

OMEN 35L Gaming Desktop GT16-1002na PC

Your gaming performance awaits

The OMEN 35L Gaming Desktop PC unlocks your performance potential. It features the latest AMD Ryzen™ Processor¹ and advanced graphics, with OMEN branded components optimized for peak thermal capabilities and power. Designed for easy tool-less upgradeability and personalization to suit your gaming needs.



*Product image may differ from actual product



Optimized for performance

Play to your highest potential with a design that is optimized for performance.



Futureproof, tool-less design

Designed for upgradability with OMEN Components, expand and customize within an industry-standard form factor.



Make it your own

Customize performance and aRGB options with OMEN Gaming Hub.

Sustainability in action

We're in this together

It matters. With 100% recyclable packaging solutions², at least 20% recycled plastic content³ and 10% recycled metal⁴, we are in this together.

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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

Surpass Ordinary Play Extraordinary

Discover your greatness with the AMD Ryzen™ 9000 Series pushing gaming and content creation to the next level with ‘Zen 5’ architecture and AMD EXPO, making one-touch memory overclocking simple for the best possible experience.⁷

Game Changer

Powered by NVIDIA Blackwell, GeForce RTX™ 50 Series GPUs bring game-changing AI capabilities to gamers and creators. Multiply performance with NVIDIA DLSS 4, generate images at unprecedented speed, and unleash your creativity with NVIDIA Studio.⁵

PCIe NVMe™ M.2 SSD storage

Boot up in seconds with lightning fast speed with up to 2 TB PCIe NVMe™ M.2 SSD storage.

DTS Headphone: X Technology

By producing authentic, spatially accurate 3D sound through any headphones or earbuds, this technology gives games, movies, and music a level of depth and immersion for the best entertainment experience possible.⁸

USB Type-C® 10Gbps signaling data rate

Plug in your external storage with this USB Type-C® port, featuring 10Gbps signaling data rate. And it's reversible, so you never have to worry about plugging in upside down.⁹

Ethernet port

When you have a spotty wireless connection, you can quickly plug in your Ethernet cable to get a smooth, wired Internet experience that bypasses any wireless issue.

HP USB Sleep and Charge

With a special USB connector designed to always have power, you can charge your smartphone, tablet, and other devices from your laptop while it's asleep or hibernating.¹⁰

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.¹¹

Kingston FURY DDR5 Memory

With up to 64GB of fast Kingston FURY DDR5 Heatsink RAM, everything from multitasking to playing games gets a performance boost.

Effortlessly connected

Enjoy a smoother wireless experience with a Wi-Fi 7 and Bluetooth® 5.4 combo.¹²

Sustainable design

Because little things make a big difference, this product includes sustainable materials like water-based paint in the design.¹³

240 mm LCD liquid cooler

Refine your PC's cooling system with optimal heat dissipation and dynamic LCD lighting effects through OGH.

Up to 1000 W 80 Plus Gold certified ATX power supply

Up to 1000 W, 80 Plus Gold certified PSU, ensuring high energy efficiency and ATX system compatibility

OMEN Gaming Hub

OMEN Gaming Hub is your one place for everything to make your gaming experience better. From software enhancements to hardware control, and live services, OMEN Gaming Hub elevates play in easy and simple way.

Recommended accessories and services (not included)



HyperX Pulsefire Haste 2 - Wireless Gaming Mouse
(Black)
6N0B0AA



HyperX Cloud III Wireless - Gaming Headset
77Z46AA



HyperX Alloy Rise - Gaming Keyboards
7G7A3AA



3-year pickup and return
UC994E



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Specifications



Performance

Operating system
Windows 11 Home

Processor
AMD Ryzen™ 9 9900X3D (up to 5.5 GHz max boost clock, 128 MB L3 cache, 12 cores, 24 threads)^{6,7}
Processor family: AMD Ryzen™ 9 processor

Chipset
AMD B850

Memory
Kingston FURY 64GB DDR5-6000 MT/s EXPO™ RGB Heatsink (2 x 32 GB)
Transfer rates up to 6000 MT/s.
Memory slots: 4 DIMM
Maximum memory: Supports up to 128 GB max system memory

Storage
2 TB PCIe® Gen4 NVMe™ Performance M.2 SSD
100 GB Dropbox storage for 3 months¹

Graphics
Discrete: NVIDIA® GeForce RTX™ 5080 (16 GB GDDR7 dedicated);

Audio
5.1 surround sound; OMEN Audio Control DTS Headphone:X™ support

Power
1000 W 80 Plus Gold certified ATX power supply;

System coolers
240 mm LCD liquid cooler;

Connectivity

Network interface
Realtek RTL8125BGH-CG 10/100/1000/2500 GbE NIC

Wireless connectivity
MediaTek Wi-Fi 7 MT7925 (2x2) and Bluetooth® 5.4 wireless card ¹²

Ports
Top:
1 USB Type-C® 10Gbps signaling rate (HP Sleep and Charge); 2 USB Type-A 5Gbps signaling rate (HP Sleep and Charge); 1 headphone/microphone combo^{19,52}
Rear:
1 USB Type-C® 10Gbps signaling rate (DisplayPort™ 1.4); 1 USB Type-C® 10Gbps signaling rate; 2 USB Type-A 5Gbps signaling rate; 4 USB 2.0 Type-A; 1 3.5 mm audio jack; 1 RJ-45

Video connectors
1 HDMI 2.1b; 3 DisplayPort™ 2.1b

Expansion slots
1 PCIe x16; 1 PCIe x4; 3 M.2 (2 for SSD, 1 for WLAN)

Sustainability

Sustainable impact specifications
Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; 20% post-consumer recycled plastic; Water based paint; 10% recycled metal; LDPE bag contains 30% recycled plastic^{40,41}

Design

Product color
Shadow black metal
Textured finish

Software

HP apps
HP Connection Optimizer; HP Support Assistant; OMEN Gaming Hub

Software
Otter.ai;
McAfee Online Protection 1-year subscription²;
1 month trial for new Microsoft 365 customers^{24,49,50}

Service & support
McAfee Online Protection 30-day trial; 1-month Adobe free trial offer; PC Game Pass 3-month trial^{2,25}
McAfee Online Protection 1-year subscription²

Additional information

Part Number
P/N: D01LHEA #ABU
UPC/EAN code: 199764796110

Weight
14.5 kg;
Packed: 18.5 kg

Dimensions
21 x 40.8 x 41 cm;
Packed: 59 x 33.2 x 58.3 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.

Security management
Padlock; Kensington Security Slot™



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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. AMD's numbering, branding and/or naming is not a measurement of higher performance.

² Recycling facilities not available in all locations.

³ Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT standard for computers, IEEE 1680.1-2018 standard.

⁴ Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.

⁵ ©2025 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.

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

⁸ Listening to personal stereo equipment at full volume for long periods can damage the user's hearing. To reduce the risk of hearing damage, lower the volume and amount of time listening at full volume.

⁹ Actual throughput may vary. USB Type-C® and USB-C® are trademarks of USB Implementers Forum.

¹⁰ For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device.

¹¹ PC Game Pass: Subscription continues automatically at regular monthly price unless cancelled. Subject to xbox.com/subscriptionterms. Terms and exclusions apply. Game catalog varies over time, by region, and by device. All rights reserved. xbox.com/pcgamepass, 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. For complete details see terms and conditions <https://www.xbox.com/en-US/xbox-game-pass?msocid=3f8c879b624a6bb10ac4924e63d86a01>

¹² Wi-Fi 7: Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows 11 OS, compatible processor, and separately purchased Wi-Fi 7 router to support backwards compatibility 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.

¹³ Percentage of water-based paint varies by product.

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 won't be able to turn it back on.

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 Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows 11 OS, compatible processor, and separately purchased Wi-Fi 7 router to support backwards compatibility with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported.

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.

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.

⁴⁰ Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.

⁴¹ Percentage of water based paint varies by product; Percentage of post-consumer recycled plastic varies by product. Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.

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.

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