OMEN MAX 45L Gaming DT GT23-0900na PC

Unmatched cooling. Untouchable performance

The OMEN MAX 45L is the best gaming desktop for gamers looking for maximum FPS. With the latest graphics cards and AMD Ryzen™ 9000 CPUs[1], a new Extreme Mode for manual overclocking, and a patented cooling system, Cryo Chamber™, built to keep your CPU ice cold, the MAX 45L is an absolute force of nature.



*Product image may differ from actual product

Market-Best performance

Easily achieve MAX performance with AMD Ryzen™ 9000 CPUs[1] and the latest graphics cards.

One-of-a-kind cooling

Thanks to MAX 45L's patented Cryo Chamber™, our CPUs are up to 7.5% cooler than leading competitors.

Welcome to MAX

Manually overclock your CPU and GPU with Extreme Mode and Advanced Performance Tuning for MAX FPS.

Sustainability in action

Designed to evolve

Built entirely from industry standard components, which means upgrading your rig has never been easier.

with OMEN McAfee™ NVIDIA GEFORCE RTX

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Featuring

Designed for the world of hybrid work.
Designed for the world of hybrid work, Windows 11 Pro can help you work more simply and seamlessly from anywhere.[2]

This Legend is Unbeatable
AMD Ryzen™ 9000X3D series opens new frontiers with “Zen 5” architecture and AMD 3D V-Cache™, powering gamers and creators with high performance boosted with AMD EXPO™ technology.[3]

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.[4]

1 TB PCIe® Gen5 NVMe™ Value M.2 SSD
With smooth data transfer, the 1 TB PCIe Gen5 NVMe M.2 SSD ensures consistent performance for everyday tasks with ample storage[5]

DTS: X® Ultra Technology
By producing authentic, spatially accurate 3D sound through any headset, this technology offers specially tuned audio modes for different game types to provide immersion for the best entertainment experience possible.[6]

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.[7]

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.

Xbox Game Pass Premium 2-month trial
Enjoy 2 months of Xbox Game Pass Premium. Free with your new HP device. Access a library of legendary, high-quality games, get exclusive in-game perks, partner discounts, and earn points annually with Xbox Rewards.[8]

Dual channel memory
With dual channel technology, two channels work simultaneously to double the communication speed between the memory controller and the RAM increasing system performance.

Effortlessly connected
Enjoy a smoother wireless experience with a Wi-Fi 7 and Bluetooth® 5.4 combo.[9]

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 Alloy Rise 75 - Gaming Keyboards
7G7A4AA



HyperX Pulsefire Haste 2 Pro - 4K Wireless Gaming Mouse
A1KY5AA



HyperX Cloud Alpha 2 - Wireless Gaming Headset
AJ5C7AA



3-year pickup and return
UC994E

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Specifications





Performance

Operating system
Windows 11 Pro
Processor
AMD Ryzen™ 7 9800X3D (up to 5.2 GHz max boost clock, 96 MB L3 cache, 8 cores, 16 threads)[6,7]
Processor family: AMD Ryzen™ 7 processor
Chipset
AMD B850
Memory
Kingston FURY 32 GB DDR5-6000 MT/s EXPO™ RGB Heatsink (2 x 16 GB)
Transfer rates up to 6000 MT/s.
Memory slots: 4 DIMM
Storage
1 TB PCIe® Gen5 NVMe™ M.2 SSD
100 GB Dropbox storage for 3 months[1]
Graphics
Discrete: NVIDIA® GeForce RTX™ 5090 (32 GB GDDR7 dedicated) ;
Audio
Omen Audio Control Support DTS:X Ultra
Power
1000 W 80 Plus Gold certified ATX 3.1 fully modular power supply;

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
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 microphone; 1 RJ-45; 1 line in; 1 line out
Video connectors
1 HDMI 2.1b;3 DisplayPort™ 2.1b
Expansion slots
3 M.2 (2 for SSD, 1 for WLAN); 1 PCIe Gen5 x16; 1 PCIe Gen4 x4

Sustainability

Sustainable impact specifications
Water based paint; At least 10% recycled metal; LDPE bag contains 30% recycled plastic; Molded paper pulp cushion inside box is made of 100% recycled or certified sources; At least 20% post-consumer recycled plastic[39,40,41]

Software

HP apps
HP Connection Optimizer; HP Support Assistant; OMEN Gaming Hub
Software
Otter.ai;
1 month trial for new Microsoft 365 customers[24]
Service & support
McAfee Online Protection 30-day trial; Xbox Game Pass Premium 2-month trial [2]

Additional information

Part Number
P/N: DQ2Z9EA #ABU
UPC/EAN code: 826581393184
Weight
22.6 kg;
Packed: 25.2 kg
Dimensions
20.4 x 47 x 55.5 cm;
Packed: 59.2 x 32.8 x 67.2 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
Chassis side cover lock

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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 is not a measurement of clock speed. Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.
[2] All other trademarks are the property of their respective owners. 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.
[3] 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.
[4] ©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.
[5] For storage drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Portion of internal storage is reserved for preloaded content.
[6] 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.
[7] Actual throughput may vary. USB Type-C® and USB-C® are trademarks of USB Implementers Forum.
[8] Subscription continues automatically at regular monthly price unless cancelled. Subject to https://www.xbox.com/legal/subscription-terms. Benefits vary by Xbox Game Pass plan. Game library varies over time, by region, device, and Xbox Game Pass plan. xbox.com/gamepass. In-game benefits vary by game, region, and over time. Game must be installed to access in-game benefits. For a list of cloud and non-cloud markets and supported regions, visit: xbox.com/regions. Terms apply, see xbox.com/gamepass for more. Excludes HP Chromebooks.
[9] 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.

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. 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.
[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.
[39] Percentage of water based paint varies by product.
[40] Recycled metal is expressed as a percentage of the total weight metal as per defined in the EPEAT criteria.
[41] Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT criteria; Packaging parts contain certified or recycled fibers and are typically recycled in your local paper/carton recycling bin, consult your local guidelines.
[51] Weight and system dimensions may fluctuate due to configuration and manufacturing variances.
[52] Please make sure the USB Charging mode is enabled in the BIOS settings to activate the "HP Sleep and Charge" feature.

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