Datasheet

HP OmniStudio X All-in-One 32-c0001na PC

Your ultimate all-in-one ally to take on the day, your way

Conquer your most demanding tasks with the HP OmniStudio X 31.5-inch All-in-One Desktop PC and powerful Intel® Core™ Ultra Processor[1]. Enjoy immersive visuals on a 4K[2] display with ultrafast connectivity and seamlessly transition between work and play with AI-powered comfort and wellness features.



*Product image may differ from actual product

Works with you, for you, for greater productivity

Conquer any task with an Intel® Core™ Ultra Processor[1], fast connectivity, more ports and Copilot in Windows[4].

More meaningful connections and immersive visuals

Enjoy the 4K[2] display and next level calls with the 5MP camera[5] with Windows Studio Effects.

Designed with you and your wellbeing in mind

Unlock meaningful impact with AI-powered wellness features like screen distance and screen time reminders.

Sustainability in action

Designed with purpose

Designed with recycled metals[6] and recycled plastic[7]. EPEAT Gold with Climate+[8] and ENERGY STAR® certified.

with

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Featuring

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.[3]

Intel® Core™ Ultra
Experience powerful and responsive performance to help your productivity soar. Seamlessly edit, share, and enjoy fantastic 4K entertainment with lightning-fast speed.[9]

Intel® Arc™
Unleash your imagination with new Intel® Arc™ graphics solutions, hardware, software, and services. All built to help you game, create, and stream—without limits.

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° wide-viewing angles.[10]

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.

Flicker-free
Using DC Dimming technology that controls brightness by adjusting direct current rather than cycling the backlight, we can eliminate screen flickering for more comfortable viewing.[11]

PC Game Pass 3-month trial
Enjoy 3 months of PC Game Pass — free with your new HP device. With new games added all the time, there's always something new to play.[12]

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.[13]

Desktop Partition in HP Display Control
Easily drag and drop windows to move, re-size and customize how they appear on your desktop.

PCIe SSD storage
Boot up in seconds with lightning fast speed with up to 2 TB PCIe SSD storage.

USB Type-A 10Gbps signaling data rate
Plug in your external storage with this USB Type-A port, featuring 10Gbps signaling data rate.[14]

HDMI out
It's never been easier to give your device a bigger or second display. With HDMI output you can transmit HD video and sound with just one standard cable.

Dual channel memory
With dual channel technology, two channels work simultaneously to double the communication speed between the memory controller and the RAM increasing system performance.

5MP IR camera with temporal noise reduction and integrated dual array digital microphones
The high-quality-camera lets you video chat in stunning detail, at up to 2592x1944 resolution.[15]

An exceptionally rich audio experience
HP Dual Speakers and audio custom-tuned in collaboration with experts at Bang & Olufsen, bring entertainment to life with sound you can feel. Awaken your senses with PC audio perfection.

Recommended accessories and services (not included)



HP 200 Sanitizable Desk Mat
8X596AA



HP 510 Ultra-Fast Rechargeable Wireless Mouse
9C2F6AA



HP 720 Multi-Device Rechargeable Wireless Keyboard
9T5B1AA



3-year pickup and return
UC994E

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Specifications





Performance

Operating system
Windows 11 Home
Processor
Intel® Core™ Ultra 7 155H (up to 4.8 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 16 cores, 22 threads)[6,7]
Processor family: Intel® Core™ Ultra 7 processor
Neural Processing Unit (NPU): Intel® AI Boost (11 NPU TOPS)
Memory
32 GB DDR5-5600 MT/s (2 x 16 GB)
Transfer rates up to 5600 MT/s.
Memory slots: 2 SODIMM
Storage
2 TB PCIe® NVMe™ M.2 SSD
100 GB Dropbox storage for 3 months[1]
Graphics
Integrated: Intel® Arc™ Graphics;
Audio
Dual 5 W speakers; DTS:X® Ultra; Poly Studio
Display
80.01 cm (31.5") diagonal, 4K UHD (3840 x 2160), IPS, three-sided micro-edge, anti-glare, 550 nits, 95% DCI-P3[15]
Screen-to-body ratio
93.88%[5]
Power
280 W 80 Plus Platinum certified power supply;

Connectivity

Network interface
Realtek RTL8125BGH-CG 10/100/1000/2500 GbE NIC
Wireless connectivity
Intel® Wi-Fi 7 BE200 (2x2) and Bluetooth® 5.4 wireless card, non-vPro® [12]
Ports
Side:
1 USB Type-C® 10Gbps signaling rate; 2 USB Type-A 10Gbps signaling rate
Rear:
2 USB Type-A 10Gbps signaling rate; 1 headphone/microphone combo; 1 RJ-45; 1 USB Type-C® 20Gbps signaling rate (DisplayPort™ 1.4 in/out)
Video connectors
1 HDMI-out 1.4; 1 HDMI-in 2.1
Expansion slots
2 M.2 (1 for SSD, 1 for WLAN)
Webcam
5MP IR camera with 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 45% post-consumer recycled plastic[40,41]

Design

Product color
Meteor silver
Water base paint

Software

HP apps
HP Audio Switch; HP Connection Optimizer; HP Display Control; HP Support Assistant; HP Enhanced Lighting; myHP
Software
Windows Studio Effects; Otter.ai; Copilot in Windows with Copilot key; 1 month trial for new Microsoft 365 customers[24,49,50]
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: A9DM2EA #ABU
UPC/EAN code: 198415945082
Weight
9.56 kg;
Packed: 16.6 kg
Dimensions
71.48 x 20 x 56.55 cm (Height adjustable stand Max); 71.48 x 20 x 46.55 cm (Height adjustable stand Min);
Packed: 82.5 x 16.3 x 58 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 710 USB Meteor Silver Keyboard and Mouse Combo

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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. Intel's numbering, branding and/or naming is not a measurement of higher performance.
[2] Graphics output may be limited based on the maximum resolution of the display. 4K content required to view full 4K images.
[4] Requires Windows 11 and compatible processor with an NPU. Availability and features vary by market and device. Requires Microsoft account to log in. Where Copilot in Windows is not available, the Copilot key will lead to Windows Search.
[5] Camera resolution refers to the image sensor active pixels. The actual image capture pixels depend on the app and/or aspect ratio selected.
[6] 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.
[7] Percentage of post-consumer recycled plastic varies by product. Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.
[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.
[3] 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.
[9] Intel and Core are trademarks of Intel Corporation in the U.S. and other countries.
[10] 4K content required to view full 4K images.
[11] The flicker-free capability eliminates screen flickering through integrating DC-dimming LED backlights.
[12] Claim within 30 days of device activation. New and eligible returning members only. Valid payment method required. Subscription continues automatically at regular monthly price unless cancelled. Subject to xbox.com/subscriptionterms. Benefits vary by Xbox Game Pass plan. Terms and Exclusions apply. Game library varies over time, by region, device, and Xbox Game Pass plan. xbox.com/gamepass. For details on partner subscriptions included with PC Game Pass: https://www.ea.com/ea-play/, https://store.ubisoft.com/ubisoftplus/classics. In-game benefits vary by game, region, and over time. Game must be installed to access in-game benefits. Terms apply, see xbox.com/subscriptionterms for more. Excludes HP Chromebooks.
[13] ENERGY STAR and the ENERGY STAR logo are registered trademarks of the U.S. Environmental Protection Agency.
[14] Actual throughput may vary.
[15] Features may require software or other 3rd party applications to provide the described functionality. Internet service required and not included.

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 bezel area including speaker.
[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. Intel's numbering, branding and/or naming is not a measurement of higher performance.
[7] Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost/ for more information.
[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 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.
[15] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
[21] TUV Low Blue Light is the Display Compliance Test Specification quality. See https://www.certipedia.com/?locale=en#search for more details.
[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.
[28] Eyesafe® Display for Low Blue Light is the Display Compliance Test Specification quality. See https://eyesafe.com for more details.
[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.
[45] The Flicker-free capability is eliminating screen flickering through integrating DC-dimming LED backlights.
[50] Copilot in Excel requires AutoSave to be enabled, meaning the file must be saved to OneDrive; it doesn't function with unsaved files. Copilot features in Outlook apply to accounts with @outlook.com, @hotmail.com, @live.com, or @msn.com email addresses and are available in Outlook.com, Outlook built into Windows, Outlook on Mac, and iOS and Android apps. AI features only available to Microsoft 365 Family subscription owner and cannot be shared; usage limits apply. Learn more Learn more Understanding AI credits - Microsoft Support . Microsoft Copilot features in Microsoft 365 are not available in China or Macao SAR.
[51] Weight and system dimensions may fluctuate due to configuration and manufacturing variances.

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