Datasheet

HP OmniStudio All-in-One Desktop Next Gen AI 24-cw0002na PC

Next-gen performance for everyday task

Navigate your day with the HP OmniStudio 24-inch All-in-One Desktop, powered by AMD Ryzen™ AI[1]. Multitask smoothly, enjoy vibrant visuals, and stay connected with adaptive audio and AI wellness features.

*Product image may differ from actual product

Master the art of multitasking

Boost productivity with AMD Ryzen AI™ processors[1], ultrafast Wi-Fi[3], and Copilot+[2] AI tools.

Stunning view. Total comfort.

Built for long, busy days, this all-in-one desktop features a 24" HD display, ergonomic stand, and smart design for comfort.

Be seen, heard, and fully present

Stay connected with ultrafast Wi-Fi[3], FHD camera[4], and dual speakers for crisp calls and streaming.

Sustainability in action

Designed with purpose

Designed to include at least 60% post-consumer recycled plastic in the body[5]. EPEAT Gold with Climate+[8] and ENERGY STAR® registered[9].

with

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Featuring

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.[6]

AMD Ryzen™ AI 400 Series processors
Unlock powerful AI-driven experiences with Copilot+ PCs powered by AMD Ryzen™ AI 400 Series processors, designed to enhance creativity, simplify and streamline your day, and give you valuable time back to do more.[7]

Integrated AMD Radeon™ 800M graphics
AMD Radeon™ 800M graphics are built in for thrilling gaming performance, high resolution display support and hardware accelerated encoding with or without a discrete graphics card.

Anti-glare panel
Enjoy the sun and your favorite content with this anti-glare panel. Non-reflective and low gloss means you'll get less glare while you're outside.

Screen to body ratio
Revolutionize your display and see more of what you love with this slim bezel design. Enjoy an immersive multimedia experience with a maximized viewing area.

ENERGY STAR® certified
Save energy and money with ENERGY STAR®, certified by the EPA so you will use less energy and save money where it counts most.[11]

HP True Vision FHD IR camera
Log in safely through Windows Hello with the infrared sensor. With an 88-degree, wide-angle field of view, you can video chat with your entire family or group of friends in stunning detail.[12]

USB Type-C® 10Gbps signaling data rate
Plug in your external storage with this USB Type-C® port, featuring 10Gbps signaling data rate. And it's reversible, so you never have to worry about plugging in upside down.[13]

Effortlessly connected
Enjoy faster speeds, improved performance, greater capacity and lower latencies than earlier iterations with Wi-Fi 6 and Bluetooth® 5.4 wireless card.[14]

PCIe NVMe™ M.2 SSD storage
Boot up in seconds with lightning fast speed with up to 1 TB PCIe NVMe™ M.2 SSD storage.

Dual speakers
Pump up the volume to your favorite music, movie or game with dual-stereo speakers.

DDR5 RAM
Designed to run efficiently and reliably at faster speeds, DDR5 is the latest RAM standard. With higher bandwidth, you get more of a boost in performance.

Recommended accessories and services (not included)

HP 200 Sanitizable Desk Mat
8X596AA

HP Multi-Device Dual-Mode Mouse and Keyboard Combo 490C
BE1M5AA

HP Tilt Ergonomic Mouse 720M
BH0Z4AA

3-year pickup and return
UC994E

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Specifications

Performance

Operating system
Windows 11 Home
Processor
AMD Ryzen™ AI 7 445 (up to 4.6 GHz max boost clock, 8 MB L3 cache, 6 cores, 12 threads)[6,7]
Processor family: AMD Ryzen™ AI 7 processor
Neural Processing Unit (NPU): AMD Ryzen™ AI (50 NPU TOPS)
Chipset
AMD integrated SoC
Memory
16 GB DDR5-5600 MT/s (2 x 8 GB)
Transfer rates up to 5600 MT/s.
Memory slots: 2 SODIMM
Storage
1 TB PCIe® NVMe™ M.2 SSD
100 GB Dropbox storage for 3 months[1]
Graphics
Integrated: AMD Radeon™ 840M Graphics;
Audio
Dual 3 W speakers
Display
60.5 cm (23.8") diagonal, FHD (1920 x 1080), 100 Hz, UWVA, IPS, anti-glare, Low Blue Light, 350 nits, 100% sRGB[15]
Screen-to-body ratio
93%[5]
Power
90 W Smart AC power adapter;

Connectivity

Network interface
Realtek RTL8111HSH-CG GbE NIC
Wireless connectivity
MediaTek Wi-Fi 6 MT7920 (2x2) and Bluetooth® 5.4 wireless card
Ports
Rear:
2 USB Type-C® 10Gbps signaling rate; 1 USB Type-A 10Gbps signaling rate; 2 USB 2.0 Type-A; 1 headphone/microphone combo; 1 RJ-45
Video connectors
1 HDMI-out 2.0b
Expansion slots
2 M.2 (1 for SSD loaded, 1 for WLAN loaded)
Webcam
HP 1080p FHD IR camera with HDR auto switch, temporal noise reduction and integrated dual array digital microphones

Sustainability

Ecolabels
EPEAT® Gold with Climate+[27]
Energy star certified
ENERGY STAR® certified
Sustainable impact specifications
At least 30% recycled metal; At least 60% post-consumer recycled plastic[40,41]

Design

Product color
Cotton white
Textured finish

Software

HP apps
HP Connection Optimizer; HP Support Assistant; OMEN Gaming Hub
Software
1 month trial for new Microsoft 365 customers[24]
Service & support
McAfee Online Protection 30-day trial; 1-month Adobe free trial offer; PC Game Pass 3-month trial [2,25]

Additional information

Part Number
P/N: D2RS0EA #ABU
UPC/EAN code: 199896364164
Weight
5.05 kg (height adjustable stand);
Packed: 10.15 kg
Dimensions
54.03 x 18.48 x 38.56 cm (height adjustable stand min); 54.03 x 18.48 x 48.56 cm (height adjustable stand max);
Packed: 64 x 18 x 46.6 cm
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.
Keyboard
HP 275C USB Cashmere White Wireless Keyboard and Mouse Combo
Security management
Camera privacy shutter; Microsoft Pluton

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Footnotes

Messaging Footnotes

[1] 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. AMD'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.
[2] Copilot+ PC experiences vary by device and region and may require updates continuing to roll out through 2025; timing varies. See aka.ms/copilotpluspcs .
[3] Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 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 Wi-Fi 6 devices. Only available in countries where 802.11ax is supported. Wi-Fi 6 (802.11ax) is not supported in Ukraine, Russia, and Indonesia where Wi-Fi settings will be optimized to local regulatory requirements (802.11ac).
[4] Camera resolution refers to the image sensor active pixels. Actual image capture pixels and aspect ratio depend on the app selected.
[5] Recycled plastic is expressed as a percentage of the total weight of plastic. Post-consumer recycled based on EPEAT standard, IEEE 1680.1-2018.
[8] 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.
[9] ENERGY STAR® and the ENERGY STAR® logo are registered trademarks of the U.S. Environmental Protection Agency.
[10] Full high-definition (FHD) content is required to view FHD images.
[6] 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
[7] 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. AMD's numbering is not a measurement of clock speed.
[11] ENERGY STAR and the ENERGY STAR logo are registered trademarks of the U.S. Environmental Protection Agency.
[12] Features may require software or other 3rd party applications to provide the described functionality.
[13] Actual throughput may vary. USB Type-C® and USB-C® are trademarks of USB Implementers Forum.
[14] 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. Wi-Fi 6 is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels. Wi-Fi 6 (802.11ax) is not supported in Belarus where Wi-Fi settings will be optimized to local regulatory requirements (802.11ac). 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. Bluetooth® is a trademark owned by its proprietor and used by HP Inc. under license.

Technical Specifications Footnotes

[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] Percent of active and nonactive viewing area to chassis
[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. AMD's numbering is not a measurement of clock speed.
[7] Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.
[12] Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 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 Wi-Fi 6 devices. Only available in countries where 802.11ax is supported.Wi-Fi 6 (802.11ax) is not supported in Ukraine, Russia, and Indonesia where Wi-Fi settings will be optimized to local regulatory requirements (802.11ac).
[15] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
[24] Must activate within 180 days of Windows activation.
[25] Offer available worldwide (excluding China and embargoed countries or other countries identified as restricted by applicable law or regulation) to new and existing subscribers who are 18+. Click on the Adobe icon in the start menu to redeem a 1-month free trial membership for select Adobe software. The software is tied to the device and is not transferrable. If you would like to sign up for an auto-renewing subscription, you can provide your payment method at sign-up. By adding a payment method, your subscription will automatically renew at the then current rate on your renewal date until you cancel. If you cancel before the end of the one-month free trial, you won't be charged. You can cancel your subscription anytime via your Adobe Account page or by contacting Customer Support. Please see current prices for Adobe products available in this offer. Offer not available to Education, OEM, or volume licensing customers. Subject to availability where the recipient resides. Additional terms and conditions may apply. VOID WHERE PROHIBITED OR RESTRICTED BY LAW.
[27] Based on U.S. EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.
[40] Recycled metal is expressed as a percentage of the total weight metal as per defined in the EPEAT criteria.
[41] Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT criteria.
[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.
[51] Weight and system dimensions may fluctuate due to configuration and manufacturing variances.

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