

# HP OmniBook 5 NGAI 16-ag1002ne

Streamline your day with all the AI power you need.

Streamline your day with the HP OmniBook 5 Laptop AI PC, powered by the AMD Ryzen™ AI 300 Series Processor<sup>1</sup> and up to 50 TOPS for seamless multitasking. Create and captivate on a stunning 2K display<sup>3</sup>, stay charged with HP Fast Charge<sup>4</sup>, connect easily via USB-C, and access AI instantly with the Copilot key<sup>5</sup>.



\*Product image may differ from actual product



**AI power to multitask**

Multitask easily with this Copilot+ PC, AMD Ryzen™ AI 300 Series Processor<sup>1</sup> and a collection of solutions.



**Visuals to lose yourself in**

Enjoy a visual adventure with AMD Radeon 800M Graphics and display with less bezel and true-to-life visuals.



**Seamlessly connect on the go**

Showcase your ideas from anywhere with the FHD IR camera<sup>6</sup> with manual shutter for added privacy.

## Sustainability in action

**Built for a better tomorrow**

This PC is EPEAT® Gold with Climate+<sup>7</sup> certified and contains post-consumer ocean-bound plastics<sup>8</sup>.

# HP OmniBook 5 NGAI 16-ag1002ne

## 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>9</sup>

### 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.<sup>10</sup>

### AMD FreeSync™ technology

See and feel the difference of fluid, responsive gameplay. By synchronizing the refresh rate with your GPU, AMD FreeSync™ makes display stutter, input lag, and screen tears ancient history.<sup>11</sup>

### 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.

### 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>12</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>13</sup>

### Copilot in Windows with Copilot key

Copilot in Windows gives you intelligent answers. Access with just the touch of the Copilot key.<sup>14</sup>

### HP AI Companion

Your AI companion for instant answers and secure file analysis. Analyze sensitive files, query on the go, and seamlessly call on the intelligence of AI for all your everyday tasks.<sup>15</sup>

### EPEAT® Gold with Climate+

With EPEAT® Gold with Climate+, you're choosing a movement towards responsibility and climate action.<sup>16</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>17</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>18</sup>

### Recycled aluminum

Because little things make a big difference, this laptop design includes sustainable materials like recycled aluminum.<sup>19</sup>

### Enjoy access to over 100 PC games for 3 months<sup>1 2</sup>

Play hundreds of PC games with your new HP device and 3 months of PC Game Pass – including EA play. With new games added all the time, there's always something new to play.<sup>1 2, 20</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>21</sup>

### Effortlessly connected

Enjoy a smooth wireless experience with a Wi-Fi 6E (2x2) and Bluetooth® 5.3 combo.<sup>22</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.

### USB Type-C® Power + Display + 10Gbps signaling rate

Power your device or connect to an external display from just one USB-C® port with 10Gbps signaling rate. And it's reversible, so you never have to worry about plugging in upside down.<sup>23</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.

### 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.

## 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-inch Laptop Backpack  
A08JXAA



3-year return to depot  
U4817E



# HP OmniBook 5 NGAI 16-ag1002ne

## 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)<sup>6,7</sup>

Processor family: AMD Ryzen™ AI 7 processor

Neural Processing Unit (NPU): AMD Ryzen™ AI (50 NPU TOPS)

### Chipset

AMD integrated SoC

### Memory

24 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 months<sup>1</sup>

### Graphics

Integrated: AMD Radeon™ 860M 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 14 hours and 45 minutes<sup>3</sup>;

Supports battery fast charge: approximately 50% in 30 minutes<sup>5</sup>

### Maximum battery life video playback

Up to 16 hours and 45 minutes<sup>10</sup>

## Connectivity

### Wireless connectivity

MediaTek Wi-Fi 6E MT7922 (2x2) and Bluetooth® 5.3 wireless card <sup>11,12,46</sup>

Modern Standby (Connected);HP Extended Range Wireless LAN

### 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, DisplayPort™ 2.1, HP Sleep and Charge)<sup>19</sup>

### Webcam

HP True Vision 1080p FHD 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

Sky blue

Matte finish

## Software

### HP apps

HP Support Assistant; HP Connection Optimizer; HP AI Companion

### Software

Copilot in Windows with Copilot key;

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: BZ6B7EA #ABV

UPC/EAN code: 199251787751

### Weight

1.79 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, darker sky blue opaque keyboard with numeric keypad HP Imagepad

### Features

AMD FreeSync™<sup>29</sup>

### Security management

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



# HP OmniBook 5 NGAI 16-ag1002ne

## 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. AMD's numbering is not a measurement of clock speed.

<sup>2</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>3</sup> All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

<sup>4</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>5</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>6</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>7</sup> See [www.epeat.net](http://www.epeat.net) for registration status and tier levels by country.

<sup>8</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>9</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>10</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. 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](http://aka.ms/copilotpluspcs).

<sup>11</sup> FreeSync™ is only available when it is connected on Display Port or HDMI port. FreeSync™ is an AMD technology enabled on FHD or QHD displays and is designed to eliminate stuttering and/or tearing in games and videos by locking a display's refresh rate to the frame rate of the graphics card. Monitor, AMD Radeon™ Graphics and/or AMD A-Series APU compliant with DisplayPort™ Adaptive-Sync required. AMD Catalyst™ 15.2 Beta (or newer) required. Adaptive refresh rates vary by display.

<sup>12</sup> Display measured diagonally

<sup>13</sup> The flicker-free capability eliminates screen flickering through integrating DC-dimming LED backlights.

<sup>14</sup> Timing of feature delivery and availability varies by market and device. Requires Microsoft account to log in. See [aka.ms/copilotpluspcs](http://aka.ms/copilotpluspcs). Copilot is NOT available in China, Russia, Belarus, and embargoed regions Cuba, Iran, North Korea, Crimea

<sup>15</sup> 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.

<sup>16</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>17</sup> ENERGY STAR and the ENERGY STAR logo are registered trademarks of the U.S. Environmental Protection Agency.

<sup>18</sup> Keyboard components contain post-consumer recycled plastic. Percentage of post consumer recycled contained in each component varies by product.

<sup>19</sup> Includes recycled metal.

<sup>20</sup> 1 PC Game Pass: Subscription continues automatically at regular monthly price unless cancelled. For complete subscription terms and how to cancel, see [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).

<sup>21</sup> 3-month trial offer - Promotional offers may be for new members only and/or not be valid for all members and are only available for a limited time. Offers not valid in Russia and Turkey; other geographic restrictions may apply. Credit card and Xbox account required. After promotional period, subscription automatically continues at the then-current regular price (subject to change), unless cancelled, plus applicable taxes. To cancel your subscription or turn off recurring billing in your Microsoft account ([account.microsoft.com/services](http://account.microsoft.com/services)) or on your Xbox console, see <https://support.xbox.com/help/subscriptions-billing/manage-subscriptions/cancel-recurring-billing-or-subscription>. Purchase of Xbox Game Pass Ultimate automatically upgrades your existing Xbox Live Gold, Xbox Game Pass (PC or Console), and/or EA Play membership(s) to Xbox Game Pass Ultimate at a conversion ratio each based on days remaining. Learn how this works at [www.xbox.com/gamepass](http://www.xbox.com/gamepass). See Microsoft <https://www.xbox.com/en-US/legal/subscription-terms> for more details.

<sup>22</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>23</sup> 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 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, 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).

<sup>24</sup> Actual throughput may vary. USB Type-C® and USB-C® are trademarks of USB Implementers Forum. Display measured diagonally

## 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 don'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://bpapo.com/products/mobilemark/25/> for additional details.

<sup>4</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>5</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. AMD s numbering is not a measurement of clock speed.

<sup>6</sup> Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.

<sup>7</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>8</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>9</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>10</sup> All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

<sup>11</sup> Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk.

<sup>12</sup> For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device.

<sup>13</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>14</sup> Must activate within 180 days of Windows activation.

<sup>15</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>16</sup> Based on U.S. EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information.

<sup>17</sup> 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](http://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.

<sup>18</sup> Weight and system dimensions may fluctuate due to configuration and manufacturing variances.

<sup>19</sup> Percentage of ocean-bound plastic contained in each component varies by product.

<sup>20</sup> Laptops manufactured with recycled metal material in product cover. Percentage of recycled metal varies by product.

<sup>21</sup> Keyboard components contain post-consumer recycled plastic. Percentage of post consumer recycled contained in each component varies by product.

<sup>22</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>23</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.

