HP OmniBook X FlipNGAI 16-ar0504na

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 display[4] that can be used flipped, folded, or flat ensures that it's also the most comfortable and productive. Designed in style with recycled metal[1] 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 TOPS[2].

Designed for the spotlight

A next Gen AI PC made from sleek, recycled metal[1], featuring 4 modes—clamshell, tent, tablet, and reverse.

Bigger screen for better watching

A 16" edge-to-edge display[4] 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 metals[1] and post-consumer recycled plastics[3].

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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.

IPS Panel
No matter where you stand, this screen delivers clear, vivid images with 178-degree wide-viewing angles, so everyone can get a great view.

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.[6]

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.[7]

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-Fi[8]

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.[9]

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.[10]

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.[11]

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

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.[14]

Bluetooth 5.4 Wireless Card
Bluetooth® 5.4 comes with two new features that together provide seamless connectivity.[15]

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.[16]

512 GB PCIe® Gen4 NVMe™ M.2 SSD
With high-speed data transfer, the 512 GB PCIe Gen4 NVMe M.2 SSD offers lightning fast speed and efficient storage.[17]

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.[18]

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.

USB Type-C® + Display + 40Gbps signaling rate
Power your device or connect an external display with a blazing 40Gbps signaling data rate from one impressive USB-C® port. And it's reversible, so you never have to worry about plugging in upside down.[19]

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.

Try PC Game Pass for free with your new HP device
Play hundreds of high-quality PC games with your new HP gaming device and 3 free months of PC Game Pass – including EA play. With new games added all the time, there's always something new to play.[20]

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
9T5B1AA

3-year pickup and return
UM963E

Datasheet

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Specifications

Performance

Operating system
Windows 11 Home
Processor
AMD Ryzen™ AI 5 340 (up to 4.8 GHz max boost clock, 16 MB L3 cache, 6 cores, 12 threads)[6,7]
Processor family: AMD Ryzen™ AI 5 processor
Neural Processing Unit (NPU): AMD Ryzen™ AI (50 NPU TOPS)
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
512 GB PCIe® Gen4 NVMe™ M.2 SSD
25 GB Dropbox storage for 12 months[1]
Graphics
Integrated: AMD Radeon™ 840M Graphics;
Audio
DTS:X® Ultra; Dual speakers; HP Audio Boost; Poly Studio
Display
40.6 cm (16") diagonal, 2K (1920 x 1200), multitouch-enabled, IPS, edge-to-edge glass, micro-edge, 400 nits, 62.5% sRGB[17]
Screen-to-body ratio
90.73%[18]
Power
65 W USB Type-C™ power adapter;
Battery type
4-cell, 68 Wh Li-ion polymer[23]
Battery and Power
Up to 15 hours and 45 minutes[3];
Supports battery fast charge: approximately 50% in 45 minutes[5]
Maximum battery life video playback
Up to 21 hours[10]

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 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: BS8C8EA
UPC/EAN code: 199251522284
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™[29]
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 1680.1-2018 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] The flicker-free capability eliminates screen flickering through integrating DC-dimming LED backlights.
[7] 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.
[8] 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.
[9] Keyboard components contain post-consumer recycled plastic. Percentage of post consumer recycled contained in each component varies by product.
[10] Laptops manufactured with recycled metal material in product cover. Percentage of recycled metal varies by product.
[11] Percentage of ocean-bound plastic contained in each component varies by product.
[12] EPEAT® Gold with Climate+ registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country.
[13] ENERGY STAR and the ENERGY STAR logo are registered trademarks of the U.S. Environmental Protection Agency.
[14] 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 vawy +/- 10% due to System tolerance. Available on select HP products.
[15] 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.
[16] Features may require software or other 3rd party applications to provide the described functionality. Internet service required and not included.
[17] 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.
[18] 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.
[19] Actual throughput may vary. USB Type-C® and USB-C® are trademarks of USB Implementers Forum. Display measured diagonally
[20] 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 www.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

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.
[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 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.
[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 15.11 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.

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