



HyperX OMEN MAX 45L Gaming Desktop GT24-0009 PC (E09DXAA)



Overview

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 Intel® Core™ Ultra Processors [1], a new Extreme Mode for manual CPU overclocking, and a patented cooling system, Cryo Chamber™, built to keep your CPU ice cold, the MAX 45L is an absolute force of nature.



Market-Best Performance.

Easily achieve MAX performance with Intel® Core™ Ultra CPUs and the latest graphics cards.



Welcome to MAX.

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



One-of-a-Kind Cooling.

Thanks to MAX 45L's patented Cryo Chamber™ [2], our CPUs are up to 7.5% cooler than leading competitors.



Designed to Evolve.

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

Features



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.^[3]



USB Type-A 5Gbps signaling data rate

Plug in your external storage with this USB Type-A port, featuring 5Gbps signaling data rate.^[5]



Realtek Wi-Fi 7 and Bluetooth® 6.0 wireless card

Take a leap in wireless performance with new levels of increased speed and reduced latency with Wi-Fi 7. Paired with Bluetooth® 6.0.^[6]



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]



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.

[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. 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.

[2] Patented in 2022. All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. Based on HP Internal Thermal Testing by Prim95 + 3DMARK (CPU + GPU full load) at 25 degree Celsius ambient to compare CPU temperature between the 2024 OMEN 35L (86.5 degree Celsius) and 2025 OMEN MAX 45L (79 degree Celsius) pre-built testing sample. 2024 OMEN 35L configuration with AMD Ryzen™ 9 9950X3D with 240mm LCS, NVIDIA GeForce RTX 5080, DDR5 6000 64GB, 2TB SSD x2, 1200W PSU. 2025 OMEN MAX 45L with AMD Ryzen™ 9 9950X3D with 240mm LCS, NVIDIA GeForce RTX 5080, DDR5 6000 64GB, 2TB SSD x2, 1200W PSU.

[3] 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>.

[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] Actual throughput may vary.

[6] Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 is backwards compatible with prior Wi-Fi 6E specs. Bluetooth® is a trademark owned by Bluetooth SIG inc. and used by HP Inc. under license.

Specifications

Form Factor	microATX
Operating System Software	Windows 11 Home
Product Color Description (fixed)	Shadow black
Processor Family	Intel® Core™ Ultra 9 processor
Processor Name	Intel® Core™ Ultra 9 285K (up to 5.7 GHz with Intel® Turbo Boost Technology, 36 MB L3 cache, 24 cores, 24 threads) ^[6,7]
Chipset	Intel® Z890
Standard Memory Description 01	Kingston FURY 64 GB DDR5-6000 MT/s XMP RGB Heatsink (2 x 32 GB)
Memory Slots	4 DIMM
Hard Drive Description (01)	2 TB PCIe® Gen4 NVMe™ M.2 SSD
Product Design	Textured finish
Graphics Card Segment 02	Discrete
GScardseg 02 Available Card 01	NVIDIA® GeForce RTX™ 5090 (32 GB GDDR7 dedicated)
Graphics Card Segment 01	Integrated
GScardseg 01 Available Card 01	Intel® Graphics
Audio Features	Omen Audio Control Support DTS:X Ultra; 5.1 Channel audio support
Product Dimensions (metric)	20.4 x 47 x 55.5 cm
Product Dimensions (imperial)	8.03 x 18.5 x 21.85 in
Weight (metric)	22.6 kg
Weight (imperial)	49.82 lb
Video Connectors	1 HDMI 2.1b;3 DisplayPort™ 2.1b
External I/O Ports	2 USB Type-A 5Gbps signaling rate (HP Sleep and Charge); 1 headphone/microphone combo; 2 USB 2.0 Type-A (HP Sleep and Charge) ^[19]
Expansion Slots	3 M.2 (2 for SSD, 1 for WLAN); 1 PCIe Gen4 x4; 1 PCIe Gen5 x4
External I/O Ports 02	1 USB Type-C® 10Gbps signaling rate; 2 USB Type-A 5Gbps signaling rate (charging); 4 USB 2.0 Type-A; 1 microphone; 1 RJ-45; 1 microphone-in; 1 line in; 1 line out; 1 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (DisplayPort™ 2.1)
Package Dimensions (metric)	59.2 x 32.8 x 67.2 cm
Package Weight (metric)	25.2 kg
Network Interface	Realtek RTL8125BGH-CG 10/100/1000/2500 GbE NIC
Wireless Technologies	Realtek Wi-Fi 7 (2x2) and Bluetooth® 6.0 wireless card ^[12,46]
Energy Star Certified	ENERGY STAR® certified

Sustainability 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
Security Management	Kensington Security lock slot; Padlock
Software Included	McAfee Online Protection 30-day trial
Software - Productivity & Finance	1 month trial for new Microsoft 365 customers ^[24,49,50]
Cloud Service	100 GB Dropbox storage for 3 months ^[1]
UPC Number	881767026430

Additional specifications

Bluetooth Version	Bluetooth® 6.0
Color	Shadow black glass
DisplayPort™	3
DisplayPort™ version	2.1b
ECC Memory	non-ECC
Ecolabels	EPEAT® Silver with Climate+; EPEAT® Gold with Climate+
Ethernet (RJ-45)	1
Graphics Discrete Brand	NVIDIA®
Graphics Discrete Family	GeForce
Graphics Discrete Memory Size	32
Graphics Discrete Memory Size UOM	GB
Graphics Discrete Memory Type	GDDR7
Graphics Discrete Model Number	RTX™ 5090
HDMI version	2.1b
HDMI –out	1
Headphone/microphone combo	1
I/O Port Location 01	Top
I/O Port Location 02	Rear
Maximum Memory	Supports up to 128 GB max system memory
Memory Brand	Kingston FURY
Memory Layout (Slots & Size)	2 x 32 GB
Memory Lighting	RGB
Memory Module Type	UDIMM
Memory Profile Technology	XMP
Memory Size	64
Memory Size UOM	GB
Memory Slots Number	2
Memory Speed	6000
Memory Speed UOM	MT/s
Memory Storage Simplified	64 GB memory;2 TB SSD storage
Memory Type	DDR5
Neural Processing Unit (NPU)	Intel® AI Boost (13 NPU TOPS)
Package Dimensions (imperial)	23.31 x 12.91 x 26.46 in

Package Weight (imperial)	55.56 lb
Processor Brand	Intel®
Processor Cache Installed	36 MB L3
Processor Core	24
Processor Family (Short)	Core™ Ultra 9
Processor Frequency Technology	Intel® Turbo Boost Technology
Processor Maximum Frequency	5.7
Processor Maximum Frequency UOM	GHz
Processor Model	285K
Processor NPU Tops	13
Processor Socket	LGA1851
Processor Threads	24
Product Brand Name	HP
Storage Capacity 01	2
Storage Capacity UOM 01	TB
Storage Form Factor 01	M.2
Storage Interface 01	PCIe® Gen 4
Storage Interface Protocol 01	NVMe™
Storage Type 01	SSD
Storage type (filter)	SSD
Thunderbolt™ 4 ports	1
UNSPSC Code	43211507
USB Type-A	10
USB Type-C	1
Wireless Antenna	2x2
Wireless Standard	Wi-Fi 7
Wireless Supplier	Realtek

[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.

[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] NOTE: Please make sure the USB Charging mode is enabled in the BIOS settings to activate the "HP Sleep and Charge" feature.

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

[46] Bluetooth® 6.0 operation requires Microsoft OS/Chrome OS support. Until Microsoft OS/Chrome OS support is available, Bluetooth® 6.0 will function as Bluetooth® 5.4 or lower.

[49] Some Windows 11 features require camera, microphone, speakers and/or advanced hardware. Check www.microsoft.com/windows and/or www.hp.com for details.

HyperX Gaming Peripherals

HyperX Earbuds

★ : Recommended

HyperX Cloud Earbuds SC

HyperX Cloud Earbuds III S Black	BN7S1AA
HyperX Cloud Earbuds III S Red	BN7S2AA

HyperX Gaming Headsets

HyperX Cloud Stinger Headsets SC

HyperX Cloud Stinger 3 Gaming Headset	BS1T5AA
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HyperX Gaming Controllers

HyperX Clutch Controllers SC

HyperX Clutch Tachi - Xbox	B11D9AA
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HyperX Gaming Keyboards

HyperX Origins 2 Keyboards SC

HyperX Origins 2 Pro 65	BN7S3AA
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Monitors

HP Home Monitors

★ : Recommended

OMEN by HP Displays

HyperX OMEN 23.8 inch FHD 180Hz Gaming Monitor - OMEN 24 G2	C2JP4AA
HyperX OMEN 23.8 inch FHD 180Hz Gaming Monitor - OMEN 24 G2	C2JP4AS
HyperX OMEN 23.8 inch FHD 180Hz Gaming Monitor - OMEN 24 G2	C2JP4E9
HyperX OMEN OLED 27 inch QHD 240Hz Gaming Monitor - OMEN OLED 27q	CH0R2AA
HyperX OMEN OLED 27 inch QHD 240Hz Gaming Monitor - OMEN OLED 27q	CH0R2AS
HyperX OMEN OLED 27 inch QHD 240Hz Gaming Monitor - OMEN OLED 27q	CH0R2E9
HyperX OMEN OLED 27 inch QHD 500Hz Gaming Monitor - OMEN OLED 27qs	BY8Z1AA
HyperX OMEN OLED 27 inch QHD 500Hz Gaming Monitor - OMEN OLED 27qs	BY8Z1AS
HyperX OMEN OLED 27 inch QHD 500Hz Gaming Monitor - OMEN OLED 27qs	BY8Z1E9
HyperX OMEN OLED 34 inch WQHD 360Hz Gaming Monitor - OMEN OLED 34	C49PPAA
HyperX OMEN OLED 34 inch WQHD 360Hz Gaming Monitor - OMEN OLED 34	C49PPAS
HyperX OMEN OLED 34 inch WQHD 360Hz Gaming Monitor - OMEN OLED 34	C49PPE9
OMEN 24.5inch FHD 360Hz Gaming Monitor - OMEN 25	BG1M4AA
OMEN 24.5inch FHD 360Hz Gaming Monitor - OMEN 25	BG1M4E9
OMEN 27 inch FHD 180Hz Gaming Monitor - OMEN 27 G2	AV4K1AA
OMEN 27 inch FHD 180Hz Gaming Monitor - OMEN 27 G2	AV4K1AS
OMEN 27 inch FHD 180Hz Gaming Monitor - OMEN 27 G2	AV4K1E9
OMEN 27 inch FHD 180Hz Gaming Monitor - OMEN 27 G2	AV4K2A6
OMEN 27 inch FHD 180Hz Gaming Monitor - OMEN 27 G2	AV4K2AA
OMEN 27 inch QHD 180Hz Gaming Monitor - OMEN 27q G2	AV4H6AA
OMEN 27 inch QHD 180Hz Gaming Monitor - OMEN 27q G2	AV4H6AS
OMEN 27 inch QHD 180Hz Gaming Monitor - OMEN 27q G2	AV4H6E9
OMEN 27 inch QHD 180Hz Gaming Monitor - OMEN 27q G2	AV4H7A6
OMEN 27 inch QHD 180Hz Gaming Monitor - OMEN 27q G2	AV4H7AA
OMEN 27 inch QHD 280Hz Gaming Monitor - OMEN 27qs G2	AW3V0AA
OMEN 27 inch QHD 280Hz Gaming Monitor - OMEN 27qs G2	AW3V0AS
OMEN 27 inch QHD 280Hz Gaming Monitor - OMEN 27qs G2	AW3V0E9
OMEN 27 inch QHD 280Hz Gaming Monitor - OMEN 27qs G2	AW3V1A6
OMEN 27 inch QHD 280Hz Gaming Monitor - OMEN 27qs G2	AW3V1AA
OMEN 34 inch WQHD 180Hz Curved Gaming Monitor - OMEN 34c G2	AV4C1AA

OMEN 34 inch WQHD 180Hz Curved Gaming Monitor - OMEN 34c G2	AV4C1AS
OMEN 34 inch WQHD 180Hz Curved Gaming Monitor - OMEN 34c G2	AV4C1E9
OMEN 34 inch WQHD 180Hz Curved Gaming Monitor - OMEN 34c G2	AV4E7A6
OMEN 34 inch WQHD 180Hz Curved Gaming Monitor - OMEN 34c G2	AV4E7AA
OMEN Transcend 31.5 inch UHD 240Hz OLED Gaming Monitor - OMEN Transcend 32	9R181AA
OMEN Transcend 31.5 inch UHD 240Hz OLED Gaming Monitor - OMEN Transcend 32	9R181E9
OMEN by HP 23.8 inch FHD 165Hz Gaming Monitor - OMEN 24	780D9AA
OMEN by HP 23.8 inch FHD 165Hz Gaming Monitor - OMEN 24	780D9AS
OMEN by HP 23.8 inch FHD 165Hz Gaming Monitor - OMEN 24	780D9E9
OMEN by HP 23.8 inch FHD 165Hz Gaming Monitor - OMEN 24	780F0A6
OMEN by HP 23.8 inch FHD 165Hz Gaming Monitor - OMEN 24	780F0AA
OMEN by HP 27 inch FHD 240Hz Gaming Monitor - OMEN 27s	780G5AA
OMEN by HP 27 inch QHD 240Hz Gaming Monitor - OMEN 27qs	780J4AA
OMEN by HP 27 inch UHD 144Hz Gaming Monitor - OMEN 27k	780G8AA
OMEN by HP 27 inch UHD 144Hz Gaming Monitor - OMEN 27k	780G8AS
OMEN by HP 27 inch UHD 144Hz Gaming Monitor - OMEN 27k	780G8E9
OMEN by HP 27 inch UHD 144Hz Gaming Monitor - OMEN 27k	780G9AA
OMEN by HP 31.5 inch QHD 165Hz Curved Gaming Monitor - OMEN 32c	780K6AA
OMEN by HP 31.5 inch QHD 165Hz Curved Gaming Monitor - OMEN 32c	780K6AS
OMEN by HP 31.5 inch QHD 165Hz Curved Gaming Monitor - OMEN 32c	780K6E9
OMEN by HP 31.5 inch QHD 165Hz Curved Gaming Monitor - OMEN 32c	780K7A6
OMEN by HP 31.5 inch QHD 165Hz Curved Gaming Monitor - OMEN 32c	780K7AA
OMEN by HP 31.5 inch QHD 165Hz Gaming Monitor - OMEN 32q	780K0AA
OMEN by HP 31.5 inch QHD 165Hz Gaming Monitor - OMEN 32q	780K0AS
OMEN by HP 31.5 inch QHD 165Hz Gaming Monitor - OMEN 32q	780K0E9
OMEN by HP 31.5 inch QHD 165Hz Gaming Monitor - OMEN 32q	780K1AA
OMEN by HP 31.5 inch UHD 144Hz Smart Gaming Monitor - OMEN 32x	99Z68AA
OMEN by HP 31.5 inch UHD 144Hz Smart Gaming Monitor - OMEN 32x	99Z68AS
OMEN by HP 31.5 inch UHD 144Hz Smart Gaming Monitor - OMEN 32x	99Z68E9
OMEN by HP 31.5 inch UHD 144Hz Smart Gaming Monitor - OMEN 32x	99Z69AA
OMEN by HP 34 inch WQHD 165Hz Curved Gaming Monitor - OMEN 34c	780K8AA

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