



OMEN by HP 45L GT22-3003na Intel Core Ultra 9 285K 64 GB DDR5-SDRAM 4 TB SSD NVIDIA GeForce RTX 5090 Windows 11 Home Tower PC AI PC Black



Brand : HP

Product family: OMEN by HP

Product code: B94HJEA

Product name : OMEN by HP
45L GT22-3003na

- Intel Core Ultra 9 285K (up to 5.7 GHz with Intel Turbo Boost Technology, 36 MB L3 cache, 24 cores, 24 threads)
- Windows 11 Home
- NVIDIA GeForce RTX 5090 (32 GB GDDR7 dedicated)
- Kingston FURY 64 GB DDR5-5600 MT/s XMP RGB Heatsink (4 x 16 GB), 2 TB PCIe Gen4 NVMe Performance M.2 SSD, 2 TB PCIe Gen4 NVMe M.2 SSD
OMEN by HP 45L Gaming Desktop GT22-3003na, Windows 11 Home, Intel Core Ultra 9, 64GB RAM, 2TB SSD, 2TB SSD, NVIDIA GeForce RTX 5090, Shadow black

OMEN by HP 45L GT22-3003na Intel Core Ultra 9 285K 64 GB DDR5-SDRAM 4 TB SSD NVIDIA GeForce RTX 5090 Windows 11 Home Tower PC AI PC Black:

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.

Processor		Ports & interfaces	
Processor manufacturer *	Intel	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4
Processor family *	Intel Core Ultra 9	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
Processor generation	Intel Core Ultra (Series 2)	USB Power Delivery (USB PD)	✓
Processor model *	285K	USB4 Gen 3x2 ports quantity	1
Processor cores	24	USB Type-C DisplayPort Alternate Mode	✓
Processor threads	24	Intel® Thunderbolt 4	✓
Processor boost frequency	5.7 GHz	Thunderbolt 4 ports quantity	1
Processor frequency *	5.7 GHz	DisplayPorts quantity	3
Performance cores	8	DisplayPort version	2.1b
Efficient cores	16	HDMI ports quantity *	1
Performance-core Max Turbo Frequency	5.5 GHz	HDMI version	2.1b
Efficient-core Max Turbo Frequency	4.6 GHz	Ethernet LAN (RJ-45) ports	1
Performance-core base frequency	3.7 GHz	Combo headphone/mic port	✓
Efficient-core base frequency	3.2 GHz	Line-out	✓
Processor cache	36 MB	Line-in	✓
Processor cache type	L3	Microphone in	✓
Processor base power	125 W		
Maximum turbo power	250 W		
Neural processor unit (NPU)		Expansion slots	
Neural processor unit (NPU)	Intel AI Boost	PCI Express x4 slots	4
Sparsity support	✓	PCI Express x16 slots	1
Windows Studio effects support	✓		
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN		
Total processor performance up to	36 TOPs		
NPU performance up to	13 TOPs		
GPU performance up to	8 TOPs		
Memory		Power	
Internal memory *	64 GB	Power supply *	1200 W
Maximum internal memory *	128 GB	Power supply input voltage	100 - 240 V
		Power supply input frequency	50/60 Hz
		80 PLUS certification	80 PLUS Gold
		Design	
		Chassis type *	Tower
		Colour name	Black

Memory		Design	
Internal memory type	DDR5-SDRAM	Water cooling system	✓
Memory layout (slots x size)	4 x 16 GB	Cable lock slot	✓
Memory slots	4x DIMM	Product colour *	Black
Memory clock speed	5600 MHz	Viewing window	✓
Memory module type	UDIMM	RGB memory lighting	✓
Internal memory manufacturer	Kingston	Introduction year	2025
Storage		Country of origin	China
Total storage capacity *	4 TB	Software	
Storage media *	SSD	Operating system installed *	Windows 11 Home
Optical drive type *	✗	Pre-installed software	Otter.ai, 1 month trial for new Microsoft 365 customers, McAfee Online Protection 30-day trial; 1-month Adobe free trial offer; PC Game Pass 3-month trial
Number of storage drives installed	2		100 GB Dropbox storage for 3 months
Total SSDs capacity	4 TB	Trial software	
Number of SSDs installed	2	Processor special features	
SSD capacity	2 TB	Intel Extreme Memory Profile (XMP)	✓
SSD interface	PCI Express 4.0	Intel® Turbo Boost Technology	✓
NVMe	✓	Display	
SSD form factor	M.2	Display included *	✗
Graphics		Brand-specific features	
Discrete graphics card *	✓	HP Security tools	Chassis side cover lock
Discrete GPU manufacturer	NVIDIA	HP Software provided	HP Connection Optimizer; HP Support Assistant; OMEN Gaming Hub; HP Enhanced Lighting; myHP
On-board graphics card *	✓	HP Artificial Intelligence	AI PC
Discrete graphics card model *	NVIDIA GeForce RTX 5090	HP GTIN (EAN/UPC)	198990656281
Discrete graphics card memory	32 GB	HP segment	Home
Discrete graphics memory type	GDDR7	Audio	
Number of discrete graphics cards	1	Audio system	DTS:X Ultra
On-board GPU manufacturer	Intel	Weight & dimensions	
On-board graphics card family	Intel® Graphics	Width *	204 mm
On-board graphics card model *	Intel® Graphics	Depth *	470 mm
Performance		Height *	204 mm
Market positioning	Gaming	Weight *	22.6 kg
Motherboard chipset	Intel Z890	Packaging data	
Motherboard form factor	micro ATX	Package width	592 mm
Password protection	✓	Package depth	328 mm
Password protection type	BIOS, Power on	Package height	672 mm
Product type *	PC	Package weight	25.2 kg
Audio output channels	5.1 channels	Sustainability	
Network		Sustainability compliance	✓
Ethernet LAN *	✓	Sustainability certificates	ENERGY STAR, EPEAT
Ethernet LAN data rates	2500,10,100,1000 Mbit/s	Sustainable technologies and materials	Water based paint; Molded paper pulp cushion inside box is made of 100% recycled or certified sources; At least 10% post-consumer recycled plastic
Cabling technology	10/100/1000Base-T(X)		
Wi-Fi *	✓	Supplier features	
Top Wi-Fi standard	Wi-Fi 6E (802.11ax)	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.
Wi-Fi standards	Wi-Fi 6E (802.11ax)	Carbon footprint	
WLAN controller manufacturer	Intel	Total carbon footprint (kg of CO2e)	831.831
WLAN controller model	Intel Wi-Fi 6E AX211		
Antenna type	2x2		
Bluetooth	✓		
Bluetooth version	5.3		
Ports & interfaces			
USB 2.0 ports quantity *	6		

Carbon footprint

Carbon emissions, manufacturing (kg of CO2e)	717.511
Carbon emissions, logistics (kg of CO2e)	4.479
Carbon emissions, end-of-life (kg of CO2e)	3.309
Total carbon emissions, w/o use phase (kg of CO2e)	106.532

Technical details

General Product Safety Regulation (GPSR) URL	https://support.hp.com/us-en/document/ish_6126692-6126777-16?openCLC=true ; HP REG 23010, 08028 Barcelona, Spain ; reg@hp.com
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Other features

UNSPSC-code	43211507
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