HP OmniBook 5 16 inch Laptop AI PC 16-af1055cl







Powerful performance, boundless creativity

Purpose-built with unwavering performance and dependable tech to power your world, your way. From creating content, getting work done, staying connected to unwinding after a long day – the OmniBook 5 has it all for you to tap into the power you need.

Product overview

- **Amp up your AI productivity:** Unlock new AI experiences with an Intel® Core™ Ultra processor. Make the most of your battery with HP Fast Charge, easily access AI with the Copilot key[41], and connect your essential devices with the USB-C® ports, all to ensure that you can work and create at home, in the studio, or on the go.
- **The wider, brighter display:** Set course on a visual adventure with the enhanced 16 inch display.[24] Enjoy your favorite content with less bezel for a greater view. Rich visuals on an expansive screen let you immerse yourself into the entertainment you love and your projects.
- **Share ideas faster from anywhere:** Stay connected, uninterrupted and in focus, and bring your creations to life for your audience as you present your ideas with the FHD camera and Windows Studio Effects.
- **Built for a better tomorrow:** EPEAT® Gold with Climate+[27a] and ENERGY STAR®[62] certified, the HP OmniBook 5 is designed using recycled metals and post-consumer ocean-bound plastics.

Key specifications

- **Operating system: Windows 11 Home[1]**
- **Processor:** Intel® Core™ Ultra 5 225U[2b]
- **NPU:** Intel® AI Boost (12 NPU TOPS)[6c]
- **Display:** 16-inch diagonal, 2K (1920 x 1200), touch, IPS, micro-edge, anti-glare
- **Memory:** 16 GB LPDDR5x-7467 MT/s (onboard)
- **Internal storage:** 1 TB PCIe® Gen4 NVMe™ M.2 SSD[15]
- **Graphics:** Intel® Graphics[14]
- **Battery life:**
  Up to 13 hours (mixed usage)[85a]
  Up to 19 hours and 15 minutes (video playback)[75]
  Up to 13 hours (wireless streaming)[80]
- **Wireless:** Wi-Fi 6 (2x2)[19e] and Bluetooth® 5.4 wireless card[25a][26]
- **Security:** Camera privacy shutter, Mic mute key
- **Camera:** HP True Vision 1080p FHD camera with temporal noise reduction and integrated dual array digital microphones[89][89b]
- **Product weight:** 3.92 lb[76]
- **Keyboard:** Full-size, backlit, soft gray keyboard with numeric keypad

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]
- **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 5 225U processor:** Experience versatility with an Intel® Core™ Ultra processor. Evolved AI that makes intelligent collaboration and creation more accessible than ever before.
- **Intel® graphics:** Enjoy vivid and immersive visuals in creative applications and gaming.
- **2K with IPS touchscreen:** Intuitive touchscreen technology with 1920 x 1200 resolution and 178-degree wide-viewing angles.
- **16:10 aspect ratio:** A 16:10 aspect ratio lets you see more of your content with less scrolling.
- **PCIe® Gen4 NVMe™ M.2 SSD:** With high-speed data transfer, the PCIe® Gen4 NVMe™ M.2 SSD offers fast speed and efficient storage.
- **HP Fast Charge:** Go from 0 to 50% charge in approximately 30 minutes.[72]
- **Effortlessly connected:** Enjoy faster speeds, improved performance and greater capacity with Wi-Fi 6 and Bluetooth® 5.4 wireless card.[19e][25a][26]
- **LPDDR5x RAM:** Get responsive performance with the power efficient LPDDR5x. Designed to support higher data rates, address next-gen memory requirements, and have longer battery life.
- **HP True Vision FHD camera:** Video chat in vibrant clarity with Full HD resolution, even in low light, and make every conversation a face-to-face experience for a better way to stay in touch.[89]
- **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.[60]

Product design

- **Camera shutter:** Ensure your privacy with a visible shutter that turns off your PC's camera.
- **Microphone mute:** Enjoy greater peace of mind with a dedicated mic mute button that you can easily activate and know it's on or off with an LED indicator light.
- **Backlit keyboard:** Work comfortably in darker environments with a full-sized keyboard and integrated numeric pad.

Created 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.

- Built with the environment in mind, this laptop is designed using sustainable materials like:
  · Ocean-bound plastic in bezel and speaker enclosures[63c]
  · Keyboard keycaps and scissor mechanism contain post-consumer recycled plastic[63j]
  · Cover, keyboard deck, side band, hinge caps made from recycled metal[63d]
- HP's outer boxes and fiber cushions used in packaging are 100% sustainably sourced and recyclable.[63e]
- ENERGY STAR® certified[62]
- EPEAT® Gold with Climate+[27a]

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 - HPSA:** Optimized to enhance your support experience. Help for your PC and HP printers whenever you need it.[56]
- **Online Support:** For technical support with this product, visit HP Customer Support at support.hp.com.[9]
- **Social Media Support:** To find solutions, ask questions, and share tips, join us on the HP Support Community at community.hp.com, on X at x.com/HPSupport, and Facebook at facebook.com/HPSupport.[9]

Extend your coverage:
- **SmartFriend, part of HP Care:** Experts are available 24/7 to handle any tech issue, on any device, from any brand. Visit hp.com/go/smartfriend to learn more or call toll-free 1-844-814-1800 to get started.[95]
- **Care Packs, part of HP Care:** Extend protection beyond the standard limited warranty. For more info, visit hp.com/go/carepack-services or call toll-free at 1-877-232-8009.[83]

Specifications

Operating system	• **Windows 11 Home**[1]
Processor	• Intel® Core™ Ultra 5 225U[2b] • 12-Core • Intel® AI Boost (12 NPU TOPS)[6c]
Processor speed	• Up to 4.8 GHz with Intel® Turbo Boost Technology[2g]
Processor cache	• 12 MB L3 cache
Memory	• 16 GB LPDDR5x-7467 MT/s (onboard)
Video graphics	• Intel® Graphics[14]
Internal storage	• 1 TB PCIe® Gen4 NVMe™ M.2 SSD[15]
Finish and features	• Top cover: glacier silver aluminum with stamping and a matte finish • Keyboard deck: glacier silver aluminum with stamping and a matte finish
Camera	• HP True Vision 1080p FHD camera with temporal noise reduction and integrated dual array digital microphones[89][89b]
Display	• 16-inch diagonal, 2K (1920 x 1200), touch, IPS, micro-edge, anti-glare, 300 nits, 62.5% sRGB[20]
Screen to body ratio	• 88.9%[40]
Wireless	• Wi-Fi 6 (2x2)[19e] and Bluetooth® 5.4 wireless card[25a][26]
Sound	• HD Audio with stereo speakers • DTS: X® Ultra
Integrated keyboard	• Full-size, backlit, soft gray keyboard with numeric keypad • HP Imagepad
External notebook ports	• 2 USB Type-C® 10Gbps signaling rate (USB Power Delivery 3.1, DisplayPort™ 1.4a, HP Sleep and Charge)[42][50][64] • 1 USB Type-A 10Gbps signaling rate • 1 USB Type-A 5Gbps signaling rate • 1 Headphone/microphone combo • 1 HDMI 2.1
Dimensions	• **Unpackaged:** 14.08 in (W) x 10.03 in (D) x 0.7 in (front) - 0.73 in (hinge) (H) • **Packaged:** 19.84 in (L) x 2.48 in (W) x 12.01 in (H)
Weight	• **Unpackaged:** 3.92 lb[76] • **Packaged:** 5.56 lb
Security	• Camera privacy shutter • Mic mute key
Power	• 3-cell, 59 Wh Li-ion polymer battery[21] • 65 W USB Type-C® power adapter[42]
Battery life	• Up to 13 hours (mixed usage)[85a] • Up to 19 hours and 15 minutes (video playback)[75] • Up to 13 hours (wireless streaming)[80]
Warranty and support	• 1-year limited hardware warranty. Additional information available at www.support.hp.com[9] • 1-year limited technical support for software and initial setup (from date of purchase)[53]

Software and technology

Help and support	• **HP Support Assistant:** Included with your computer, this free self-help tool makes it easier than ever to get help with your HP PC and printers.[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.[23]
Partner offers	• **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.[68a] • **McAfee 12-month trial:** Secure your privacy and data when browsing on public Wi-Fi with VPN, included in your free McAfee 12-month trial.[8][9] • **Dropbox cloud storage:** Store and synchronize your content online with Dropbox. Get 100GB of storage for 90 days to access, manage, and share your photos, music, and files from anywhere with Internet access.[9][22] • **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]
System performance	• **HP Connection Optimizer:** Get consistent and reliable Wi-Fi performance with software that automatically switches between the most efficient wireless access points.[9]
Work and lifestyle	• **Microsoft Copilot:** Microsoft Copilot gives you intelligent answers. Access with just the touch of the Copilot key.[41] • **AI Noise reduction:** Enjoy clearer team conversations with AI Noise reduction. Using artificial intelligence, it filters out background noise in multi-person environments and captures multidirectional sound with spatial awareness. • **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.
Gaming and entertainment	• **DTS: X® Ultra technology:** By producing authentic, spatially accurate 3D sound, this technology gives games, movies, and music a level of depth and immersion for the best entertainment experience possible. • **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	• B97M4UA#ABA
Ad embargo date	• 04/27/2025
UPC Code	• 198990695037
Country of origin	• China, Vietnam
Pallet information	• **Dimensions:** 47.24 in (L) x 39.37 in (W) x 42.53 in (H) • **Total weight:** 568 lb • **Layers:** 3 • **Products per layer:** 32

Learn more at hp.com

[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 Xᵉ, Intel logo and the Intel Inside logo are trademarks of Intel Corporation in the U.S. and other countries. [2g] 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. [6c] 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. [9] Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. [14] Shared video memory (UMA) uses part of the total system memory for video performance. System memory dedicated to video performance is not available for other use by other programs. [15] Actual formatted capacity is less. Portion of internal storage is reserved for preloaded content. [19e] 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. Only available in countries where Wi-Fi 6 is supported. [20] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. [21] 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. [22] 100GB of free online storage for 90 days 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. [24] Display measured diagonally. [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. [40] Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk. [41] Copilot key feature availability varies by market, see aka.ms/keysupport. Copilot is NOT available in China, Russia, Belarus, and embargoed regions Cuba, Iran, North Korea, Crimea. [42] USB Type-C® and USB-C® are trademarks of USB Implementers Forum. [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] Subscription continues automatically at regular monthly price unless cancelled. Subject to xbox.com/subscriptionterms. Terms and exclusions apply. Game catalog varies over time, by region, and by device. All rights reserved. Xbox.com/pcgamepass, ea.com/ea-play/terms. Three month trial for devices purchased after October 2024. Microsoft account required. Offers available in select regions only. Credit card required. After promotional period, subscription automatically continues at the then-current regular price (subject to change), unless cancelled, plus applicable taxes. For cancellation details, see xbox.com/cancel. For complete details see terms and conditions xbox.com/en-US/xbox-game-pass?msockid=3f8c879b624a6bb10ac4924e63d86a01. [62] ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency. [63c] Percentage of ocean-bound plastic contained in each component varies by product. [63d] Percentage of recycled metal varies by product. [63e] 100% outer box/corrugate cushion packaging made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic material. Excludes plastic bags and plastic foam sheeting. [63j] Keyboard components contain post-consumer recycled plastic. Percentage of post consumer recycled contained in each component varies by product. [64] For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device. [72] Recharges your battery up to 50% within 30 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. [75] Battery life tested by HP using continuous FHD video playback, 1080p (1920x1080) resolution, 200 nits brightness, system audio level 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. [76] Weight and system dimensions may fluctuate due to configuration and manufacturing variances. [80] Battery life tested by HP using continuous Netflix video playback, Microsoft Edge Browser, 200 nits brightness, system audio level as image default, headphone attached or through speaker (if no audio jack port), played full-screen, wireless on. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage. [83] Service levels and response times for Care Packs may vary depending on your geographic location. Restrictions and limitations apply. Service starts at date of hardware purchase. HP Care Packs are sold separately. For details, visit hp.com/go/carepack-services. [85a] 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 bapco.com/products/mobilemark-25/ for additional details. [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 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. [89] Features may require software or other 3rd party applications to provide the described functionality. Internet service required and not included. [89b] Camera resolution refers to the image sensor active pixels. The actual image capture pixels and aspect ratio depend on the app selected. [95] HP SmartFriend will support any major brand of computer and tablet running Microsoft Windows, OSX, iOS, Android, and Chrome OS. 24x7 support is available in English and in the US & Canada (excluding the Province of Quebec) only. Service availability varies by country/region. Internet connection required for remote support. Remote support not available for tablets. Not all service plans cover support for tablets. HP SmartFriend sold separately or as an add-on feature. 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. 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