

# HP OmniBook 5 LaptopAI 16-af1005nx

Create content, work on the go, and stay connected.

Bring your designs to life on the go with the HP OmniBook 5 16-inch Laptop AI PC. Powered by Intel® Core™ Ultra Processors<sup>1</sup> and featuring quick charging with HP Fast Charge<sup>2</sup>, experience seamless multitasking with less interruptions. Enjoy a stunning display, share ideas with the FHD camera<sup>3</sup>, and stay connected with all the ports you need.



\*Product image may differ from actual product



**AI powered breakthroughs everyday**

Stay productive on the go with an Intel® Core™ Ultra Processor<sup>1</sup>, HP Fast Charge<sup>2</sup> and Copilot hotkey<sup>4</sup>.



**A wider, brighter display**

Enjoy stunning visuals on a precision quality, expansive screen<sup>5</sup> ideal for both work and entertainment.



**Stay connected and share ideas effortlessly**

Join conference calls on the go with fast Wi-Fi, FHD camera<sup>3</sup>, Windows Studio Effects and AI Noise reduction.

## Sustainability in action

**Built for a better tomorrow**

The HP OmniBook 5 Laptop AI incorporates recycled materials<sup>6</sup> and is EPEAT® Gold with Climate+<sup>7</sup> certified.

# HP OmniBook 5 LaptopAI 16-af1005nx

## 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.<sup>8</sup>

### Intel® Graphics

Enjoy vivid and immersive visuals in creative applications and gaming.<sup>9</sup>

### 16:10 aspect ratio

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

### Anti-glare panel

Enjoy the sun and your favorite content with this anti-glare panel. Non-reflective and low gloss means you'll get less glare while you're outside.

### Micro Edge display

By squeezing a larger screen into a smaller frame, this ultra-thin, barely visible bezel revolutionizes your display's appearance with a beautifully efficient design.<sup>10</sup>

### 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.

### 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.<sup>11</sup>

### EPEAT® Gold with Climate+

With EPEAT® Gold with Climate+, you're choosing a movement towards responsibility and climate action.<sup>12</sup>

### 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.<sup>13</sup>

### 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.<sup>14</sup>

### Recycled aluminum

Because little things make a big difference, this laptop design includes sustainable materials like recycled aluminum.<sup>15</sup>

### Try PC Game Pass for free with your new HP device

Play hundreds of high-quality PC games with your new HP 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.<sup>16</sup>

### 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 30 minutes.<sup>17</sup>

### Wi-Fi 6E (2x2) and Bluetooth® 5.3 wireless card

Enjoy faster speeds, improved performance, greater capacity and lower latencies than earlier iterations with Wi-Fi 6E and Bluetooth® 5.3 wireless card.<sup>18</sup>

### Microphone Mute

Enjoy greater peace of mind and the convenience of a dedicated microphone mute button that you can easily activate and know it's on or off with an LED indicator light.

### 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.

### HP True Vision FHD IR camera

Log in safely through Windows Hello with the infrared sensor. With an 88-degree, wide-angle field of view, you can video chat with your entire family or group of friends in stunning detail.<sup>19</sup>

### USB Type-A 10Gbps signaling data rate

Plug in your external storage with this USB Type-A port, featuring 10Gbps signaling data rate.<sup>20</sup>

### Dual speakers

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

### Backlit keyboard with integrated numeric pad

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

### LPDDR5 RAM

Experience speedy and responsive performance with the power efficient LPDDR5 memory. Designed to support higher data rates with less latency, plus faster file transfers and application load.

## Recommended accessories and services (not included)



HP 680 Comfort Dual-Mode Keyboard and Mouse  
Combo  
8T6L6AA



HP 100 Sanitizable Mouse Pad  
8X594AA



HP Everyday 16 Odyssey Gray Laptop Backpack  
A08JXAA



3-year return to depot  
UM931E



# HP OmniBook 5 LaptopAI 16-af1005nx

## Specifications



## Performance

**Operating system**  
Windows 11 Home

**Processor**  
Intel® Core™ Ultra 5 225U (up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 12 cores, 14 threads)<sup>6,7</sup>  
Processor family: Intel® Core™ Ultra 5 processor  
Neural Processing Unit (NPU): Intel® AI Boost (12 NPU TOPS)

**Chipset**  
Intel® integrated SoC

**Memory**  
16 GB LPDDR5-7467 MT/s (onboard)  
Transfer rates up to 7467 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<sup>1</sup>

**Graphics**  
Integrated: Intel® Graphics;

**Audio**  
DTS:X® Ultra; Dual speakers; HP Audio Boost

**Display**  
40.6 cm (16") diagonal, 2K (1920 x 1200), IPS, micro-edge, anti-glare, 300 nits, 62.5% sRGB<sup>17</sup>

**Screen-to-body ratio**  
88.90%<sup>18</sup>

**Power**  
65 W USB Type-C® power adapter;

**Battery type**  
3-cell, 59 Wh Li-ion polymer<sup>23</sup>

**Battery and Power**  
Up to 13 hours<sup>3</sup>;  
Supports battery fast charge: approximately 50% in 30 minutes<sup>5</sup>

**Maximum battery life video playback**  
Up to 19 hours and 15 minutes<sup>10</sup>

## Connectivity

**Wireless connectivity**  
Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card (supporting gigabit data rate)<sup>11,12,46</sup>

**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 USB Type-C® 10Gbps signaling rate (USB Power Delivery 3.1, DisplayPort™ 1.4a, HP Sleep and Charge)<sup>19</sup>

**Webcam**  
HP True Vision 1080p FHD IR camera with temporal noise reduction and integrated dual array digital microphones

## Sustainability

**Ecolabels**  
EPEAT® Gold with Climate+<sup>27</sup>

**Energy star certified**  
ENERGY STAR® certified

**Sustainable impact specifications**  
Ocean-bound plastic in speaker enclosure(s) and bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic; Recycled metal in cover, keyboard frame, sideband and hinge cap(s)<sup>39,40,41</sup>

## Design

**Product color**  
Glacier silver aluminum  
Matte finish

## Software

**HP apps**  
HP Support Assistant; HP Connection Optimizer

**Software**  
1 month trial for new Microsoft 365 customers<sup>24</sup>

**Service & support**  
McAfee Online Protection 30-day trial; 1-month Adobe free trial offer; PC Game Pass 3-month trial<sup>2,25</sup>

## Additional information

**Part Number**  
P/N: C20W0EA #A2N  
UPC/EAN code: 199485172507

**Weight**  
1.77 kg;  
Packed: 2.52 kg

**Dimensions**  
35.77 x 25.48 x 1.79 cm (front); 35.77 x 25.48 x 1.86 cm (rear);  
Packed: 6.3 x 50.4 x 30.5 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 with numeric keypad  
HP Imagepad

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



# HP OmniBook 5 LaptopAI 16-af1005nx

## Footnotes

### Messaging Footnotes

<sup>1</sup> 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.

<sup>2</sup> 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. Available on select HP products.

<sup>3</sup> Camera resolution refers to the image sensor active pixels. The actual image capture pixels and aspect ratio depend on the app selected. Features may require software or other 3rd party applications to provide the described functionality.

<sup>4</sup> 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 Copilot is not available, the Copilot key will lead to the Bing search engine. See <http://aka.ms/WindowsAIFeatures>.

<sup>5</sup> All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

<sup>6</sup> Laptops manufactured with recycled ocean-bound plastic material in product speaker enclosures, recycled aluminum material in product cover and post-consumer recycled plastic in keycaps. Percentage of material contained in each component varies by product.

<sup>7</sup> See [www.epeat.net](http://www.epeat.net) for registration status and tier levels by country.

<sup>8</sup> 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>.

<sup>9</sup> For more complete information on configurations and workloads, visit [www.Intel.com/PerformanceIndex](http://www.Intel.com/PerformanceIndex). Intel technologies may require enabled hardware, software or service activation. No product or component can be absolutely secure. Your costs and results may vary. © Intel Corporation. Intel, the Intel logo, and other Intel marks are trademarks of Intel Corporation or its subsidiaries. Other names and brands may be claimed as the property of others.

<sup>10</sup> Display measured diagonally

<sup>11</sup> The flicker-free capability eliminates screen flickering through integrating DC-dimming LED backlights.

<sup>12</sup> EPEAT® Gold with Climate+ registered where applicable. EPEAT registration varies by country. See [www.epeat.net](http://www.epeat.net) for registration status by country.

<sup>13</sup> ENERGY STAR and the ENERGY STAR logo are registered trademarks of the U.S. Environmental Protection Agency.

<sup>14</sup> Keyboard components contain post-consumer recycled plastic. Percentage of post consumer recycled contained in each component varies by product.

<sup>15</sup> Includes recycled metal.

<sup>16</sup> PC Game Pass: Subscription continues automatically at regular monthly price unless cancelled. Subject to [xbox.com/subscriptionterms](http://xbox.com/subscriptionterms). Terms and exclusions apply. Game catalog varies over time, by region, and by device. All rights reserved. [xbox.com/pcgamepass](http://xbox.com/pcgamepass), [ea.com/ea-play/terms](http://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](http://xbox.com/cancel). For complete details see terms and conditions <https://www.xbox.com/en-US/xbox-game-pass?msocid=3f8c879b624a6bb10ac4924e63d86a01>

<sup>17</sup> 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. Available on select HP products.

<sup>18</sup> Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately. Bluetooth® 5.3 operation requires Microsoft OS/Chrome OS support. Until Microsoft OS/Chrome OS support is available, Bluetooth® 5.3 will function as Bluetooth® 5.2 or lower.

<sup>19</sup> Features may require software or other 3rd party applications to provide the described functionality.

<sup>20</sup> Actual throughput may vary.

## Technical Specifications Footnotes

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>5</sup> Recharges your battery up to 50% within 30 minutes when the system is off (using "shut down" command). Recommended for use with the HP adapter provided with the notebook, not recommended with a smaller capacity battery charger. 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. See <http://store.hp.com> for a full list of product features.

<sup>6</sup> 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.

<sup>7</sup> Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost/> for more information.

<sup>10</sup> 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.

<sup>11</sup> Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately.

<sup>12</sup> Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where 6GHz is supported.

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

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

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

<sup>23</sup> 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.

<sup>24</sup> Must activate within 180 days of Windows activation.

<sup>25</sup> 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.

<sup>27</sup> Based on U.S. EPEAT® registration according to IEEE 16801-2018 EPEAT®. EPEAT® status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information.

<sup>37</sup> Weight and system dimensions may fluctuate due to configuration and manufacturing variances.

<sup>39</sup> Percentage of ocean-bound plastic contained in each component varies by product.

<sup>40</sup> Laptops manufactured with recycled metal material in product cover. Percentage of recycled metal varies by product.

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

<sup>45</sup> 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.

<sup>46</sup> Bluetooth® 5.3 operation requires Microsoft OS/Chrome OS support. Until Microsoft OS/Chrome OS support is available, Bluetooth® 5.3 will function as Bluetooth® 5.2 or lower.

