ProductSheet

OMEN by HP 45L Gaming Desktop GT22-3010ni (DH3D2EA)

Extremely cool inside and out

Built for extreme performance, the OMEN 45L Gaming Desktop PC is designed for gaming from the ground up. Powered by the latest Intel® Processor,[1] the OMEN by HP gaming desktop takes cooling to incredible heights with a unique cooling chamber. Created for easy tool-less upgradeability with industry standard components to meet your gaming needs.



OMEN Cryo Chamber™
Enables the liquid cooler radiator to pull-in cold air from the surrounding environment to cool down the CPU.

Crafted for expansion
Easily upgrade and expand the memory, storage drives, and interior expansion slots to fit your gaming needs.

OMEN Gaming Hub
The OMEN Gaming Hub elevates everything from software enhancements, hardware controls, to live services.

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. [4]

Take on any game and tasks with performance built for anything powered by Intel® Core™ Ultra Processors.
Improved performance for both gaming and productivity with enhanced cooling, quieter operation, and faster speeds with Intel® Core™ Ultra Processors. [5]

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. [6]

1TB PCIe® Gen4 NVMe™ M.2 SSD
With high-speed data transfer, the 1 TB PCIe Gen4 NVMe M.2 SSD offers lightning fast speed and efficient storage. [7]

USB Type-A 5Gbps signaling data rate
Plug in your external storage with this USB Type-A port, featuring 5Gbps signaling data rate. [8]

Specifications

Form factor	microATX
Operating system	Windows 11 Home Single Language in S mode
Product color	Shadow black
Product design	Textured finish
Processor family	Intel® Core™ Ultra 9 processor
Processor	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
Memory	Kingston FURY 16 GB DDR5-6000 MT/s XMP RGB Heatsink (2 x 8 GB)
Memory Slots	4 DIMM
Internal Storage	1 TB PCIe® Gen4 NVMe™ M.2 SSD
Audio	5.1 surround sound; DTS:X®
Dimensions (W x D x H)	20.4 x 47 x 55.5 cm
Weight	22.6 kg
Package dimensions (W x D x H)	59.2 x 32.8 x 67.2 cm
Package weight	25.2 kg
Video connectors	1 HDMI 2.1b;3 DisplayPort™ 2.1b
Ports	2 USB Type-A 5Gbps signaling rate (HP Sleep and Charge); 1 headphone/microphone combo; 1 microphone; 2 USB 2.0 Type-A (HP Sleep and Charge)[19,52]
Expansion slots	1 PCIe x16; 1 PCIe x4; 3 M.2 (2 PCIe x4 for SSD, 1 for WLAN)
Ports	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; 1 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (DisplayPort™ 2.1)
Network interface	Realtek RTL8125BGH-CG 10/100/1000/2500 GbE NIC
Wireless	Intel® Wi-Fi 7 BE200 (2x2) and Bluetooth® 5.4 wireless card[12,46]
Power supply type	1000 W 80 Plus Gold certified ATX 3.1 fully modular power supply
Energy star certified	ENERGY STAR® certified
Special features	Liquid cooling solution for processor
Sustainability specifications	Water based paint; Molded paper pulp cushion inside box is made of 100% recycled or certified sources; At least 10% post-consumer recycled plastic
Security management	Chassis side cover lock
Software included	1-month Adobe free trial offer; PC Game Pass 3-month trial
Software - Productivity & finance	1 month trial for new Microsoft 365 customers[24]
HP apps	HP Connection Optimizer; HP Support Assistant; OMEN Gaming Hub; HP Enhanced Lighting; myHP
Cloud service	100 GB Dropbox storage for 3 months[1]
UPC number	826581092148
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.

Top Recommended Displays, Accessories and Services

OMEN by HP Displays	
OMEN by HP 27 inch QHD 240Hz Gaming Monitor - OMEN 27qs	780J4AA
OMEN by HP 31.5 inch QHD 165Hz Curved Gaming Monitor - OMEN 32c	780K6AA
HyperX Cloud Wireless Headset SC	
HyperX Cloud III Wireless - Gaming Headset	77Z46AA
HyperX Cloud III Wireless - Gaming Headset	77Z45AA
HyperX Cloud Headsets SC	
HyperX Cloud III - Gaming Headset (Black/Red)	727A9AA
HyperX Cloud Earbuds SC	
HyperX Cloud Earbuds II RED	705L8AA
HyperX Cloud Earbuds II Black	70N24AA
HyperX USB Microphones	
HyperX QuadCast S - USB Microphone (Black-Grey) - RGB Lighting	4P5P7AA
HyperX Pulsefire Haste Mice SC	
HyperX Pulsefire Haste 2 - Wireless Gaming Mouse (Black)	6N0B0AA
HyperX Pulsefire Haste 2 - Wireless Gaming Mouse (White)	6N0A9AA
HyperX Pulsefire Haste 2 - Gaming Mouse (Black)	6N0A7AA
HyperX Alloy Origins Keyboards SC	
HyperX Alloy Origins 60 - Mechanical Gaming Keyboard - HX Red (US Layout)	4P5N4AA
HyperX Alloy Rise SC	
HyperX Alloy Rise 75 - Gaming Keyboards	7G7A4AA
HyperX Alloy Rise - Gaming Keyboards	7G7A3AA

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

[4] 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.

[5] Intel and Core are trademarks of Intel Corporation in the U.S. and other countries.

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[7] For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB of system disk is reserved for system recovery software.

[8] Actual throughput may vary.

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.

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[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.

[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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