

HP OmniBook Ultra Laptop Next Gen AI 16-bk0002nd (E79QCEA)



Overview

The PC that works on your behalf

Create, code, and move from AI development to demanding creative work without compromise. The HP OmniBook Ultra 16 combines NVIDIA RTX Spark™[1] performance, local AI, a vivid 16-inch 3K OLED display, and immersive audio with HP thermal engineering that sustains heavy workloads in an exceptionally thin premium design.



Build and create faster with local AI

Run AI models, create assets, and write code faster with NVIDIA RTX Spark™[1] performance that stays local.



Create with every detail in sight and sound

See true-to-life detail and hear fuller sound with a 3K OLED[2] display and quad speakers with smart amplifiers.



Sustain performance through demanding work

HP thermal engineering keeps demanding AI and creative workflows moving in an exceptionally thin design.



Premium design with a lighter footprint

Choose a premium PC made with at least 50% recycled metal[3] and rated EPEAT Gold with Climate+[4].

Features



Windows is fast, powerful, and secure

Windows 11 is fast, powerful, and secure, giving you a dependable foundation to work, create, and stay protected every day.^[5]

Built for Agents and AI

NVIDIA CUDA™, the software that accelerates AI around the world, runs natively on RTX Spark.



16:9 aspect ratio

A 16:9 aspect ratio lets you see all of your game.

NVIDIA RTX Spark™

Powered by NVIDIA RTX Spark™, bringing NVIDIA AI, RTX graphics, and unified memory together to redefine Windows PCs for creation, AI development, and gaming on slim and powerful RTX laptops.



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.



100% DCI-P3

With 100% DCI-P3, experience a wider color range and cinema-grade visuals—richer reds, deeper greens, and vibrant color that elevates movies, photos, and creative work.^[6]

[1] Multi-core CPU and GPU technologies are designed to improve performance of certain software applications. Not all customers or applications will necessarily benefit from use of these technologies. Performance will vary based on application workload and hardware and software configurations. Product specifications, core counts, product names, and branding are not measurements of performance. Actual performance and results may vary.

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

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

[4] Based on U.S. EPEAT registration according to the EPEAT criteria. EPEAT registered where applicable, tier levels may vary by country. See www.epeat.net for registration status and tier levels by country.

[5] Battery life varies significantly by device and with settings, usage and other factors. See aka.ms/w11claims. Based on speedometer benchmark. Performance will vary significantly by device. See aka.ms/w11claims

[6] 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	Eclipse gray aluminum
Processor family	NVIDIA RTX Spark™
Processor	NVIDIA RTX Spark™ N1X with 6144-core GPU and 20-core CPU ^[6]
Chipset	NVIDIA® integrated SoC
Memory	64 GB LPDDR5x-9400 MT/s (onboard)
Internal Storage	2 TB PCIe® Gen5 NVMe™ Performance M.2 SSD
Product design	Sandblasted anodized finish
Graphics	Integrated
Graphics (integrated)	NVIDIA Blackwell RTX 6144-core GPU
Display	40.6 cm (16") 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)	40.6 cm (16")
Audio	Quad speakers; HP Audio Boost; Poly Studio; DTS Virtual:X™
Dimensions (W x D x H)	35.58 x 25.65 x 1.57 cm
Weight	2.22 kg
Keyboard	Full-size, backlit, darker eclipse gray opaque keyboard
Pointing device	HP Imagepad
Input devices	Accelerometer; Gyroscope; IR thermal sensor
Camera	5MP IR camera with HDR auto switch, temporal noise reduction and integrated dual array digital microphones
Ports	2 USB Type-A 10Gbps signaling rate; 1 HDMI-out 2.1; 1 headphone/microphone combo; 2 USB Type-C® 40Gbps signaling rate (USB Power Delivery 3.2, DisplayPort™ 2.1, HP Sleep and Charge) ^[19]
Expansion slots	1 microSD media card reader
Package dimensions (W x D x H)	6.7 x 50 x 30.3 cm
Package weight	3.45 kg
Wireless	MediaTek Wi-Fi 7 MT7925 (2x2) and Bluetooth® 6.0 wireless card ^[12,46]
Power supply type	140 W USB Type-C® GaN power adapter
Battery recharge time	Supports battery fast charge: approximately 50% in 30 minutes ^[5]
Energy star certified	ENERGY STAR® certified
Sustainability specifications	Ocean-bound plastic in speaker enclosure(s) and bezel; Keyboard keycaps, scissors and keyboard plate contain post-consumer recycled plastic; Recycled metal in cover, keyboard frame and base
Security management	Mic mute key; Camera privacy shutter; Trusted Platform Module (Discrete TPM) support
Software included	1-month Adobe free trial offer; PC Game Pass 3-month 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	885981948592
Manufacturer Warranty	1 year (1/1/0) limited warranty includes 1 year of parts and labor. No on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

Additional specifications

Additional information about HP	https://www.hp.com
Aspect ratio	16:10
Battery brand	HP
Battery capacity	99
Battery capacity uom	Wh
Battery cells number	6
Battery type	Li-ion polymer
Bluetooth version	Bluetooth® 6.0
Brightness	500 nits
Camera Infrared	IR
Camera microphone	integrated dual array digital microphones
Camera resolution	5
Camera resolution uom	MP
Color	Eclipse gray
Color gamut	100% DCI-P3
Datasheet photo 1	https://hp.widen.net/content/waofuqkjn4/png/DaytonaN_Omnibook_Ultra_16_NB_EclipseGrey_NewBloomDark_TransparentBG_FrontOpen_719w=800&h=800&position=c&color=ffffff00&quality=80&u=o6zqz4
Datasheet photo 2	https://hp.widen.net/content/hrzicboeix/png/DaytonaN_Omnibook_Ultra_16_NB_EclipseGrey_NewBloomDark_TransparentBG_FrontRight_7191w=800&h=800&position=c&color=ffffff00&quality=80&u=o6zqz4
Datasheet photo 3	https://hp.widen.net/content/ythuahiw5s/png/DaytonaN_Omnibook_Ultra_16_NB_EclipseGrey_NewBloomDark_TransparentBG_FrontLeft_7191w=800&h=800&position=c&color=ffffff00&quality=80&u=o6zqz4
Datasheet photo 4	https://hp.widen.net/content/46egyahazm/png/DaytonaN_Omnibook_Ultra_16_NB_EclipseGrey_NewBloomDark_TransparentBG_RearLeft_7294w=800&h=800&position=c&color=ffffff00&quality=80&u=o6zqz4
Datasheet photo 5	https://hp.widen.net/content/lvm6svkibx/png/HP_care_pack_RGB_black.png?w=400&h=400&position=c&color=ffffff00&quality=80&u=dpmp26
Display	40.6 cm (16") diagonal 3K OLED touch display
Display bezel	Micro-edge
Display brightness	500
Display brightness uom	nits
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) uom	"
Display size (diagonal, imperial)	16
Display size (diagonal, metric)	40.6
Display size (diagonal, metric) uom	cm
Display touchscreen type	Touch screen
Display type	OLED
ECC memory	non-ECC
EPEAT registered	EPEAT Gold with Climate+ ^[55]
HDMI out – version	2.1
HDMI –out	1
HP apps	HP Support Assistant; HP Connection Optimizer; OMEN Gaming Hub

Headphone/microphone combo	1
Keyboard backlight	Backlit
Keyboard color	Darker eclipse gray
Keyboard size	Full-size
Memory and storage	64 GB memory;2 TB SSD storage
Memory layout (slots & size)	onboard
Memory size	64
Memory size uom	GB
Memory speed	9400
Memory speed uom	MT/s
Memory type	LPDDR5x
Package depth, metric (most common size)	50
Package depth, metric (smallest possible size)	42.6
Package height, metric (most common size)	30.3
Package height, metric (smallest possible size)	30.3
Package width, metric (most common size)	6.7
Package width, metric (smallest possible size)	6.7
Packaging unit of measure (metric)	cm
Playbook TS icon 2	https://hp.widen.net/content/duk3k8mmyd/png/Thin%20and%20Light%20Design_M0287739.png?w=400&h=400&position=c&color=ffffff00&quality=80&u=dpmp26
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/c08169240.png
Playbook TS icon 7	https://hp.widen.net/s/lj2lfmb5fw/cooling_m0305023
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
Power Supply Type Icon	https://hp.widen.net/content/muvvxszegv/png/EU%20Common%20Charger%20%2065-140W%20%28Adapter%20included%29.png?w=400&h=400&position=c&color=ffffff00&quality=80&u=dpmp26
Processor Brand	NVIDIA®
Processor core	20
Processor family	RTX Spark™
Processor model	N1X
Product brand name	HP
Product long name specifications	HP OmniBook Ultra Laptop Next Gen AI 16-bk0002nd, Windows 11 Home, 16", Touch screen, NVIDIA® RTX Spark™, 64GB RAM, 2TB SSD, 3K, Eclipse

Product long name specifications V2	HP OmniBook Ultra Laptop Next Gen AI 16, Windows 11 Home, 16", Touch screen, NVIDIA® RTX Spark™, 64GB RAM, 2TB SSD, 3K, Eclipse gray
Product safety	https://support.hp.com/us-en/document/ish_6126692-6126777-16?openCLC=true ; HP REG 23010, 08028 Barcelona, Spain ; reg@hp.com
Product short name specifications	HP OmniBook Ultra Laptop Next Gen AI 16-bk0002nd, 16", NVIDIA® RTX Spark™, 64GB RAM, 2TB SSD
Screen-to-body ratio (without speakers)	91% ^[18]
Software included	Copilot in Windows with Copilot key
Software included upgrades	McAfee Online Protection 1-year subscription ^[2]
Storage capacity	2
Storage capacity uom 01	TB
Storage form factor 01	M.2
Storage interface 01	PCIe® Gen 5
Storage interface protocol 01	NVMe™
Storage memory technology 01	Performance
Storage type	SSD
Storage type 01	SSD
Technology logo 2	https://hp.widen.net/content/gy9lle9biw/png/Fast_Charge_RGB_black.png?w=400&h=400&position=c&color=ffffff00&quality=80&u=dpmp26
Technology logo 3	https://hp.widen.net/content/piвна5zkqv/png/Epeat_Gold_Logo.png?w=400&h=400&position=c&color=ffffff00&quality=80&u=dpmp26
Technology logo 4	https://hp.widen.net/content/x28kqzpb81/png/Energy%20Logo_M2615019.png?w=400&h=400&position=c&color=ffffff00&quality=80&u=90qu
Technology logo 5	https://hp.widen.net/content/huhn8e8nbg/png/McAfee-TM-logo-red.png?w=400&h=400&position=c&color=ffffff00&quality=80&u=dpmp26
Touchscreen	Yes
UNSPSC code	43211503
USB Type-A	2
USB Type-C	2
Wireless antenna	2x2
Wireless standard	Wi-Fi 7
Wireless supplier	MediaTek

[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.

[2] Internet access required and not included. McAfee is pre-installed on your PC and an account is required for activation. Subscription renewal required after trial period. VPN feature is not available in India, China, Syria or North Korea. McAfee is not compatible with Windows 11 in S mode. You'll need to permanently switch out of S mode. There's no charge to switch out of S mode, but you won't be able to turn it back on.

[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 CPU and GPU technologies are designed to improve performance of certain software applications. Not all customers or applications will necessarily benefit from use of these technologies. Performance will vary based on application workload and hardware and software configurations. Product specifications, core counts, product names, and branding are not measurements of performance. Actual performance and results may vary.

[12] Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires Windows 11 2024, select Intel® Core™ or Intel® Core™ Ultra processor, and a Wi-Fi 7 router, sold separately. Wi-Fi 7 is backwards compatible with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported. The specification for 802.11BE is a draft specification and is not final. If the final specification differs from the draft specification, it may affect the ability of the device to communicate with other 802.11BE devices.

[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® 6.0 operation requires Microsoft OS/Chrome OS support. Until Microsoft OS/Chrome OS support is available, Bluetooth® 6.0 will function as Bluetooth® 5.4 or lower.

[55] Based on U.S. EPEAT registration according to the EPEAT criteria. EPEAT registered where applicable, tier levels may vary by country. See www.epeat.net for registration status and tier levels by country.

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 150 Wired Mouse	240J6AA
HP 320M Wired Mouse (Bulk 120)	9VA80A6
HP Wired Desktop 320M Mouse	9VA80AA
HP Wired Mouse 100	6VY96AA
HP Wired Mouse 1000	4QM14AA
HP Wired Mouse 105	822M9UT
USB Travel Mouse	G1K28AA

Wireless Mice

HP 150 Wireless Mouse	2S9L1AA	
HP 235 Slim Wireless Mouse	4E407UT	
HP 240 Black Bluetooth Mouse	3V0G9AA	
HP 240 Empire Red Bluetooth Mouse	43N05AA	
HP 240 Lunar White Bluetooth Mouse	793F9AA	
HP 240 Pike Silver Bluetooth Mouse	43N04AA	
HP 245 Bluetooth Mouse	81S67AA	
HP 250 Dual Mouse	6V2J7AA	
HP 255 Dual Wireless Mouse	8R3U1UT	
HP 280 Silent Wireless Mouse	19U64AA	
HP 285 Silent Wireless Mouse	6G4E6AA	
HP 410 Slim Silver Bluetooth Mouse	4M0X5AA	obsolete
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 695 Rechargeable Wireless Mouse	8F1Y4AA	
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 Wireless Mouse 200	X6W31AA	
HP Wireless Mouse 200 (Empress Red)	2HU82AA	
HP Wireless Mouse 200 (Pike Silver)	2HU84AA	
HP Wireless Mouse 200 (Silk Gold)	2HU83AA	

HP Wireless Mouse Z20	3FV66AA
HP Wireless Mouse Z20 (Lumiere Blue)	7KX11AA
HP Wireless Mouse Z20 (Snow White)	7KX12AA
HP Wireless Mouse Z20 (Sunset Red)	7KX10AA
HP Wireless Mouse Z3700	7UH88AA
HP Wireless Mouse Z3700 - White/Pink	4VY82AA
HP Z3700 Black Wireless Mouse	V0L79AA
HP Z3700 Blue Wireless Mouse	V0L81AA
HP Z3700 Ceramic White Wireless Mouse	171D8AA
HP Z3700 Dual Black Mouse	758A8AA
HP Z3700 Dual Silver Mouse	758A9AA
HP Z3700 Gold Wireless Mouse	X7Q43AA
HP Z3700 Red Wireless Mouse	V0L82AA
HP Z3700 Silver Wireless Mouse	X7Q44AA
HP Z3700 White Wireless Mouse	V0L80AA

Power

Power Adapters

HP 140W USB-C Laptop Charger	B7NM4AA
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Keyboards/Other Input Devices

Wired Keyboards

HP 150 Wired Keyboard	664R5AA
HP 400 Backlit Wired Keyboard	7N7C0AA
HP 405 Multi-Device Backlit Wired Keyboard	7N7C1AA
HP 405 Multi-Device Backlit Wired Keyboard	7N7C1UT
HP 480 Comfort Wired Keyboard	8T6M1AA
HP 485 Comfort Wired Keyboard	8T6M2AA
HP Wired Desktop 320K Keyboard	9SR37UT

Wired Combo

HP 150 Wired Mouse and Keyboard	240J7AA
HP Pavilion Keyboard and Mouse Z00	9DF28AA
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 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

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 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

Bags**Topload Bags**

HP Commute 15-16-inch Laptop Bag	D5CK5AA
HP Commute 15-16-inch Laptop Bag	D5CN8AA
HP Modern 16-inch Laptop Briefcase	CJ8D3AA

Backpacks

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

Sleeves

HP Protective 15-16-inch Laptop Sleeve	C3TR6AA
HP Protective 15-16-inch Laptop Sleeve	C3TR7AA
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

HP Home Monitors

★ : Recommended

Series 3

HP Series 3 27 inch FHD Monitor - 327se	B7HS7AA
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