

ProductSheet  
**HP OmniBook 7 AI 16-ay0001nm (BU5Y1EA)**



**AI performance and portability with a brilliant 16" display[5].**

Tough enough to meet demanding US military-grade standard testing[1], HP OmniBook 7 16 AI PC delivers durability, performance, and portability, powered by the latest AI-enhanced Intel® Core™ Ultra Processor[2] and a brilliant 16" display[5].



**Military-grade-tested[1]. For the toughest tasks.**

Engineered and tested to withstand drops, bumps, and extreme temperatures so you can work from anywhere.

**Fits your need for power and speed.**

Delivers AI power, an all-day, fast-charging battery, and all the ports you could want

**Brilliant viewing**

A 16" display[5] delivers brilliant viewing and ultra smooth visuals

**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. [6]

**Smarter. Faster. Lighter**

Gaming, creating, AI. Do it all on Intel® Core™ Ultra processors [7]

**Anti-glare panel**

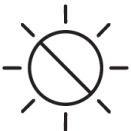
Enjoy the sun and your favorite content with this anti-glare panel. Non-reflective and low gloss means you'll get less glare while you're outside.

**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. [8]

**16 inch Eyesafe® Certified Display with a 16:10 aspect ratio**

16 inch Eyesafe® Certified Display with a 16:10 aspect ratio for creating and editing content, and intuitive touchscreen technology to control your PC directly. [9]



## Specifications

<b>Operating system</b>	Windows 11 Pro
<b>Product color</b>	Glacier silver
<b>Processor family</b>	Intel® Core™ Ultra 7 processor
<b>Processor</b>	Intel® Core™ Ultra 7 255H (up to 5.1 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 16 cores, 16 threads) [6,7]
<b>Chipset</b>	Intel® integrated SoC
<b>Memory</b>	32 GB DDR5-5600 MT/s (onboard)
<b>Internal Storage</b>	2 TB PCIe® Gen4 NVMe™ M.2 SSD
<b>Product design</b>	Sandblasted anodized finish
<b>Graphics</b>	Integrated
<b>Graphics (integrated)</b>	Intel® Arc™ 140T GPU
<b>Display</b>	40.6 cm (16") diagonal, WQXGA (2560 x 1600), 60-240 Hz, 3 ms response time, IPS, micro-edge, anti-glare, Low Blue Light, 500 nits, 100% sRGB
<b>Display</b>	16" diagonal, WQXGA (2560 x 1600), 60-240 Hz, 3 ms response time, IPS, micro-edge, anti-glare, Low Blue Light, 500 nits, 100% sRGB
<b>Display size (diagonal)</b>	40.6 cm (16")
<b>Display size (diagonal)</b>	16"
<b>Audio</b>	DTS:X® Ultra; Dual speakers; HP Audio Boost; Poly Studio
<b>Dimensions (W x D x H)</b>	35.78 x 25.48 x 1.5 cm
<b>Dimensions (W x D x H)</b>	14.09 x 10.03 x 0.59 in
<b>Weight</b>	1.91 kg
<b>Weight</b>	4.23 lb
<b>Keyboard</b>	Full-size, backlit, soft grey keyboard with numeric keypad
<b>Pointing device</b>	HP Imagepad
<b>Camera</b>	5MP IR camera with temporal noise reduction and integrated dual array digital microphones
<b>Ports</b>	1 USB Type-A 10Gbps signaling rate; 1 USB Type-A 5Gbps signaling rate; 1 HDMI-out 2.1; 1 headphone/microphone combo; 1 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery 3.1, DisplayPort™ 2.1, HP Sleep and Charge); 1 USB Type-C® 10Gbps signaling rate (USB Power Delivery 3.1, DisplayPort™ 1.4a, HP Sleep and Charge) <sup>[19]</sup>
<b>Expansion slots</b>	2 M.2 (SSD)
<b>Package dimensions (W x D x H)</b>	8 x 42.3 x 30.3 cm
<b>Package weight</b>	3.42 kg
<b>Wireless</b>	Intel® Wi-Fi 7 BE201 (2x2) and Bluetooth® 5.4 wireless card <sup>[12,46]</sup>
<b>Power supply type</b>	100 W USB Type-C® power adapter
<b>Battery type</b>	4-cell, 70 Wh Li-ion polymer ( <sup>[23]</sup> )
<b>Battery life</b>	Up to 11 hours <sup>[3]</sup>
<b>Battery recharge time</b>	Supports battery fast charge: approximately 50% in 30 minutes <sup>[5]</sup>
<b>Energy star certified</b>	ENERGY STAR® certified
<b>Sustainable impact specifications</b>	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
<b>Security management</b>	Mic mute key; Camera privacy shutter; Trusted Platform Module (Firmware TPM) support
<b>Software included</b>	McAfee Online Protection 30-day trial
<b>Software - Productivity &amp; finance</b>	1 month trial for new Microsoft 365 customers <sup>[24]</sup>
<b>Cloud service</b>	25 GB Dropbox storage for 12 months <sup>[1]</sup>
<b>UPC number</b>	199251591815

## Top Recommended Displays, Accessories and Services

No Top Recommended Displays, Accessories and Services

## Messaging Footnotes

[1] Testing is not intended to demonstrate fitness of U.S. Department of Defense (DoD) contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.

[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. Intel'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.

[5] Display measured diagonally.

[6] 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>.

[7] 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® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost/> for more information. 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] The flicker-free capability eliminates screen flickering through integrating DC-dimming LED backlights.

[9] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. Eyesafe® Display for Low Blue Light is the Display Compliance Test Specification quality. See <https://eyesafe.com> for more details. Display measured diagonally

## 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.

[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 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.

[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.

[12] Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires Windows 11 2024, select Intel® Core™ or Intel® Core™ Ultra processor, and a Wi-Fi 7 router, sold separately. Wi-Fi 7 is backwards compatible with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported. The specification for 802.11BE is a draft specification and is not final. If the final specification differs from the draft specification, it may affect the ability of the device to communicate with other 802.11BE devices.

[19] For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device.

[24] Must activate within 180 days of Windows activation.

[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.

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