Overview

HP ProBook 430 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)

- 6. Clickpad
- 7. Micro SD Card Reader
- 8. Audio Combo Jack
- 9. USB 3.1 Gen 1 Powered Port
- 10. Nano Security Lock Slot (Lock sold separately)

Overview



Right

- 1. Power Button Key
- 2. Power Connector
- 3. USB Type-C[®] 3.1 Gen 2 (Alt Mode)

- 4. USB 3.1 Gen 1 Charging Port
- 5. HDMI Port (Cable not included)
- 6. Touch Fingerprint Sensor (select models)

Overview

At a Glance

- A new compact design with lift-anywhere edge
- Choice of 11th generation Intel[®] Core[™] i7, i5 and i3 processors
- Preinstalled with Windows 10 versions or FreeDOS
- Fast and upgradeable dual channel DDR4 SODIMM memory up to 32 GB
- Choice of 33.8 cm (13.3") diagonal HD, Ultra Wide Viewing Angle FHD, Touch or Non-Touch screen, 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 Gen3¹, HP Sure Sense, HP Sure Click and Touch Fingerprint reader²
- 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 cycles³
- Designed to support HP docking options including the HP Universal Dock G5
- Passed MIL-STD 810H tests⁴
- Battery life up to 12 hours and 45 minutes
- 1. HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.
- 2. Sold separately or as an optional feature
- 3.HP notebooks 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.
- 4. MIL STD 810H testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.

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



Technical Specifications

PRODUCT NAME

HP ProBook 430 G8 Notebook PC

OPERATING SYSTEMS

Preinstalled Windows 10 Pro 64 – HP recommends Windows 10 Pro for business¹

Windows 10 Pro 64 (National Academic only)2

Windows 10 Home 641

Windows 10 Home Single Language 641

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

Supported Versions

HP tested Windows 10, version 1809 on this platform. For testing information on newer versions of Windows 10, please see https://support.hp.com/document/c05195282

PROCESSORS

Intel® Core™ i7-1165G7 processor (Up to 4.7 GHz frequency with Intel® Turbo Boost Technology, 12 MB L3 cache, 4 cores) ^{3,4}

Intel® Core™ i5-1135G7 processor (Up to 4.2 GHz frequency with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores) ^{3,45,6} Intel® Core™ i3-1115G4 processor with Intel® UHD Graphics (Up to 4.1 GHz frequency with Intel® Turbo Boost Technology, 6 MB L3 cache, 2 cores) ^{3,45,6}

Processors Family

11th Generation Intel® Core™ i7 processor (i7-1165G7)⁷

11th Generation Intel® Core™ i5 processor (i5-1135G7)⁷

11th Generation Intel® Core™ i3 processor (i3-1115G4)⁷

- 3. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.
- 4. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
- 5. Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost for more information.
- 6. Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.
- 7. In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com.



Technical Specifications

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

Intel® Iris® Xe Graphics (Core i5 and Core i7)43 Intel® UHD Graphics (Core i3)8

Supports

Support HD decode, DX12, HDMI 1.4b

8. HD content required to view HD images.

43. Intel® Iris® Xe Graphics capabilities require system to be configured with Intel® Core™ i5 or i7 processors and dual channel memory. Intel® Iris® Xe Graphics with Intel® Core™ i5 or 7 processors and single channel memory will only function as UHD graphics.

DISPLAYS

Internal

Non-Touch

33.8 cm (13.3") diagonal HD SVA eDP anti-glare, narrow bezel, 250 nits, 45% NTSC (1366 x 768) 8,10

33.8 cm (13.3") diagonal HD SVA eDP anti-glare, narrow bezel, 250 nits, 45% NTSC for HD camera (1366 \times 768) $^{8.10}$

33.8 cm (13.3") diagonal HD SVA eDP anti-glare, narrow bezel, 250 nits, 45% NTSC for HD+IR camera (1366 x 768) 8.10

33.8 cm (13.3") diagonal FHD UWVA eDP anti-glare, narrow bezel flat, 250 nits, 45% NTSC for HD camera (1920 x 1080)^{8,10}

33.8 cm (13.3") diagonal FHD UWVA eDP anti-glare, narrow bezel flat, 250 nits, 45% NTSC for HD+IR camera (1920 x 1080)

33.8 cm (13.3") diagonal FHD UWVA eDP+PSR anti-glare, low power narrow bezel flat, 400 nits, 72% NTSC for HD camera (1920 x 1080) 8,10

33.8 cm (13.3") diagonal FHD UWVA eDP+PSR anti-glare, low power narrow bezel flat, 400 nits, 72% NTSC for HD+IR camera (1920 x 1080) 8,10

33.8 cm (13.3") diagonal FHD UWVA eDP+PSR anti-glare, narrow bezel flat with HP Sure View Gen3 Integrated Privacy Screen, 1000 nits, 100% sRGB for HD camera (1920 x 1080) 8,10,11

33.8 cm (13.3") diagonal FHD UWVA eDP+PSR anti-glare narrow bezel flat with HP Sure View Gen3 Integrated Privacy Screen, 1000 nits, 100% sRGB for HD+IR camera (1920 x 1080) 8,10,11

Touch

33.8 cm (13.3") diagonal FHD UWVA eDP anti-glare, narrow bezel flat, touch-on-panel screen, 250 nits, 45% NTSC for HD camera (1366 x 768) 8,9,10

HDMI

Supports resolutions up to 4K 30Hz

- 8. HD content required to view HD images.
- 9. Sold separately or as an optional feature.
- 10. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 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.

NOTE: Actual brightness will be lower with touchscreen or Sure View.



Technical Specifications

STORAGE AND DRIVES

Primary M.2 Storage

128 GB PCIe® NVMe™ M.2 TLC Solid State Drive ¹²
256 GB PCIe® NVMe™ M.2 Value Solid State Drive ¹²
512 GB PCIe® NVMe™ M.2 Value Solid State Drive ¹²
512 GB Intel® PCIe® NVMe™ QLC M.2 SSD with 32 GB Intel® Optane™ memory H10 ^{12, 38,39}
1 TB PCIe® NVMe™ M.2 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.

38. Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system. Requires 8th Gen or higher Intel® Core™ processor, BIOS version with Intel® Optane™ supported, Windows 10 64-bit, and an Intel® Rapid Storage Technology (Intel® RST) driver.

39. Intel® Optane™ memory H10 only for Intel® PCIe® NVMe™ QLC M.2 SSD.

MEMORY

Maximum Memory

32 GB DDR4-3200 SDRAM 13

Memory⁴³

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

Memory Slots

2 SODIMM
Both slots are accessible/upgradeable by IT or self-maintainers only DDR4 PC4 SODIMMS, system runs at 3200
Supports Dual Channel Memory

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

43. Intel® Iris® Xe Graphics capabilities require system to be configured with Intel® Core™ i5 or i7 processors and dual channel memory. Intel® Iris® Xe Graphics with Intel® Core™ i5 or 7 processors and single channel memory will only function as UHD graphics.



Technical Specifications

NETWORKING/COMMUNICATIONS

WLAN

Realtek 802.11ac (2x2) WLAN and Bluetooth® 5 Combo ¹⁴ Intel® Dual Band Wireless-AC 9560 802.11a/b/g/n/ac (2x2) WLAN and Bluetooth® 5 Combo, non-vPro® ¹⁴ Intel® Dual Band Wi-Fi® 6 AX201 802.11a/b/g/n/ac/ax (2x2) WLAN and Bluetooth® 5 Combo, non-vPro® ¹⁵

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

AUDIO/MULTIMEDIA

Audio

2 Integrated stereo speakers Integrated microphone (Dual Array)

Speaker Power

2W/4ohm Per speaker

Camera

720p HD Camera⁸
720p HD Camera+IR Camera ^{8,9}

- 8. HD content required to view HD images.
- 9. 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

Preinstalled Software BIOS

HP BIOSphere Gen5 16

HP Drive Lock & Automatic Drive Lock

BIOS Update via Network

Power On Authentication

HP Secure Erase 18

Absolute Persistence Module 19

HP LAN-Wireless Protection

Pre-boot Authentication

Software

Xerox® DocuShare® 90 day free trial offer42

HP Connection Optimizer 17

HP Image Assistant

HP Hotkey Support

myHP

HP Noise Cancellation Software

HSA Fusion for Commercial

HSA Telemetry for Commercial

Touchpoint Customizer for Commercial

HP Notifications

HP Privacy Settings

HP System Information



Technical Specifications

HP Wireless Button Driver HP Power Manager HP Work Well Buy Office (sold separately)

Manageability Features

HP Driver Packs (download) 20

HP Manageability Integration Kit Gen3 (download) 21

HP System Software Manager (SSM) (download)

HP BIOS Config Utility (BCU) (download)

HP Client Catalog (download)

HP Client Management Script Library (download)

Client Security Software

HP Client Security Manager Gen6 ²² Windows Defender ²³

Security Management

Pre-boot Authentication
USB enable/disable (via BIOS)
Power-on password (via BIOS)
Setup password (via BIOS)
HP Fingerprint Sensor ²⁴
Support for chassis padlocks and cable lock devices
HP Sure Click ²⁶
HP Sure Senso ²⁷

HP Sure Sense ²⁷ HP Sure Start Gen6 ²⁸

HP Sure Admin ²⁹

TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified)(FIPS 140-2 Level 2 Certified) 30

42. 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 90 day free trial period. See visit http://www.xerox.com/docusharego for details.

16. HP BIOSphere Gen5 is available on select HP Pro and Elite PCs. See product specifications for details. Features may vary depending on the platform and configurations.

17. HP Connection Optimizer requires Windows 10.

18. 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™.

19. 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/20. HP Driver Packs not preinstalled, however available for download at

http://www.hp.com/go/clientmanagement.

- 21. HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement.
- 22. HP Client Security Manager Gen6 requires Windows and is available on the select HP Pro and Elite PCs.
- 23. Windows Defender Opt in and internet connection required for updates.
- 24. HP Fingerprint sensor is an optional feature that must be configured at purchase.
- 25. Windows Defender Opt in and internet connection required for updates.
- 26. HP Sure Click requires Windows 10 Pro or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.
- 27. HP Sure Sense requires Windows 10. Pro or Enterprise
- 28. HP Sure Start Gen6 is available on select HP PCs.
- 29. 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.



Technical Specifications

30. Firmware TPM is version 2.0.

POWER

Power Supply 16

HP Smart 65 W External AC power adapter ³² HP Smart 65 W EM External AC power adapter ³² HP Smart 65 W USB Type-C[®] adapter ³² HP Smart 45 W External AC power adapter ³² HP Smart 45 W USB Type-C[®] adapter ³²

Primary Battery

HP Long Life 3-cell, 45 Wh Polymer 33

Power Cord

3-wire plug - 1m ³² 2-wire plug - 1m ³²

Battery life

Up to 12 hours and 45 minutes (UMA graphics, Intel® 11th generation CPU and 3-cell 45 WHr battery)

Battery Weight

190 q

- 32. Availability may vary by country.
- 33. Battery is internal and not replaceable by customer. Serviceable by warranty.

WEIGHTS & DIMENSIONS

Product Weight 34

Starting at 2.81 lb Starting at 1.28kg (400nits panel only)

Product Dimensions (w x d x h)

Metal bottom cover: 12.08 x 8.2 x 0.62 in 30.69 x 20.84 x 1.59 cm

Plastic bottom cover: 12.08 x 8.2 x 0.69 in 30.69 x 20.84 x 1.77 cm

34. Weight will vary by configuration.



Technical Specifications

PORTS/SLOTS

Ports

1 USB 3.1 Gen 2 Type-C® (Power delivery, DisplayPort™ 1.4) 2 USB 3.1 Gen 1 (1 charging, 1 powered port) 1 HDMI 1.4b ³⁵ 1 Headphone/microphone combo jack 1 AC power

Expansion Slots

1 Micro SD Card Reader Supports SD, SDHC, SDXC

35. HDMI cable sold separately.

SERVICE AND SUPPORT

HP Services offers 3-year and 1-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year limited warranty as the platform. 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.36

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



Technical Specifications

SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)

Nominal Operating Voltage 19 V
Average Operating Power 4.62 W
Integrated graphics Yes

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 40

EPEAT® 2019 Gold in U.S. 41

ICES Yes Australia / Yes NZ A – Tick Compliance Yes CCC Yes Japan VCCI Compliance Yes KC Yes **BSMI** Yes **CE Marketing Compliance** Yes **BNCI or BELUS** Yes CIT Yes GOST Yes Saudi Arabian Compliance (ICCP) Yes

40.Configurations of the HP ProBook 430 G8 that are ENERGY STAR® certified are identified as HP ProBook 430 G8 ENERGY STAR on HP websites and on http://www.energystar.gov.

41. 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.

Yes



SABS

DISPLAYS

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

Actual brightness will be lower with touchscreen or Sure View.

Panel LCD 13.3 inch FHD (1920x1080) Anti-Glare WLED UWVA 45% NTSC 250nits eDP 1.2 w/o PSR slim NWBZ 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 Anti-Glare

Touch Enabled No

Contrast Ratio600:1 (typ.)Refresh Rate60 Hz

Brightness 250nits (typ.) **Pixel Resolution** 1920 x 1080 (FHD)

Format RGB

Backlight LED

Color Gamut Coverage NTSC 45%

Color Depth 6 bits

Viewing Angle UWVA 85/85/85

Panel LCD 13.3 inch FHD (1920x1080) Anti-Glare WLED UWVA 45% NTSC 250nits eDP slim Touch on Panel NWBZ

 Outline Dimensions (W x H x D)
 300.56 x 177.77 mm (max)

 Active Area
 293.76 x 165.24 mm (typ.)

Weight 260 g (max)
Diagonal Size 13.3 inch

Thickness 3.0 mm/ 5.0 mm (PCB) (max)

Interface eDP 1.2

Surface Treatment Anti-Glare On-cell

Touch Enabled Yes

Contrast Ratio600:1 (typ.)Refresh Rate60 HzBrightness250 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

Panel LCD 13.3 inch FHD (1920x1080) Anti-Glare WLED UWVA 72% NTSC 1000nits eDP 1.4+PSR2 flat Privacy NWBZ Gen3

 Outline Dimensions (W x H x D)
 299.06 x 186.54 mm (max)

 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 + PSR (4 lane)
Surface Treatment Anti-Glare (AG)

Touch Enabled No

Contrast Ratio 2000:1 (typ.)

Refresh Rate 60 Hz Brightness 1000 nits

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

Panel LCD 13.3 inch FHD (1920x1080) Anti-Glare WLED UWVA 72% NTSC 400nits eDP 1.4+PSR2 ultraslim LP NWBZ

 Outline Dimensions (W x H x D)
 299.06 x 185.54 mm (max)

 Active Area
 293.76 x 165.24 mm (typ.)

Weight170 g (max)Diagonal Size13.3 inchThickness2.0 mm (max)

Interface eDP 1.4 + PSR2 (2 lane)

Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio1200:1 (typ.)Refresh Rate60 HzBrightness400 nits

Pixel Resolution 1920 x 1080 (FHD)

Format RGB

Backlight LED

Color Gamut Coverage NTSC 72%

Color Depth 8 bits

Viewing Angle UWVA 85/85/85



Technical Specifications

Panel LCD 13.3 inch HD (1366x768) Anti-Glare WLED SVA 45% NTSC 250nits eDP NWBZ ultraslim Outline Dimensions (W x H x D) 300.56 x 187.77 max. (w/ PCB & w/o bracket)

Active Area 293.83 x 165.20 typ

Weight 260g Max

Diagonal Size 13.3 inch

Thickness 3.0 mm max.

Interface eDP 1.2 (1 lane)

Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio300:1 (typ)Refresh Rate60 HzBrightness250 nits

Pixel Resolution 1366 x 768 (HD)

Format RGB
Backlight LED
Color Gamut Coverage NTSC 45%
Color Depth 6 bits

Viewing Angle SVA 45/45/15/35



Technical Specifications

STORAGE AND DRIVES*

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

SSD 128GB 2280 PCIe-3x2 Three Layer Cell 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 Read 1400 ~ 2100 MB/s
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 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 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 Form Factor Value

Form Factor M.2 2280
Capacity 256 GB
NAND Type Value

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Weight
 0.02 lb (10 g)

 Interface
 PCle 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]
Features ATA Security (optional); TRIM; L1.2

Technical Specifications

SSD 512GB 2280 PCIe NVMe

Value

Form Factor M.2 2280
Capacity 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

SSD 512GB 2280 PCIe-3x2x2 NVMe+SSD 32GB 3D Xpoint Form Factor M.2 2280 Capacity 512 GB

NAND Type QLC+3D XPoint
Height 0.09 in (2.3 mm)
Width 0.87 in (22 mm)
Weight 0.02 lb (10 g)

Interface PCIe NVMe Gen3X2X2

Maximum Sequential Read Up to 2400 MB/s

Maximum Sequential Write Up to 1300 MB/s

Logical Blocks 1,000,215,215

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

Features ATA Security; TRIM; L1.2



NETWORKING/COMMUNICATIONS

Intel Wi-Fi® 6¹ AX201 + BT5 (802.11ax 2x2, nonvPro®, supporting gigabit file transfer speeds)⁵ non-vPro®

Wireless LAN Standards

IEEE 802.11a
IEEE 802.11b
IEEE 802.11g
IEEE 802.11n
IEEE 802.11ac
IEEE 802.11ax
IEEE 802.11d
IEEE 802.11t
IEEE 802.11t
IEEE 802.11t
IEEE 802.11t
IEEE 802.11t

IEEE 802.11v

Interoperability

Features Wi-Fi®® 6 technology

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

• IEEE 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 certificationIEEE 802.11i

WAPI

Network Architecture

Models Roaming

Output Power²

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

IEEE 802.11 compliant roaming between access points

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 Sensitivity³ • 802.11b, 1Mbps: -93.5dBm maximum

> • 802.11b, 11Mbps: -84dBm maximum • 802.11a/q, 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

• 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

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 q

2. Type 126: 1.3 q

3.3v +/- 9% Operating Voltage

Temperature Operating 14° to 158° F (-10° to 70° C)

> -40° to 176° F (-40° to 80° C) Non-operating

Humidity Operating 10% to 90% (non-condensing) Non-operating 5% to 95% (non-condensing)

> Operating 0 to 10.000 ft (3.048 m)

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

LED Amber - Radio OFF **LED Activity**

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 Legacy: 0~79 (1 MHz/CH) Channels BLE: 0~39 (2 MHz/CH)

Signaling Data Rate Legacy: 3 Mbps signaling data rate* 2.17 Mbps

BLE: 1 Mbps signaling data rate* 0.2 Mbps

* 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 Link Topology

Certifications

Microsoft Windows Bluetooth Software

Power Management

Microsoft Windows ACPI, and USB Bus Support 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

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. The specifications for Wi-Fi® 6 (802.11ax WLAN) are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax WLAN 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/g (OFDM modulation).
- 5. Wi-Fi® supporting gigabit speeds is achievable when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160MHz channels.



Intel Jefferson Peak2 9560 802.11a/b/g/n/ac (2x2) WiFi® and

Bluetooth® 5.0 Combo¹

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 802.11i IEEE 802.11k IEEE 802.11r

IEEE 802.11v

Interoperability

Wi-Fi®® CERTIFIED modules

Frequency Band

• 802.11b/q/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

• 802.11q: 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 and WiFi® compliant 64 / 128 bit WEP encryption for a/b/g mode

• 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)

Roaming

Output Power²

IEEE 802.11 compliant roaming between access points

• 802.11b: +18.5dBm minimum • 802.11q: +17.5dBm minimum

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Power Consumption

• Transmit mode: 2.0 W

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 Idle mode (PSP) 180 mW (WLAN Associated) Idle mode: 50 mW (WLAN unassociated) Connected Standby/Modern Standby: 10mW



Radio disabled: 8 mW

ACPI and PCI Express compliant power management **Power Management**

802.11 compliant power saving mode

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Bluetooth Software

Supported Link Topology Microsoft Windows Bluetooth Software



Power Management Microsoft Windows ACPI, and USB Bus Support **Certifications** FCC (47 CFR) Part 15C, Section 15.247 & 15.249

Power Management ETS **Certifications** Low

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

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Realtek RTL8822CE 802.11ac 2x2 Wi-Fi® ® + Bluetooth 5 Wireless LAN Standards IEEE 802.11a

IEEE 802.11b

IEEE 802.11n

IEEE 802.11ac

IEEE 802.11d

IEEE 802.11e

IEEE 802.11h

IEEE 802.11i

IEEE 802.11k

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

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only

• AES-CCMP: 128 bit in hardware

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WPA2 certificationIEEE 802.11i

• WAPI

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-40° to 176° F (-40° to 80° C) Non-operating **Operating** 10% to 90% (non-condensing)

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Altitude **Operating** 0 to 10,000 ft (3,048 m) Non-operating 0 to 50,000 ft (15,240 m)

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Supported **Link Topology** Microsoft Windows Bluetooth Software

Power Management Microsoft Windows ACPI, and USB Bus Support **Certifications** FCC (47 CFR) Part 15C, Section 15.247 & 15.249

Power Management

Certifications

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POWER

AC Adapter 45 Watt nPFC Standard USB Type-C® Straight 1.8m **Dimensions (H x W x D)** 94.0mm x 40.0mm x 26.5mm

Weight 192.5g +/-10%

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 Output power 5V/15W

9V/27W 12V/36W 15V/45W

DC output 5V/9V/12V/15V

Hold-up time 5 ms at 115 Vac input

Connector USB Type-C®

Certifications

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

temperature

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

temperature

Altitude 0 to 16,400 ft (0 to 5,000 m)

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

EMI and Safety 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 Smart Dimensions nPFC Standard Barrel 4.5mm Right Angle 1.8m

 Dimensions
 95 x 45 x 26.8 mm

 Weight
 200 g +/- 10 g

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

Input frequency range 47 ~ 63 Hz

Input AC current Max. 1.4 A at 90 Vac

Output Output power 45 W

DC output 19.5 V

Hold-up time 5 ms at 115 Vac input

Output current limit <8.0A

Connector 4.5mm Barrel Type

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

temperature

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

temperature

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

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

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AC Adapter 45 Watt Smart Dimensions nPFC Standard Barrel 4.5mm Right Angle 1.8m 2prong Weight Input

 Dimensions
 95 x 45 x 26.8 mm

 Weight
 200 g +/- 10 g

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 45 W

DC output 19.5 V

Hold-up time 5 ms at 115 Vac input

Output current limit <8.0A

Connector 4.5mm Barrel Type

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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 Dimensions Standard USB type C® Weight Straight 1.8m

Dimensions 90.0 x 51 x 28.5mm

Weight 250 g +/- 10 g

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** 5 ms at 115 Vac input

Output current limit 8.0A Max.

Connector USB Type C®

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

temperature

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

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

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

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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 (H x W x D) nPFC EM Barrel 4.5mm

Weight

Output

102 x 55 x 30mm 250q +/-10%

Input AC current

Output power

Input Input Efficiency

88.0 % at 115 Vac and 89.0 % at 230 Vac

Input frequency range 47 ~ 63 Hz

Max. 1.7 A at 90 Vac

DC output 19.5V

Hold-up time 5 ms at 115 Vac input

65W

New EM

Output current limit <11.0A

Connector 4.5mm Barrel Type

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

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

Dimensions (H x W x D)

90 x 51 x 28.5mm 230g +/-10%

 Weight
 230g +/-10%

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

Input frequency range 47 ~ 63 Hz

Input AC current Max. 1.7 A at 90 Vac

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DC output 19.5V

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Technical Specifications

Battery RH 3 Cell WHr 45 Long Life -PL Fast Charge **Dimensions (H x W x L)** 6.2 x 68.7 x 249.6mm

Weight 190g

Cells/Type 3cell Lithium-Ion Polymer cell/ 545974

Voltage 11.4 V Amp-hour capacity 3.950Ah Watt-hour capacity 45 Wh

Operating (Charging) 32° to 113° F (0° to 45° C)
Operating (Discharging) 14° to 122° F (-10° to 60° C)

No

Optional Travel Battery

Available

Warranty Based on system offering

Country of Origin

China



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

Туре	Description	Part Number
Cases	HP Business Backpack (up to 17.3")	2SC67AA
	HP Business Slim Top Load (up to 14.1")	2SC65AA
	HP Prelude Pro Recycle Backpack	1X644AA
	HP Prelude Pro Recycle Top Load	1X645AA
	HP Recycled Top Load	5KN29AA
	HP Recycled Backpack	5KN28AA
Da akin a	LIDUCD COM: De-I	1 DNC 4 A A
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 G2 Audio Module	3AQ21AA
	HP USB-C/A Universal Dock G2 HP USB-C Dock G5	5TW13AA
	HP O2B-C DOCK G2	5TW10AA
Input/Output	HP USB Essential Keyboard and Mouse	H6L29AA
	HP Wired Desktop 320MK Mouse & Keyboard	9SR36AA
	HP Bluetooth Travel Mouse	6SP30AA
	HP Comfort Grip Wireless Mouse	H2L63AA
	HP Wired Desktop 320M Mouse	9VA80AA
	HP USB Travel Mouse	G1K28AA
	HP Elite USB-C Hub	4WX89AA
	HP USB-C Travel Hub G2	7PJ38AA
	HP USB-C to RJ45 Adapter	V7W66AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP Stereo USB Headset	T1A67AA
	HP Stereo 3.5mm Headset	T1A66AA
Power	HP 45W Smart AC Adapter 4.5mm	Н6Ү88АА
1 Ower	45W Smart Power Adapter 2 prong -4.5mm (Japan only)	L6F60AA
	65W Smart Power Adapter (w/ 4.5mm to 7.5mm DC dongle)	H6Y89AA
	HP 65W Slim AC Adapter	H6Y82AA
	HP 65W USB-C Slim Power Adapter	3PN48AA
	HP 45W LC USB-C Power Adapter	1MZ01AA
	HP 65W USB-C LC Power Adapter	TBD
	HP Power Bank	N9F71AA
	HP USB-C Notebook Power Bank	3TB55AA
	III OOD CHOLEDOOK I OWEI DAIIK	JIDJJAA
Storage	HP External USB Optical Drive	F2B56AA



HP ProBook 430 G8 Notebook PC

QuickSpecs

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

Security

HP Sure Key Cable Lock HP Nano Keyed Cable Lock 6UW42AA 1AJ39AA



Summary of Changes

Date of change:	Version History:		Description of change:
4 November 2020	V1 to V2	Updated	Removed - Intel® Iris® Xº Graphics from processor name and added Iris footnote in graphics section

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