

HP OmniBook X FlipNGAI 16-ar0502na

Vibrant, flexible PC offering the best seat in the house

Whether you're creating or being entertained, the versatile HP OmniBook X Flip 16 Next Gen AI PC, with a vibrant 16" edge-to-edge touch display⁴ that can be used flipped, folded, or flat ensures that it's also the most comfortable and productive. Designed in style with recycled metal¹ and a modern backlit keyboard with large keycaps.



*Product image may differ from actual product



AI star-power

Enjoy power to create and stream with AMD Ryzen™ AI 300 series processors and NPU with up to 50 TOPS².



Designed for the spotlight

A next Gen AI PC made from sleek, recycled metal¹, featuring 4 modes—clamshell, tent, tablet, and reverse.



Bigger screen for better watching

A 16" edge-to-edge display⁴ enhances vibrancy, delivering images and colors that are crisp and high contrast.

Sustainability in action

Built for a better tomorrow

HP OmniBook X Flip 16 Next Gen AI PCs are made with recycled metals¹ and post-consumer recycled plastics³.

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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.⁴

AMD Ryzen™ AI 300 Series processors with AMD Radeon™ graphics

Unlock transformational AI PC experiences with AMD Ryzen™ AI 300 series processors. Designed for users to experience pure speed, responsiveness, and power efficient AI processing for Copilot+ PCs.⁵

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.

AMD FreeSync™ Premium Pro Technology

There are no compromises. AMD FreeSync™ Premium Pro technology means low latency, wide adaptive refresh rate ranges, low framerate compensation and brilliant pixel quality in gaming.⁶

OLED display

With display technology that lights each pixel separately, you'll get deeper blacks for richer contrast, enhanced color depth, and more power efficiency than traditional LED screens.

16 inch Eyesafe® Certified Display with a 16:10 aspect ratio

16 inch Eyesafe® Certified Display with a 16:10 aspect ratio for creating and editing content, and intuitive touchscreen technology to control your PC directly.⁷

16:10 aspect ratio

A 16:10 aspect ratio lets you see more of your content with less scrolling.

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.⁸

Variable refresh rate

Get the best performance for your creative works, while not sacrificing battery life. VRR technology allows your PC to dynamically adjust its refresh rate based on the frame rate of the content you're viewing.

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.⁹

Poly Camera Pro

Poly Camera Pro elevates your video calls with AI to enjoy crystal clear video, customizable settings and professional grade features for a truly immersive video conferencing and collaboration experience.

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.¹⁰

McAfee Online Protection 30-day trial

Secure your device with award winning antivirus and online protection. Free trial includes secure VPN for privacy and data protection when browsing on public Wi-Fi¹¹

Keyboard contains post-consumer recycled plastic

We're bringing a more thoughtful design to our keyboards by using post-consumer recycled plastic in the design.¹²

Utilizing recycled metals

HP incorporates increasing amounts of recycled, renewable, and non-virgin raw materials. Because little things make a big difference, this product includes a percentage of recycled metals in the design.¹³

Incorporating ocean-bound plastics

HP incorporates increasing amounts of recycled, renewable, and non-virgin raw materials. Built with the environment in mind, this product includes a percentage of ocean-bound plastic in the design.¹⁴

EPEAT® Gold with Climate+

With EPEAT® Gold with Climate+, you're choosing a movement towards responsibility and climate action.¹⁵

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.¹⁶

HP Fast Charge

When your laptop is low on power, no one has time to wait hours to recharge. Power down your device and go from 0 to 50% charge in approximately 45 minutes.¹⁷

Bluetooth 5.4 Wireless Card

Bluetooth® 5.4 comes with two new features that together provide seamless connectivity.¹⁸

Camera Shutter

No more unsightly tape and tacky gum to hide your private moments. Ensure your privacy and security with a visible, physical shutter that turns off your PC's camera when not in use.

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.¹⁹

1TB PCIe® Gen4 NVMe™ M.2 SSD

With high-speed data transfer, the 1 TB PCIe Gen4 NVMe M.2 SSD offers lightning fast speed and efficient storage.²⁰

DTS:X® Ultra Technology

By producing authentic, spatially accurate 3D sound through any headset, this technology offers specially tuned audio modes for different game types to provide immersion for the best entertainment experience possible.²¹

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.

Dual speakers

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

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.

Backlit keyboard

Keep going even in dimly lit rooms or aboard red-eye flights. With an illuminated keyboard, you can type comfortably in more environments.

Recommended accessories and services (not included)



HP 480 Comfort Bluetooth Mouse
8T6M3AA



HP 100 Sanitizable Mouse Pad
8X594AA



HP 720 Multi-Device Rechargeable Wireless Keyboard
9T561AA



3-year pickup and return
UM963E



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Specifications



Performance

Operating system
Windows 11 Home

Processor
AMD Ryzen™ AI 7 350 (up to 5.0 GHz max boost clock, 16 MB L3 cache, 8 cores, 16 threads)^{6,7}
Processor family: AMD Ryzen™ AI 7 processor

Chipset
AMD integrated SoC

Memory
16 GB LPDDR5x-7500 MT/s (onboard)
Transfer rates up to 7500 MT/s.
Number of User-accessible Memory Slots: 0

Storage
1 TB PCIe® Gen4 NVMe™ M.2 SSD
25 GB Dropbox storage for 12 months¹

Graphics
Integrated: AMD Radeon™ 860M Graphics;

Audio
DTS:X® Ultra; Dual speakers; HP Audio Boost; Poly Studio

Display
40.6 cm (16") diagonal, 3K (2880 x 1800), OLED, multitouch-enabled, 48-120 Hz, 0.2 ms response time, UWVA, edge-to-edge glass, micro-edge, Low Blue Light, SDR 400 nits, HDR 500 nits, 100% DCI-P3^{17,21,28}

Screen-to-body ratio
90.73%¹⁸

Power
65 W USB Type-C™ power adapter;

Battery type
4-cell, 68 Wh Li-ion polymer²³

Battery and Power
Up to 11 hours³;
Supports battery fast charge: approximately 50% in 45 minutes⁵

Maximum battery life video playback
Up to 16 hours¹⁰

Connectivity

Wireless connectivity
MediaTek Wi-Fi 7 MT7925 (2x2) and Bluetooth® 5.4 wireless card

Ports
2 USB Type-A 10Gbps signaling rate; 1 HDMI 2.1; 1 headphone/microphone combo; 1 USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1, HP Sleep and Charge); 1 USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1, HP Sleep and Charge)¹⁹

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
Ocean-bound plastic in speaker enclosure(s) and bezel; Recycled metal in cover, keyboard frame, base and hinge cap(s); Keyboard keycaps and scissors contain post-consumer recycled plastic^{39,40,41}

Design

Product color
Meteor silver

Software

HP apps
HP Support Assistant; HP Connection Optimizer; HP Enhanced Lighting; HP AI Companion

Software
Copilot in Windows with Copilot key; Poly Camera Pro; 1 month trial for new Microsoft 365 customers²⁴

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: BS8C7EA
UPC/EAN code: 199251522260

Weight
1.89 kg;
Packed: 3.23 kg

Dimensions
35.6 x 24.55 x 1.53 cm;
Packed: 8 x 42.3 x 30.3 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
Full-size, backlit, soft grey keyboard
HP Imagepad

Features
AMD FreeSync™ Premium Pro²⁹

Security management
Mic mute key; Camera privacy shutter; Trusted Platform Module (Firmware TPM) support

Sensors
Accelerometer; Gyroscope; IR thermal sensor



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Footnotes

Messaging Footnotes

¹ 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.

² 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, and other factors.

³ Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT standard for computers, IEEE 16801-2018 standard.

Display measured diagonally.

⁴ 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>.

⁵ 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, and other factors. Copilot+ in Windows 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 Microsoft in Windows is not available, the Copilot key will lead to the Bing search engine. See aka.ms/copilotpluspcs.

⁶ FreeSync Premium Pro does not require HDR capable monitors; driver can set monitor in native mode when FreeSync Premium Pro supported HDR content is detected. Otherwise, HDR content requires that the system be configured with a fully HDR-ready content chain, including: graphics card, graphics driver and application. Video content must be graded in HDR and viewed with an HDR-ready player. Windowed mode content requires operating system support. GD-162.

⁷ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. Eyesafe® Display for Low Blue Light is the Display Compliance Test Specification quality. See <https://eyesafe.com> for more details. Display measured diagonally

⁸ The flicker-free capability eliminates screen flickering through integrating DC-dimming LED backlights.

⁹ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

¹⁰ HP AI Companion is available preloaded on select HP next gen AI PCs or is available for download from the Microsoft store and 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.

¹¹ 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.

¹² Keyboard components contain post-consumer recycled plastic. Percentage of post consumer recycled contained in each component varies by product.

¹³ Laptops manufactured with recycled metal material in product cover. Percentage of recycled metal varies by product.

¹⁴ Percentage of ocean-bound plastic contained in each component varies by product.

¹⁵ EPEAT® Gold with Climate+ registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country.

¹⁶ ENERGY STAR and the ENERGY STAR logo are registered trademarks of the U.S. Environmental Protection Agency.

¹⁷ 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 Bluetooth is a trademark owned by its proprietor and used by Hewlett-Packard Company under license. Optional features sold separately or as add-on features.

¹⁹ Features may require software or other 3rd party applications to provide the described functionality. Internet service required and not included.

²⁰ For hard drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB of system disk is reserved for system recovery software.

²¹ Listening to personal stereo equipment at full volume for long periods can damage the user's hearing. To reduce the risk of hearing damage, lower the volume and amount of time listening at full volume.

Technical Specifications Footnotes

¹ 25 GB of free Dropbox storage for 12 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 don't be able to turn it back on.

³ MobileMark 25 Battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See <https://bapco.com/products/mobilemark-25/> for additional details.

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.

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.

¹⁰ Battery life tested by HP using continuous FHD video playback, 1080p (1920x1080) resolution, 150 nits brightness, system audio level at 17% 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.

¹⁷ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

¹⁸ Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk.

¹⁹ For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device.

²¹ TÜV Low Blue Light is the Display Compliance Test Specification quality. See <https://www.certipedia.com/?locale=en&search> for more details.

²³ Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.

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 16801-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.

²⁸ Eyesafe® Display for Low Blue Light is the Display Compliance Test Specification quality. See <https://eyesafe.com> for more details.

²⁹ AMD FreeSync™ /FreeSync™ Premium/FreeSync™/FreeSync™ Replay Premium Pro is enabled on FHD or higher resolution displays, with the additional requirements, such as at least 120Hz refresh rate, low framerate compensation, and HDR to support AMD FreeSync™ Premium/ FreeSync™ Premium Pro/FreeSync™ Replay. AMD Radeon Graphics and/or AMD A-Series APU-compliant monitors with DisplayPort/HDMI Adaptive-Sync required. AMD 1511 Crimson driver (or newer) required to support FreeSync over HDMI. Adaptive refresh rates vary by monitor. AMD FreeSync™ /FreeSync™ Premium/FreeSync™/FreeSync™ Replay Premium Pro technology requires AMD Radeon graphics and a display certified by AMD. See www.amd.com/freesync for complete details. GD-127 © 2023 Advanced Micro Devices, Inc. All rights reserved. AMD, the AMD Arrow logo, Radeon, FreeSync, and combinations thereof are trademarks of Advanced Micro Devices, Inc.

³⁷ Weight and system dimensions may fluctuate due to configuration and manufacturing variances.

³⁹ Percentage of ocean-bound plastic contained in each component varies by product.

⁴⁰ Laptops manufactured with recycled metal material in product cover. Percentage of recycled metal varies by product.

⁴¹ Keyboard components contain post-consumer recycled plastic. Percentage of post consumer recycled contained in each component varies by product.

⁴⁵ 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.

