HP ProBook x360 435 G8 Notebook PC

Overview

HP ProBook x360 435 G8 Notebook PC



- 1. Internal Microphones
- 2. Webcam LED
- 3. Webcam and IR Camera (Optional)
- 4. HP Privacy Camera
- 5. IR Camera LED (Optional)
- 6. Clickpad

Left

- 7. World-facing Camera (Optional)
- 8. World-facing Camera LED (Optional)
- 9. Vents
- 10. SuperSpeed USB Type-A 5 Gbps signaling rate charging Port
- 11. Nano Security Lock Slot (Lock Sold Separately)

HP ProBook x360 435 G8 Notebook PC

Overview



- 1. Power Button
- 2. Power Connector
- 3. SuperSpeed USB Type-C[®] 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)
- 4. SuperSpeed USB Type-A 5 Gbps signaling rate Port

Right

- 5. HDMI 1.4b Port (Cable not included)
- 6. Audio Combo Jack
- 7. MicroSD Card reader
- 8. Touch Fingerprint Sensor (Select models)



HP ProBook x360 435 G8 Notebook PC

Overview

AT A GLANCE

- Preinstalled with Windows 10 versions or FreeDOS
- A stylish and professional convertible adapts with versatile use modes from traditional laptop to tablet, stand and tent that enables to create, present and collaborate
- Sleek and durable anodized aluminum top cover and keyboard deck
- Choice of AMD Ryzen™ 5000 series mobile processors
- Integrated AMD Radeon™ Graphics
- Display include your choice of 33.8 cm (13.3") diagonal IPS Wide Viewing Angle, FHD, touch screen with Corning® Gorilla®
 Glass 5
- Commercial-grade security features including HP Sure Start, HP Sure Sense, HP Client Security, HP Sure Click, HP Privacy Camera and optional HP Sure View
- Captures the world around with an optional world facing- camera in the keyboard¹
- Supports wireless LAN options for connectivity on the go including gigabit data rate Wi-Fi® 6¹
- Supports fast charging (50% in 30 minutes) with no impact on battery recharge cycles
- Undergoes MIL-STD 810H tests²
- 1. Sold separately or as an optional feature.
- 2. MIL STD 810H testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or formilitary 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.



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

PRODUCT NAME

HP ProBook x360 435 G8 Notebook PC

OPERATING SYSTEM

Preinstalled Windows10 Pro 64 - HP recommends Windows 10 Pro1

Windows10 Pro 64 (National Academic License)²

Windows10 Home 641

Windows10 Home Single Language 641

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

Windows10 Enterprise 64 (Web Support)1

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 with 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™ 3 Pro 5450U with 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 Available April 2021 AMD Ryzen™ 5 5600U with Radeon™ Graphics (2.3 GHz base clock, up to 4.2 GHz max boost clock,

16 MB L3 cache, 6 cores) 3,4,5,6

AMD Ryzen™ 5 Pro 5650U with Radeon™ Graphics (2.3 GHz base clock, up to 4.2 GHz max boost clock, 16 MB L3 cache, 6 cores) 3,4,5,6 Available April 2021

AMD Ryzen™ 7 5800U with 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™ 7 Pro 5850U with 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 Available April 2021

Processor Family

AMD Ryzen™ 3 processor⁶

AMD Ryzen™ 5 processor⁶

AMD Ryzen[™] 7 processor⁶

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



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

- 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.

CHIPSET

Chipset is integrated with processor.

GRAPHICS

Integrated

AMD Radeon™ Graphics

Supports

Support HD decode, DX12, HDMI1.4b⁷, via HDMI up to 4K 30Hz

7. HDMI cable sold separately.

DISPLAY

Touch

33.8 cm (13.3") diagonal FHD UWVA eDP BrightView WLED-backlit touch screen with Corning® Gorilla® Glass 5, 250 nits, 45% NTSC with HD camera (1920 x 1080) 8,9,10

33.8 cm (13.3") diagonal FHD UWVA eDP BrightView WLED-backlit touch screen with Corning® Gorilla® Glass 5, 250 nits, 45% NTSC with HD + IR camera (1920 x 1080) 8,9,10

33.8 cm (13.3") diagonal FHD UWVA eDP + PSR BrightView WLED-backlit touch screen with Corning® Gorilla® Glass 5, Low Power, 400 nits, 72% NTSC with HD camera (1920 x 1080) 8,9,10

33.8 cm (13.3") diagonal FHD UWVA eDP + PSR BrightView WLED-backlit touch screen with Corning® Gorilla® Glass 5, Low Power, 400 nits, 72% NTSC with HD + IR camera (1920 x 1080) 8,9,10

HP Sure View Integrated Privacy Screen 33.8 cm (13.3") diagonal FHD UWVA eDP + PSR BrightView WLED-backlit touch screen with Corning® Gorilla® Glass 5, 1000 nits, 72% NTSC with HD camera (1920 x 1080) 8,9,10,11

HP Sure View Integrated Privacy Screen 33.8 cm (13.3") diagonal FHD UWVA eDP + PSR BrightView WLED-backlit touch screen with Corning® Gorilla® Glass 5, 1000 nits, 72% NTSC with HD + IR camera (1920 x 1080) 8,910,11

- 8. FHD/HD content required to view FHD/HD images.
- 9. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 10. Actual brightness will be lower with touchscreen or Sure View.
- 11. HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

STORAGE AND DRIVES

Primary M.2 Storage

128 GB PCIe® Gen3x4 NVMe™ TLC Solid State Drive ¹²
256 GB PCIe® NVMe™ Value Solid State Drive ¹²
512 GB PCIe® NVMe™ Value Solid State Drive ¹²
512 GB PCIe® Gen3x4 NVMe™ TLC Solid State Drive ¹²
1 TB PCIe® Gen3x4 NVMe™ TLC Solid State Drive ¹²

12. 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 13

Memory

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

Memory Slots

2 SODIMM

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

DDR4 PC4 SODIMMS, system runs at 3200

Supports Dual Channel Memory

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



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

NETWORKING/COMMUNICATIONS

WLAN

Realtek RTL8822CE 802.11ac (2x2) and Bluetooth® 5 Combo ¹⁴
Intel® Dual Band Wireless-AC 9260 802.11a/b/g/n/ac (2x2) Wi-Fi ®and Bluetooth® 5 Combo, non-vPro® ¹⁴
Intel® AX200 Wi-Fi 6 (2x2) and Bluetooth® 5 Combo, non-vPro® ¹⁵

Miracast

Native Miracast Support 16

14. 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.

15. 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. The specifications for Wi-Fi 6 are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax WLAN devices. Only available in countries where 802.11ax is supported.

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

AUDIO/MULTIMEDIA

Audio

Integrated microphone (Dual Array)
2 Integrated stereo speakers

Speaker Power

2W/4ohm Per speaker

Camera

User-facing 720p HD camera ^{17,18}
User-facing 720p HD + IR camera ^{17,18}
World-facing 5MP auto-focus secondary camera ¹⁸

Sensors

Combo Chip (Accelerometer + Gyro) Magnetometer Hall Sensor

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



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Premium Keyboard, spill resistant with DuraKeys and optional backlit 19

Pointing Device

Clickpad with multi-touch gesture support

Function Keys

- F1 Display Switching
- F2 Blank or Privacy (with LED)
- F3 Brightness Down
- F4 Brightness Up
- F5 Audio Mute
- F6 Volume Down
- F7 Volume Up
- F8 Mic Mute
- F9 Blank or Keyboard Backlit Toggle
- F10 Insert
- F11 Airplane Mode
- F12 HP Programmable Key

Power Button

Hidden Function Keys

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

19. Backlit keyboard is an optional feature.

SOFTWARE AND SECURITY

Preinstalled Software BIOS

HP BIOSphere Gen6²⁰

BIOS Update via Network

HP Secure Erase²¹

Absolute Persistence Module²²

HP Wake on WLAN

Software

HP Connection Optimizer²³

HP Hotkey Support

HP Support Assistant²⁴

HP Noise Cancellation Software

Buy Office (Sold separately)

Microsoft Defender²⁵

HP Smart Support 45



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

Manageability Features

HP Driver Packs (download)²⁶

HP Client Catalog (download)

HP Manageability Integration Kit Gen4(download)²⁷

HP Image Assistant (download)

Security Management

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

USB enable/disable (via BIOS)

Setup password (via BIOS)

Support for chassis padlocks and cable lock devices

HP Sure Click²⁸

HP Sure Sense²⁹

HP Sure Start Gen6 30

HP Sure View Gen331

HP Sure Admin³²

HP Wolf Pro Security Edition33

HP Fingerprint Sensor (Select models) 34

20. HP BIOSphere Gen6 is available on select HP Pro and Elite PCs. Features may vary depending on the platform and configurations.

- 21. 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™.
- 22. 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/

- 23. HP Connection Optimizer requires Windows 10.
- 24. HP Support Assistant requires Windows and Internet access.
- 25. Windows 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://www8.hp.com/us/en/ads/clientmanagement/overview.html.

- 28. HP Sure Click requires Windows 10 Pro or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.
- 29.HP Sure Sense is available on select HP PCs and is not available with Windows10 Home.
- 30. HP Sure Start Gen6 is available on select HP PCs and requires Windows 10.
- 31. HP Sure View Gen3 integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.
- 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



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

renewal license for the HP Wolf 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.

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

45. 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 ³⁵ HP Smart 65 W EM External AC power adapter ³⁵ HP Smart 65 W USB Type-C adapter ³⁵ HP Smart 45 W External AC power adapter ³⁵ HP Smart 45 W USB Type-C adapter ³⁵

Power Cord

3-wire plug - 1m ³⁵ 2-wire plug - 1m ³⁵

Primary Battery

HP Long Life 3-cell, 45 Wh Li-ion polymer ^{36,37} Support HP Fast Charge (Up to 50% in 30 minutes with 65W AC Adapter)³⁸

Battery life

Up to 17 hours 39

- 35. Availability may vary by country.
- 36. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 37. 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.
- 38. Supports HP Fast Charge with 65W AC Adapter. Recharges the battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.
- 39. 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 www.bapco.com for additional details.



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

WEIGHTS & DIMENSIONS

Weight

Starting at 3.19 lb (1.45 kg)⁴⁰

Dimensions (w x d x h)

12.15 x 8.78 x 0.71 in 30.85 x 22.295 x 1.795 cm

40. Weight will vary by configuration.

PORTS/SLOTS

Ports

- 1 SuperSpeed USB Type-C[®] 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)
- 2 SuperSpeed USB Type-A 5 Gbps signaling rate (1 charging port)
- 1 HDMI 1.4b⁴¹
- 1 Headphone/microphone combo jack
- 1 AC power

Expansion Slots

1 microSD Supports SD, SDHC, SDXC

41. HDMI cable sold separately.



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

SERVICE AND SUPPORT

1-year and 3-year limited warranties 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. 42

42. 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.



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

SYSTEM UNIT

Relative Humidity

Stand-Alone Power **Nominal Operating** 19 V

Requirements (AC Power) Voltage

Average Operating Power 5.71 w **Integrated Graphics** AMD

Max Operating Power UMA < 45W

Temperature Operating 41° to 95° F (5° to 35° C)

> Non-operating -4° to 140° F (-20° to 60° C) **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 10,000 ft (-15.24 to 3,048 m)

Planned Industry Standard

Certifications

UL Yes **CSA** Yes **FCC Compliance** Yes

ENERGY STAR® Yes, Select models⁴³ **EPEAT®** Yes. Gold in U.S.44

ICES Yes **Australia** Yes **NZ A-Tick Compliance** Yes CCC Yes Japan VCCI Compliance Yes KC Yes **BSMI** Yes **CE Marking Compliance** Yes **BNCI or BELUS** Yes CIT Yes EAC Yes Saudi Arabian Compliance Yes (ICCP)

SABS Yes **UKRSERTCOMPUTER** Yes

43. Configurations of the HP ProBook x360 435 G7 G8 that are ENERGY STAR® qualified are identified as HP ProBook x360 435 G8 ENERGY STAR on HP websites and on http://www.energystar.gov.

HP ProBook x360 435 G8 Notebook PC

Technical Specifications

44. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.

DISPLAYS

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

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

Panel LCD 13.3 inch diagonal FHD (1920 x 1080) Anti-Glare WLED UWVA 45% NTSC 250 nits eDP 1.2 w/o PSR slim Outline Dimensions (W x H x D) 300.56 x 187.77 mm (max) (w/ PCB & w/o bracket)

Active Area 293.76 x 165.24 mm (typ.)

Weight 260 g (max)

Diagonal Size 13.3 inch

Thickness 3.0 mm (max)

Interface eDP 1.2 (2 lane)

Surface Treatment BrightView Glass

Touch Enabled Yes

Contrast Ratio 600:1 (typ.)

Refresh Rate 60 Hz

Brightness¹ 250nits (typ.)

Pixel Resolution 1920 x 1080 (FHD)

Format of LCD Pixel Arrangement RGB

Backlight LED

Color Gamut Coverage 45% NTSC **Color Depth** 6 bits

Viewing Angle UWVA 85/85/85



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

Panel LCD 13.3 inch diagonal FHD (1920 x 1080) Anti-Glare WLED UWVA 72% NTSC 400 nits eDP 1.4+PSR2 ultraslim Outline Dimensions (W x H x D) 299.06 x 185.54 mm (max)

Active Area 293.76 x 165.24 mm (typ.)

Weight 170 g (max)

Diagonal Size 13 inch

Thickness 2.0 mm (max)

Interface eDP 1.4 + PSR2 (2 lane)

Surface Treatment Bright View Glass

Touch Enabled Yes

Contrast Ratio 1200:1 (typ.)

Refresh Rate 60 Hz

Brightness¹ 400 nits

Pixel Resolution 1920 x 1080 (FHD)

Format of LCD Pixel Arrangement RGB Backlight LED

Color Gamut Coverage 72% NTSC

Color Depth 8 bits

Viewing Angle UWVA 85/85/85



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

Panel LCD 13.3 inch diagonal FHD (1920 x 1080) BrightView WLED UWVA 72% NTSC 1000 nits eDP 1.4+PSR2 flat Privacy NWBZ

Outline Dimensions (W x H x D) 298.76 x 186.04 mm (typ.)

Active Area 293.76 x 165.24 mm (typ.)

Weight 255 g (max)

Diagonal Size 13.3 inch

Thickness 3.0 mm (max)
Interface eDP 1.4 + PSR2
Surface Treatment BrightView Glass

Touch Enabled Yes

Contrast Ratio 2000:1 (typ.)

Refresh Rate 60 Hz
Brightness¹ 1000 nits

Pixel Resolution 1920 x 1080(FHD)

Format of LCD Pixel Arrangement RGB

Backlight LED

Color Gamut Coverage 72% NTSC

Color Depth 8 bit

Viewing Angle UWVA 85/85/85



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

STORAGE

Note: 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.

128 GB 2280 M2 PCIe NVMe TLC Solid State Drive Form Factor M.2 2280
Capacity 128 GB
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

Maximum Sequential Read1300~2047MB/sMaximum Sequential Write800~1200MB/sLogical Blocks250,069,680

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]
Features ATA Security; DIPM; TRIM; DEVSLP

256 GB 2280 PCIe NVMe Value Solid State Drive Form Factor M.2 2280
Capacity 256 GB
NAND Type TLC

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Weight
 0.02 lb (10 g)

 Interface
 PCle NVMe

Maximum Sequential ReadAround 1500 ~ 1700 MB/sMaximum Sequential WriteAround 780 ~ 1300 MB/s

Logical Blocks 500118192

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features ATA Security; TRIM; L1.2



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

SSD 512 GB 2280 M2 PCIe-3x4 SS NVMe TLC

Form Factor M.2 2280
Capacity 512 GB
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 Around 2700 ~ 3400 MB/s
Maximum Sequential Write Around 1390 ~ 2956 MB/s

Logical Blocks 1000215215

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features ATA Security; TRIM; L1.2

SSD 512 GB 2280 PCIe NVMe Value

Form Factor M.2 2280
Capacity 512 GB
NAND Type TLC/QLC
Height 0.09 in (2.3 mm)

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Weight
 0.02 lb (10 g)

 Interface
 PCIe NVMe

Maximum Sequential Read Around 1500 ~ 1700 MB/s
Maximum Sequential Write Around 860 ~ 1500 MB/s

Logical Blocks 1000215215

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features ATA Security; TRIM; L1.2



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

SSD 1TB 2280 PCIe-3x4 NVMe Form Factor Three Layer Cell single-sided

Form Factor M.2 2280
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
 2000409264

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features ATA Security; TRIM; L1.2



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

NETWORKING/COMMUNICATIONS

Realtek RTL8822CE
802.11ac 2x2 Wi-Fi®
and Bluetooth® 5.01

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 802.11k IEEE 802.11r IEEE 802.11v

Interoperability

Wi-Fi certified
•802.11b/g/n

•802.11b/g/n 2.402 – 2.482 GHz

•802.11a/n/ac 4.9 – 4.95 GHz (Japan)

4.9 – 4.95 GHz (Japa 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: MCS 0 ~ MCS 15, (20MHz, and 40MHz)

•802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz & 80MHz)

Modulation Direct Sequence Spread Spectrum

BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM

Security³ •IEEE 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

Ad-hoc (Peer to Peer)

Models

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

Output Power² • 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
802.11n HT20(5GHz): +15.5dBm minimum

802.11n HT40(5GHz): +14.5dBm minimum
 802.11ac VHT80(5GHz): +11.5dBm minimum
 802.11ac VHT160(5GHz): +11.5dBm minimum

Power Consumption •Transmit mode: 2.0 W

•Receive mode: 1.6 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 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

Antenna type High efficiency antenna with spatial diversity, mounted in the display

802.11ac, MCS9: -59dBm maximum

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 with CNVi Interface

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: 2.8 g

2. Type 126: 1.3 g

Operating Voltage 3.3 v +/- 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)

Non-operating 5% to 95% (non-condensing)

HP ProBook x360 435 G8 Notebook PC

Technical Specifications

Altitude Operating 0 to 10,000 ft (3,048 m)

Non-operating 0 to 50,000 ft (15,240 m)

LED Activity LED Amber – Radio 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 Legacy: 0~79 (1 MHz/CH)

Channels BLE: 0~39 (2 MHz/CH)

Signaling Data Rate Legacy: 3 Mbps signaling data rate¹ 2.17 Mbps

BLE: 1 Mbps signaling data rate¹ 0.2 Mbps

1. Actual throughput may vary.

Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice

channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps

asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

Transmit Power The Bluetooth component shall operate as a Class II Bluetooth device with

a maximum transmit power of + 4 dBm for BR and EDR.

Power Consumption Peak (Tx) 330 mW

Peak (Rx) 230 mW

Selective Suspend 17 mW

Bluetooth Software

Supported

Microsoft Windows Bluetooth Software

Power Management Microsoft Windows ACPI, and USB Bus Support

Certifications FCC (47 CFR) Part 15C, Section 15.247 & 15.249

Power Management

Certifications

ETS 300 328, ETS 300 826

Low Voltage Directive IEC950

UL, CSA, and CE Mark

Bluetooth Profiles

Supported

BT4.1-ESR 5/6/7 Compliance

LE Link Layer Ping

LE Dual Mode

LE Link Layer

LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels

Train Nudging & Interlaced Scan

BT4.2 ESR08 Compliance

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

LE Privacy 1.2 – Extended Scanner Filter Policies



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

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)

- 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).



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

Intel® Wi-Fi 6 AX200 and Wireless LAN Standards Bluetooth® 5.0 (802.11ax 2 x 2, supporting gigabit data rate) non-vPro^{1,5}

IEEE 802.11a
IEEE 802.11b
IEEE 802.11g
IEEE 802.11n
IEEE 802.11ac
IEEE 802.11ax
IEEE 802.11d
IEEE 802.11e
IEEE 802.11h
IEEE 802.11i
IEEE 802.11i

IEEE 802.11r IEEE 802.11v

Wi-Fi certified

Interoperability
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: MCS 0 ~ MCS 15, (20MHz, and 40MHz)

•802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, 80MHz &

160MHz)

• 802.11ax: MCS0 ~ MCS11, (1SS and 2SS) (20MHz, 40MHz, 80MHz &

160MHz)

Modulation Direct Sequence Spread Spectrum

OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM

Security³
•IEEE 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 •IEEE 802.11i

•WAPI

Network Architecture

Models

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

Roaming IEEE 802.11 compliant roaming between access points

Output Power² • 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

• 802.11n HT20(5GHz): +15.5dBm minimum

• 802.11n HT40(5GHz): +14.5dBm minimum

• 802.11ac VHT80(5GHz): +11.5dBm minimum

802.11ac VHT160(5GHz): +11.5dBm minimum
802.11ax HT40(2.4GHz): +10dBm minimum

• 802.11ax VHT160(5GHz): +10dBm minimum

Power Consumption •Transmit mode: 2.0 W

•Receive mode: 1.6 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 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

802.11ax, MCS11(HT40): -59dBm maximum

802.11ax, MCS11(VHT160): -58.5dBm maximum

Antenna type High efficiency antenna with spatial diversity, mounted in the display

802.11ac, MCS9: -59dBm maximum

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: 2.8 g

2. Type 126: 1.3 g

Operating Voltage 3.3 v +/- 9%



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

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)

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 LED Amber – Radio 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)

Signaling Data Rate Legacy: 3 Mbps signaling data rate¹ 2.17 Mbps

BLE: 1 Mbps signaling data rate¹ 0.2 Mbps

1. Actual throughput may vary.

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.

Power Consumption Peak (Tx) 330 mW

Peak (Rx) 230 mW

Selective Suspend 17 mW

Bluetooth Software

Supported

Microsoft Windows Bluetooth Software

Power Management Microsoft Windows ACPI, and USB Bus Support

Certifications FCC (47 CFR) Part 15C, Section 15.247 & 15.249

Power Management

Certifications

ETS 300 328, ETS 300 826

Low Voltage Directive IEC950

UL, CSA, and CE Mark

Bluetooth Profiles

Supported

BT4.1-ESR 5/6/7 Compliance

LE Link Layer Ping

LE Dual Mode

LE Link Layer

LE Low Duty Cycle Directed Advertising
LE L2CAP Connection Oriented Channels



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

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)

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. The specifications for Wi-Fi 6 (802.11ax) are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax

devices. 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/q (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.



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

Intel® 9260 802.11a/b/g/n/ac (2 x 2) Wireless LAN Standards Wi-Fi® and Bluetooth® 5

Combo¹ (Non-vPro)

IEEE 802.11a IEEE 802.11b

IEEE 802.11q IEEE 802.11n

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 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 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: MCS 0 ~ MCS 15, (20MHz, and 40MHz)

•802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, 80MHz &

160MHz)

Modulation **Direct Sequence Spread Spectrum**

BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM

Security³ •IEEE 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 Ad-hoc (Peer to Peer)

Models Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

Output Power² • 802.11b: +18.5dBm minimum

802.11g: +17.5dBm minimum
802.11a: +18.5dBm minimum

• 602.11d. +16.5ubiii iiiiiiiiiiiiii

802.11n HT20(2.4GHz): +15.5dBm minimum
802.11n HT40(2.4GHz): +14.5dBm minimum
802.11n HT20(5GHz): +15.5dBm minimum
802.11n HT40(5GHz): +14.5dBm minimum

802.11ac VHT80(5GHz): +11.5dBm minimum
 802.11ac VHT160(5GHz): +11.5dBm minimum

Power Consumption •Transmit mode: 2.0 W

•Receive mode: 1.6 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 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

Antenna type High efficiency antenna with spatial diversity, mounted in the display

802.11ac, MCS9: -59dBm maximum

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: 2.8 g

2. Type 126: 1.3 g

Operating Voltage 3.3 v +/- 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)

Non-operating 5% to 95% (non-condensing)



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

Altitude Operating 0 to 10,000 ft (3,048 m)

Non-operating 0 to 50,000 ft (15,240 m)

LED Activity LED Amber – Radio 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 Legacy: 0~79 (1 MHz/CH)
Channels BLE: 0~39 (2 MHz/CH)

Signaling Data Rate Legacy: 3 Mbps signaling data rate¹ 2.17 Mbps

BLE: 1 Mbps signaling data rate¹ 0.2 Mbps

1. Actual throughput may vary.

Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice

channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps

asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

Transmit Power The Bluetooth component shall operate as a Class II Bluetooth device with

a maximum transmit power of + 4 dBm for BR and EDR.

Power Consumption Peak (Tx) 330 mW

Peak (Rx) 230 mW

Selective Suspend 17 mW

Bluetooth Software

Supported

Microsoft Windows Bluetooth Software

Power Management Microsoft Windows ACPI, and USB Bus Support

Certifications FCC (47 CFR) Part 15C. Section 15.247 & 15.249

Power Management

Certifications

ETS 300 328, ETS 300 826

Low Voltage Directive IEC950

UL, CSA, and CE Mark

Bluetooth Profiles

BT4.1-ESR 5/6/7 Compliance

Supported LE Link Layer Ping

LE Dual Mode

LE Link Layer

LE Low Duty Cycle Directed Advertising
LE L2CAP Connection Oriented Channels

Train Nudging & Interlaced Scan

BT4.2 ESR08 Compliance

LE Secure Connection- Basic/Full



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

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)

- 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).



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

POWER

HP 45 W USB type C Dimens
Straight 1.8 m AC Adapter Weight

Dimensions 94.0 mm x 40.0 mm x 26.5 mm

l**eight** 192.5 g +/- 10 g

(Not including power cord. Power cord varies by country)

Input 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 ~ 63 Hz

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** 5ms at 115 Vac input

Output current limit < 5.0A

Connector USB Type-C™

Output

Environmental Design Operating temperature 32° to 95° F (0° to 35° C)

Non-operating (storage) -4° 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%

Storage Humidity 10% to 95%

EMI and Safety
CE Mark - full compliance with LVD and EMC directives
Worldwide safety standards - IEC60950, EN60950, LIL

Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B,

FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. MTBF - over 200,000 hours at 25°C ambient condition.

HP 45 W Smart AC adapter Dimensions 3.74 x 1.57 x 1.04 in (9.5 x 4.0 x 2.65 cm)

Weight 0.386 lb (175g) max

(Not including power cord. Power cord varies by country)

Input 90 to 265 VAC

Input Efficiency 87.74% at 115Vac and 88.4% at 230Vac

Input frequency range 47 ~ 63 Hz Input AC current 1.4 A at 90 VAC

Output Output power 45 W

DC output 19.5 V

Hold-up time 5ms at 115 Vac input

Output current limit <8.0A

Connector 4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

Environmental Design Operating temperature 32° to 95° F (0° to 35° C)

Non-operating (storage) -4° 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 CE Mark - full compliance with LVD and EMC directives

Certifications 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 Smart Dimensions nPFC Standard Barrel 4.5 mm Right Angle 1.8 m 2prong

Pimensions 95.0 x 40.0 x 26.5 mm

Weight 200 g +/- 10 g

(Not including power cord. Power cord varies by country)

Input Efficiency 87.74% at 115Vac and 88.4% at 230Vac

Input frequency range 47 ~ 63 Hz
Input AC current 1.4 A at 90 VAC

Output Output power 45 W

DC output 19.5 V

Hold-up time 5ms at 115 Vac input

Output current limit <8.0A

Connector C6

Environmental Design Operating temperature 32° to 95° F (0° to 35° C)

Non-operating (storage) -4° 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, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B.

FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE.
MTBF - over 200,000 hours at 25°C ambient condition.



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

AC Adapter 65 Watt nPFC Dimensions
Standard USB Type-C Weight
Straight 1.8 m

 Dimensions
 90.0 x 51 x 28.5 mm

 Weight
 250 q +/- 10 q

(Not including power cord. Power cord varies by country)

Input Input Efficiency 81.5% min at 115 Vac/ 230 Vac @ 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

Input frequency range 47 ~ 63 Hz

Input AC current 1.6 A at 90 VAC and maximum load

Output Output power 65 W

DC output 5V/9V/12V/15V/20V
Hold-up time 5ms at 115 Vac input
Output current limit <8.0A MAXIMUM

Connector USB Type-C™

Environmental Design Operating temperature 32° to 95° F (0° to 35° C)

Non-operating (storage) -4° 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, EN60950, UL60950, UL62368, 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 Dimensions nPFC EM Barrel Weight 4.5 mm New EM

Dimensions 102 x 55 x 30 mm **Weight** 250 q +/- 10 q

(Not including power cord. Power cord varies by country)

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

Input frequency range 47 ~ 63 Hz Input AC current 1.7 A at 90 Vac

Output Output power 65 W

DC output 19.5 V **Hold-up time** 5ms at 11

Hold-up time 5ms at 115 Vac input

Output current limit <11.0 A

Connector (d

Environmental Design Operating temperature 32° to 95° F (0° to 35° C)

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

temperature

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

Humidity20% to 95%Storage Humidity10% to 95%



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

EMI and Safety Certifications CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards -IEC60950, EN60950, UL60950, UL62368, 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 Dimensions nPFC Standard Barrel 4.5 Weight mm Right Angle 1.8 m

 Dimensions
 90.0 x 51 x 28.5 mm

 Weight
 230 q +/- 10 q

(Not including power cord. Power cord varies by country)

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

Input frequency range 47 ~ 63 Hz

Input AC current 1.7 A at 90 Vac

 Output
 Output power
 65 W

 DC output
 19.5 V

Hold-up time 5ms at 115 Vac input

Output current limit <11.0 A

Connector 4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords

Environmental Design Operating temperature 32° to 95° F (0° to 35° C)

Non-operating (storage) -4° 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, 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 SX 3 Cell 45 Wh Long Life -PL Fast Charge **Dimensions** (H x W x L) 184.62 x 85.25 x 6.15 mm

Weight 0.195 kg Max

Cells/Type 3cell Lithium-Ion Polymer cell

Energy Voltage 13.2V / 11.55V (13.2V / 11.4V)

Amp-hour capacity 3.9 Ah / 3.75 Ah (3.95 Ah / 3.79 Ah)

Watt-hour capacity 45 Wh

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

Warranty Based on system offering



HP ProBook x360 435 G8 Notebook PC

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.
- TC0 8.0
- China Energy Conservation Program (CECP)
- China State Environmental Protection Administration (SEPA)
- Taiwan Green Mark
- Korea Eco-label
- Japan PC Green label*

Sustainable Impact Specifications

- 35% 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
- 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 idle)	5.68 W	5.85 W	5.73 W
Normal Operation (Long idle)	0.81 W	0.83 W	0.79 W
Sleep	0.81 W	0.83 W	0.79 W
Off	0.22 W	0.25 W	0.22 W



HP ProBook x360 435 G8 Notebook PC

Technical Specifications

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)	19 BTU/hr	20 BTU/hr	20 BTU/hr
Normal Operation (Long idle)	3 BTU/hr	3 BTU/hr	3 BTU/hr
Sleep	3 BTU/hr	3 BTU/hr	3 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 Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L _{WAd} , bels)	Sound Pressure (L _{pAm} , decibels)
Typically Configured – Idle	2.6	15.4
Fixed Disk – Random writes	2.6	15.4
Optical Drive – Sequential reads	4.1	20.7

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.



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Technical Specifications

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) standard at the Gold level, see www.epeat.net
- Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.
- This product is 94.1% recycle-able when properly disposed of at end of life.

Packaging Materials

Externa:	PAPER/Corrugated	256g
Internal:	PAPER/Molded pulp	171 g
	PLASTIC/Polyethylene low density	14 g
	PLASTIC/polypropylene	3

The plastic packaging material contains at least 0% recycled content.

The corrugated paper packaging materials contains at least 61.7% 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.

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):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Bis(2-Ethylhexyl) phthalate (DEHP)
- Benzyl butyl phthalate (BBP)
- Dibutyl phthalate (DBP)
- Diisobutyl phthalate (DIBP)
- Formaldehyde
- Halogenated Diphenyl Methanes



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Technical Specifications

- 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 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

ISO 14001 certificates:

http://www8.hp.com/us/en/hp-information/environment/ecolabels.html

http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf



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Technical Specifications

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



HP ProBook x360 435 G8 Notebook PC

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

•	Description	Part#
Type Cases	Description	
Cases	HP Essential Top Load Case	H2W17AA
	HP Essential Backpack (up to 15.6")	H1D24AA
Docking	HP USB-C Mini Dock	1PM64AA
	HP Thunderbolt Dock 120W G2	2UK37AA
	HP TB Dock G2 w/ Combo Cable	3TR87AA
	HP TB Dock 120W G2 w/Audio	3YE87AA
	HP TB Dock 120W G2 cable	3XB94AA
	HP TB Dock G2 combo cable	3XB96AA
	HP TB Dock 120W G2 Cable	3XB94AA
	HP TB Dock G2 Combo Cable	3XB96AA
	HP TB Dock G2 Audio Module	3AQ21AA
	HP USB-C/A Universal Dock G2	5TW13AA
	HP USB-C Dock G5	5TW10AA
Input/Output	UD Comfort Crip Wireless Moure	1121 62 4 4
Input/Output	HP Comfort Grip Wireless Mouse HP 3-Button USB Laser Mouse	H2L63AA H4B81AA
	HP USB Travel Mouse	
	HP Ultra Mobile Wireless Mouse	G1K28AA
		H6F25AA
	HP USB Fingerprint Mouse	4TS44AA
	HP USB-C to DP	N9K78AA
	HP USB-C to USB-A Hub	Z6A00AA
	HP Elite USB-C Multi Port Hub	4WX89AA
	HP Pro Pen HP USB-C to RJ45 Adapter	8JU62AA V7W66AA
	The OSB C to NS43 Adapter	V/ WOORA
Power	HP 45W Smart AC Adapter 4.5mm	H6Y88AA
	HP 65W Smart AC Adapter 4.5mm	H6Y89AA
	HP 45W LC USB-C Power Adapter	1MZ01AA
	HP 65W LC USB-C Power Adapter	TBD
	USB-C NB Power Bank	1TZ86AA
	HP Essential Power Bank	3TB55AA
Storage	HP External USB Optical Drive	F2B56AA
Memory	HP 4GB DDR4 3200 Memory	286H5AA
	HP 8GB DDR4 3200 Memory HP 16GB DDR4 3200 Memory	286H8AA 286J1AA
	THE TOGS SSITE SECONDARY	LOOJINA



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

Security HP Sure Key Cable Lock

6UW42AA

HP Nano Keyed Cable Lock

1AJ39AA



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Summary of Changes

Date of change:	Version History:	Updated	Description of change:
February 10, 2021	V1 to V2		Processor specs and Environmental Data
March 9, 2021	V2 to V3	Removed	USB-C to RJ45 Adapter
March 17, 2021	V3 to V4	Updated	Environmental Data
March 19, 2021	V4 to V5	Updated	Processor section Processor section
April 20, 2021	V5 to V6	Updated	Memory Section and Input/ Output Section Updated
May 6, 2021	V6 to V7	Updated	TPM 2.0/Added HP Smart Support
May 27, 2021	V7 to V8	Updated	HP Pro Security Edition to HP Wolf Pro Security Edition

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