

OMEN by HP 45L Gaming Desktop GT22-1003na PC

Extremely cool inside and out

Built for extreme performance, the OMEN by HP 45L Gaming Desktop PC is designed for gaming from the ground up. Powered by the latest Intel® Processor¹, 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.



*Product image may differ from actual product



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.

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Featuring

Get a fresh perspective

Windows 11 provides a calm and creative space where you can pursue your passions through a fresh experience. 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.²

Extend beyond performance to let your PC do even more at once

Going beyond just raw processor speed. With 13th Gen Intel® Core™ Processors, Intel advanced its hybrid design and made it even better. A faster performance core means getting dedicated tasks done faster and easier. More efficiency cores mean better multi-tasking. The same great graphics and best in-class connectivity means a fully immersive display and ultra-responsive wired and wireless connections.³

Beyond Fast

NVIDIA® GeForce RTX™ 40 Series GPUs are beyond fast. Powered by the NVIDIA Ada Lovelace architecture which delivers a leap in both performance and AI-powered graphics. Experience lifelike virtual worlds with ray tracing and ultra-high FPS gaming.⁴

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.⁵

USB Type-A 5Gbps signaling data rate

Plug in your external storage with this USB Type-A port, featuring 5Gbps signaling data rate.⁶

USB Type-C® 10Gbps signaling rate only

Plug in your external storage with this USB-C™ port, featuring 10Gb/s signaling rate. And it's reversible, so you never have to worry about plugging in upside down.⁷

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 Wi-Fi 6 (2x2) and Bluetooth® 5.0 combo, all your connections are solid and up to 3x faster file transfer speeds than Wi-Fi 5.⁸

Sustainable design

Because little things make a big difference, this product includes sustainable materials like water-based paint in the design.⁹

McAfee® LiveSafe™

Protect your operating system with a free 30-day McAfee® LiveSafe™ subscription.¹⁰

OMEN Light Studio

Control RGB lighting effects for all your connected and supported devices through one app. OMEN Light Studio makes it easy to personalize lighting options using a variety of effects like ambient, wave, interactive and more.

OMEN CRYO CHAMBER™

Experience revolutionary cooling from the patented OMEN CRYO CHAMBER™ cooling system that enables the liquid cooler radiator to channel fresh, cold air from the surrounding environment to cool down the CPU.

Liquid cooling

Hassle-free thermal management quietly and efficiently draws heat away from high-performance processors, helping to protect sensitive components from heat overload.

Recommended accessories and services (not included)



3-year pickup and return
UC994E



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Specifications



Performance

Operating system

Windows 11 Home

Processor

Intel® Core™ i9-13900K (up to 5.8 GHz with Intel® Turbo Boost Technology, 36 MB L3 cache, 24 cores, 32 threads)^{6,7}

Processor family: 13th Generation Intel® Core™ i9 processor

Chipset

Intel® Z790

Memory

Kingston FURY 32 GB DDR5-5200 MHz XMP RGB Heatsink RAM (2 x 16 GB)

Transfer rates up to 5200 MT/s.

Memory slots: 4 DIMM

Maximum memory: Supports up to 128 GB max system memory

Storage

2 TB WD Black PCIe® Gen4 TLC M.2 SSD

25 GB Dropbox storage for 12 months¹

Graphics

Discrete: NVIDIA® GeForce RTX™ 4080 (16 GB GDDR6X dedicated);

Audio

5.1 surround sound; Omen Audio Control Support DTS:X® Ultra

Display description

Display monitors sold separately. For more information please visit

www.hp.com/eur/home-monitors

Power

1200 W 80 Plus Gold certified ATX power supply;

Connectivity

Network interface

Integrated 10/100/1000 GbE LAN

Wireless connectivity

Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card (supporting gigabit data rate)^{11,12,13,16}

Ports

Front:

2 USB Type-A 5Gbps signaling rate (Battery Charging 1.2, HP Sleep and Charge); 2 USB 2.0 Type-A; 1 headphone/microphone combo; 1 microphone¹⁹

Rear:

1 USB Type-C® 10Gbps signaling rate; 1 USB Type-C® 5Gbps signaling rate; 2 USB Type-A 10Gbps signaling rate; 2 USB Type-A 5Gbps signaling rate; 2 USB 2.0 Type-A; 1 audio-in; 1 audio-out; 1 microphone; 1 RJ-45

Video connectors

1 HDMI; 3 DisplayPort™

Expansion slots

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

Sustainability

Ecolabels

EPEAT® Gold registered²⁷

Energy star certified

ENERGY STAR® certified

Sustainable impact specifications

Water based paint

Design

Product color

Black, glass side panel, dark chrome logo

Paint finish top and side covers, tempered black glass front cover

Software

HP apps

HP Connection Optimizer; HP Support Assistant; HP QuickDrop; OMEN Gaming Hub; HP Enhanced Lighting; MyHP

Software

ExpressVPN (30 day free trial); LastPass Premium (30 day free trial)¹⁷;

1 month trial for new Microsoft 365 customers²⁴

Service & support

McAfee LiveSafe™; Xbox Game Pass 1-month free trial^{2,43}

Additional information

Part Number

P/N: 7F649EA #ABU

UPC/EAN code: 197192262009

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.

Features

Liquid cooling solution for processor

Security management

Chassis side cover lock



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Footnotes

Key Selling Points 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.

Feature Messaging Footnotes

² 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. Intel's numbering is not a measurement of higher performance.

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⁵ 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.

⁶ Actual throughput may vary.

⁷ Actual throughput may vary. USB Type-C® and USB-C® are trademarks of USB Implementers Forum.

⁸ Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other Wi-Fi 6 devices. Only available in countries where 802.11ax is supported. Wi-Fi 6 (802.11ax) is not supported in Ukraine, Russia, and Indonesia where the Wi-Fi 6 (802.11ax) will be disabled and downgraded to 802.11ac by the Intel's DRS solution.

⁹ Percentage of water-based paint varies by product.

¹⁰ Internet service required and not included. Subscription required after 30 days.

Technical Specifications Footnotes

¹ 25 GB of free Dropbox storage for 12 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 Free 30 day subscription of McAfee LiveSafe service included. Internet access required and not included. Subscription required after expiration.

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.

¹¹ Wi-Fi® supporting gigabit speeds is achievable when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160 MHz channels.

¹² Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.

¹³ Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other Wi-Fi 6 devices. Only available in countries where 802.11ax is supported.

¹⁶ Wi-Fi 6 (802.11ax) is not supported in Ukraine, Russia, and Indonesia where Wi-Fi settings will be optimized to local regulatory requirements (802.11ac).

¹⁷ Reverting to LastPass basic after 30 days.

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.

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.

⁴¹ Percentage of water based paint varies by product.

⁴³ Xbox Game Pass sold separately. Credit card required. Unless you cancel, you will be charged the then-current regular membership rate when the promotional period ends. Terms, exclusions, and streaming limits apply. Xbox Cloud Gaming (Beta): select devices and regions. After term, active membership required to play games and online multiplayer. Game catalog varies over time, region, and by device. DLC sold separately; if a game is removed from catalog or your membership ends, you will need to purchase the game separately to use your DLC. If you're already an Xbox Live Gold and/or Game Pass for Console/PC member, any days remaining in your membership(s) will be converted to Ultimate using a conversion ratio. Future code redemptions also subject to conversion ratio. All conversions to Ultimate are final. Details and system requirements at www.xbox.com/gamepass. Offer valid in all Xbox Game Pass markets excluding Russia. Digital Direct: Your digital content will be delivered directly to your device during set-up; no codes required.

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