Overview

HP ProBook 455 G8 Notebook PC



- 1. Internal Microphones (2)
- 2. Webcam LED (Optional)
- 3. HD and IR Camera (Optional)
- 4. Camera Shutter (Only available with webcam)
- 5. IR Camera LED (Optional)

- Left
- 5. Clickpad
- 6. SuperSpeed USB Type-A 5Gbps signaling rate Port
- 7. Ethernet Port (RJ-45)
- 8. Nano Security Lock Slot (Lock sold separately)



Overview



Right

- 1. Power Connector
- SuperSpeed USB Type-C[®] 10Gbps signaling rate (USB Power Delivery, DisplayPort[™] 1.4)
- **3.** SuperSpeed USB Type-A 5Gbps signaling rate Charging Port
- 4. SuperSpeed USB Type-A 5Gbps signaling rate Port
- 5. HDMI Port 1.4b (Cable not included)

- 6. Audio Combo Jack
- 7. Micro SD Card Reader (Select Models)
- 8. Touch Fingerprint Sensor (Select models)



Overview

AT A GLANCE

- A new compact design with lift-anywhere edge and configurable all metal chassis
- Choice of AMD Cezanne[™] 5000 series mobile processors, R3, R5, R5 Pro, R7 and R7 Pro
- Preinstalled with Windows 10 versions or FreeDOS
- Integrated AMD Radeon[™] Vega graphics
- Fast and upgradeable dual channel DDR4 SODIMM memory up to 32 GB
- Choice of 39.62 cm (15.6") diagonal HD, Ultra-Wide Viewing Angle FHD, and Privacy Panel option
- Features redesigned quiet and responsive HP Keyboard with the HP Programmable key and backlit options
- Choice of solid state drives up to 1 TB
- Multi-layered security with HP SureStart Gen6, HP Privacy Camera, HP Sure View Gen3, HP Sure Sense, HP Sure Click, and optional Touch Fingerprint sensor
- Supports wireless options for connectivity on the go including gigabit-speed Wi-Fi 6
- Supports fast charging (50% in 30 minutes) with no impact on battery recharge cycles
- Designed to support optional HP docking solutions including the HP Universal Dock G5
- Undergoes MIL-STD 810H tests ¹
- Battery Life 14 hours and 45 minutes

1. MIL-STD 810H 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.



PRODUCT NAME

HP ProBook 455 G8 Notebook PC

OPERATING SYSTEM

 Preinstalled
 Windows 10 Pro 64 – HP recommends Windows 10 Pro for business ¹

 Windows 10 Pro 64 (National Academic License) ²

 Windows 10 Home 64 ¹

 Windows 10 Home Single Language 64 ¹

 Windows 10 Pro (Windows 10 Enterprise available with a Volume Licensing Agreement) ¹

 Windows 10 Enterprise 64¹ (Web support)

 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 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com/.

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

Note: HP tested Windows 10, version 1909 on this platform. For testing information on newer versions of Windows 10, please see https://support.hp.com/document/c05195282.

PROCESSORS

AMD Ryzen[™] 3 5400U APU with AMD Radeon[™] Graphics (2.6 GHz base clock, up to 4.0 GHz max boost clock, 8 MB L3 cache, 4 cores)^{3,4,5,6}

AMD Ryzen[™] 5 5600U APU with AMD Radeon[™] Graphics (2.3 GHz base clock, up to 4.2 GHz max boost clock, 16MB L3 cache, 6 cores) ^{3,4,5,6}

AMD Ryzen[™] 7 5800U APU with AMD Radeon[™] Graphics (1.9 GHz base clock, up to 4.4 GHz max boost clock, 16 MB L3 cache, 8 cores)^{3,4,5,6}

AMD Ryzen[™] 5 PRO 5650U APU with Radeon[™] Graphics (2.3 GHz base clock, up to 4.2 GHz max boost clock, 16 MB L3 cache, 6cores) ^{3,4,5,6}

AMD Ryzen[™] 7 PRO 5850U APU with Radeon[™] Graphics (1.9 GHz base clock, up to 4.4 GHz max boost clock, 16 MB L3 cache, 8cores) ^{3,4,5,6}

Processor Family

AMD Cezanne[™] 5000 Series Mobile Processors ⁶



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

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

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.

GRAPHICS

Integrated AMD Radeon™ Graphics

Supports Supports HD decode, DX12, HDMI 1.4 ⁷

7. HDMI cable not included.



DISPLAY

Non-Touch

39.6 cm (15.6") diagonal HD SVA eDP anti-glare, narrow bezel bent, 250 nits, 45% NTSC (1366 x 768) ^{9,10}

39.6 cm (15.6") diagonal HD SVA eDP anti-glare, narrow bezel bent, 250 nits, 45% NTSC for HD camera (1366 x 768) ^{9,10}
39.6 cm (15.6") diagonal HD SVA eDP anti-glare, narrow bezel bent, 250 nits, 45% NTSC for HD+IR camera (1366 x 768) ^{9,10}
39.6 cm (15.6") diagonal FHD UWVA eDP+PSR anti-glare, low power narrow bezel bent, 400 nits, 100% sRGB for HD camera (1920 x 1080) ^{9,10}

39.6 cm (15.6") diagonal FHD UWVA eDP+PSR anti-glare, low power narrow bezel bent, 400 nits, 100% sRGB for HD+IR camera (1920 x 1080) ^{9,10}

39.6 cm (15.6") diagonal FHD UWVA eDP anti-glare, narrow bezel bent, 250 nits, 45% NTSC (1920 x 1080) 9,10

39.6 cm (15.6") diagonal FHD UWVA eDP anti-glare, narrow bezel bent, 250 nits, 45% NTSC for HD camera (1920 x 1080) ^{9,10} 39.6 cm (15.6") diagonal FHD UWVA eDP anti-glare, narrow bezel bent, 250 nits, 45% NTSC for HD + IR camera (1920 x 1080) ^{9,10}

39.6 cm (15.6") diagonal FHD UWVA eDP+PSR anti-glare, narrow bezel bent with HP Sure View Gen3 Integrated Privacy Screen, 1000 nits, 100% sRGB for HD camera (1920 x 1080) ^{9,10,11,12}

39.6 cm (15.6") diagonal FHD UWVA eDP+PSR anti-glare, narrow bezel bent with HP Sure View Gen3 Integrated Privacy Screen, 1000 nits, 100% sRGB for HD+IR camera (1920 x 1080) ^{9,10,11,12}

HDMI⁸

HDMI 1.4 up to 4K 30Hz

8. HDMI cable not included.

9. FHD/HD content required to view FHD/HD images.

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

11. Actual brightness will be lower with touchscreen or Sure View.

12. HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.



STORAGE AND DRIVES

Primary M.2 Storage

128 GB PCIe[®] NVMe[™] M.2 TLC Solid State Drive ¹³
256 GB PCIe[®] NVMe[™] M.2 Value Solid State Drive ¹³
1 TB PCIe[®] NVMe[™] M.2 TLC Solid State Drive ¹³
512 GB PCIe[®] NVMe[™] M.2 Value Solid State Drive ¹³

13. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows

10) is reserved for system recovery software.

MEMORY

Maximum Memory

32 GB DDR4-3200 SDRAM 14

Memory

32 GB DDR4-3200 SDRAM (2 x 16 GB) ¹⁴ 16 GB DDR4-3200 SDRAM (1 x 16 GB) ¹⁴ 12 GB DDR4- 3200 SDRAM (1 x 4 GB + 1 x 8 GB) ¹⁴ 8 GB DDR4-3200 SDRAM (1 x 8 GB) ¹⁴ 8 GB DDR4-3200 SDRAM (2 x 4 GB) ¹⁴ 4 GB DDR4-3200 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 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 RTL8822CE 802.11ac (2x2) and Bluetooth[®] 5 Combo ¹⁵ Intel[®] Dual Band Wireless-AC 9260 802.11a/b/g/n/ac (2x2) Wi-Fi [®]and Bluetooth[®] 5 Combo, non-vPro^{® 15} Intel[®] AX200 Wi-Fi 6 (2x2) and Bluetooth[®] 5 Combo, non-vPro^{®16}

Ethernet

Realtek 10/100/1000 GbE NIC ¹⁷

15. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 5 (802.11 ac) is backwards compatible with prior 802.11 specs.

16. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs. Only available in countries where 802.11ax is supported.

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

720p HD camera ⁹ 720p HD camera+IR Camera ^{9,18}

9.FHD/HD content required to view FHD/HD images.18. Sold separately or as an optional feature.



Technical Specifications

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Premium Keyboard, 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 Airplane Mode
- F12 Programmable key
- Print Screen
- Power Button (with LED)

Hidden Function Keys

Fn+R - Break Fn+S - Sys Rq Fn+C - Scroll Lock



SOFTWARE AND SECURITY

BIOS

HP BIOSphere Gen5¹⁹ HP Drive Lock & Automatic Drive Lock BIOS Update via Network HP Secure Erase²⁰ Absolute Persistence Module²¹ HP LAN-Wireless Protection USB enable/disable (via BIOS)

Software

HP Connection Optimizer ²² **HP Hotkey Support** myHP HP Support Assistant²³ HP QuickDrop²⁴ **HP PC Hardware Diagnostics Windows HP** Noise Cancellation Software **Touchpoint Customizer for Commercial HP** Notifications **HP Privacy Settings HP Wireless Button Driver** HP Power Manager Buy Microsoft Office (Sold separately) Microsoft Defender 25 Xerox[®] DocuShare[®] 30 day free trial offer⁴³ HP Smart Support 44

Manageability Features

HP Driver Packs (download) ²⁶ HP Manageability Integration Kit Gen4 (download) ²⁷ HP Client Catalog (download) HP Client Management Script Library (download) HP Image Assistant (download) Ivanti Management Suite (download)

Security Management

HP Pro Security Edition (Select models)²⁸ HP Fingerprint Sensor (Select models)²⁹ HP Sure Click³⁰ HP Sure Sense³¹ HP Sure Admin³² HP Wolf Pro Security Edition³³



TPM 2.0 Embedded Security Chip (Common Criteria EAL4+ Certified) (FIPS 140-2 Level 2 Certified)

19. HP BIOSphere Gen6 requires Windows 10 and is available on select HP Pro and Elite PCs. Features may vary depending on the platform and configurations

20. 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™.

21. 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/

22. HP Connection Optimizer requires Windows 10.

23. HP Support Assistant requires Windows and Internet access.

24. HP Quick Drop requires Internet access and Windows 10 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.

25. Microsoft Defender Opt in and internet connection required for updates.

26. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.

27. HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement.

28. HP Pro Security Edition is available preloaded on select HP PCs and includes HP Sure Click Pro and HP Sure Sense Pro. 3year license required. The HP Pro Security Edition software is licensed under the license terms of the HP End User License Agreement (EULA) that can be found at: https://h30670.www3.hp.com/ecommerce/common/disclaimer.do#EN_US as modified by the following: "7. Term. Unless otherwise terminated earlier pursuant to the terms contained in this EULA, the license for the HP Pro Security Edition (HP Sure Sense Pro and HP Sure Click Pro) is effective upon activation and will continue for thirty-six (36) months thereafter ("Initial Term"). At the end of the Initial Term you may either (a) purchase a renewal license for the HP Pro Security Edition from HP.com, HP Sales or an HP Channel Partner, or (b) continue using the standard versions of HP Sure Click and HP Sure Sense at no additional cost with no future software updates or HP Support." HP Pro Security Edition is optimized for the SMB environment and ships pre-configured - manageability is optional. The HP Pro Security Edition supports a limited tool set that can be used by the HP Manageability Integration Kit which can be downloaded from http://www.hp.com/go/clientmanagement.

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

30. HP Sure Click requires Windows 10 Pro or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.

31. HP Sure Sense is available on select HP PCs and is not available with Windows10 Home.

32. HP Sure Admin requires Windows 10, 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.

33. HP Wolf Pro Security Edition (including HP Sure Click Pro and HP Sure Sense Pro) is available preloaded on select SKUs and, depending on the HP product purchased, includes a paid 1-year or 3-year license. The HP Wolf Pro Security Edition software is licensed under the license terms of the HP Wolf Security Software - End-User license Agreement (EULA) that can be found at: https://support.hp.com/us-en/document/ish_3875769-3873014-16 as that EULA is modified by the following: "7. Term. Unless otherwise terminated earlier pursuant to the terms contained in this EULA, the license for the HP Wolf Pro Security Edition (HP Sure Sense Pro and HP Sure Click Pro) is effective upon activation and will continue for either a twelve (12) month or thirty-six (36) month license term ("Initial Term"). At the end of the Initial Term you may either (a) purchase a renewal license for the HP Wolf Pro Security Edition from HP.com, HP Sales or an HP Channel Partner, or (b) continue using



Technical Specifications

the standard versions of HP Sure Click and HP Sure Sense at no additional cost with no future software updates or HP Support.

43. Simply sign up and start using Xerox[®] DocuShare[®] Go. No credit card. No obligation. Data will become unavailable unless a subscription is entered before the end of the 30 day free trial period. See visit http://www.xerox.com/docusharego for details.

44. HP Smart Support is available to commercial customers through your HP Service Representative and HP Factory Configuration Services; or it can be downloaded at: http://www.hp.com/smart-support. HP Smart Support automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration data and health insights.

POWER

Power Supply

HP Smart 65 W External AC power adapter ³⁴ HP Smart 65 W EM External AC power adapter ³⁴ HP Smart 65 W USB Type-C adapter ³⁴ HP Smart 45 W External AC power adapter ³⁴ HP Smart 45 W USB Type-C adapter ³⁴

Power Cord

3-wire plug - 1m ³⁴ 2-wire plug - 1m ³⁴

Primary Battery

HP Long Life 3-cell, 45 Wh Polymer ^{35,36}

Battery Life

Up to 14 hours and 45 minutes ³⁷

Battery Weight

0.42 lb 190 q

34. Availability may vary by country.

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

36. 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.

37. Windows 10 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 http://www.bapco.com for additional details.



WEIGHTS & DIMENSIONS

Product Weight

Starting at 3.83 lb ³⁸ Starting at 1.74 kg ³⁸

Product Dimensions (w x d x h)

35.94 x 23.39 x 1.99 cm 14.15 x 9.21 x 0.78 in

38. Weight will vary by configuration.

PORTS/SLOTS

1 SuperSpeed USB Type-C[®] 10Gbps signaling rate (USB Power Delivery, DisplayPort[™] 1.4)
3 SuperSpeed USB Type-A 5 Gbps signaling rate Port (1 Charging, 1 powered port)
1 HDMI 1.4b ³⁹
1 RJ-45
1 Headphone/microphone combo jack
1 AC power

Expansion Slots 1 micro SD Supports SD, SDHC, SDXC

39. HDMI cable sold separately.



SERVICE AND SUPPORT

1-year or 3-year limited 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.⁴⁰

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



SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)	
Nominal Operating Voltage	19V
Average Operating Power	8.1W (Idle)
Integrated graphics	Yes
Discrete Graphics	N/A
	Discrete < 65W
Max Operating Power	UMA < 45W
Temperature	
Operating	32° to 95° F (0° to 35° C)
Non-operating	-4° to 140° F (-20° to 60° C)
Relative Humidity	
Operating	10% to 90%, non-condensing
Non-operating	5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature
Shock	
Operating	40 G, 2 ms, half-sine
Non-operating	200 G, 2 ms, half-sine
Random Vibration	
Operating	0.75 grms
Non-operating	1.50 grms
Altitude (unpressurized)	
Operating	-50 to 10,000 ft (-15.24 to 3,048 m)
Non-operating	-50 to 40,000 ft (-15.24 to 12,192 m)
Planned Industry Standard Certifications	
UL	Yes
CSA	Yes
FCC Compliance	Yes
ENERGY STAR [®]	Select models ⁴¹
EPEAT	EPEAT 2019 Gold in United States ⁴²
ICES	Yes
Australia /	Yes
NZ A-Tick Compliance	Yes
CCC	Yes
Japan VCCI Compliance	Yes
КС	Yes
BSMI	Yes
CE Marking Compliance	Yes
BNCI or BELUS	Yes
CIT	Yes
GOST	Yes
Saudi Arabian Compliance (ICCP)	Yes
SABS	Yes



41. Configurations of the HP ProBook 455 G8 that are ENERGY STAR[®] qualified are identified as HP ProBook 455 G8 ENERGY STAR on HP websites and on http://www.energystar.gov.

42. 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 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	Outline Dimensions (W x H x D)	350.96 x 205.54 mm (max)
(1920x1080) Anti-Glare WLED	Active Area	344.16 x 193.59 mm (typ.)
UWVA 45percent cg 250nits eDP 1.2 w/o PSR bent NWBZ	Weight	370 g (max)
	Diagonal Size	15.6 inch
	Thickness	3.0 mm/ 5.0 mm (w/PCB) (max)
	Interface	eDP 1.2 (2 lane)
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	600:1 (typ.)
	Refresh Rate	60 Hz
	Brightness	250 nits
	Pixel Resolution	1920 x 1080 (FHD)
	Format	RGB Stripe
	Backlight	LED
	Color Gamut Coverage	NTSC 45%
	Color Depth	6 bits (Hi FRC supportive w/ condition to enable)
	Viewing Angle	UWVA 85/85/85/85
		(
Panel LCD 15.6 inch FHD (1920x1080) Anti-Glare WLED	Outline Dimensions (W x H x D)	349.46 x 204.79 mm (max)
UWVA sRGB 100percent cg	Active Area	344.16 x 193.59 mm (typ.)
400nits eDP 1.4+PSR2 bent LP	Weight	325 g (max)
NWBZ	Diagonal Size	15.6 inch
	Thickness	2.6mm / 4.6mm (PCB) (max)
	Interface	eDP 1.4
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	1200:1 (typ.)
	Refresh Rate	60 Hz
	Brightness	400 nits
	Pixel Resolution	1920 x 1080 (FHD)
	Format	RGB Stripe



Color Gamut Coverage Color Depth SKGB 100% Bbit UWVA 85/85/85/85 Panel LCD 15.6-in FHD (1320x1080) Anti-Glare WLED UWVA 72percent g 1000mits eUP 1.4+PSR2 PrivacyG3 NWBZ bent Outline Dimensions (W x H x D) Active Area 349.52x 205.39 mm (max) Active Area 344.16 x 193.59 mm (typ.) Weight 350 g (max) Diagonal Size 1.56 inch 116.10max) Thickness 2.6mm / 4.5mm Max. (PCB side) Interface Interface eDP 1.4 + PSR (4 lane) Maxie Coverage Surface Treatment Anti-Glare Touch Enabled No Contrast Ratio 2000:1 (typ.) Brightness 1000 nits 1 Prixel Resolution 1920 x 1080 (FHD) Format Ref Backfight LED Color Gamut Coverage SRGB 100%. Color Gamut Coverage SRGB 100%. Color Gamut Coverage SRGB 100%. Color Joepth Boits Weight 370 g max Diagonal Size 15.6" Thickness 3.2t (panel) / 5.0t (panel+PCB) max. Interface eDP 1.2 u/o PSR NWBZ bent No Color Samut Coverage 3.2t (panel) / 5.0t (panel+PCB) max. Interface eDP 1.2 (t 1 lane) Surface Tre	-	Backlight	LED
Panel LCD 15.6-in FHD (1920x1080) Anti-Glare WLED WWV 72percent g 1000mis e0P 1.4+PSR2 PrivacyG3 NWB2 bent Outline Dimensions (W x H x D) Active Area Weight 349.52x 205.39 mm (max) 344.16 x 193.59 mm (typ.) Viewing Angle Outline Dimensions (W x H x D) Active Area Signal Size 1.5.6 inch Thickness 344.16 x 193.59 mm (typ.) 1.4+PSR2 PrivacyG3 NWB2 bent Active Area Weight 350.g (max) Diagonal Size Thickness 2.6mm / 4.5mm Max. (PCB side) Interface eDP 1.4 + PSR (4 lane) Surface Treatment Anti-Glare Touch Enabled No Contrast Ratio 2000:1 (typ.) Refresh Rate 60 Hz Brightness 1000 nits 1 Pixel Resolution 1920 x 1080 (FHD) Format RGB Backlight LED Color Gamut Coverage sRGB 100% Color Gamut Coverage sRGB 100% Color Jappth 8 bits Viewing Angle UWVA 85/85/85/85 WBZ bent To g max Diagonal Size 15.6" Thickness 3.2t (panel) / 5.0t (panel+PCB) max. Interface eDP 1.2 (1 lane) Surface Treatment Anti-Glare Touch Enabled No Contrast Ratio 300:1 (typ) Refresh Rate 60 Hz B		Color Gamut Coverage	sRGB 100%
Viewing Angle UWVA 85/85/85/85 Panel LCD 15.6-in FHD (1920x1080) Anti-Glare WLED UWVA 72percent cg 1000mits eDP 1.4+PSR2 PrivacyG3 NW82 bent Outline Dimensions (W x H x D) Active Area Weight 349.52x 205.39 mm (max) 344.16 x 193.59 mm (typ.) Viewing Angle Outline Dimensions (W x H x D) Active Area Storg (max) 349.52x 205.39 mm (max) 1.4+PSR2 PrivacyG3 NW82 bent Active Area Weight 350 g (max) Diagonal Size 15.6 inch Thickness 2.6mm / 4.5mm Max. (PCB side) Interface 6D H z Surface Treatment Antti-Glare Touch Enabled No Contrast Ratio 2000:1 (typ.) Refresh Rate 6D H z Brightness 1000 nits 1 Pixel Resolution 1920 x 1080 (FHD) Format RcB Backlight LED Color Gamut Coverage sRcB 100% Color Gamut Coverage 350.96 x 205.54 (mm) max Anti-Glare WLED SVA 45percent cg 250nits eDP 1.2 w/o PSR Active Area Weight 370 g max Diagonal Size 15.6' Thickness 32.1 (panel) / 5.0 (panel+PCB) max. Interface <th></th> <th>Color Depth</th> <th>8 bit</th>		Color Depth	8 bit
(1920x1080) Anti-Clare WLED Active Area 344.16 x 193.59 mm (typ.) UWVA 72percent cg 1000nits eDP Weight 350 g (max) Diagonal Size 15.6 inch 15.6 inch Thickness 2.6mm /4.5mm Max. (PCB side) Interface eDP 1.4 + PSR (4 lane) Surface Treatment Anti-Glare Touch Enabled No Contrast Ratio 2000:1 (typ.) Refresh Rate 60 Hz Brightness 1000 nits 1 Pixel Resolution 1920 x 1080 (FHD) Format RGB Backlight LED Color Gamut Coverage sRGB 100% Color Depth 8 bits Viewing Angle UWVA 85/85/85			UWVA 85/85/85
(1920x1080) Anti-Clare WLED Active Area 344.16 x 193.59 mm (typ.) UWVA 72percent cg 1000nits eDP Weight 350 g (max) Diagonal Size 15.6 inch 15.6 inch Thickness 2.6mm /4.5mm Max. (PCB side) Interface eDP 1.4 + PSR (4 lane) Surface Treatment Anti-Glare Touch Enabled No Contrast Ratio 2000:1 (typ.) Refresh Rate 60 Hz Brightness 1000 nits 1 Pixel Resolution 1920 x 1080 (FHD) Format RGB Backlight LED Color Gamut Coverage sRGB 100% Color Depth 8 bits Viewing Angle UWVA 85/85/85			
UWVA 72percent cg 1000nits eDP 1,4+PSR2 PrivacyG3 NWB2 bent Active Area 544,10x 193,53 mill (typ.) Weight 350 g (max) Diagonal Size 15.6 inch Thickness 2.6mm / 4.5mm Max. (PCB side) Interface eDP 1,4 + PSR (4 lane) Surface Treatment Anti-Glare Touch Enabled No Contrast Ratio 2000:1 (typ.) Refresh Rate 60 Hz Brightness 1000 nits 1 Pixed Resolution 1920 x 1080 (FHD) Format RGB Backlight LED Color Gamut Coverage SRGB 100% Color Gamut Coverage SRGB 100% Color Gamut Coverage SGB 100% Color Depth 8 bits Viewing Angle UWVA 85/85/85 NWBZ bent Outline Dimensions (W x H x D) Asti-Glare WLED SVA 45percent Active Area Kg 250nits eDP 1.2 w/o PSR Weight NWBZ bent Diagonal Size Thickness 3.2 (banel) / 5.0t (panel+PCB) max. Interface EDP 1.2 (l lane) Surface Treatment Anti-Glare Touch Enabled No Contrast Ratio 300:1 (typ) Refresh Rate 60 Hz Surface Treatment <td< th=""><th></th><th>Outline Dimensions (W x H x D)</th><th>349.52x 205.39 mm (max)</th></td<>		Outline Dimensions (W x H x D)	349.52x 205.39 mm (max)
Dury Azpercent cy fouomits eury 350 g (max) 1.4+PSR2 PrivacyG3 NWBZ bert Weight 350 g (max) Diagonal Size 15.6 inch Thickness 2.6mm / 4.5mm Max. (PCB side) Interface eDP 1.4 + PSR (4 lane) Surface Treatment Anti-Glare Touch Enabled No Contrast Ratio 2000:1 (typ.) Refresh Rate 60 Hz Brightness 1000 nits 1 Pixel Resolution 1920 x 1080 (FHD) Format RGB Backlight LED Color Gamut Coverage SRGB 100% Color Gamut Coverage SRGB 100% Color Gamut Coverage SRGB 100% Color Depth 8 bits Viewing Angle UWVA 85/85/85	• •	Active Area	344.16 x 193.59 mm (typ.)
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cg 250nits eDP 1.2 w/o PSR NWBZ bentActive AreaSurvey Statistic Stat		Outline Dimensions (W x H x D)	350.96 x 205.54 (mm) max
NWBZ bentWeight370 g maxDiagonal Size15.6"Thickness3.2t (panel) / 5.0t (panel+PCB) max.InterfacecDP 1.2 (1 lane)Surface TreatmentAnti-GlareTouch EnabledNoContrast Ratio300:1 (typ)Refresh Rate60 HzBrightness250nitsPixel Resolution1366 x 768 (HD)FormatRGBBacklightLEDColor Gamut CoverageNTSC 45%Kon DepthSonits		Active Area	344.23 x 193.54 mm (typ.)
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Refresh Rate60 HzBrightness250nitsPixel Resolution1366 x 768 (HD)FormatRGBBacklightLEDColor Gamut CoverageNTSC 45%Color Depth6 bits		Touch Enabled	No
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Pixel Resolution 1366 x 768 (HD) Format RGB Backlight LED Color Gamut Coverage NTSC 45% Color Depth 6 bits		Refresh Rate	60 Hz
Format RGB Backlight LED Color Gamut Coverage NTSC 45% Color Depth 6 bits		Brightness	250nits
Backlight LED Color Gamut Coverage NTSC 45% Color Depth 6 bits		Pixel Resolution	1366 x 768 (HD)
Color Gamut Coverage NTSC 45% Color Depth 6 bits		Format	RGB
Color Depth 6 bits		Backlight	LED
		Color Gamut Coverage	NTSC 45%
Viewing Angle SVA 45/45/15/35		Color Depth	6 bits
		Viewing Angle	SVA 45/45/15/35



STORAGE¹

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

SSD 128GB 2280 PCIe-3x2 Three		M 2 2200
Layer Cell	Form Factor	M.2 2280 128 GB
-	Capacity	TLC
	NAND Type	0.09 in (2.3 mm)
	Height	0.87 in (22 mm)
	Width	0.02 lb (10 g)
	Weight	PCIe NVMe
	Interface	1400 ~ 2100 MB/s
	Maximum Sequential Read	
	Maximum Sequential Write	800 ~ 1200 MB/s
	Logical Blocks	250,069,680
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security; DIPM; TRIM; DEVSLP
SSD 1TB 2280 PCIe-3x4 NVMe	Form Factor	M.2 2280
Three Layer Cell single-sided	Capacity	1 TB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3X4
	Maximum Sequential Read	3100 ~ 3500 MB/s
	Maximum Sequential Write	2770 ~ 3037 MB/s
	Logical Blocks	2,000,409,264
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security; TRIM; L1.2
SSD 256GB 2280 PCIe NVMe	Capacity	256 GB
Value	NAND Type	Value
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3
	Maximum Sequential Read	2100 ~ 2200 MB/s
	Maximum Sequential Write	900 ~ 1400 MB/s
	Logical Blocks	500,118,192
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	operating remperature	



HP ProBook 455 G8 Notebook PC

	Features	ATA Security (optional); TRIM; L1.2
SSD 512GB 2280 PCIe NVMe	Canacity	513 CD
Value	Capacity NAND Type	512 GB
	NAND Type	Value
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.02 lb (10 g)
	Interface	PCIe NVMe Gen3
	Maximum Sequential Read	2200 ~ 2300 MB/s
	Maximum Sequential Write	1000 ~ 1600 MB/s
	Logical Blocks	1,000,215,215
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	ATA Security (optional); TRIM; L1.2



NETWORKING

Intel® Wi-Fi 6 AX200 +	Wireless LAN Standards	IEEE 802.11a
Bluetooth [®] 5 (802.11ax		IEEE 802.11b
2x2, supporting gigabit		IEEE 802.11g
data rate) (non-vPro) ^{1,5}		IEEE 802.11n IEEE 802.11ac
(non-vero)","		IEEE 802.11ac
		IEEE 802.11d
		IEEE 802.11e
		IEEE 802.11h
		IEEE 802.11i
		IEEE 802.11k
		IEEE 802.11r
		IEEE 802.11v
	Interoperability	Wifi Certified
	Frequency Band	802.11b/g/n/ax
		•2.402 – 2.482 GHz
		802.11a/n/ac/ax
		•4.9 – 4.95 GHz (Japan)
		•5.15 – 5.25 GHz
		•5.25 – 5.35 GHz
		•5.47 – 5.725 GHz
		•5.825 – 5.850 GHz
	Data Rates	•802.11b: 1, 2, 5.5, 11 Mbps •802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps •802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps •802.11n: max 300mbps •802.11ac : max 1733Mbps •802.11ax : max 2.4Gbps
	Modulation	Direct Sequence Spread Spectrum OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
	Security ³	 IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only AES-CCMP: 128 bit in hardware
		• 802.1x authentication
		• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.
		WPA2 certification
		WPA3 certification
		• IEEE 802.11i
		• WAPI
	Notwork Architasture	
	Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
	Roaming	IEEE 802.11 compliant roaming between access points
	Output Power ²	• 802.11b: +17dBm minimum
	•	• 802.11g: +16dBm minimum



	• 802.11a: +17d	Bm minimum		
	• 802.11n HT20	(2.4GHz): +14dBm minimum		
	• 802.11n HT40	• 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 VHT1	I 60(5GHz): +10dBm minimum		
	• 802.11ax HE40	D(2.4GHz): +12dBm minimum		
	• 802.11ax HE80	D(5GHz): +10dBm minimum		
	• 802.11ax HE16	50(5GHz): +10dBm minimum		
Power Consumption	•Transmit mode	· 2 0 W		
· · · · · · · · · · · · · · · · · · ·	•Receive mode 1			
	•Idle mode (PSP)) 180 mW (WLAN Associated)		
	•Idle mode50 m	W (WLAN unassociated)		
	 Connected Star 	-		
	 Radio disabled 	8 mW		
Power Management	•	ress compliant power management		
	802.11 compliar	nt power saving mode		
Receiver Sensitivity ⁴	•802.11b, 1Mbps : -93.5dBm maximum			
		ps : -84dBm maximum		
		bps : -86dBm maximum		
	• 802.11a/g, 54Mbps : -72dBm maximum • 802.11n, MCS07 : -67dBm maximum			
		5 : -64dBm maximum		
		0(VHT80) : -84dBm maximum		
		9(VHT80) : -59dBm maximum		
	• 802.11ac, MCS	9(VHT160) : -58.5dBm maximum		
		11(HE40): -57dBm maximum		
		11(HE80): -54dBm maximum		
		11(HE160): -53.5dBm maximum		
Antenna type		ntenna with spatial diversity, mounted in the display		
	enclosure	dual band 2.4/F CUs antennas are provided to the sard to		
		dual band 2.4/5 GHz antennas are provided to the card to IIMO communications and Bluetooth communications		
Form Factor				
Dimensions	PCI-Express M.2 MiniCard 1. Type 2230: 2.3 x 22.0 x 30.0 mm			
Dimensions	• •	3 x 22.0 x 30.0 mm 67 x 12.0 x 16.0 mm		
Waight				
Weight	1. Type 2230: 2. 2. Type 126: 1.3	5		
Operating Voltage	• •	9		
Operating Voltage	3.3v +/- 9%			
Temperature	Operating	14° to 158° F (–10° to 70° C)		
	Non-operating	–40° to 176° F (–40° to 80° C)		
Humidity	Operating	10% to 90% (non-condensing)		
614 ¹ 4 J -	Non-operating	5% to 95% (non-condensing)		
Altitude	Operating	0 to 10,000 ft (3,048 m)		



Technical Specifications

	Non-operating	0 to 50,000 ft (15,240 m)
LED Activity	LED Amber – Ra	dio OFF; LED OFF – Radio ON

HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0/5.1 Wireless Technology

Bluetooth Specification	4.0/4.1/4.2/5.0/5.1 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available Channels	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)
Data Rates and Throughput	Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps BLE: 1 Mbps data rate; throughput up to 0.2 Mbps Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)
Transmit Power	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 9.5 dBm for BR and EDR.

1. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. Only available in countries where 802.11ax is supported.

2. 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.

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

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).

5. Wi-Fi 5 or 6 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.



Intel® Thunder Peak 9260 802.11a/b/g/n/ac (2x2) WiFi® and Bluetooth® 5.0 Combo ¹ (Non-vPro)	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11r IEEE 802.11v
	Interoperability	Wi-Fi certified
	Frequency Band	802.11b/g/n •2.402 – 2.482 GHz 802.11a/n/ac •4.9 – 4.95 GHz (Japan) •5.15 – 5.25 GHz •5.25 – 5.35 GHz •5.47 – 5.725 GHz
	Data Rates	•5.825 – 5.850 GHz •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: max 300Mbps •802.11ac : max 1733Mbps
	Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
	Security ³	 IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only AES-CCMP: 128 bit in hardware 802.1x authentication WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. WPA2 certification WPA3 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 Power ²	• 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



Technical Specifications

	• 802.11n HT40(• 802.11ac VHT8	5GHz): +14dBm minimum 5GHz): +13dBm minimum 80(5GHz): +10dBm minimum 60(5GHz): +10dBm minimum
Power Consumption	•Transmit mode: 2.0 W •Receive mode 1.6 W •Idle mode (PSP) 180 mW (WLAN Associated) •Idle mode50 mW (WLAN unassociated) •Connected Standby 10mW •Radio disabled 8 mW	
Power Management		ress compliant power management It power saving mode
Receiver Sensitivity ⁴	 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 	
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications	
Form Factor	PCI-Express M.2 MiniCard	
Dimensions	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 Non-operating	14° to 158° F (–10° to 70° C) –40° to 176° F (–40° to 80° C)
Humidity	Operating Non-operating	10% to 90% (non-condensing) 5% to 95% (non-condensing)
Altitude	Operating Non-operating	0 to 10,000 ft (3,048 m) 0 to 50,000 ft (15,240 m)
LED Activity	LED Amber – Rad	dio OFF; LED OFF – Radio ON

HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0 Wireless Technology

Bluetooth Specification	4.0/4.1/4.2/5.0 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available Channels	Legacy: 0~79 (1 MHz/CH)



	BLE: 0~39 (2 MHz/CH)
Data Rates and Throughput	Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps BLE: 1 Mbps data rate; throughput up to 0.2 Mbps Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)
Transmit Power	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 4 dBm for BR and EDR.

1. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 5 (802.11 ac) is backwards compatible with prior 802.11 specs.

2. 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.

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

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).



Realtek RTL8822CE 802.11ac 2x2 Wi-Fi® + Bluetooth® 5 ¹	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11r IEEE 802.11v
	Interoperability	Wi-Fi certified modules
	Frequency Band	802.11b/g/n
		•2.402 – 2.482 GHz
		802.11a/n/ac
		•4.9 – 4.95 GHz (Japan)
		•5.15 – 5.25 GHz
		•5.25 – 5.35 GHz
		•5.47 – 5.725 GHz
		•5.825 – 5.850 GHz
	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: max 300Mbps •802.11ac : max 866.7Mbps
	Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
	Security ³	 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 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 Power ²	 802.11b: +18.5dBm minimum 802.11g: +17.5dBm minimum 802.11a: +18.5dBm minimum 802.11n HT20(2.4GHz): +15.5dBm minimum 802.11n HT40(2.4GHz): +14.5dBm minimum



Technical Specifications

	• 802.11n HT40	(5GHz): +15.5dBm minimum (5GHz): +14.5dBm minimum 30(5GHz): +11.5dBm minimum	
Power Consumption	 Transmit mode: 2.0 W Receive mode 1.6 W Idle mode (PSP) 180 mW (WLAN Associated) Idle mode50 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 Sensitivity ⁴	 802.11b, 1Mbps: -93.5dBm maximum 802.11b, 11Mbps: -84dBm maximum 802.11a/g, 6Mbps: -86dBm maximum 802.11a/g, 54Mbps: -72dBm maximum 802.11n, MCS07: -67dBm maximum 802.11n, MCS15: -64dBm maximum 802.11ac, MCS0: -84dBm maximum 802.11ac, MCS9: -59dBm maximum 		
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications		
Form Factor	PCI-Express M.2 MiniCard		
Dimensions	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 Non-operating	14° to 158° F (–10° to 70° C) –40° to 176° F (–40° to 80° C)	
Humidity	Operating Non-operating	10% to 90% (non-condensing) 5% to 95% (non-condensing)	
Altitude	Operating Non-operating	0 to 10,000 ft (3,048 m) 0 to 50,000 ft (15,240 m)	
LED Activity	LED Amber – Rad	dio OFF; LED OFF – Radio ON	

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Number of Available Channels	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)
Data Rates and	Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps



Throughput	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.

1. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 5 (802.11 ac) is backwards compatible with prior 802.11 specs.

2. 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.

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

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).



Realtek RTK8111HSH 10/100/1000 Integrated NIC

Ethernet Features	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
Power Management	ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption
Performance Features	TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling Jumbo Frame 9K
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
Interface	Auto MDI/MDIX Crossover cable detection
NIC Device Driver Name	Realtek PCIe GBE Ethernet Family Controller



POWER

AC Adapter 45 Watt Smart	Dimensions	95x45x26.8mm
nPFC Standard Barrel 4.5mm Right Angle 1.0m	Weight	unit: 200g +/- 10g
	Input	
	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	5ms at 115 Vac input
	Output current limit	<8.0A
	Connector	
	Connector	4.5mm Barrel Type
	Environmental Design	
	Operating temperature	32oF to 95oF (Ooto 35oC)
	Non-operating (storage) temperature	-4oF to 185oF (-20oto 85oC)
	Non-operating (storage) temperature	
	Altitude	0 to 16,400 ft (0 to 5000m)
	Humidity	20% to 95%
	Storage Humidity	10% to 95%
	EMI and Safety Certifications	Eg: *CE Mark - full compliance with LVD and EMC directives * Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. * MTBF - over 200,000 hours at 25°C ambient condition.



AC Adapter 45 Watt nPFC Standard USB type C Straight 1.0m	Dimensions Weight Input	94.0mm * 40.0mm * 26.5mm 192.5g +/-10%
	Input Efficiency	Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec: 5V: 81.5% 9V: 86.7% 12V: 87.41% 15V: 87.8%
	Input frequency range	47 ~ 63Hz
	Input AC current Output	Max. 1.4 A at 90 Vac
		5V/15W 9V/27W 12V/36W
	Output power	15V/45W
	DC output	5V/9V/12V/15V
	Hold-up time	5ms at 115 Vac input
	-	
	Output current limit Connector	USB Type-C
	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	Eg: *CE Mark - full compliance with LVD and EMC directives * Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. * MTBF - over 200,000 hours at 25°C ambient condition.



Technical Specifications

AC Adapter 45 Watt Smart	Dimensions	95x45x26.8mm
nPFC Standard Barrel	Weight	unit: 200g +/- 10g
4.5mm Right Angle 1.0m 2prong	Input	
-prong	Input Efficiency	87.74 % at 115 Vac and 88.4 % at 230Vac
	Input frequency range	47 ~ 63 Hz
	Input AC current Output	Max. 1.4 A at 90 Vac
	Output power	45W
	DC output	19.5V
	Hold-up time	5ms at 115 Vac input
	Output current limit	<8.0A
	Connector	4.5mm Barrel Type
	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	Eg: *CE Mark - full compliance with LVD and EMC directives * Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. * MTBF - over 200,000 hours at 25°C ambient condition.

AC Adapter 65 Watt nPFC Standard USB type C©Straight 1.0m	Dimensions Weight Input	90.0x51x28.5mm unit: 250g +/- 10g
	Input Efficiency Input frequency range	81.5% min at 115 Vac/ 230Vac @ 5V/3A 86.7% min at 115 Vac/ 230Vac @ 9V/3A 88% min at 115 Vac/ 230Vac @ 12V/5A 89% min at 115 Vac/ 230Vac @ 15V/4.33A 89% min at 115 Vac/ 230Vac @ 20V/3.25A 47 ~ 63 Hz
	Input AC current Output	1.6 A at 90 VAC and maximum load
	Output power DC output Hold-up time Output current limit Connector	65W 5V/9V/12V/15V/20V 5ms at 115 Vac input 8.0A Max. USB Type C



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	Eg: *CE Mark - full compliance with LVD and EMC directives * Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. * MTBF - over 200,000 hours at 25°C ambient condition.

AC Adapter 65 Watt Smart nPFC EM Barrel 4.5mm New EM	Dimensions Weight Input Input Efficiency	102 x 55 x 30mm unit: 250g +/- 10g 88.0 % at 115 Vac and 89.0 % at 230Vac 47 ~ 63 Hz
	Input frequency range Input AC current Output	47 ~ 65 HZ Max. 1.7 A at 90 Vac
	Output power DC output Hold-up time Output current limit Connector Operating temperature	65W 19.5V 5ms at 115 Vac input <11.0A 4.5mm Barrel Type 32°F to 95°F (0°to 35°C)
	Non-operating (storage) temperature	-4°F to 185°F (-20° to 85°C)
	Altitude Humidity Storage Humidity EMI and Safety Certifications	0 to 16,400 ft (0 to 5000m) 20% to 95% 10% to 95% Eg: *CE Mark - full compliance with LVD and EMC directives * Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. * MTBF - over 200,000 hours at 25°C ambient condition.

AC Adapter 65 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.0m	Dimensions Weight Input	90 x 51 x 28.5mm unit: 230g +/- 10g
5	Input Efficiency	88.0 % at 115 Vac and 89.0 % at 230Vac
	Input frequency range	47 ~ 63 Hz
	Input AC current Output	Max. 1.7 A at 90 Vac
	Output power	65W
	DC output	19.5V
	Hold-up time	5ms at 115 Vac input
	Output current limit	<11.0A
	Connector	4.5mm Barrel Type
	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	Eg: *CE Mark - full compliance with LVD and EMC directives * Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. * MTBF - over 200,000 hours at 25°C ambient condition.

Battery RH 3 Cell Wh 45 Long Life -PL Fast Charge	Dimensions (H x W x L) Weight	6.2 x 68.7 x 249.6mm 190g
Charge	Cells/Type	3cell Lithium-Ion Polymer cell/ 545974
	Energy	
	Voltage	11.4V
	Amp-hour capacity	3.950Ah
	Watt-hour capacity	45Wh
	Temperature	
	Operating (Charging)	32° to 113° F (0° to 45° C)
	Operating (Discharging)	14° to 122° F (-10° to 60° C)
	Fuel Gauge LED	NA
	Warranty	Based on system offering
	Optional Travel Battery Available	Νο



FINGERPRINT READER

Model: Elan efsa80ST (module P1515B) Mobile Voltage Operation: 2.7V to 3.6V Operating Temperature: -4°F – 175°F (-20° ~ +80°C) Current Consumption Image: 50mA peak Low Latency Wait For Finger: 900uA Capture Rate: 30 frame/sec ESD Resistance: +15KV Detection Matrix: 80*80 pixels/ 508 dpi / 4*4mm sensor area FRR (False Reject Rate) / FAR (False Acceptance Rate): FRR: <3% , FAR: 1/100K

Eco-Label	This available has reached a	wie in the suscess of heirs	southfind to the following provide and may be		
ECO-Label Certifications &		•	r certified to the following approvals and may be		
declarations	labeled with one or more of these marks:				
ueclarations	IT ECO declaration				
	US ENERGY STAR®				
	US Federal Energy Management Program (FEMP)				
	-	tered in the United States. S	See http://www.epeat.net for registration status		
	in your country.				
	TC0 8.0 China Frances Course				
		ervation Program (CECP) nmental Protection Admini	stration (CEDA)		
	 China State Enviro Taiwan Green Marl 		Stration (SEPA)		
	Korea Eco-label	N			
	 Japan PC Green lat 	nel*			
Sustainable Impact	• Ocean-bound plastic in (p	art(s))			
Specifications	• 12.9% post-consumer recycled plastic				
	• External Power Supply 90% Efficiency				
	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				
	Recycled Plastic cushions				
Custom Configuration	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	5.33 W	5.24 W	5.28 W		
idle)					

ENVIRONMENTAL DATA



Normal Operation	0.74 W	0.79 W	0.73 W		
(Long idle)					
Sleep	0.74 W	0.79 W	0.73 W		
Off	0.29 W	0.36 W	0.29 W		
	Note:				
		d is for an ENERGY	' STAR® compliant product if offered within the mod		
			GY STAR [®] Logo are compliant with the applicable U.		
			Y STAR [®] specifications for computers. If a model fami		
			figurations, then energy efficiency data listed is for		
		•	drive, a high efficiency power supply, and a Microso		
	Windows [®] operating system				
Heat Dissipation*	115VAC, 60Hz	230VAC, 50H	Hz 100VAC, 50Hz		
Normal Operation	17 BTU/hr	17 BTU/hr	r 17 BTU/hr		
(Short idle)					
Normal Operation	2 BTU/hr	2 BTU/hr	2 BTU/hr		
(Long idle)					
Sleep	2 BTU/hr	2 BTU/hr	2 BTU/hr		
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr		
	*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.				
Declared Noise	Sound Power		Sound Pressure		
Emissions	(L _{wAd} , bels)		(L _{pAm} , decibels)		
(in accordance with			- P		
ISO 7779 and ISO 9296)					
Typically Configured –	2.2		22.1		
Idle					
Fixed Disk – Random	2.8		27.7		
writes					
Optical Drive –	2.2		22.1		
Sequential reads					
Longevity and			ling its useful life by several years. Upgradeable		
Upgrading	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. This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC. This product is in compliance with California Proposition 65 (State of California; Safe 			
 Drinking Water and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680 (EPEAT www.epeat.net Plastics parts weighing over 25 grams used in the produ ISO1043. This product is 12.9% recycle-able when properly disposed 			E 1680 (EPEAT) standard at the Gold level, see ed in the product are marked per ISO11469 and	
Packaging Materials	External:	PAPER/Corrugated	245 g	
		PAPER/Corrugated	50	
	Internal:	PAPER/Molded pulp	192 g	
		PLASTIC/Polyethylene low densit	y 10 g	
	The plastic pa	ackaging material contains at least (0% recycled content.	
RoHS Compliance	The corrugat	ed paper packaging materials conta	ins at least 51.4% recycled content.	
Material Usage	 products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam. 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. 			
France France France	the HP Genera http://www.h • Asbe • Certa • Certa • Cadm • Chlor	Il Specification for the Environment p.com/hpinfo/globalcitizenship/env stos in Azo Colorants in Brominated Flame Retardants – r	g substances in excess of regulatory limits (refer to at ironment/supplychain/gen_specifications.html): nay not be used as flame retardants in plastics	



	 Mercuric Oxide Batteries Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user. Ozone Depleting Substances Polybrominated Biphenyls (PBBs) Polybrominated Biphenyl Ethers (PBBEs) Polybrominated Biphenyl Oxides (PBBOs) Polychlorinated Biphenyl (PCB) Polychlorinated Terphenyls (PCT) Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications. Radioactive Substances Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
Packaging Usage	 HP follows these guidelines to decrease the environmental impact of product packaging: Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials. Eliminate the use of ozone-depleting substances (ODS) in packaging materials. Design packaging materials for ease of disassembly. Maximize the use of post-consumer recycled content materials in packaging materials. Use readily recyclable packaging materials such as paper and corrugated materials. Reduce size and weight of packages to improve transportation fuel efficiency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
End-of-life Management and Recycling	 HP offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. 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 Environmental Information	For more information about HP's commitment to the environment: Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www8.hp.com/us/en/hp-information/environment/ecolabels.html ISO 14001 certificates: http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf



footnotes	 Percentage of ocean-bound plastic contained in each component varies by product 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 excluded. 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.

COUNTRY OF ORIGIN

China



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

Category	Description	Part Number
Cases	HP Prelude Pro Recycle Backpack	1X644AA
Cuscs	HP Prelude Pro Recycle Top Load	1X645AA
	HP Business 15.6 Top Load	2SC66AA
	HP Business 17.3 Backpack	2SC67AA
	HP Business Slim 17.3 Top Load	2UW02AA
	HP Executive 15.6 Backpack	6KD07AA
	HP Executive 15.6 Top Load	6KD06AA
	HP Executive 17.3 Backpack	6KD05AA
	HP Executive 17.3 Top Load	6KD08AA
	HP Executive Leather 15.6 Top Load	6KD09AA
	HP Executive Slim 14.1 Top Load	6KD04AA
	HP Prelude G2 15.6 Backpack	1E7D6AA
	HP Prelude G2 15.6 Top Load	1E7D7AA
	HP Renew Business 15.6 Laptop Bag	3E5F8AA
	HP Renew Business 17.3 Laptop Backpack	3E2U5AA
	HP Renew Business 17.3 Laptop Bag	3E2U6AA
Docking	HP Thunderbolt 120W Dock G2	2UK37AA
2	HP Thunderbolt 120W Dock w/Audio G2	3YE87AA
	HP Thunderbolt 230W Dock w/Combo Cable G2	3TR87AA
	HP USB-C 120W G5 Dock	5TW10AA
	HP USB-C Mini Dock	1PM64AA
	HP USB-C/A 120W Universal Dock G2	5TW13AA
	HP USB-C Travel Dock G2	7PJ38AA
	HP Wired Thunderbolt Audio Module	3AQ21AA
	HP USB-C Travel Dock	4WX89AA
Input/Output	HP USB-C to HDMI 2.0 Adapter	2PC54AA#ABB
	HP USB-C to RJ45 Adapter	V8Y76AA#ABB,
	·	V7W66AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP 320M Wired Mouse	9VA80AA
	HP Travel Bluetooth Mouse	6SP30AA
	HP Travel USB Mouse	G1K28AA
	HP Wireless Keyboard	T6U20AA
	HP Slim Wireless Keyboard and Mouse	T6L04AA
	HP Wireless USB Premium Keyboard	Z9N41AA
	HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165AA
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
	HP 235 WL Mouse and Keyboard Combo	1Y4DOAA
	HP 125 Wired Keyboard	266C9AA
	HP 225 Wired Mouse and Keyboard Combo	286J4AA



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

HP HDM IC0 VGA AdapterH4H02AAHP 125 USB - A Wired Mouse265A9AAHP 125 USB Laser Wired Mouse265D9AAHP 235 Wireless 2.4GHz Slim Wireless Mouse265D9AAHP 235 Wireless 2.4GHz Slim Wireless Mouse3B4Q5AAHP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse3B4Q5AAHP Creator USB-A+Bluetooth 935 Wireless Mouse Black1D0K2AAPowerHP 45W 4.5 mm Smart AC Power AdapterL6F60AA#ABJHP 45W 4.5 mm Smart AC Power AdapterH6Y8BAA#ABAHP 45W USB-CL CA C Power AdapterH6Y8BAA#ABAHP 65W 4.5 mm Smart AC Power AdapterH6Y8BAA#ABAHP 65W 4.5 mm Smart AC Power AdapterH6Y8CAA#ABAHP 65W USB-CL CA C Power AdapterH6Y8CAA#ABAHP 65W 4.5 mm w Dongle 7.4 mm Slim AC Power AdapterH9Y8CAA#ABAHP 65W USB-C Slim Travel AC Power AdapterY7W50AA#ABAHP 65W USB-C Slim Travel AC Power AdapterY3T76AAPower bankHP USB DVD-Writer EXT ODDY3T76AAMemoryHP 4GB DDR4 3200 Memory286H5AAHP 8GB DDR4 3200 Memory286H5AAHP Nano Cable Lock1AJ39AAHP Notebook 15.6" Privacy Filter171A66AAUCCHP Stereo 3.5mm HeadsetT1A66AAHP Nine USB-A Stereo HeadsetT1A66AA	-		
HP 128 USB Laser Wired Mouse265D9AAHP 235 Wireless 2.4GHz Slim Wireless Mouse4E407AAHP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse3B4Q5AAHP Creator USB-A+Bluetooth 935 Wireless Mouse1D0K8AAHP USB-A+Bluetooth Multi-Device 635 Wireless Mouse Black1D0K2AAPowerHP 45W 4.5 mm LC Smart Japan Only AC Power AdapterL6F60AA#ABJHP 45W 4.5 mm Smart AC Power AdapterH6Y88AA#ABAHP 45W 4.5 mm Smart AC Power AdapterH6Y88AA#ABAHP 45W 0.5B-C LC AC Power AdapterH6Y88AA#ABAHP 65W 0.5B-C LC AC Power AdapterH6Y82AA#ABAHP 65W 0.5B-C Sim Travel AC Power AdapterH6Y82AA#ABAHP 65W 0.5B-C Sesential Power Bank3T855AAStorageHP USB DVD-Writer EXT ODDY3T76AAMemoryHP 46B DDR4 3200 Memory HP 86B DDR4 3200 Memory HP 166B DDR4 3200 Memory HP 166B DDR4 3200 Memory HP SureKey Standard/Nano/Wedge Cable Lock HP Nano Master Keyed Cable Lock HP Notebook 15.6" Privacy Filter11A66AAUCCHP Stereo 3.5mm HeadsetT1A66AA		HP HDMI to VGA Adapter	H4F02AA
HP 235 Wireless 2.4GHz Slim Wireless Mouse44407AAHP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse3B4Q5AAHP Creator USB-A+Bluetooth 935 Wireless Mouse1D0K8AAHP USB-A+Bluetooth Multi-Device 635 Wireless Mouse Black1D0K2AAPowerHP 45W 4.5 mm LC Smart Japan Only AC Power AdapterL6F60AA#ABJHP 45W USB-CL CA C Power AdapterH6Y88AA#ABAHP 45W USB-CL CA C Power AdapterH6Y88AA#ABAHP 65W 4.5 mm Smart AC Power AdapterH6Y88AA#ABAHP 65W USB-CL CA C Power AdapterH6Y88AA#ABAHP 65W USB-CL CA C Power AdapterH6Y82AA#ABAHP 65W USB-CL CA C Power AdapterH6Y82AA#ABAHP 65W USB-CL CA C Power AdapterH7X9S0AA#ABAHP 65W USB-CL CA C Power Adapter1D3K6AA#ABAHP 65W USB-CL CA C Power AdapterY7W50AA#ABAHP 65W USB-CL CA C Power Adapter1D3K6AA#ABAHP 65W USB-CL CA C Power AdapterY7W50AA#ABAHP 65W USB-CL CA C Power AdapterY7W50AA#ABAHP 65W USB-CL CA C Power AdapterY7W50AA#ABAHP 65W USB-C L CA C Power AdapterY7W50AA#ABAHP 65W USB-C L CA C Power AdapterY7W50AA#ABAHP 65W USB-C C Saential Power Bank3TB55AAStorageHP USB DVD-Writer EXT ODDY3T76AAMemoryHP 4GB DDR4 3200 Memory HP 8GB DDR4 3200 Memory 286H3AA286H3AA 286H3AAHP 8GB DDR4 3200 Memory HP 16GB DDR4 3200 Memory HP 16GB DDR4 3200 Memory HP Notebook 15.6" Privacy Filter1AJ39AA AHP SureKey Standard/Nano/Wedge Cable Lock HP Nano Master Keyed Cable Lock HP Nano Master Keyed Cable Lock H			
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HP Wired USB-A Stereo Headset T1A67AA	UCC	HP Stereo 3.5mm Headset	T1A66AA
		HP Wired USB-A Stereo Headset	T1A67AA



Summary of Changes

Date of change:	Version History:	Updated	Description of change:
February 2. 2021	V1 to V2	Update	Battery Life
February 9, 2021	V2 to V3	Added	Environmental Data
February 16, 2021	V3 to V4	Update	Wireless Section
February 18, 2021	V4 to V5	Update	Networking and Environmental section
February 25, 2021	V5 to V6	Update	Xerox DocuShare offer value
April 20, 2021	V6 to V7	Updated	Memory Section and Input/ Output Section Updated
May 6, 2021	V7 to V8	Add	HP Smart Support
May 14, 2021	V8 to V9	Add	AMDR5 Pro/R7 Pro Processors
May 25, 2021	V9 to V10	Update	Micro SD Card Reader
June 11, 2021	V10 to V11	Remove	HP WorkWell from Software and Security section
July 15, 2021	V11 to V12	Update	At a Glance section and Networking WLAN section
July 30, 2021	V12 to V13	Update	At a Glance section, added HP Wolf Pro and Accessories

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