



HP OmniBook 5 Laptop Next Gen AI 16-fb0435nr (C81M8UA)



Overview

AI-driven performance and up to 34 hours[1] of battery life

The HP OmniBook 5 16" AI PC is built for advanced performance and seamless portability, with an ultra-thin profile and HP AI Companion[2] to act as your on-device personal assistant and streamline your workflow. Leave your charger behind with up to 34 hours[1] of battery life and charge up to 50% in just 30 minutes with HP Fast Charge[3].



Up to 34 hours [1] of battery life

AI-driven performance and a battery life of up to 34 hours[1] offers power and reliability anytime, anywhere.



An expansive audio-visual experience

Enjoy rich colors on a 2K OLED[5] display, powerful sound with HP Audio Boost, and a 1080p FHD IR camera[6].



Advanced performance with an ultra-thin profile

More speed and efficiency powered by Snapdragon® X Series Processors[4] and a dedicated AI engine.



Built for a better tomorrow

Made from recycled metals[7], ocean-bound plastics[8] and is EPEAT® Gold with Climate+[9] certified.

Features



Get a fresh perspective

From a rejuvenated Start menu, to new ways to connect to your favorite people, news, games, and content—Windows 11 is the place to think, express, and create in a natural way.^[10]



Qualcomm® Adreno™ GPU

Experience high performance graphics and rich user experiences while optimizing power consumption. Elevate your mobile UI, games and advanced graphics applications with fast responsiveness and superior mobile connectivity.^[11]



16:10 aspect ratio

A 16:10 aspect ratio lets you see more of your content with less scrolling.



Snapdragon® X Plus 8-core processor

Get into your rhythm with the fast and intelligent Snapdragon® X Plus 8 core processor. Achieve more everyday with responsive performance for seamless multitasking. AI tools enhance productivity and connectivity while enjoying long battery life.^[4]



DCI-P3 color space

Get deeper hues and more accurate colors with a wider color gamut than sRGB. DCI-P3 95% closely represents colors on displays as they are in the real world.^[12]

OLED display

With display technology that lights each pixel separately, you'll get deeper blacks for richer contrast, enhanced color depth, and more power efficiency than traditional LED screens.

[1] Up to 34 hours local video playback requires unit configured with Qualcomm Snapdragon X1-26-100, 16GB RAM, 2K OLED non-touch display, 512 GB PCIe SSD storage. Available on select display configurations. Battery life tested by HP using continuous FHD video playback, 2K OLED non-touch display, 200 nits for the 16" model, system audio level as image default, player audio level at 100%, played full-screen from local storage, headphone attached or through speaker (if no audio jack port), wireless on but not connected. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage. Starting in July 2025, the 14" inch model (configured with Qualcomm Snapdragon X1-26-100, 16GB RAM, 2K OLED non-touch display, 512 GB PCIe SSD storage) may be able to achieve up to 34 hours of local video playback at 200 nits as a result of power consumption improvements to its panel.

[2] HP AI Companion is available preloaded on select HP next gen AI PCs or is available for download from the Microsoft store and requires a HP next gen AI PC with a NPU supporting 40-60 TOPS, with 16GB or more of storage, and requires Windows 11. Perform requires account set up within 30 days of PC boot or enrollment through the HP AI Companion app. Some features require customer upload of local data. Ten (10) library 100MB limit each, supported files may vary and at launch include pdf, .txt., .docx files.

[3] Recharges your battery up to 50% within 30 minutes when the system is off using "shut down" command, using HP adapter provided with the notebook or recommended power adapter disclosed in specifications (see <http://store.hp.com>). After charging has reached 50% capacity, charging speed will return to normal speed. Charging time may vary +/-10% due to System tolerance. Available on select HP products.

[4] Multi-core 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. Qualcomm's numbering is not a measurement of clock speed. Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third-party software may have specific configuration or compatibility requirements. Potential NPU inferencing performance varies by use, configuration, software and other factors.

[5] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. Display measured diagonally.

[6] Camera resolution refers to the image sensor active pixels. The actual image capture pixels and aspect ratio depend on the app selected.

[7] Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.

[8] Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT standard for computers, IEEE 1680.1-2018 standard.

[9] See www.epeat.net for registration status and tier levels by country.

[10] Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.

[11] Multi-core 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. Qualcomm's numbering is not a measurement of clock speed. 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 10S is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.microsoft.com>. Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

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

Specifications

Operating system	Windows 11 Home
Product color	Glacier silver
Processor family	Snapdragon® X Plus processor
Processor	Snapdragon® X Plus X1P-42-100 (up to 3.4 GHz, 8 cores) ^[6,7]
Chipset	Qualcomm® integrated SoC
Memory	16 GB LPDDR5x-8448 MT/s (onboard)
Internal Storage	512 GB PCIe® M.2 SSD
Product design	Sandblasted anodized cover and base, paint finish keyboard frame
Graphics	Integrated
Graphics (integrated)	Qualcomm® Adreno™ GPU
Display	16" diagonal, 2K (1920 x 1200), OLED, multitouch-enabled, 0.2 ms response time, UWVA, edge-to-edge glass, micro-edge, Low Blue Light, 300 nits, 95% DCI-P3
Display size (diagonal)	40.6 cm (16")
Display size (diagonal)	16"
Audio	Dual speakers; HP Audio Boost
Dimensions (W x D x H)	35.5 x 24.4 x 1.32 cm
Dimensions (W x D x H)	13.98 x 9.65 x 0.52 in
Weight	1.59 kg
Weight	3.52 lb
Keyboard	Full-size, soft gray keyboard
Pointing device	HP Imagepad
Camera	HP True Vision 1080p FHD IR camera with temporal noise reduction and integrated dual array digital microphones
Ports	1 USB Type-A 10Gbps signaling rate; 1 headphone/microphone combo; 2 USB Type-C® 10Gbps signaling rate (USB Power Delivery 3.0, DisplayPort™ 1.4a, HP Sleep and Charge) ^[19]
Package dimensions (W x D x H)	6.3 x 50.4 x 30.5 cm
Package weight	2.49 kg
Wireless	Qualcomm® FastConnect™ 6900 Wi-Fi 6E (2x2) Dual Band Simultaneous (DBS) and Bluetooth® 5.3 wireless card
Power supply type	65 W USB Type-C® power adapter
Battery type	3-cell, 59 Wh Li-ion polymer (<i>[23]</i>)
Battery recharge time	Supports battery fast charge: approximately 50% in 30 minutes ^[5]
Energy star certified	ENERGY STAR® certified

Sustainable impact specifications

Ocean-bound plastic in speaker enclosure(s) and bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic; Recycled metal in cover, base and keyboard bracket

Security management	Mic mute key; Camera privacy shutter; Trusted Platform Module (Firmware TPM) support
Software included	McAfee Online Protection 30-day trial
Software - Productivity & finance	1 month trial for new Microsoft 365 customers ^[24]
Cloud service	100 GB Dropbox storage for 3 months ^[1]
UPC number	199642261112

Additional specifications

Additional information about HP	http://www.hp.com
Aspect ratio	16:10
Battery capacity	59
Battery capacity uom	Wh
Battery cells number	3
Battery life video playback	Up to 34 hours
Battery type	Li-ion polymer
Bluetooth version	Bluetooth® 5.3
Brightness	300 nits
Camera Infrared	IR
Camera brand	HP True Vision
Camera microphone	integrated dual array digital microphones
Camera resolution (vertical)	1080p
Camera resolution standard	FHD
Color	Glacier silver
Color gamut	95% DCI-P3
Display	16" diagonal 2K OLED touch display
Display backlight	OLED
Display bezel	Micro-edge
Display brightness	300
Display brightness uom	nits
Display design	Edge-to-edge glass
Display panel technology	UWVA
Display resolution (pixels)	1920 x 1200
Display resolution standard	2K
Display response time	0.2
Display response time uom	ms
Display size (diagonal) uom	"
Display size (diagonal, imperial)	16
Display size (diagonal, metric)	40.6
Display size (diagonal, metric) uom	cm
Display surface treatment	Anti-glare
Display touchscreen type	Touch screen

ECC memory	non-ECC
Ecolabels	EPEAT® Gold with Climate+
Headphone/microphone combo	1
Keyboard color	Soft gray
Keyboard size	Full-size
Memory and storage	16 GB memory;512 GB SSD storage
Memory layout (slots & size)	onboard
Memory size	16
Memory size uom	GB
Memory speed	8448
Memory speed uom	MT/s
Memory type	LPDDR5x
Neural Processing Unit	Qualcomm® Hexagon™ NPU (45 NPU TOPS)
Package dimensions (W x D x H)	2.48 x 19.84 x 12 in
Package weight	5.5 lb
Playbook TS icon 1	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png
Playbook TS icon 2	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08250394.png
Playbook TS icon 3	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169181.png
Playbook TS icon 4	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169202.png
Playbook TS icon 5	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08205649.png
Playbook TS icon 6	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05205157.png
Playbook TS icon OS	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.png
Playbook TS icon battery life	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png
Playbook TS icon connectivity	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.png
Playbook TS icon dimensions NB	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08250394.png
Playbook TS icon display NB	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08205649.png
Playbook TS icon graphics	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169202.png
Playbook TS icon memory	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267700.png
Playbook TS icon processor	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201972.png
Playbook TS icon storage	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192819.png
Playbook TS icon weight imperial	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05790117.png
Playbook TS icon weight metric	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267650.png
Processor Brand	Qualcomm®
Processor NPU Tops	45
Processor cache	30 MB L3

Processor core	8
Processor family	Snapdragon® X Plus
Processor maximum frequency	3.4
Processor maximum frequency uom	GHz
Processor model	X1P-42-100
Processor threads	8
Product brand name	HP
Product long name specifications	HP OmniBook 5 Laptop Next Gen AI 16-fb0435nr 16", Touch screen, Windows 11 Home, Windows Laptop, Qualcomm® Snapdragon® X Plus, 16GB RAM, 512GB SSD, 2K, Glacier silver
Product long name specifications V2	HP OmniBook 5 Laptop Next Gen AI 16, Windows 11 Home, 16", Touch screen, Qualcomm® Snapdragon® X Plus, 16GB RAM, 512GB SSD, 2K, Glacier silver
Product short name specifications	HP OmniBook 5 Laptop Next Gen AI 16-fb0435nr, 16", Qualcomm® Snapdragon® X Plus, 16GB RAM, 512GB SSD
Screen-to-body ratio (without speakers)	91.42% ^[18]
Storage capacity	512
Storage capacity uom 01	GB
Storage form factor 01	M.2
Storage interface 01	PCIe®
Storage interface protocol 01	NVMe™
Storage type	SSD
Storage type 01	SSD
Technology logo 1	Publication logos/Flicker-free.png
Technology logo 2	Publication logos/Fast_Charge_RGB_black
Technology logo 3	Publication logos/Epeat Gold Logo_PNG.png
Technology logo 4	Publication logos/Energy_Star_PNG.png
Technology logo 6	Publication logos/McAfee-TM-logo-red-rgb.png
Touchscreen	Yes
UNSPSC code	43211503
USB Type-A	1
USB Type-C	2
Wireless Model	FastConnect™ 6900
Wireless antenna	2x2
Wireless standard	Wi-Fi 6E
Wireless supplier	Qualcomm®

[1] 100 GB of free Dropbox storage for 3 months from date of registration. For complete details and terms of use, including cancellation policies, visit the Dropbox website at <https://www.dropbox.com/help/space/hp-promotion>. Internet service required and not included.

[5] Recharges your battery up to 50% within 30 minutes when the system is off using "shut down" command, using HP adapter provided with the notebook or recommended power adapter disclosed in specifications (see <http://store.hp.com>). After charging has reached 50% capacity, charging speed will return to normal speed. Charging time may vary +/-10% due to System tolerance. Available on select HP products.

[6] Multi-core 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. Qualcomm's numbering is not a measurement of clock speed.

[7] Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third-party software may have specific configuration or compatibility requirements. Potential NPU inferencing performance varies by use, configuration, software and other factors.

[18] Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk.

[19] For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device.

[24] Must activate within 180 days of Windows activation.

Services

HP Care Pack Services

★ : Recommended

Personal Systems Consumer Care Pack Services

HP 1 Year Post Warranty Pickup and Return for Pavilion, Victus or OmniBook 5 Notebook	U4820PE
HP 2 Year Pickup and Return for Pavilion, Victus or OmniBook 5 Notebook	UG8Q3E
HP 2 Year Pickup and Return w/Accidental Damage Protection Pavilion, Victus, OmniBook 5 Notebook	UG8Q4E
HP 3 Year Pickup and Return for Pavilion, Victus or OmniBook 5 Notebook (RiskFree)	UG8Q5E
HP 3 Year Pickup and Return w/Accidental Damage Protection Pavilion, Victus, OmniBook 5 NB(RiskFree)	UG8Q6E
HP 3 Year PickupReturn w/AccidentalDamageProtection + Theft Protection Pavilion,Victus,OmniBook 5 NB	U7C97E
HP 3 month SmartFriend Service	UC5Y4E

Personal Systems Consumer Subscription Care Pack Services

HP 1 year SmartFriend Service	UL054E
HP 6 month SmartFriend Service	UC5Y5E

Accessories for PC

Mice/Pens/Other Pointing Devices

★ : Recommended

Mouse Pads

HP 100 Sanitizable Mouse Pad	8X594AA
HP 105 Sanitizable Mouse Pad	8X595AA
HP 200 Sanitizable Desk Mat	8X596AA
HP 205 Sanitizable Desk Mat	8X597AA

Wired Mice

HP 125 Wired Mouse	265A9UT
HP 125 Wired Mouse (Bulk120)	265A9A6
HP 128 LSR WRD Mouse (Bulk120)	265D9A6
HP 128 Laser Wired Mouse	265D9AA
HP 320M Wired Mouse (Bulk 120)	9VA80A6
HP Wired Desktop 320M Mouse	9VA80AA
HP Wired Mouse 100	6VY96AA
HP Wired Mouse 105	822M9AA
HP Wired Mouse 105	822M9UT
HP X500 Wired Mouse	E5E76AA
USB Travel Mouse	G1K28AA

Wireless Mice

HP 220 Wireless Mouse	3FV66AA
HP 235 Slim Wireless Mouse	4E407UT
HP 240 Black Bluetooth Mouse	3V0G9AA
HP 240 Empire Red Bluetooth Mouse	43N05AA
HP 240 Pike Silver Bluetooth Mouse	43N04AA
HP 245 Bluetooth Mouse	81S67AA
HP 250 Dual Mouse	6V2J7AA
HP 255 Dual Wireless Mouse	8R3U1AA
HP 255 Dual Wireless Mouse	8R3U1UT
HP 280 Silent Wireless Mouse	19U64AA
HP 285 Silent Wireless Mouse	6G4E6AA
HP 410 Slim Silver Bluetooth Mouse	4MOX5AA

HP 420 Programmable Bluetooth Mouse	7M1D3AA	
HP 425 Programmable Bluetooth Mouse	7M1D5AA	
HP 430 Multi-Device Wireless Mouse	3B4Q2AA	
HP 435 Multi-Device Wireless Mouse	3B4Q5UT	
HP 480 Comfort Bluetooth Mouse	8T6M3AA	
HP 510 Ultra-Fast Rechargeable Wireless Mouse	9C2F6AA	
HP 515 Ultra-Fast Rechargeable Wireless Mouse	9C2F7AA	
HP 685 Comfort Dual-Mode Mouse	8T6M0UT	
HP 690 Rechargeable Wireless Mouse	7M1D4AA	
HP 710 Rechargeable Silent Mouse	6E6F1AA	
HP 710 Rechargeable Silent Mouse	6E6F2AA	
HP 715 Rechargeable Multi-Device Mouse	6E6F0AA	
HP 920 Ergonomic Wireless Mouse	6H1A4AA	
HP 925 Ergonomic Vertical Mouse	6H1A5AA	
HP 930 Creator Wireless Mouse	1D0K9AA	
HP 935 Creator Wireless Mouse	1D0K8AA	obsolete
HP Wireless Mouse 200	2HU84AA	
HP Wireless Mouse 200	X6W31AA	
HP Wireless Mouse Z3700	4VY82AA	
HP Wireless Mouse Z3700	7UH88AA	
HP X3000 G2 Wireless Mouse	28Y30AA	
HP Z3700 Black Wireless Mouse	26V63AA	
HP Z3700 Dual Black Mouse	758A8AA	
HP Z3700 Dual Silver Mouse	758A9AA	
HP Z3700 TUP G2 Wireless Mouse	681R9AA	
HP Z3700 Wireless Mouse G2 Black Onyx	681R7AA	
HP Z3700 Wireless Mouse G2 Ceramic White	681S1AA	
HP Z3700 Wireless Mouse G2 Dragonfly Blue	681S0AA	

Keyboards/Other Input Devices

Wired Keyboards

HP 125 Wired Keyboard	266C9AA	
HP 400 Backlit Wired Keyboard	7N7C0AA	
HP 405 Multi-Device Backlit Wired Keyboard	7N7C1AA	
HP 480 Comfort Wired Keyboard	8T6M1AA	

HP 485 Comfort Wired Keyboard	8T6M2AA	
HP Wired Desktop 320K Keyboard	9SR37UT	
HP Wired Desktop 320K Keyboard (Bulk12)	9SR37A6	obsolete

Wired Combo

HP 150 Wired Mouse and Keyboard	240J7AA	
HP Pavilion Keyboard and Mouse 200	9DF28AA	
HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA	
HP Wired Desktop 320MK Mouse and Keyboard	9SR36UT	

Wireless Keyboards

HP 220 Wireless Keyboard	805T2AA	
HP 225 Wireless Keyboard	805T1AA	
HP 230 Wireless Keyboard	3L1E7AA	
HP 350 Compact Multi-Device Bluetooth Keyboard	692S8AA	
HP 350 Compact Multi-Device Bluetooth Keyboard	692T0AA	
HP 430 Programmable Wireless Keypad	7N7C2AA	
HP 435 Programmable Wireless Keypad	7N7C3AA	
HP 450 Programmable Wireless Keyboard	4R184AA	
HP 455 Programmable Wireless Keyboard	4R177A6	
HP 455 Programmable Wireless Keyboard	4R177AA	
HP 460 Multi-Device Bluetooth Keyboard	7N7B8AA	
HP 475 Dual-Mode Wireless Keyboard	7N7B9AA	
HP 475 Dual-Mode Wireless Keyboard	7N7B9UT	
HP 680 Comfort Dual-Mode Keyboard	8T6L8AA	
HP 720 Multi-Device Rechargeable Wireless Keyboard	9T5B1AA	
HP 725 Multi-Device Rechargeable Wireless Keyboard	9T5B2AA	
HP 960 Ergonomic Wireless Keyboard	7E755AA	
HP 965 Ergonomic Wireless Keyboard	7E756AA	
HP 970 Programmable Wireless Keyboard	3Z729AA	
HP 975 Dual-Mode Wireless Keyboard	3Z726AA	

Wireless Combo

HP 230 Wireless Mouse and Keyboard Combo	18H24AA	
HP 230 Wireless Mouse and Keyboard Combo	3L1F0AA	
HP 235 Wireless Mouse and Keyboard Combo	1Y4D0UT	

HP 330 Wireless Mouse and Keyboard Combination	2V9E6AA
HP 650 Wireless Keyboard and Mouse Combo	4R013AA
HP 655 Wireless Keyboard and Mouse Combo	4R009AA
HP 655 Wireless Keyboard and Mouse Combo (Bulk 10)	4R009A6
HP 680 Comfort Dual-Mode Keyboard and Mouse Combo	8T6L6AA
HP 685 Comfort Dual-Mode Keyboard and Mouse Combo	8T6L7UT
HP 720 Multi-Device Rechargeable Wireless Keyboard and Mouse Combo	9T5A9AA
HP 725 Multi-Device Rechargeable Wireless Keyboard and Mouse Combo	9T5B0UT
HP Wireless Keyboard and Mouse 300	3ML04AA

Port Replicators/Dongles/Docking

Cables/Cable Adapters/Dongles

HP 240W Thunderbolt 4 Cable	BR1V3AA
HP 240W Thunderbolt 4 Cable	BR1W8AA

Bags

Sleeves

HP Protective 15-16-inch Laptop Sleeve	C3TR6AA
HP Protective 15-16-inch Laptop Sleeve	C3TR7AA
HP Protective 15-16-inch Laptop Sleeve	C3TR8AA
HP Protective 15-16-inch Laptop Sleeve	C3TR9AA
HP Protective 15-16-inch Laptop Sleeve	C3TS0AA
HP Protective 15-16-inch Laptop Sleeve	C40BPUT
HP Protective 15-16-inch Laptop Sleeve	C40BQUT

Monitors

HP Home Monitors

★ : Recommended

Series 3

HP Series 3 27 inch FHD Monitor - 327se	B7HS7AA
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HyperX Gaming Peripherals

HyperX Microphones

★ : Recommended

HyperX USB/XLR Microphones

HyperX FlipCast - USB/XLR Dynamic Microphone (Black)	B2CM1AA
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