



HP OmniBook Ultra Laptop Next Gen AI 14-kg0017QU (D78GMPA)



Overview

Ultra-thin, durable[2] performance designed for the AI era.

The HP OmniBook Ultra redefines productivity and creativity in an ultra-sleek and strong aluminum chassis. Military-grade durability[2] meets your everyday hustle. Powered by premium-tier Snapdragon X2 processors[6] and built with a vivid OLED[4] touchscreen[3], a compact vapor chamber, and up to 44 hours of battery[5], it delivers cool, smart, immersive performance for the AI era.



Slim enough to go. Strong enough to go further.

Take high performance anywhere with an ultra-thin, ultra-light design proven tough through 20 MIL-STD tests[2].



Smarter tools. Sharper you.

Unlock your potential with AI tools like adaptive intelligence, 3K OLED[4], an AI-powered camera[8], and immersive audio.



Uncompromised efficiency. Powered by you.

Take productivity further with Snapdragon X2 processor[6] delivering up to 85 trillion NPU operations per second[7].



Innovation that respects the planet.

Designed using 80% recycled aluminum[11] and 40% post-consumer recycled plastics[10]. The EPEAT® Gold with Climate+ [9] and ENERGY STAR® certified design[12].

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.^[13]



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.^[15]



Corning® Gorilla® Glass 3

Enhance your device's endurance with Corning® Gorilla® Glass 3, engineered for unparalleled scratch resistance. Helps reduce accidental damage with strong, more durable protection than most displays.



Snapdragon® X2 Elite 18-core Processor

Unleash your masterpiece with ultra-premium performance, multi-day battery life, and blazing AI power. Built for lightning-fast multitasking in thin and light designs. Perfect for AI workflows, content creation, and productivity on-the-go.^[14]



3K OLED display

See more of your screen with less scrolling with a 3:2 aspect ratio that delivers an optimized portrait view for a more comfortable way to read and browse.^[16]



DCI-P3 color space

Get deeper hues and more accurate colors with a wider color gamut than sRGB. DCI-P3 100% closely represents colors on displays as they are in the real world.^[4]

[2] Testing is not intended to demonstrate fitness of U.S. Department of Defense (DoD) 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.

[3] Display measured diagonally.

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

[5] Up to 44.45 hours of local video playback requires unit configured with Snapdragon® X2 Plus 10-core (XG2-0104), 16GB RAM, 70Whr battery, 2K OLED touch display. Battery life tested by HP using continuous FHD video playback, 1080p (1920x1080) resolution, 200 nits brightness, 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.

[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.

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

[9] Based on U.S. EPEAT® registration according to IEEE 1680.1-2018 EPEAT. EPEAT tier levels may vary by country. See www.epeat.net for registration status and tier levels by country.

[10] Percentage of ocean-bound plastic contained in each component varies by product.

[11] Laptops manufactured with recycled metal material in product cover. Percentage of recycled metal varies by product.

[12] ENERGY STAR and the ENERGY STAR logo are registered trademarks of the U.S. Environmental Protection Agency.

[13] 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>.

[14] 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. Based on up to 30+ hours of battery life tested by HP using continuous FHD video playback, 1080p (1920x1080) resolution, 200 nits brightness, 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.

[15] 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.

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

Specifications

Operating System Software	Windows 11 Pro
Product Color Description (fixed)	Stone blue aluminum
Processor Family	Snapdragon® X2 Elite processor
Processor Name	Snapdragon® X2 Elite X2E-90-100 (up to 5.0 GHz, 18 cores)
Chipset	Qualcomm® integrated SoC
Standard Memory Description 01	32 GB LPDDR5x-9523 MT/s (onboard)
Hard Drive Description (01)	1 TB PCIe® Gen5 NVMe™ M.2 SSD
Product Design	Sandblasted finish
Graphics Card Segment 01	Integrated
GScardseg 01 Available Card 01	Qualcomm® Adreno™ GPU
Display Description (metric)	35.6 cm (14") diagonal, 3K (2880 x 1800), OLED, multitouch-enabled, up to 120 Hz, 0.2 ms response time, UWVA, edge-to-edge glass, micro-edge, Corning® Gorilla® Glass 3, Low Blue Light, SDR 500 nits, HDR 1100 nits, 100% DCI-P3
Display Description	14" diagonal, 3K (2880 x 1800), OLED, multitouch-enabled, up to 120 Hz, 0.2 ms response time, UWVA, edge-to-edge glass, micro-edge, Corning® Gorilla® Glass 3, Low Blue Light, SDR 500 nits, HDR 1100 nits, 100% DCI-P3
Display Size (diagonal, metric)	35.6 cm (14")
Display Size (diagonal)	14"
Audio Features	Quad speakers; HP Audio Boost; Poly Studio
Product Dimensions (metric)	31.11 x 21.56 x 1.07 cm
Product Dimensions (imperial)	12.25 x 8.49 x 0.42 in
Weight (metric)	1.27 kg
Weight (imperial)	2.81 lb
Keyboard	Full-size, backlit, darker stone blue opaque keyboard
Pointing Device	Haptic touchpad
Sensors	Accelerometer; Gyroscope; IR thermal sensor
Camera	5MP IR camera with HDR auto switch, temporal noise reduction and integrated dual array digital microphones
External I/O Ports	1 headphone/microphone combo; 3 USB Type-C® 40Gbps signaling rate (USB Power Delivery 3.1, DisplayPort™ 1.4, HP Sleep and Charge) ^[19]
Package Dimensions (metric)	6.3 x 45.8 x 28 cm
Package Weight (metric)	2.24 kg
Wireless Technologies	Qualcomm® FastConnect™ 7800 Wi-Fi 7 (2x2) and Bluetooth® 5.4 wireless card ^[11,46]
Power Supply Type	65 W USB Type-C® GaN power adapter

Battery Type	4-cell, 70 Wh Li-ion polymer ([23])
Battery Recharge Time	Supports battery fast charge: approximately 50% in 45 minutes ^[5]
Energy Star Certified	ENERGY STAR® certified
Sustainability Specifications	Ocean-bound plastic in speaker enclosure(s) and bezel; Recycled metal in cover, keyboard frame and base; Keyboard keycaps, scissors and keyboard plate contain post-consumer recycled materials
Security Management	Mic mute key; Camera privacy shutter; Trusted Platform Module (Firmware TPM) support
Software Included	McAfee Online Protection 12-month trial
Software - Productivity & Finance	1 month trial for new Microsoft 365 customers ^[24,50]
Cloud Service	100 GB Dropbox storage for 3 months ^[1]
UPC Number	821844273890

Additional specifications

ALC Package depth, metric	45.8
ALC Package height, metric	28
ALC Package width, metric	6.3
Aspect Ratio	16:10
Battery Capacity	70
Battery Capacity UOM	Wh
Battery Cells Number	4
Battery Type	Li-ion polymer
Bluetooth Version	Bluetooth® 5.4
Brightness (typical)	500 nits
Camera Infrared	IR
Camera Microphone	integrated dual array digital microphones
Camera Resolution	5
Camera Resolution UOM	MP
Color	Stone blue
Display Bezel	Micro-edge
Display Brightness	500
Display Brightness UOM	nits
Display Color Gamut	100% DCI-P3
Display Contrast Ratio (Dynamic)	1000000:1
Display Description Short	14" diagonal 3K OLED touch display
Display Description Short (metric)	35.6 cm (14") diagonal 3K OLED touch display
Display Design	Edge-to-edge glass
Display Glass Type	Corning® Gorilla® Glass 3
Display Panel Technology	UWVA
Display Refresh Rate	120
Display Refresh Rate UOM	Hz
Display Resolution (Pixels)	2880 x 1800

Display Resolution Standard	3K
Display Response Time	0.2
Display Response Time UOM	ms
Display Size (Diagonal)	14
Display Size (Diagonal) UOM	"
Display Size (Diagonal, Metric)	35.6
Display Size (Diagonal, Metric) UOM	cm
Display Technology	Low Blue Light
Display Touchscreen Type	Touch screen
ECC Memory	non-ECC
Ecolabels	EPEAT® Gold with Climate+
Flicker-Free	No
Headphone/microphone combo	1
Keyboard Backlight	Backlit
Keyboard Color	Darker meteor silver opaque
Keyboard size	Full-size
Memory Layout (Slots & Size)	onboard
Memory Size	32
Memory Size UOM	GB
Memory Speed	9523
Memory Speed UOM	MT/s
Memory Storage Simplified	32 GB memory;1 TB SSD storage
Memory Type	LPDDR5x
Neural Processing Unit (NPU)	Qualcomm® Hexagon™ NPU (85 NPU TOPS)
Package Dimensions (imperial)	2.48 x 18.03 x 11.02 in
Package Weight (imperial)	4.94 lb
Package depth, imperial (ALC)	18.03
Package height, imperial (ALC)	11.02

Package width, imperial (ALC)	2.48
Packaging unit of measure (imperial)	in
Packaging unit of measure (metric)	cm
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 OS	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.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
Power Supply Type Icon	https://hp.widen.net/content/gzezjfu9ii/png/EU%20Common%20Charger%20%2065-100W%20%20%28Adapter%20included%29.png?w=400&h=400&position=c&color=ffffff00&quality=80&u=dpmp26
Processor Brand	Snapdragon®
Processor Core	18
Processor Family (Short)	X2 Elite
Processor Maximum Frequency	5.0
Processor Maximum Frequency UOM	GHz
Processor Model	X2E-90-100
Processor NPU Tops	50
Product Brand Name	HP
Product Long Name Specifications	HP OmniBook Ultra Laptop Next Gen AI 14-kg0017QU, Windows 11 Pro, 14", Touch screen, Snapdragon® X2 Elite, 32GB RAM, 1TB SSD, 3K, Stone blue

Product Long Name Specifications V2	HP OmniBook Ultra Laptop Next Gen AI 14, Windows 11 Pro, 14", Touch screen, Snapdragon® X2 Elite, 32GB RAM, 1TB SSD, 3K, Stone blue
Product Short Name Specifications	HP OmniBook Ultra Laptop Next Gen AI 14-kg0017QU, 14", Snapdragon® X2 Elite, 32GB RAM, 1TB SSD
Screen-To-Body Ratio (without speakers)	91% ^[18]
Storage Capacity 01	1
Storage Capacity UOM 01	TB
Storage Form Factor 01	M.2
Storage Interface 01	PCIe® Gen 5
Storage Interface Protocol 01	NVMe™
Storage Type 01	SSD
Storage type (filter)	SSD
Touchscreen	Yes
UNSPSC Code	43211503
USB Type-C	3
Wireless Antenna	2x2
Wireless Model	FastConnect™ 7800
Wireless Standard	Wi-Fi 7
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 45 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.

[18] Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk. Calculated to the nearest whole percent may vary +/-0.5%.

[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.

[46] Bluetooth® 5.4 operation requires Microsoft OS/Chrome OS support. Until Microsoft OS/Chrome OS support is available, Bluetooth® 5.4 will function as Bluetooth® 5.3 or lower.

Accessories for PC

Power

★ : Recommended

Power Adapters

HP 65W GaN Wall Charger	C90MRAA
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Bags

Topload Bags

HP Commute 13-14-inch Laptop Bag	D5CJ5AA
HP Commute 13-14-inch Laptop Bag	D5CK4AA
HP Commute 15-16-inch Laptop Bag	D5CK5AA
HP Commute 15-16-inch Laptop Bag	D5CN8AA

Backpacks

HP Commute 16-inch Laptop Backpack	D5CE6AA
HP Commute 16-inch Laptop Backpack	D5CG2AA
HP Commute 16-inch Laptop Backpack	D5CJ3AA
HP Commute 16-inch Laptop Backpack	D5CJ4AA
HP Commute 16-inch Laptop Backpack	D5UU7AA

Port Replicators/Dongles/Docking

Docking

HP USB-C 100W G6 Dock	BS7S5AA
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Hybrid Work Solutions

Audio

★ : Recommended

Wired Headset

HP Poly Mission 410 Monaural USB Wired Headset Customer Special 1	C01B7AA
HP Poly Mission 420 Stereo USB Wired Headset	D14Z3AA
HP Poly Mission 420 Stereo USB Wired Headset Customer Special 1	C01B8AA
HP Poly Mission 610 Monaural USB Wired Headset Customer Special 1	C01C9AA
HP Poly Mission 620 Stereo USB Wired Headset Customer Special 1	C01CBAA
HP Poly Mission 810 Monaural USB Wired Headset Customer Special 1	C01FGAA
HP Poly Mission 820 Stereo USB Wired Headset	D16LSAA
HP Poly Mission 820 Stereo USB Wired Headset Customer Special 1	C01FHAA
Poly Blackwire 3220 Stereo USB-C Headset +USB-C/A Adapter	93S87AA
Poly Blackwire 3220 USB-C Headset USB-C/A Adapter	B7SL7AA
Poly Blackwire 5220 Headset +3.5mm Plug USB-C/A Adapter	B7SL8AA
Poly Blackwire 5220 Stereo USB-C Headset +3.5mm Plug +USB-C/A Adapter	93S88AA

Speakerphones

Poly Sync 10 Speakerphone +USB-A to C Cable	B7SM0AA
Poly Sync 10 Speakerphone +USB-A to USB-C Cable	7S4M6AA

Wireless Headset

Poly Voyager 4310-M Headset UC	B7SL4AA
Poly Voyager 4310-M UC Headset +USB-C Cable +BT700 dongle	7Y210AA
Poly Voyager 4320-M Headset +USB-C Cable +BT700 dongle	7Y211AA
Poly Voyager 4320-M Headset UC	B7SL5AA
Poly Voyager Focus 2 USB-C-C Headset USB-C/A Adapter Charging Stand Customer Special 1	A58JDAA
Poly Voyager Focus 2 USB-C-C Headset USB-C/A Adapter Customer Special 1	A58JCAA
Poly Voyager Focus 2-M USB-C-C Headset USB-C/A Adapter Charging Stand	A4HT2AA
Poly Voyager Focus 2-M USB-C-C Headset USB-C/A Adapter Charging Stand Customer Special 1	A4HT5AA
Poly Voyager Focus 2-M USB-C-C Headset USB-C/A Adapter Customer Special 1	A4HT0AA
Poly Voyager Legend 30 Headset	AV4P5AA
Poly Voyager Legend 30 Headset Customer Special 1	AV4P6AA
Poly Voyager Legend 50 Headset Customer Special 1	AV4N9AA

Poly Voyager Legend 50 Single Ear Headset	AV4P1AA
Poly Voyager Legend 50-M Headset UC	AV4P2AA
Poly Voyager Legend 50-M Headset UC Customer Special 1	AV4P0AA
Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Black Headset +USB-C/A Adapter	9D452AA
Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter	8H2G3AA

Monitors

HP Home Monitors

★ : Recommended

Series 3

HP Series 3 27 inch FHD Monitor - 327se

B7HS7AA

Series 5

HP Series 5 31.5 inch FHD Monitor - 532sf

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