

# OMEN Gaming Laptop 17-db0002nc (A85ZHEA)



## Everything you need, nothing you don't

With the new OMEN 17, we didn't waste time loading it with features you'd never use. Instead, with an impressive 17" IPS display with 100% sRGB, new AI-enhanced AMD Ryzen™ 8000 CPUs[1] and NVIDIA® RTX™ 40 Series GPUs, as well as a 1-zone RGB numeric keyboard, it's everything you need for great gaming and nothing you don't.



### Immersion-ready display

With an impressive 17" IPS display with VRR and 100% sRGB, this is all the screen you'll need.[2]

### Next-gen AI performance

The future of gaming is here with new AI-enhanced AMD Ryzen™ 8000 Series CPUs[1] and NVIDIA® RTX™ 40 Series GPUs.

### Built for gaming, ready for anything

With a 1-zone RGB numeric keyboard and FHD camera, the new OMEN 17 is ready for anything.[3]

## 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.[5]

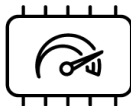


### AMD Ryzen™ 7 Processor

With 8 cores, 16 threads, and a 20 MB cache, this is a multi-threaded performance beast. The newly-designed, ultra-efficient architecture dominates even the most CPU intensive games, without issue.[1]

### Beyond Fast

NVIDIA® GeForce RTX™ 40 Series GPUs are beyond fast. Powered by the NVIDIA Ada Lovelace architecture which delivers a leap in both performance and AI-powered graphics. Experience lifelike virtual worlds with ray tracing and ultra-high FPS gaming.[6]



### 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.[7]



### Variable refresh rate

Get the best performance for your creative works, while not sacrificing battery life. VRR technology allows your PC to dynamically adjust its refresh rate based on the frame rate of the content you're viewing.

## Specifications

<b>Operating system</b>	Windows 11 Home
<b>Product color</b>	Shadow black, black chrome logo
<b>Processor family</b>	AMD Ryzen™ 7 processor
<b>Processor</b>	AMD Ryzen™ 7 8845HS (up to 5.1 GHz max boost clock, 16 MB L3 cache, 8 cores, 16 threads) <sup>[6,7]</sup>
<b>Chipset</b>	AMD integrated SoC
<b>Memory</b>	32 GB DDR5-5600 MHz RAM (2 x 16 GB)
<b>Internal Storage</b>	1 TB PCIe® Gen4 NVMe™ Performance M.2 SSD
<b>Product design</b>	Paint finish
<b>Graphics</b>	Discrete
<b>Graphics (discrete)</b>	NVIDIA® GeForce RTX™ 4070 Laptop GPU (8 GB GDDR6 dedicated)
<b>Display</b>	43.9 cm (17.3") diagonal, QHD (2560 x 1440), 48-240 Hz, 3 ms response time, IPS, micro-edge, anti-glare, Low Blue Light, 300 nits, 100% sRGB
<b>Display</b>	17.3" diagonal, QHD (2560 x 1440), 48-240 Hz, 3 ms response time, IPS, micro-edge, anti-glare, Low Blue Light, 300 nits, 100% sRGB <sup>[17,21,28]</sup>
<b>Display size (diagonal)</b>	43.9 cm (17.3")
<b>Display size (diagonal)</b>	17.3"
<b>Audio</b>	HyperX; Dual speakers; DTS:X® Ultra; HP Audio Boost
<b>Minimum dimensions (W x D x H)</b>	39.75 x 27.79 x 2.75 cm (front); 39.75 x 27.79 x 3 cm (rear)
<b>Weight</b>	2.95 kg
<b>Keyboard</b>	Full-size, 1-zone RGB backlit, shadow black keyboard with numeric keypad
<b>Pointing device</b>	HP Imagepad; Precision Touchpad support
<b>Input devices</b>	IR thermal sensor
<b>Camera</b>	HP True Vision 1080p FHD camera with temporal noise reduction and integrated dual array digital microphones
<b>Ports</b>	2 USB Type-A 10Gbps signaling rate; 1 USB Type-A 5Gbps signaling rate (HP Sleep and Charge); 1 AC smart pin; 1 HDMI-out 2.1; 1 headphone/microphone combo; 1 RJ-45; 1 USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4a, HP Sleep and Charge) <sup>[19,42]</sup>
<b>Package dimensions (W x D x H)</b>	9.4 x 46.1 x 33.2 cm
<b>Package weight</b>	4.64 kg
<b>Network interface</b>	Integrated 10/100/1000 GbE LAN
<b>Wireless</b>	MediaTek Wi-Fi 6E MT7922 (2x2) and Bluetooth® 5.3 wireless card <sup>[12,46]</sup>
<b>Power supply type</b>	230 W AC power adapter
<b>Battery type</b>	6-cell, 83 Wh Li-ion polymer ( <i>[23]</i> )
<b>Battery life</b>	Up to 6 hours and 45 minutes <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>Special features</b>	AMD FreeSync™ Premium <sup>[29]</sup>
<b>Sustainable impact specifications</b>	Ocean-bound plastic in speaker enclosure(s) and bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic
<b>Security management</b>	Camera privacy shutter; Trusted Platform Module (Firmware TPM) support
<b>Pre-installed software</b>	Copilot in Windows with Copilot key
<b>Software included</b>	1-month Adobe free trial offer; Xbox Game Pass 1-month free 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>	198415762283
<b>Manufacturer Warranty</b>	2 year (2/2/0) limited warranty includes 2 years of parts and labor. No on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

## Top Recommended Displays, Accessories and Services

No Top Recommended Displays, Accessories and Services

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

[2] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

[3] Camera resolution refers to the image sensor active pixels. The actual image capture pixels and aspect ratio depend on the app selected.

[5] 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>.

[6] ©2024 NVIDIA Corporation. NVIDIA, the NVIDIA logo, GeForce, and GeForce RTX are registered trademarks and/or trademarks of NVIDIA Corporation in the United States and other countries. All other trademarks and copyrights are the property of their respective owners.

[7] 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.

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

[7] Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.

[12] 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.

[17] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

[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.

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

[28] Eyesafe® Display for Low Blue Light is the Display Compliance Test Specification quality. See <https://eyesafe.com> for more details.

[29] FreeSync™ is only available when it is connected on Display Port or HDMI port. FreeSync is an AMD technology is 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.

[42] For optimal performance and battery chargeability while gaming and rendering, use the power adapter that ships with the PC. You can use the 100W/20V Type-C adapter or power bank when running light loading tasks. System-off charging is only supported on 20V Type-C adapter or power bank.

[46] 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.

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