

HP OmniStudio X 27 inch All-in-One Desktop Next Gen AI PC 27-cs1014



Copilot+ PC



Your ultimate All-in-One ally, now with AI to navigate your day.

The HP OmniStudio X All-in-One PC is your ultimate ally for impactful work. Tackle demanding tasks quickly with AI technology and an Intel® Core™ Ultra processor, freeing time for what matters. Unwind with cinema-quality audio and advanced display technology, seamlessly transitioning from work to play. Designed for comfort and wellness, it's perfect for taking on your day.

Product overview

- **Works with you, for you, for more productivity:** Discover new AI experiences. The Intel® Core™ Ultra processor with up to 47 TOPS and Intel® Arc™ graphics for enhanced creation and gaming. Boost productivity with HP AI Companion and enjoy exclusive AI experiences with Copilot+.⁽⁴⁾⁽¹⁾⁽⁷⁾⁽⁹⁾ Stay focused on demanding tasks with cutting-edge connectivity options. Effortless multi-tasking is yours with an HDMI-out port for a second monitor. Conquer your day your way.
- **Ultimate entertainment. Genuine connections. No distractions.** Effortlessly transition from work to play with cinema-quality audio and advanced display technology. Enjoy entertainment on the big screen and connect external devices via HDMI-In. The HP OmniStudio X All-in-One combines everything in one device. Showcase ideas with a SMP Poly Camera Pro featuring a manual shutter for privacy, and experience clearer calls with AI Noise reduction. Windows Studio Effects enhance connections with automatic framing, background blur, and eye contact.
- **Designed with you and your wellbeing in mind:** AI-powered wellness features designed for your wellbeing. Reduce eye strain with a screen distance reminder that blurs the screen when you're too close. Manage screen time with reminders for healthy viewing habits. Enjoy a seamless workflow with a height-adjustable stand and easy-access ports, eliminating the need to reach behind your PC.
- **Built for a better tomorrow:** The HP OmniStudio X All-in-One is designed using up to 25% recycled metals and 35% post-consumer recycled plastics. EPEAT® Gold with Climate+ and ENERGY STAR® certifications demonstrate reduced environmental impact and increased energy efficiency.⁽²⁾⁽⁷⁾⁽⁸⁾⁽²⁾

Key specifications

- **Operating system:** Windows 11 Home⁽¹⁾
- **Processor:** Intel® Core™ Ultra 7 256V processor⁽²⁾⁽³⁾
- **NPU:** Intel® AI Boost (47 NPU TOPS)⁽⁴⁾⁽⁵⁾
- **Integrated display:** 27" (68.6 cm) diagonal, 4K UHD (3840 x 2160), IPS, three-sided micro-edge, anti-glare, 350 nits, 99% sRGB, Non-touch screen⁽¹⁰⁾⁽¹¹⁾⁽⁷⁾
- **Memory:** 16 GB LPDDR5x-8533 MT/s RAM (onboard)⁽¹³⁾
- **Internal storage:** 1 TB PCIe® Gen4 NVMe™ M.2 Solid State Drive⁽¹⁵⁾
- **Graphics:** Intel® Arc™ Graphics 140V⁽¹⁶⁾
- **Sound:** poly studio audio
- **Mouse and keyboard:** HP meteor silver wireless keyboard and mouse combo
- **Camera:** 5 MP IR camera with temporal noise reduction and integrated dual array digital microphones⁽⁸⁾⁽⁹⁾⁽⁹⁾⁽⁹⁾
- **USB ports:** Side I/O: 2 USB Type-A 10Gbps signaling rate, 1 USB Type-C® 10Gbps signaling rate⁽⁴⁰⁾
Rear: 2 USB Type-A 10Gbps signaling rate, 1 USB Type-C® 20Gbps signaling rate (DisplayPort™ 1.4 Out)⁽⁴²⁾⁽⁵⁰⁾
- **Connectivity:** HDMI Out, HDMI In
- **Wireless:** Wi-Fi 7 (2x2) and Bluetooth® 5.4 wireless card^{(19)(20)(25a)(26)}
- **Warranty:** 1-year limited hardware warranty

Product features

- **Get a fresh perspective with Windows 11:** 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.⁽¹⁾
- **Copilot+ PC:** Copilot+ PC will bring exclusive on-device AI experiences designed to accelerate productivity and creativity.⁽⁴⁾⁽¹⁾
- **Microsoft Copilot:** Kickstart your creativity and productivity with Microsoft Copilot. Complements your capabilities and creativity with intelligent assistance and relevant answers. And now with the Copilot key, you can access this AI-powered intelligent assistant with a single press of a button.⁽⁴¹⁾
- **Intel® Core™ Ultra 7 processor:** Work, play and create with unmatched performance with an AI accelerating Intel® Core™ Ultra processor. Helpful assistants, instant media generation and collaboration effects to make everything you do easier, faster, better. More than a PC, it's an AI PC.⁽⁶⁾⁽⁴⁾
- **Intel® Arc™ graphics:** With Intel® Arc™ graphics built-in, AI powers advanced creation and gameplay. Enjoy the high performance needed for accelerated creation and immersive high-resolution gaming, even while on-the-go.
- **Eyesafe® Certified display:** Protects your eyes from harmful blue light without distorting colors to reduce eyestrain when working for long periods of time.
- **Flicker-free:** Using DC Dimming technology, we can eliminate screen flickering for more comfortable viewing.⁽⁶⁾⁽¹⁾
- **4K IPS display:** With 8.2 million pixels, be mesmerized by the 4K experience. The spectacular 3840 x 2160 resolution delivers your content in jaw-dropping quality with true-to-life definition and 178-degree wide-viewing angles.⁽¹⁷⁾
- **Anti-glare panel:** Enjoy your favorite content with this anti-glare panel. Non-reflective and low gloss means you'll get less glare.
- **Screen Time & Screen Distance:** Offers a customized experience to support the wellbeing of the whole family. Manage reminders for balanced productivity and encourage proper posture while minimizing eyestrain.
- **Poly Studio Audio:** HP + Poly together will continuously accelerate innovation across our hybrid solutions, including AI-generated technology. With pitch perfect audio, you'll get the best experience to collaborate anywhere with audio tuned by Poly Studio.

Additional product features

- **Poly Camera Pro:** Enhanced video calls with AI for a truly immersive conferencing experience across all collaboration apps.
- **AI Noise reduction:** Clearer conversations with artificial intelligence that filters background noise.
- **Wi-Fi 7 (2x2) and Bluetooth® 5.4 wireless card:** Enjoy a smoother wireless experience with a Wi-Fi 7 (2x2) and Bluetooth® 5.4 wireless card, ensuring an solid connection for all your devices.^{(1)(6)(25a)(26)}
- **HP SMP IR camera with HDR switch:** Take visually stunning works of art with HP SMP IR camera with HDR switch capabilities. With High Dynamic Range and 16:10 aspect ratio you get HD content natively, so you can capture more gradients between lights and darks for truer color accuracy.
- **PCIe® Gen4 NVMe™ M.2 SSD:** With high-speed data transfer, the PCIe® Gen4 NVMe™ M.2 SSD offers fast speed and efficient storage.
- **Adaptive Audio:** Thanks to advanced audio technology, your PC automatically adapts to where you are in the room and provides a consistent surround sound experience.
- **HP Audio Boost 2.0:** Powered by Smart Amp technology provides you loud, rich, and dynamic sound.
- **LPDDR5x RAM:** Experience speedy and responsive performance with the power efficient LPDDR5x memory. Designed to support higher data rates with less latency, plus faster file transfers and application load.
- **Try PC Game Pass for free:** Play hundreds of high-quality PC games on your new HP device with 3 free months of PC Game Pass—including EA play. With new games being added all the time, there's always something new to play.⁽⁶⁾⁽⁸⁾

Product design

- **Adjust your view:** Adjust your screen's height for comfortable viewing.
- **Three-sided micro-edge display:** See more of your screen with a three-sided micro-edge display that maximizes your viewing area.
- **Easy IO access:** Plug and unplug devices with ease with easy IO access. Quick access to ports without having to move the device to reach the rear IO.
- **HDMI in:** Plug in and enjoy your favorite content on a bigger screen.
- **HDMI out:** Transmit digital HD video and sound to an external display.
- **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.⁽⁴²⁾⁽⁴³⁾
- **USB Type-A 10Gbps signaling data rate:** Plug in your external storage with this USB Type-A port, featuring 10Gbps signaling data rate.

Designed with the planet in mind

HP is dedicated to driving progress toward a more sustainable future and making responsible choices for the environment and our customers. We are innovating new ways to reduce the amount of materials in our products and packaging—and to use more recycled materials in their design. Together we can make a difference.

The HP OmniStudio X 27 inch All-in-One Desktop Next Gen AI PC is built with the future in mind, using environmentally conscious and recycled materials.

- Up to 25% recycled metal
- Up to 35% post-consumer recycled plastic
- ENERGY STAR® certified
- EPEAT® Gold with Climate+^{(12)(7a)}

Warranty and support

Our Customer Support Team consistently provides quick, responsive assistance in the U.S., Canada and Latin America.

Included with your product:

- **HP's Hardware Limited Warranty:** Full warranty details are included with your product.
- **Technical Support for Software & Initial set-up:** Warranty details are included with your product.

Support Options:

- **HP Support Assistant - HP5A:** Optimized to enhance your support experience. Help for your PC and HP printers whenever you need it.⁽⁵⁾⁽⁹⁾
- **Online Support:** For technical support with this product, visit HP Customer Support <http://support.hp.com>.⁽¹⁾⁽¹⁰⁾
- **Social Media Support:** To find solutions, ask questions, and share tips, join us on the HP Support Community at community.hp.com, on Twitter at twitter.com/HPsupport, and Facebook at facebook.com/HPsupport.⁽¹⁾⁽¹⁰⁾



Specifications

Operating system	• Windows 11 Home ⁽¹⁾
Processor	• Intel® Core™ Ultra 7 256V processor ^(2a) • 8-Core • Intel® AI Boost (47 NPU TOPS) ^(6a)
Processor speed	• Up to 4.8 GHz with Intel® Turbo Boost Technology ^(2a)
Cache	• 12 MB L3 cache
Memory	• 16 GB LPDDR5x-8533 MT/s RAM (onboard) ⁽³⁾
Internal storage	• 1 TB PCIe® Gen4 NVMe™ M.2 Solid State Drive ⁽¹⁵⁾
Finish	• HP finish in Meteor Silver
Video graphics	• Intel® Arc™ Graphics 140V ⁽¹⁶⁾
Network interface	• 10/100/1000/2500 GbE NIC ⁽²⁹⁾
Wireless connectivity	• Wi-Fi 7 (2x2) and Bluetooth® 5.4 wireless card ^{(19a)(25a)(26)}
Sound	• poly studio audio
Memory slots	• 2 DIMM (SO-DIMM) (available)
Expansion slots	• 2 M.2 (occupied)
External ports	• Headphone/Microphone Combo • Side I/O: 2 USB Type-A 10Gbps signaling rate, 1 USB Type-C® 10Gbps signaling rate ⁽⁴²⁾ • Rear: 2 USB Type-A 10Gbps signaling rate, 1 USB Type-C® 20Gbps signaling rate (DisplayPort™ 1.4 Out) ⁽⁴²⁾ ⁽⁵⁰⁾ , 1 RJ-45, HDMI Out, HDMI In
Mouse and keyboard	• HP meteor silver wireless keyboard and mouse combo
Camera	• 5 MP IR camera with temporal noise reduction and integrated dual array digital microphones ^{(88a)(99a)}
Microphone	• Dual array digital microphone
Integrated display	• 27" (68.6 cm) diagonal, 4K UHD (3840 x 2160), IPS, three-sided micro-edge, anti-glare, 350 nits, 99% sRGB, Non-touch screen ⁽²⁾⁽³⁷⁾
Screen to body ratio	• 92.95% ^(40a)
Tilt/stand design	• Tilt Angle: -1° ~16° • Stand Type: Height Adjust Stand
Power supply	• 180 W AC power adapter
Dimensions	• Unpackaged: 24.18 in (W) x 7.88 in (D) x 21.15 in (H) approx. • Packaged: 29.90 in (L/D) x 6.40 in (W) x 18.90 in (H) approx.
Weight	• Unpackaged: 18.96 lb approx. ⁽⁷⁶⁾ • Packaged: 32.40 lb approx.
Warranty and support	• 1-year limited hardware warranty. Additional information available at www.support.hp.com • 1-year limited technical support for software and initial setup (from date of purchase) ⁽⁵³⁾

Software and technology

Next Gen AI Apps	• HP AI Companion: Get the most out of your AI PC with the new HP AI Companion app. Elevate your everyday tasks with a collection of AI tools and solutions that can increase your productivity and keep you running at your best. ⁽⁷⁹⁾ • Live Captions: When you never miss a word, you never miss a beat. Like the conversation in your video calls. Or the dialogue in your movies. If there are spoken words, Live Captions can turn them into English subtitles in real time on your screen. ^(116a) • Paint Cocreator: Light your spark. Everyone has an imagination and an ability to be an artist. Describe or draw your vision with text or image prompts and watch Paint Cocreator generate an interpretation of it.
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Learn more at hp.com

Help and support	• HP Support Assistant: Help with your HP PC and printers whenever you need it. ⁽⁵⁶⁾ • myHP: Customize, optimize, and secure your device with tips and tricks and easy-to-access settings, and receive helpful messages and information to keep things running smoothly.
Security and protection	• HP BIOS Protection: Get peace of mind knowing your PC BIOS is protected. HP BIOS Protection automatically checks its health and recovers itself. ^(9,33) • Presence Sensing: Experience optimal security and efficiency with Presence Sensing. Automatically lock and wake your PC, saving power and getting back to work quickly. Easy access with a single click from myHP. ⁽⁷⁷⁾
Partner offers	• Dropbox cloud storage: Store and synchronize your content online with Dropbox. Get 100GB of storage for one year to access, manage, and share your photos, music, and files from anywhere with Internet access. ⁽¹⁰⁾⁽²²⁾ • McAfee 30-day trial: Secure your privacy and data when browsing on public Wi-Fi with VPN, included in your free McAfee 30-day trial. ⁽⁸⁰⁾⁽¹⁰⁾ • Adobe Offer: Get a complimentary 1 month trial of the best creativity and productivity apps from Adobe with the purchase of a computer from HP. Create anything you can imagine – photos, videos, graphics, webpages, PDFs, and more. Get started with the app that best fits your need. ^(88a) • Try PC Game Pass for free: Play hundreds of high-quality PC games on your new HP device with 3 free months of PC Game Pass. ⁽⁶⁰⁾ • McAfee Deepfake Detector: Browse freely knowing we'll alert you in seconds if you're watching a deepfake. McAfee Deepfake Detector, powered by Smart AI™, identifies manipulated audio and AI-generated media, providing instant alerts. Processed locally on the NPU for privacy. ⁽⁸⁰⁾
System performance	• HP Connection Optimizer: Get consistent and reliable Wi-Fi performance with software that automatically switches between the most efficient wireless access points. ⁽¹¹⁰⁾
Work and lifestyle	• HP Enhanced Lighting: Easily enhance brightness, color and lighting effects to look your best during video calls with integrated HP Enhanced Lighting app. • Poly Camera Pro: Elevate your video calls with AI from any camera connected to enhance virtual interactions, customizable settings and professional grade features across all collaboration and streaming apps, without sacrificing performance. ⁽¹⁰⁾ • Windows Studio Effects: Experience next generation video calls enabled by AI. Keep everyone in view with automatic framing while staying connected with eye contact. Experience better privacy with background blur and choose optional portrait effect to soften background and have an aesthetic look. • Copilot+ PC: Copilot+ PC will bring exclusive on-device AI experiences designed to accelerate productivity and creativity. ⁽⁴¹⁾ • Microsoft Copilot: Microsoft Copilot gives you intelligent answers. Access with just the touch of the Copilot key. ⁽⁴¹⁾
Gaming and entertainment	• OMEN Gaming Hub: Your one place for everything to make your gaming experience better. From software enhancements to hardware control, and live services, OMEN Gaming Hub elevates play in an easy and simple way.
Additional information	
Product number	• B5V59A#ABA
Ad embargo date	• 02/27/2025
UPC code	• 198990159096
Country of origin	• China
Pallet information	• Dimensions: 47.24 in (L/D) x 39.40 in (W) x 81.50 in (H) approx. • Total weight: 1077.00 lb approx. • Layers: 4 • Products per layer: 8 • Total products per pallet: 32

⁽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 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>. ^(2b) 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. Intel's numbering, branding and/or naming is not a measurement of higher performance. Intel, Pentium, Intel Core, Celeron, Iris X®, Intel logo and the Intel Inside logo are trademarks of Intel Corporation in the U.S. and other countries. ^(2a) Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See intel.com/technology/turboboost for more information. GHz refers to internal clock speed of the processor. Other factors besides clock speed may impact system and application performance. ⁽³⁾ Up to 512MB of main system memory may be allocated to support video graphics. ^(6a) 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⁾ McAfee is preinstalled 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 and the McAfee logo are trademarks or registered trademarks of McAfee, Inc. in the United States and other countries. ^(8a) Internet access required and not included. McAfee is preinstalled on your PC and an account is required for activation. Subscription renewal required after trial period. See website <https://www.mcafee.com/en-us/consumer-support/policy/legal.html#webtos> for cancellation, terms and offer details. ⁽¹⁰⁾ Internet service required and not included. ⁽¹⁵⁾ Actual formatted capacity is less. Portion of internal storage is reserved for preloaded content. ⁽¹⁶⁾ Part of the total system memory (RAM) is used for graphics/video performance. System memory dedicated to graphics/video performance is not available for other use by other programs. ^(18a) Currently supports translation for video and audio subtitles into English from 40+ languages. See <https://aka.ms/nextgenaicps> ^(19a) Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows 11 OS, compatible processor, and separately purchased Wi-Fi 7 router to support backwards compatibility 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. ⁽²⁰⁾ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. ⁽²²⁾ 100GB of free online storage for one year from date of registration. For complete details and terms of use, including cancellation policies, visit the website at dropbox.com. Internet service required and not included. ⁽²³⁾ HP BIOS Protection works with Windows 11 that ships with your PC. ^(25a) 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. ⁽²⁶⁾ Bluetooth® is a trademark owned by its proprietor and used by HP Inc. under license. ^(27a) See www.epeat.net for registration status and tier levels by country. ⁽²⁹⁾ Actual speeds may vary. ⁽³⁷⁾ 4K content required to view 4K images. ^(40a) Percent of active and nonactive viewing area to chassis. ⁽⁴¹⁾ Requires Windows 11. Some features require an NPU. Timing of feature delivery and availability varies by market and device. Requires Microsoft account to log in. Where Copilot is not available, the Copilot key will lead to the Bing search engine. See <http://aka.ms/WindowsAIFeatures>. ⁽⁴²⁾ USB Type-C® and USB-C® are trademarks of USB Implementers Forum. ⁽⁴³⁾ Actual throughput may vary. ⁽⁵⁰⁾ DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. ⁽⁵³⁾ Call 1.800.474.6836 or support.hp.com for more information on Care Packs available after standard warranty expires. After standard warranty expires, an incident fee may apply. ⁽⁵⁶⁾ For more information visit hp.com/go/hpsupportassistant. (Link will vary outside of the U.S.) HP Support Assistant is only available on Windows-based PCs. Internet connection required for updating and connecting to HP Support. ⁽⁶⁰⁾ Xbox Game Pass sold separately. Credit card required. Unless you cancel, you will be charged the then-current regular membership rate when the promotional period ends. Terms, exclusions, and streaming limits apply. Xbox Cloud Gaming (Beta): select devices and regions. After term, active membership required to play games and online multiplayer. Game catalog varies over time, region, and by device. DLC sold separately; if a game is removed from catalog or your membership ends, you will need to purchase the game separately to use your DLC. If you're already an Xbox Live Gold and/or Game Pass for Console/PC member, any days remaining in your membership/s will be converted to Ultimate using a conversion ratio. Future code redemptions also subject to conversion ratio. All conversions to Ultimate are final. Details and system requirements at xbox.com/gamepass. Offer valid in all Xbox Game Pass markets excluding Russia. Digital Direct: Your digital content will be delivered directly to your device during set-up; no codes required. PC Game Pass: Subscription continues automatically at regular monthly price unless cancelled. Subject to xbox.com/subscriptionterms. ⁽⁶¹⁾ The Flicker-free capability is eliminating screen flickering through integrating DC-dimming LED backlights or LED emissions. OLED panel is functional with DC-DIMMING when above 100nits. ⁽⁶²⁾ ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency. ⁽⁷⁹⁾ Weight and system dimensions may fluctuate due to configuration and manufacturing variances. ⁽⁷⁷⁾ See URL for more details. <https://learn.microsoft.com/en-us/windows-hardware/design/device-experiences/sensors-presence-sensing> ⁽⁷⁹⁾ Requires a HP next gen AI PC with a NPU supporting 40-60 TOPS 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. Five (5) library 100MB limit each, supported files may vary and at launch include pdf, txt, .docx files. ^(88a) 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 transferable. 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. ⁽⁸⁹⁾ Features may require software or other 3rd party applications to provide the described functionality. Internet service required and not included. ^(89a) Camera resolution refers to the image sensor active pixels. The actual image capture pixels and aspect ratio depend on the app selected. Actual product may vary from image shown on datasheet. © Copyright 2025 HP Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing shall be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein. 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