Datasheet

HP OmniBook 5 Laptop Next Gen AI 14-hh0500sa

Feature packed for your everyday

Built for life on the move, the HP OmniBook 5 14” Next Gen AI PC delivers powerful, responsive performance. Enjoy lifelike OLED visuals and advanced multitasking features. With a slim aluminum design and all-day battery, it’s perfect for work, study, streaming, and staying connected wherever life takes you.



*Product image may differ from actual product

Experience true-to-life colors

Experience incredible OLED visuals that deliver deep blacks, vibrant colors, and stunning contrast.

Do more, charge less

Enjoy AI-boosted performance anywhere with Intel® Core™ Ultra processor[1] and all-day battery life.

Slim meets function

Sleek and portable with essential ports and proven HP quality for life on-the-go.

Sustainability in action

Designed with purpose

Contains at least 80% recycled aluminum in the cover[2].

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Featuring

Windows is fast, powerful, and secure
Windows 11 is fast, powerful, and secure, giving you a dependable foundation to work, create, and stay protected every day.[3]

Intel® Core™ Ultra 5 Series 3 processor
No tradeoffs. Intel® Core™ Ultra Series 3 processors deliver what matters: incredible battery life, powerful performance, and built-in graphics and AI to revolutionize how you create, game, and work anywhere. Feel the power of Intel Inside®.[4]

Intel® Graphics
Stream your favorite shows, hop on video calls, and scroll through photo edits. All with smooth, responsive visuals. Built-in Intel® Graphics handle everyday entertainment and multitasking with ease, no extra GPU, no extra bulk.[5]

100% DCI-P3
With 100% DCI-P3, experience a wider color range and cinema-grade visuals—richer reds, deeper greens, and vibrant color that elevates movies, photos, and creative work.[6]

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

2K OLED
Experience rich colors and crisp visuals for your everday productivity with an OLED display, 1920x1200 resolution, and up to 300 nits of brightness.[7]

Brilliant BrightView panel
Perfect for an ideal indoor experience, get a bright, clear picture for all your videos, photos, and documents.

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.[8]

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.[9]

Keyboard contains post-consumer recycled plastic
We're bringing a more thoughtful design to our keyboards by using post-consumer recycled plastic setting a value chain in motion: capturing waste, recovering critical materials, and transforming them into new, high-quality products.[10]

Recycled aluminum
This laptop design includes recycled aluminum.[11]

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.[12]

Effortlessly connected
Enjoy faster speeds, improved performance and greater capacity with Wi-Fi 6 and Bluetooth® 5.4 wireless card.[13]

FHD IR camera with HDR auto switch, temporal noise reduction and integrated dual array digital microphones
Deliver smooth and detailed FHD video with HDR auto-switch that balances contrast and color, even in challenging backlight conditions. While the infrared sensor supports facial recognition log-in with Windows Hello.[14]

Thunderbolt™ 4 with USB Type-C®
The latest Thunderbolt™ solution lets you power your device or connect up to two 4K displays with a single cable and blazing 40Gbps signaling rate.

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

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.

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.

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.

Recommended accessories and services (not included)



HP 510 Ultra-Fast Rechargeable Wireless Mouse
9C2F6AA



HP Portable USB-C 4K HDMI Hub
BR1U3AA



HP 65W GaN Wall Charger
C90MRAA



3-year pickup and return
UM963E

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Specifications





Performance

Operating system
Windows 11 Home
Processor
Intel® Core™ Ultra 5 322 (up to 4.4 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores, 6 threads)[6,7]
Processor family: Intel® Core™ Ultra 5 processor
Neural Processing Unit (NPU): Intel® AI Boost (46 NPU TOPS)
Chipset
Intel® integrated SoC
Memory
16 GB LPDDR5x-6800 MT/s (onboard)
Transfer rates up to 6800 MT/s.
Storage
512 GB PCIe® Gen4 NVMe™ M.2 SSD
100 GB Dropbox storage for 3 months[1]
Graphics
Integrated: Intel® Graphics;
Audio
Dual speakers; HP Audio Boost; DTS:X Ultra™
Display
35.6 cm (14") diagonal, 2K (1920 x 1200), OLED, 0.2 ms response time, UWVA, micro-edge, BrightView, Low Blue Light, 300 nits, 100% DCI-P3[17,21]
Screen-to-body ratio
90%[18]
Power
65 W AC power adapter (recommended, sold separately);
Battery type
3-cell, 59 Wh Li-ion polymer[23]
Battery and Power
Up to 17 hours and 30 minutes[3];
Supports battery fast charge: approximately 50% in 45 minutes[5]
Maximum battery life video playback
Up to 29 hours and 15 minutes[10]

Connectivity

Wireless connectivity
Realtek Wi-Fi 6 (2x2) and Bluetooth® 5.4 wireless card [12,46]
Ports
1 USB Type-A 10Gbps signaling rate; 1 USB Type-A 5Gbps signaling rate; 1 HDMI-out 2.1; 1 headphone/microphone combo; 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery 3.1, DisplayPort™ 2.1, HP Sleep and Charge)[19]
Webcam
1080p FHD IR camera with HDR auto switch, 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 and base; Keyboard keycaps, scissors and keyboard plate contain post-consumer recycled materials[39,40,41]

Design

Product color
Starlit blue aluminum
Anodized cover and base finish, matte paint keyboard frame

Software

HP apps
HP Support Assistant; HP Connection Optimizer; OMEN Gaming Hub
Software
1 month trial for new Microsoft 365 customers[24,50]
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: D62DVEA #ABU
UPC/EAN code: 821844004142
Weight
1.33 kg;
Packed: 2.3 kg
Dimensions
31.2 x 21.75 x 1.36 cm;
Packed: 6.3 x 47.3 x 27.1 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, darker starlit blue keyboard
HP Imagepad
Security management
Mic mute key; Camera privacy shutter; Trusted Platform Module (Firmware TPM) support

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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. 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.
[2] Laptops manufactured with recycled metal material in product cover. Percentage of recycled metal varies by product.
[3] Battery life varies significantly by device and with settings, usage and other factors. See aka.ms/w11claims. Based on speedometer benchmark. Performance will vary significantly by device. See aka.ms/w11claims
[4] 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 is not a measurement of higher performance.
[5] For more complete information on configurations and workloads, visit www.Intel.com/PerformanceIndex.
[6] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
[7] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. Display measured diagonally
[8] 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.
[9] ENERGY STAR and the ENERGY STAR logo are registered trademarks of the U.S. Environmental Protection Agency.
[10] Keyboard components contain post-consumer recycled plastic. Percentage of post consumer recycled contained in each component varies by product.
[11] Laptops manufactured with recycled aluminum material in product cover. Percent of recycled aluminum varies by product.
[12] 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.
[13] 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. Wi-Fi 6 is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels. Wi-Fi 6 (802.11ax) is not supported in Belarus where Wi-Fi settings will be optimized to local regulatory requirements (802.11ac). 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. Bluetooth® is a trademark owned by its proprietor and used by HP Inc. under license.
[14] 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 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. 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.
[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.
[12] 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.Wi-Fi 6 is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels. Wi-Fi 6 (802.11ax) is not supported in Belarus where Wi-Fi settings will be optimized to local regulatory requirements (802.11ac).
[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. Calculated to the nearest whole percent may vary +/-0.5%.
[19] For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device.
[21] TUV 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 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.
[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.
[46] 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.
[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.
[52] Front height measurement is near the front edge where the chassis bottom cover taper begins. Back height measurement is near the back edge where the chassis bottom cover taper ends, excluding transition area to rubber feet and hinge cap.

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