in packaging materials. 				
	 Use readily recyclable packaging materials such as paper and corrugated materials. 				
	 Reduce size and weight of packages to improve transportation fuel efficiency. 				
	Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.				
End-of-life Management	HP offers end-of-life HP product return and recycling programs in many geographic areas. To				
and Recycling	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.				
	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.				
HP, Inc. Corporate	For more information about HP's commitment to the environment:				
Environmental					
Information	Global Citizenship Report				
	http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html				
	Eco-label certifications http://www8.hp.com/us/en/hp-information/environment/ecolabels.html				
	ISO 14001 certificates:				
	http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842				
	and				
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf				
	The state of the s				



 Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard. External power supplies, WWAN modules, power cords, cables and peripherals exclude 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic materials. Plastic cushions are made from >90% recycled plastic. Recycled metal is expressed as a percentage of the total weight of the metal accordin to ISO 14021 definitions for metal parts over 25 grams 	footnotes
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COUNTRY OF ORIGIN

China



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

DOCKING (Sold Separately)

Docking station model #1

Total number of supported displays

(incl. the notebook display)

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

HP Thunderbolt 120W G4 Dock

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

Total number of supported displays

(incl. the notebook display)
Max. resolutions supported

HP Thunderbolt 280W G4 Dock

4

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)

Docking station model #3

HP USB-C G5 Dock

Total number of supported displays

(incl. the notebook display)
Max. resolutions supported

Dual 5K@ 30Hz + (1) 4K UHD (multi-function mode)

Dock Connectors

1xHDMI. 2xDP

Technical limitations

Maximum resolution and display support is dependent on the maximum

capability of the notebook.

Highest resolution with dual displays is two 8K@ 60Hz host in High Resolution

mode.

3

3

Three maximum displays supported are two 5K@ 30 Hz on DP ports plus one 4K

UHD@ 30 Hz on HDMI in Multi-function mode

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.

Docking station model #4

HP USB-C/A Universal G2 Dock

Total number of supported displays

(incl. the notebook display)
Max. resolutions supported

Dual 4K @ 60Hz

Single 5K @ 60Hz

Dock Connectors

1xHDMI, 2xDP

Technical limitations

Maximum resolution and display support is dependent on the maximum

capability of the notebook.

The best resolution for dual or triple displays is 4K UHD@ 60Hz.

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.

Docking station model #5

HP USB-C G5 Essential Dock

Total number of supported displays

(incl. the notebook display)
Max. resolutions supported

3

For hosts that support DisplayPort 1.4 with Display Stream Compression:

3x FHD @ 60 Hz 3x QHD @ 60 Hz 3x 4K @ 60 Hz

For hosts that support DisplayPort 1.3/1.4:

3x FHD @ 60 Hz 3x QHD @ 60 Hz 2x 4K @ 60 Hz

Dock Connectors

1 x HDMI. 2 x DP

Technical limitations

Video resolution depends on the capability of the host machine. This dock

provides up to 65W of power delivery to the host machine.



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

Туре	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 215 15.6 Laptop Backpack	35L98AA#ACJ
	HP 315 15.6 Laptop Backpack	35L97AA#ACJ
	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 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 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	4JOG4AA
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
Keyboard/Combo	HP 125 WD USB Keyboard	266C9AA
	HP 320K WD USB Keyboard	9SR37AA





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

IP 355 Compact Multi-Device BT Keyboard IP 455 Programmable Wireless Keyboard IP 975 USB+BT Dual-Mode Wireless Keyboard IP 155 Wired Mouse and Keyboard Combo IP 225 Wired Mouse and Keyboard Combo IP 235 Wireless Mouse and Keyboard Combo IP 655 Wireless Keyboard and Mouse Combo IP Wired Desktop 320MK Mouse and Keyboard IP Wireless Rechargeable 950MK Mouse and Keyboard IP 125 USB-A Wired Mouse IP 128 USB Laser Wired Mouse IP 155 USB-A Wired Mouse	4R177AA 3Z726AA 5B8COAA#ACJ 286J4AA 1Y4DOAA 4R009AA 9SR36AA 3M165AA
IP 975 USB+BT Dual-Mode Wireless Keyboard IP 155 Wired Mouse and Keyboard Combo IP 225 Wired Mouse and Keyboard Combo IP 235 Wireless Mouse and Keyboard Combo IP 655 Wireless Keyboard and Mouse Combo IP Wired Desktop 320MK Mouse and Keyboard IP Wireless Rechargeable 950MK Mouse and Keyboard IP 125 USB-A Wired Mouse	5B8COAA#ACJ 286J4AA 1Y4DOAA 4R009AA 9SR36AA 3M165AA
IP 155 Wired Mouse and Keyboard Combo IP 225 Wired Mouse and Keyboard Combo IP 235 Wireless Mouse and Keyboard Combo IP 655 Wireless Keyboard and Mouse Combo IP Wired Desktop 320MK Mouse and Keyboard IP Wireless Rechargeable 950MK Mouse and Keyboard IP 125 USB-A Wired Mouse	286J4AA 1Y4D0AA 4R009AA 9SR36AA 3M165AA
IP 235 Wireless Mouse and Keyboard Combo IP 655 Wireless Keyboard and Mouse Combo IP Wired Desktop 320MK Mouse and Keyboard IP Wireless Rechargeable 950MK Mouse and Keyboard IP 125 USB-A Wired Mouse IP 128 USB Laser Wired Mouse	1Y4D0AA 4R009AA 9SR36AA 3M165AA
IP 655 Wireless Keyboard and Mouse Combo IP Wired Desktop 320MK Mouse and Keyboard IP Wireless Rechargeable 950MK Mouse and Keyboard IP 125 USB-A Wired Mouse IP 128 USB Laser Wired Mouse	4R009AA 9SR36AA 3M165AA 265A9AA
IP Wired Desktop 320MK Mouse and Keyboard IP Wireless Rechargeable 950MK Mouse and Keyboard IP 125 USB-A Wired Mouse IP 128 USB Laser Wired Mouse	9SR36AA 3M165AA 265A9AA
IP Wireless Rechargeable 950MK Mouse and Keyboard IP 125 USB-A Wired Mouse IP 128 USB Laser Wired Mouse	3M165AA 265A9AA
IP 125 USB-A Wired Mouse IP 128 USB Laser Wired Mouse	265A9AA
IP 128 USB Laser Wired Mouse	
IP 155 USB-A Wired Mouse	265D9AA
	5B8B7AA#ACJ
IP 235 Wireless 2.4GHz Slim Wireless Mouse	4E407AA
IP 320M USB-A Wired Mouse	9VA80AA
IP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse	3B4Q5AA
IP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse	6E6F0AA
IP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	6H1A5AA
IP Creator USB-A+Bluetooth 935 Wireless Mouse Black	1D0K8AA
IP USB Premium Wireless Mouse	1JR31AA
IP USB-A+Bluetooth Multi-Device 635 Wireless Mouse Black	1D0K2AA
IP USB-A+Bluetooth Travel Bluetooth Mouse	6SP30AA
IP 65W 4.5 mm Smart AC Power Adapter	H6Y89AA
IP 65W GaN USB-C Laptop Charger	600Q7AA
IP 65W USB-C Laptop Charger	671R3AA
IP 65W USB-C LC AC Power Adapter	1P3K6AA
IP 90W 4.5 mm Smart AC Power Adapter	H6Y90AA
IP USB DVD-Writer EXT ODD	F2B56AA
IP Nano Keyed Cable Lock	1AJ39AA
IP Nano Master Keyed Cable Lock	1AJ40AA
IP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA
IP Combination Nano Cable Lock	63B28AA
	63B31AA
	P 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse P 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse P Creator USB-A+Bluetooth 935 Wireless Mouse Black P USB Premium Wireless Mouse P USB-A+Bluetooth Multi-Device 635 Wireless Mouse Black P USB-A+Bluetooth Travel Bluetooth Mouse P 65W 4.5 mm Smart AC Power Adapter P 65W GaN USB-C Laptop Charger P 65W USB-C Laptop Charger P 65W USB-C LC AC Power Adapter P 90W 4.5 mm Smart AC Power Adapter P 90W 4.5 mm Smart AC Power Adapter P 90W 4.5 mm Smart AC Power Adapter P USB DVD-Writer EXT ODD P Nano Keyed Cable Lock P Nano Master Keyed Cable Lock P SureKey Standard/Nano/Wedge Cable Lock



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
May 18, 2023	V6 to V7	Updated	Storage and Drives section
June 5, 2023	V7 to V8	Updated	Storage and Drives section
October 3, 2023	V8 to V9	Updated	Frequency bands for Realtek 8852CE in Networking section
April 24, 2024	V9 to V10	Updated	Memory Section

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