Overview

HP ProBook 430 G7 Notebook PC



Left

- 1. Internal Microphones (2)
- 2. Webcam
- 3. Privacy Shutter (Selective model only)
- 4. Webcam LED
- 5. Clickpad
- 6. Hard Drive LED

- 7. SD Card Reader
- 8. Thermal Vent
- 9. USB 3.1 Gen 1 port
- 10. Standard Security Lock Slot (Lock sold separately)
- 11. Power Button



Overview



Right

- 1. Power Connector
- 2. USB Type-C™ 3.1 Gen 1 Port
- 3. Ethernet Port (RJ-45)
- 4. HDMI Port (Cable not included)

- 5. USB 3.1 Gen 1 Port
- 6. Headphone/Microphone Combo Jack
- 7. HP Fingerprint Sensor



Overview

At a Glance

- Preinstall Windows 10 or FreeDOS
- Choice of 10th generation Intel® Core™ i7, i5, i3 processors
- Display include your choice of 33.8 cm (13.3") diagonal HD, Ultra Wide Viewing Angle FHD, Touch or Non-Touch screen,
 And Privacy Panel option
- Integrated Intel® UHD Graphics, Premium
- Enhanced security features including TPM2.0, HP Sure Sense, HP Sure Start Gen5, HP BIOSphere, Hardware enforced Firmware Protection, optional Fingerprint sensor, optional IR camera, and optional Privacy Panel
- Passed 19 MIL-STD 810 G testing¹
- Weight starting at 3.28 lbs (1.49 kgs)³
- HP Long-Life Rechargeable battery, with HP Fast Charge Technology recharges 50% in 30 minutes²
- Supports wireless LAN and wireless WAN options for connectivity on the go
- Up to 512 GB Solid State Drives or 1 TB Hard Drive
- Up to 32 GB total system memory
- 720p HD webcam, IR camera for face authentication with Windows Hello
- Spill-resistant and optional backlit Keyboard, and Clickpad with multi-touch gestures enabled, taps enabled as default
- 1. MIL STD 810G 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. Damage under the MIL STD test conditions or any accidental damage requires an optional HP Accidental Damage Protection Care Pack
- 2. Recharges the battery up to 50% within 30 minutes when the system is off or in standby mode when used with the power adapter provided with the notebook. After charging has reached 50% capacity, charging speed will return to normal. Charging time may vary +/-10% due to System tolerance.
- 3. Does not include power adapter.

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



Technical Specifications

PRODUCT NAME

HP ProBook 430 G7 Notebook PC

OPERATING SYSTEMS

Preinstalled Windows 10 Pro 64¹

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.

PROCESSORS

Intel® Core™ i7-10510U processor with Intel® UHD Graphics, Premium (1.8 GHz base frequency, up to 4.9 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores)^{3,4 5,6,7}

Intel® Core™ i5-10210U processor with Intel® UHD Graphics, Premium (1.6 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 6 MB L3 cache, 4 cores)^{3,4 5,6,7}

Intel® Core™ i3-10110U processor with Intel® UHD Graphics, Premium (2.1 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 4 MB L3 cache, 2 cores)^{3,4 5,6,7}

Processors Family

10th Generation Intel® Core™ i7 processor (i7-1050U)⁷
10th Generation Intel® Core™ i5 processor (i5-10210U)⁷
10th Generation Intel® Core™ i3 processor (i3-10110U)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

Integrated with processor

GRAPHICS

Integrated

Intel® UHD Graphics, Premium8

Supports

Support HD decode, DX12, HDMI 1.4b

8. HD content required to view HD images.

DISPLAYS

Internal

Non-Touch

33.8 cm (13.3") diagonal HD SVA eDP anti-glare Ultraslim, 220 nits, 45% NTSC for two WLAN antennas $(1366 \times 768)^{8,10}$

33.8 cm (13.3") diagonal HD SVA eDP anti-glare Ultraslim, 220 nits, 45% NTSC for HD camera and two WLAN antennas $(1366 \times 768)^{8,10}$

33.8 cm (13.3") diagonal HD SVA eDP anti-glare Ultraslim, 220 nits, 45% NTSC for HD+IR camera and two WLAN antennas $(1366 \times 768)^{8,10}$

33.8 cm (13.3") diagonal HD SVA eDP anti-glare Ultraslim, 220 nits, 45% NTSC for HD camera, WWAN and two WLAN antennas $(1366 \times 768)^{8,10}$

33.8 cm (13.3") diagonal FHD IPS eDP anti-glare slim, 250 nits, 45% NTSC for HD camera and two WLAN antennas $(1920 \times 1080)^{8,10}$

33.8 cm (13.3") diagonal FHD IPS eDP anti-glare slim, 250 nits, 45% NTSC for HD+IR camera and two WLAN antennas $(1920 \times 1080)^{8,10}$

33.8 cm (13.3") diagonal FHD IPS eDP anti-glare slim, 250 nits, 45% NTSC for HD camera, WWAN and two WLAN antennas $(1920 \times 1080)^{8,10}$

33.8 cm (13.3") diagonal FHD IPS eDP + PSR anti-glare flat with HP Sure View Integrated Privacy Screen, 1000 nits, 72% NTSC for HD camera and two WLAN antennas (1920 x 1080)^{8,10,11*}

Touch

33.8 cm (13.3") diagonal HD SVA eDP ultraslim touch screen, 220 nits, 45% NTSC for HD camera and two WLAN antennas $(1366 \times 768)^{8.9,10}$

33.8 cm (13.3") diagonal FHD SVA eDP slim touch screen, 250 nits, 45% NTSC for HD camera and two WLAN antennas (1920 \times 1080)^{8,9,10}

33.8 cm (13.3") diagonal FHD SVA eDP slim touch screen, 250 nits, 45% NTSC for HD camera, WWAN and two WLAN antennas $(1920 \times 1080)^{8.9,10}$

HDMI

Supports resolutions up to 4K 30Hz

Display Size

13.3"

33.8 cm (13.3")

- 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.



Technical Specifications

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.

*Touch-enabled display and Sure View privacy panel will lower actual brightness

Docking station model	Total number of supported displays (incl. the notebook display)	Max. resolutions supported	Dock Connectors	Technical limitations
HP Thunderbolt Dock 120W G2	3	Dual 4k @60Hz	2xDP, 1xVGA, 1xTB, 1xUSB-C alt-mode	Dual 4k only with one display in to DP and + TB port or USB-C alt mode + TB port
HP USB-C Dock G4	3	Dual 2K @ 60Hz Single 4K @ 60Hz (3840 x 1440)	1xHDMI, 2xDP	
HP USB-C Universal Dock	3	Dual 4K @ 60Hz Single 5K @ 60Hz	2xDP	
HP USB-C Travel Dock	2	Single 2K @ 60Hz	1xHDMI, 1xVGA	Single external display Only HDMI or VGA at the time
HP USB-C Mini Dock	2	Single 4K @ 30Hz	1xHDMI, 1xVGA	Single external display Only HDMI or VGA at the time
HP USB-C/A Universal Dock G2	3	Dual 2.5K @ 60Hz	2xDP, 1xHDMI	
HP USB-C Dock G5	3	Dual 2.5K @ 60Hz or 4K @ 60Hz + FHD @ 60Hz	2xDP, 1xHDMI	

STORAGE AND DRIVES

Primary Storage

500 GB 7200 rpm SATA¹² 1 TB 5400 rpm SATA¹²

Primary M.2 Storage

128 GB M.2 SATA TLC Solid State Drive12

256 GB PCIe® NVMe™ M.2 Value Solid State Drive12

256 GB Intel® PCIe® NVMe™ QLC M.2 SSD with 16 GB Intel® Optane™ memory H10^{12,13,14}

512 GB PCIe® NVMe™ M.2 TLC Solid State Drive12

512 GB PCIe® NVMe™ M.2 Value Solid State Drive12

512 GB Intel® PCIe® NVMe™ QLC M.2 SSD with 32 GB Intel® Optane™ memory H10^{12,13,14}

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.



Technical Specifications

13. 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.

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

NOTE: PCIe SSD not available for Celeron

MEMORY

Maximum Memory

32 GB DDR4-2666 SDRAM15

Memory

32 GB DDR4-2666 SDRAM (2 x 16 GB)¹⁵
16 GB DDR4-2666 SDRAM (1 x 16 GB)¹⁵
12 GB DDR4- 2666 SDRAM (4 GB and 8 GB) (1 x 8 GB)¹⁵
8 GB DDR4-2666 SDRAM (1 x 8 GB)¹⁵
8 GB DDR4-2666 SDRAM (2 x 4 GB)¹⁵
4 GB DDR4-2666 SDRAM (1 x 4 GB)¹⁵

Memory Slots

2 SODIMM
Both slots are customer accessible / upgradeable
DDR4 PC4 SODIMMS (Comet Lake runs at 2666)
Supports Dual Channel Memory

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

NETWORKING/COMMUNICATIONS

WLAN

Realtek 802.11ac (2x2) WLAN and Bluetooth® 5 Combo¹6
Intel® Dual Band Wireless-AC 9560 802.11a/b/g/n/ac (2x2) WLAN and Bluetooth® 5 Combo, non-vPro™¹6
Intel® Dual Band Wi-Fi 6 AX201 802.11a/b/g/n/ac (2x2) WLAN and Bluetooth® 5 Combo, non-vPro™¹6

WWAN

Intel® XMM™ 7360 LTE-Advanced (Cat9)17

Ethernet

Realtek 10/100/1000 GbE NIC18

16. 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. 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 160 MHz channels.

17. WWAN module is optional, must be configured at the factory and requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.



Technical Specifications

18. The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

AUDIO/MULTIMEDIA

Audio

2 Integrated stereo speakers Integrated microphone (Mono or 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.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Kevboard

HP Premium Keyboard, spill resistant with optional backlit function

Pointing Device

Clickpad with multi-touch gesture support

Function Keys

ESC: system information

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 - numlk

F11 - Wireless

F12 - Sleep

Hidden Function Keys

Fn+R - Break

Fn+S - Sys Rq

Fn+C - Scroll Lock



Technical Specifications

SOFTWARE AND SECURITY

BIOS

HP BIOSphere Gen5¹⁹

HP Drive Lock & Automatic Drive Lock²⁰

BIOS Update via Network

Master Boot Record Security

Power On Authentication

Secure Erase²¹

Absolute Persistence Module²²

Pre-boot Authentication

Software

HP Connection Optimizer

HP Image Assistant

HP Hotkey Support

HP JumpStart

HP Support Assistant²³

HP Noise Cancellation Software

Buy Office (Sold separately)

Manageability Features

HP Driver Packs²⁴

HP System Software Manager (SSM)

HP BIOS Config Utility (BCU)

HP Client Catalog

HP Manageability Integration Kit Gen3²⁵

Client Security Software

HP Client Security Manager Gen5²⁶

HP Fingerprint Sensor²⁷

Windows Defender²⁸

Security Management

Pre-boot Authentication

TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified)

USB enable/disable (via BIOS)

Power-on password (via BIOS)

Setup password (via BIOS)

Support for chassis padlocks and cable lock devices

HP Sure Click²⁹

HP Sure Start Gen5³⁰

HP Sure Sense³¹



Technical Specifications

19. 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.

20. HP Drive Lock & Automatic Drive Lock is not supported on NVMe drives

21. 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 agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: http://www.absolute.com/company/legal/agreements/ computrace-agreement. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.

23. HP Support Assistant requires Windows and Internet access.

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

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

26. HP Client Security Manager Gen5 requires Windows and is available on the select HP Pro and Elite PCs. See product specifications for details.

27. HP Fingerprint Sensor sold separately or as an optional feature.

28. Windows Defender Opt in and internet connection required for updates.

29. HP Sure Click is available on select HP platforms and supports Microsoft® Internet Explorer, Google Chrome, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode. Check http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-0922ENW for all compatible platforms as they become available.

30. HP Sure Start Gen5 is available on select HP PCs with Intel processors. See product specifications for availability.

31. HP Sure Sense requires Windows 10. See product specifications for availability.

POWER

HP Smart 65 W External AC power adapter³²
HP Smart 65 W EM External AC power adapter³²
HP Smart 65 W USB Type-C[™] adapter³²
HP Smart 45 W External AC power adapter³²
HP Smart 45 W USB Type-C[™] adapter³²

Primary Battery

HP Long Life 3-cell, 45 Wh Li-ion³³

Battery Life

Up to 15 hours and 15 minutes³⁴

Power Cord

3-wire plug - 1m³²
3-wire plug - 1.8m³²
2-wire plug - 1m³²
Duckhead power cord- 1m³²
Duckhead power cord- 1.8m³²



Technical Specifications

Battery Weight

0.49 lb 0.22 kg

- 32. Availability may vary by country.
- 33. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 34. Windows 10 MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See http://www.bapco.com for additional details.

WEIGHTS & DIMENSIONS

Product Weight

Starting at 3.28 lbs (Non-touch); Starting at 3.7 lbs (Touch)³⁵ Starting at 1.49 kg (Non-touch); Starting at 1.68 kg (Touch)³⁵ Does not include power adapter.

Product Dimensions (w x d x h)

12.15 x 9.09 x 0.71 in 30.85 x 23.1 x 1.8 cm

35. Weight will vary by configuration.

PORTS/SLOTS

Ports

1 USB 3.1 Type-C[™] Gen 1 (Power delivery, DisplayPort[™])

1 USB 3.1 Gen 1

1 USB 3.1 Gen 1 (Powered port)

1 HDMI 1.4 b³⁶

1 RJ-45

1 AC power

1 Headphone/Microphone Combo Jack

1 Standard Security Lock

Expansion Slots

1 SD

Supports SD, SDHC, SDXC

36. 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. 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.³⁷



Technical Specifications

37. 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.

COMPATIBILITY

HP TB Dock 120W w/Audio3YE87AAHP USB-C Mini Dock1PM64AAHP E243d Docking Monitor1TJ76AA

CERTIFICATION AND COMPLIANCE

ENERGY STAR® certified EPEAT® 2019 Gold³⁸ Low halogen³⁹ TCO NB 5.0 Certification

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

39. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

FACETS

Maximum Resolution 1920 x 1080 Screen Size, imperial 13.3 (diagonal)

Weight, Metric 1.49
Weight, Imperial 3.28



Technical Specifications

ENVIRONMENTAL & INDUSTRY

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® EPEAT® Gold registered in the United States. Based on US EPEAT registration according to IEEE 1680.1-2018 EPEAT. Status varies by country. See http://www.epeat.net for more information.			
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 (Short idle)	4.28 W	4.30 W	4.23 W	
Normal Operation (Long idle)	2.89 W	2.41 W	3.02 W	
Sleep	0.55 W	0.58 W	0.55 W	
Off	0.29 W	0.31 W	0.28 W	
Heat Dissipation*	family does not offer ENERGY STAR for a typically configured PC featur Microsoft Windows® operating syst	ing a hard disk drive, a high effici		
•	15 BTU/hr	15 BTU/hr	15 BTU/hr	
Normal Operation (Short idle)				
Normal Operation (Long idle)	10 BTU/hr	8 BTU/hr	10 BTU/hr	
Sleep	2 BTU/hr	2 BTU/hr	2 BTU/hr	
Off	1 BTU/hr	1 BTU/hr	<u> </u>	
	Heat dissipation is calculated based for one hour.	d on the measured watts, assumi	_	
Declared Noise	Sound Power Sound Pressure			
Emissions	(L _{pAm} , decibels)		(L _{pAm} , decibels)	
(in accordance with ISO 7779 and ISO 9296)				
Typically Configured – Idle	2.5			
Fixed Disk – Random writes	3.6			
Longevity and Upgrading	This product can be upgraded, poss features and/or components conta • 3 USB ports • 1 PC card slot (type I/II) • 1 ExpressCard/54 slot • 1 IEEE 1394 Port • 2 SODIMM memory slots • Optional expansion base docking • 1 multi-bay II storage port	ined in the product may include:	everal years. Upgradeable	



Technical Specifications

Spare parts are available throughout the warranty period and or for up to "5" years after production. Batteries This battery(s) in this product comply with EU Directive 2006/66/EC	r the end of		
Batteries This battery(s) in this product comply with EU Directive 2006/66/EC	Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.		
	This battery(s) in this product comply with EU Directive 2006/66/EC		
Batteries used in the product do not contain: Mercury greater the1ppm by weight Cadmium greater than 20ppm by weight	Mercury greater the1ppm by weight		
Battery size: CR2032 (coin cell)	Battery size: CR2032 (coin cell)		
Battery type: Lithium	Battery type: Lithium		
· · · · · · · · · · · · · · · · · · ·	• This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive -		
2011/65/EC.	oost (MEEE)		
• This HP product is designed to comply with the Waste Electrical and Electronic Equipo Directive — 2002/96/EC.	ieiit (WEEE)		
• This product is in compliance with California Proposition 65 (State of California; Safe Dr	nking Water		
and Toxic Enforcement Act of 1986).			
• This product is in compliance with the IEEE 1680.1 (EPEAT) standard at the <silve< th=""><th>> level, see</th></silve<>	> level, see		
www.epeat.net			
• Plastics parts weighing over 25 grams used in the product are marked per ISO11469 a	nd ISO1043.		
• This product contains 10.1% post-consumer recycled plastic (by wt.)			
• This product is 96.7% recycle-able when properly disposed of at end of life. Packaging Materials PAPER/Corrugated 230 g			
PAPER/Paper 51 g			
Internal: PLASTIC/Polyethylene Expanded - EPE 62 g PLASTIC/Polyethylene low density - LDPE 9 g			
Material Usage This product does not contain any of the following substances in excess of regulatory li	nits (rofor		
to the HP General Specification for the Environment at			
http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf):	·		
• Asbestos			
Certain Azo Colorants			
• Certain Brominated Flame Retardants – may not be used as flame retardants in plasti	Certain Brominated Flame Retardants – may not be used as flame retardants in plastics		
• Cadmium			
	Chlorinated Hydrocarbons Chlorinated Bourffing		
	Chlorinated Paraffins Formaldehyde		
Halogenated Diphenyl Methanes	Formaldehyde Halogenated Diphenyl Methanes		
Lead carbonates and sulfates			
• Lead and Lead compounds			
Mercuric Oxide Batteries	·		
	Nickel – finishes must not be used on the external surface designed to be frequently handled or		
	carried by the user.		
	Ozone Depleting Substances Polyhyromia and Riphopula (DRRs)		
Polybrominated Biphenyl Ethers (PBBEs) Polybrominated Biphenyl Ethers (PBBEs)	Polybrominated Biphenyls (PBBs) Polybrominated Biphenyl Ethers (PBBs)		
	Polybrominated Biphenyl Oxides (PBBOs)		
Polychlorinated Biphenyl (PCB)	, , ,		



Technical Specifications

	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:		
i ackaging osage	, , , , , , , , , , , , , , , , , , , ,		
	• 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 Inc. 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	For more information about HP's commitment to the environment:		
Environmental			
Information	Global Citizenship Report		
	http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications		
	http://www8.hp.com/us/en/hp-information/environment/ecolabels.html		
	ISO 14001 certificates:		
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K _Certificate.pdf		
	and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf		
	http://www.np.com/npinto/globaltitizensmp/environment/pur/tert.pur		



Technical Specifications

SYSTEM UNIT

Stand-Alone Power Requirements (AC

Power)

Nominal Operating Voltage 19V
Average Operating Power Win 10
Integrated graphics Yes

Max Operating Power UMA < 45W

Temperature

Operating 32° to 95° F (0° to 35° C) (Not writing optical) Non-operating 41° to 95° F (5° to 35° C) (Writing optical)

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® Selected models⁴⁰

EPEAT® 2019 Gold in U.S.⁴¹

ICES Yes Yes Australia **NZ A-Tick Compliance** Yes CCCYes Japan VCCI Compliance Yes KC Yes **BSMI** Yes **CE Marking Compliance** Yes **BNCI or BELUS** Yes

BNCI or BELUS Yes
CIT Yes
GOST Yes
Saudi Arabian Compliance (ICCP) Yes

SABS Yes UKRSERTCOMPUTER Yes



Technical Specifications

40. Configurations of the HP ProBook 430 G7 that are ENERGY STAR® certified² are identified as HP ProBook 430 G7 ENERGY STAR on HP websites and on http://www.energystar.gov.

41. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit http://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.

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 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 Ratio 600:1 (typ.)
Refresh Rate 60 Hz

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

Backlight LED Format of LCD Pixel Arrangement RGB

Color Gamut Coverage 45% of NTSC

Color Depth 6 bits

Viewing Angle UWVA 85/85/85

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 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 Yes

Contrast Ratio 600:1 (typ.)
Refresh Rate 60 Hz

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

Backlight LED Format of LCD Pixel Arrangement RGB



Technical Specifications

Color Gamut Coverage 45% of NTSC

Color Depth 6 bits

Viewing Angle UWVA 85/85/85

Panel LCD 13.3 inch diagonal HD (1366 x 768) Anti-Glare WLED SVA 45% NTSC 220 nits eDP slim NB non-touch 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 <260 max.

Diagonal Size 13.3 (inch)

Thickness 3.0 mm max.

Interface eDP 1.2 (2 lanes)

Surface Treatment Anti-glare

Touch Enabled No

Contrast Ratio 300:1 (typ)
Refresh Rate 60 Hz

Brightness 220 nits typical (Panel Only)

Pixel Resolution 1366 x 768 (HD)

Backlight LED Format of LCD Pixel Arrangement RGB

Color Gamut Coverage 45% of NTSC

Color Depth 6 bits (Hi FRC @ system GFX output 8bits)

Viewing Angle SVA 45/45/15/30

Panel LCD 13.3 inch diagonal HD (1366 x 768) Anti-Glare WLED SVA 45% NTSC 220 nits eDP slim NB non-touch 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 <260 max.

Diagonal Size 13.3 (inch)

Thickness 3.0 mm max.

Interface eDP 1.2 (2 lanes)

Surface Treatment Anti-glare

Touch Enabled Yes

Contrast Ratio 300:1 (typ)
Refresh Rate 60 Hz

Brightness 220 nits typical (Panel Only)

Pixel Resolution 1366 x 768 (HD)

Backlight LED Format of LCD Pixel Arrangement RGB

Color Gamut Coverage 45% of NTSC

Color Depth 6 bits (Hi FRC @ system GFX output 8bits)

Viewing Angle SVA 45/45/15/30

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

 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



Technical Specifications

Thickness 3.0 mm (max)

Interface eDP 1.4 + PSR2 (4 lane)

Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio2000:1 (typ.)Refresh Rate60 HzBrightness*1000 nits

Pixel Resolution 1920 x 1080 (FHD)

Backlight LED Format of LCD Pixel Arrangement RGB

Color Gamut Coverage 72% of NTSC

Color Depth 8 bit

Viewing Angle UWVA 85/85/85

Transfer Rate

STORAGE AND DRIVES

500 GB 7200 rpm SATA Hard Drive **Drive Weight** 0.20 lbs (92 g) ~ 0.21 lbs (95 g)

Rotation speed7200 rpmCache BufferUp to 32 MBHeight0.28 in (7 mm)Width2.75 in (69.85 mm)InterfaceATA-8, SATA 3.0

Seek Time Single Track 2 ~ 1.5 ms; Average 11 ~ 13 ms;

Maximum 18 ~ 22 ms

Logical Blocks 976,773,168

Operating Temperature 32° to 140° F (0° to 60° C) [top cover temp]

600 MB/s

Security Features ATA Security

Features S.M.A.R.T., NCQ, Ultra DMA

1 TB 5400 rpm SATA Hard Drive Drive Weight0.21 lbs (94 g)Rotation speed5400 rpmCache BufferUp to 32 MBHeight0.28 in (7.2 mm)Width2.75 in (69.85 mm)InterfaceATA-8, SATA 3.0Transfer Rate600 MB/s

Transfer Rate 600 MB/s
Seek Time Single Track 2 ms

Average 12 ~ 13 ms Maximum 18 ~ 22 ms

Logical Blocks 1,953,525,168



^{*}Touch-enabled display and Sure View privacy panel will lower actual brightness

Technical Specifications

Operating Temperature 32° to 140° F (0° to 60° C) [top cover temp]

Security Features ATA Security

Features S.M.A.R.T., NCQ, Ultra DMA

SSD 128 GB 2280 M2 SATA-3 TLC 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 ATA-8, SATA 3.0
Maximum Sequential Read Up To 520 MB/s
Maximum Sequential Write Up To 450 MB/s
Logical Blocks 250,069,680

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

Features DIPM; TRIM; DEVSLP

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

Height0.09 in (2.3 mm)Width0.87 in (22 mm)InterfacePCIe NVMe Gen3Maximum Sequential ReadUp To 1700 MB/sMaximum Sequential WriteUp to 1300 MB/sLogical Blocks500,118,192

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

Features TRIM; L1.2

512 GB 2280 M2 PCIe NVMe Form Factor TLC Solid State Drive

Form Factor M.2 2280
Capacity 512 GB
NAND Type TLC

Height 0.09 in (2.3 mm)
Width 0.87 in (22 mm)
Interface PCIe NVMe Gen3X4
Maximum Sequential Read Up To 2600 MB/s
Maximum Sequential Write Up To 1400 MB/s
Logical Blocks 1,000,215,216



Not all configuration components are available in all regions/countries. c06424515 — DA 16517 - Worldwide — Version 4 — February 12, 2020

Technical Specifications

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

Features TRIM; L1.2

512 GB 2280 PCIe NVMe Value Solid State Drive Form Factor M.2 2280
Capacity 512 GB
NAND Type Value

Height0.09 in (2.3 mm)Width0.87 in (22 mm)InterfacePCIe NVMe Gen3X4Maximum Sequential ReadUp To 1500 ~ 1700 MB/s

Logical Blocks 1,000,215,216

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

Features ATA Security, TRIM; L1.2

NETWORKING/COMMUNICATIONS

Realtek RTL8822CE 802.11ac (2 x 2) Wi-Fi® and Bluetooth® 5 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

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

5.25 – 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 and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only

•AES-CCMP: 128 bit in hardware



Technical Specifications

•802.1x authentication

•WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.

•WPA2 certification
•IEEE 802.11i

•WAPI

Network Architecture Ad-h

Models

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

• 802.11b: +18.5dBm minimum

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 VH180(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 compliant power management

802.11 compliant power saving mode

Receiver Sensitivity⁴ 802.11b, 1Mbps: -93.5dBm maximum 802.11b, 11Mbps: -84dBm maximum

802.11b, 11Mbps: -84dBm maximum 802.11a/g, 6Mbps: -86dBm maximum 802.11a/g, 54Mbps: -72dBm maximum 802.11n, MCS07: -67dBm maximum 802.11n, MCS15: -64dBm maximum 802.11ac, MCS0: -84dBm maximum 802.11ac, MCS9: -59dBm maximum

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

enclosure

Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications

Form Factor PCI-Express M.2 MiniCard 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 3.3v +/- 9%

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

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

Humidity Operating 10% to 90% (non-condensing)

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 White – Radio ON



Technical Specifications

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

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 is required. Availability of public wireless access point is limited. The specifications for the 802.11ac 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 802.11ac WLAN devices
- 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).



Technical Specifications

Intel® 9560 802.11a/b/g/n/ac (2 x 2) Wi-Fi® 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 802.11h 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
	Security ³	 IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only AES-CCMP: 128 bit in hardware 802.1x authentication WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. WPA2 certification 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
	Output Power ²	 802.11b: +18.5dBm minimum 802.11g: +17.5dBm minimum 802.11a: +18.5dBm 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)



Technical Specifications

Connected Standby/Modern Standby: 10mW

Radio disabled: 8 mW

Power Management ACPI 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 802.11ac, MCS9: -59dBm maximum

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

enclosure

Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications

Form Factor PCI-Express M.2 MiniCard 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 3.3v +/- 9%

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

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

Humidity Operating 10% to 90% (non-condensing)

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 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

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Bluetooth Software Supported

Microsoft Windows Bluetooth Software



Technical Specifications

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

Power Management ETS 300 328, ETS 300 826
Certifications Low Voltage Directive IEC950

UL, CSA, and CE Mark

Bluetooth Profiles BT4.1-ESR 5/6/7 Compliance

SupportedLE Link Layer Ping
LE Dual Mode

LE Link Layer LE Low Duty Cycle Directed Advertising

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 is required. Availability of public wireless access point is limited. The specifications for the 802.11ac 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 802.11ac WLAN devices
- 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).

Intel® Wi-Fi 6 AX201 and Wireless LAN Standards Bluetooth® 5 (802.11ax 2 x 2, non-vPro, supporting gigabit file transfer speeds) non-vPro

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

2.402 – 2.482 GHz • 802.11a/n/ac/ax 4.9 – 4.95 GHz (Japan)

5.15 - 5.25 GHz



Technical Specifications

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 &

• 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 and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only

• AES-CCMP: 128 bit in hardware

• 802.1x authentication

• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.

 WPA2 certification • IEEE 802.11i WAPI

Network Architecture Ad-hoc (Peer to Peer)

Models Roaming Infrastructure (Access Point Required)

Output Power²

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

ACPI compliant power management **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/q, 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



Technical Specifications

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 g

2. Type 126: 1.3 g

Operating Voltage 3.3v +/- 9%

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

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

Humidity Operating 10% to 90% (non-condensing)

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

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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

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

LE Link Layer Ping

LE Dual Mode LE Link Layer

LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels



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. 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 160 MHz channels.
- 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).

Intel® XMM™ 7360 LTE-Advanced CAT9¹

Technology/Operating bands

FDD LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3),

1700/2100 (Band 4), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 1400 (Band 11), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 17 lower), 850 (Band 18 lower), 850 (Band 19 upper), 800 (Band 20), 1400 (Band 21), 850

(Band 26), 700 (Band 28), 700 (Band 29 RX only), 2300 (Band 30).

1700/2100 (Band 66).

TDD LTE: 2600 (Band 38), 1900 (Band 39), 2400 (Band 40), 2500 (Band 41).

HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4),

850 (Band 5), 900 (Band 8) MHz

Wireless protocol

standards

3GPP Release 11 LTE Specification CAT.9, DL 60MHz BW throughput up to

450Mbps; UL 20MHz throughput up to 50Mbps

WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification

GPS Standalone, A-GPS (MS-A, MS-B)

GPS bands 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou 1561.098 MHz

Maximum data rates LTE: 450 Mbps (Download), 50 Mbps (Upload)

DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21 Mbps (Download), 5.76 Mbps (Upload)

Maximum output power LTE: 23 dBm

HSPA+: 23.5 dBm

Maximum power consumption

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

Form Factor M.2, 3042-S3 Key B

Weight 5.8 q

Dimensions 42 x

(Length x Width x Thickness)

42 x 30 x 2.3 mm



Technical Specifications

1. WWAN module is optional, must be configured at the factory and requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.

POWER

HP 45 W Smart AC Adapter **Dimensions (H x W x D)** 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 115 V and 88.4% at 230 V

Input frequency range 47 to 63 Hz
Input AC current 1.4 A at 90 V

Output Output power 45W

DC output 19.5V

Hold-up time 5 msec at 115 V input

Output current limit <8.0A

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

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 Certifications

Weight

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 65 W Smart AC Adapter **Dimensions** 90 x 51 x 28.5 mm

Not including power cord. Power cord varies by country.

220 g +/- 10 g

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

Input frequency range 47 to 63 Hz
Input AC current 1.7 A at 90 VAC

Output Output power 65 W

DC output 19.5 V

Hold-up time 5 ms at 115 VAC input

Output current limit <11.0 A



Technical Specifications

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

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)

Humidity20% to 95%Storage Humidity10% to 95%

EMI and SafetyCE Mark - full compliance with LVD and EMC directives* Worldwide safety
Standards - IEC60950. EN60950. UL60950. Class 1. SELV: Agency

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 65 W EM Smart AC adapter

Dimensions 102 x 55 x 30 mm

Weight 270 g +/- 10 g

Not including power cord. Power cord varies by country.

Input Efficiency 87% min at 115 V/230 V

Input frequency range 47 to 63 Hz

Input AC current 1.7 A at 90 V and maximum load

DC output 65 W (19.5 V/3.33 A)

Hold-up time 5 msec at 115 VAC input

Output current limit <11A, Over voltage protection- 29 V max

automatic shutdown

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

Environmental Design Operating 0° to 35° C

temperature

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

temperature

Altitude 0 to 5,000 m
Humidity 0% to 95%
Storage Humidity 0% to 95%

EMI and Safety Certifications CE Mark - 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; Reliability - failure rate of less than 0.1% annually within the first

three years of operation.

AC Adapter 65 Watt nPFC Dimensions
USB type C

Dimensions 74 x 74 x 28.5 mm **Weight** 245 g +/- 10 g

Not including power cord. Power cord varies by country.

Input Efficiency 81.5% min at 115 Vac/ 230Vac @ 5V/3A

let all configuration components are available in all regions /countries



Technical Specifications

86.7% min at 115 Vac/ 230Vac @ 9V/3A 88% min at 115 Vac/ 230Vac @ 10V/5A 88% min at 115 Vac/ 230Vac @ 12V/5A 89% min at 115 Vac/ 230Vac @ 15V/4.33A 89% min at 115 Vac/ 230Vac @ 20V/3.25A

47 ~ 63 Hz Input frequency range

Input AC current 1.7 A at 90 VAC and maximum load

65 W **Output power**

DC output 5V/9V/10V/12V/15V/20V

Hold-up time 5ms at 115 Vac input

Output current limit <8.0A

Connector Type C

Environmental Design Operating 32°Fto 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 5% to 95% 5% to 95% **Storage Humidity**

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.

AC Adapter 45 Watt nPFC Dimensions **USB** type C

Weight

62.0 x 62.0 x 28.5 mm

220 q +/- 10 q

Not including power cord. Power cord varies by country.

Input Efficiency Average Efficiency of 25%, 50%, 75%, 100%

> load condition with 115Vac/230Vac Spec:5V: 81.5%9V:86.7%10V:87.5%12V:87.8%15V:

87.8%20V:87.8%

Input frequency range 47 ~ 63Hz

Input AC current Max. 1.4 A at 90 Vac

Output power 5V/15W

9V/27W 10V/37.5W 12V/45W 15V/45W 20V/45W

DC output 5V / 9V / 10V /12V / 15V / 20V

Hold-up time 5ms at 115 Vac input

Output current limit <5.0A

Connector Type C



Technical Specifications

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

temperature

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

temperature

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

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

EMI and SafetyCE Mark - full compliance with LVD and EMC directives* Worldwide safety standards - IEC60950. EN60950. UL60950. Class1. SELV: Agency

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.

3 Cell WHr 45 Long Life -Polymer HP Fast Charge Technology¹ **Dimensions** 6.0. x 184.7 x 88.9 mm

Weight 0.22 kg (0.48 lb)
Cells/Type 3cell Lithium-Ion

Voltage 11.55 V
Amp-hour capacity 3.900 Ah
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)

Optional Travel Battery No

Available

1. Recharges the battery up to 50% within 30 minutes when the system is off or in standby mode when used with the power adapter provided with the notebook. After charging has reached 50% capacity, charging speed will return to normal. Charging time may vary +/-10% due to System tolerance.

FINGERPRINT READER

Model Synaptics Validity VFS7604 touch sensor

Mobile Voltage Operation 3.0V to 3.6V Operating Temperature 0~60°C Current Consumption Image 100mA Max Low Latency Wait for Finger 260 uA

ESD Resistance IEC 61000-4-2 4B (+/-15KV)

Detection Matrix 363 dpi / 7.4 x 6 mm sensor area

FRR (False Reject Rate) / FAR FRR < 1% @ 1:50K FAR

(False Acceptance Rate)



HP ProBook 430 G7 Notebook PC

QuickSpecs

Technical Specifications

Country of Origin

China



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

Туре	Description	Part Number
Cases	HP Essential Top Load Case	H2W17AA
	HP Essential Backpack (up to 15.6")	H1D24AA
	HP Essential Messenger Case (up to 17.3")	H1D25AA
Docking	HP USB-C Mini Dock	1PM64AA
	HP USB-C Universal Dock	1MK33AA
	HP USB-C Dock G4	3FF69AA
	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	5TW13AA
	HP USB-C Dock G5	5TW10AA
	HP E223d Docking Monitor	5VT82A8/5VT82AA
	HP E243d Docking Monitor	1TJ76AA
	HP E273d Docking Monitor	5WN63A8 5WN63AA
	HP EliteDisplay E244d Monitor	6PA50A8/6PA50AA
	HP EliteDisplay E274d Monitor	6PA56A8/6PA56AA
Input/Output	HP USB Essential Keyboard and Mouse	H6L29AA
	HP Ultra Mobile Wireless Mouse	H6F25AA
	HP Comfort Grip Wireless Mouse	H2L63AA
	HP 3-Button USB Laser Mouse	H4B81AA
	HP USB Travel Mouse	G1K28AA
	HP HDMI to DVI Adapter	F5A28AA
	HP Elite USB-C Hub	4WX89AA
	HP USB-C Travel Hub	Z9G82AA
Memory	4GB 2666MHz DDR4	4VN05AA
	8GB 2666MHz DDR4	4VN06AA
	16GB 2666MHz DDR4	4VN07AA
Power	HP 45W Smart AC Adapter 4.5mm	H6Y88AA
	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 65W USB-C Power Adapter	1HE08AA
	HP 45W USB-C Power Adapter	1HE07AA



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

	HP Power Bank	N9F71AA#xxx
	HP USB-C Power Bank	2NA10AA#xxx
Storage	HP External USB Optical Drive	F2B56AA
	HP 128 GB M.2 SATA-3	2JB95AA
	1TB 7200rpm 9.5mm SATA HDD	L3M56AA
	HP 500GB 7200rpm HDD	F3B97AA
	HP 256GB TLC PCI-e 3x4 NVMe SSD (2280)	1FU87AA
	HP 512GB TLC PCI-e 3x4 NVMe SSD (2280)	1FU88AA
Security	HP Combination Lock	TOY15AA
	HP Essential Keyed Cable lock 12.3mm	TOY14AA
	HP Keyed Cable Lock 10mm	T1A62AA
ucc	HP Conferencing Keyboard	K8P74AA
	HP UC Speaker Phone	4VW02AA
	HP Wired Headset	K7V17AA



Summary of Changes

Date of change:	Version History:		Description of change:
October 30, 2019	V1 to V2	Updated	Battery Life
November 5, 2019	V2 to V3	Updated	UHD Graphics and added Environmental tab
February 12, 2020	V3 to V4	Added	HP Sure Sense

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