

# OMEN by HP 45L Gaming Desktop GT22-2001nj 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® Processor,<sup>1</sup> 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

### Game without compromise. Go beyond performance with Intel Core and Intel Core Ultra Processors

Be everything you want to be, in-game and out with optimized performance and new features. Play harder and work smarter with Intel Core Processors.<sup>2</sup>

### 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.<sup>3</sup>

### PCIe NVMe™ M.2 SSD storage

Boot up in seconds with lightning fast speed with up to 2 TB PCIe NVMe™ M.2 SSD storage.

### 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.<sup>4</sup>

### USB Type-A 5Gbps signaling data rate

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

### 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.<sup>6</sup>

### Kingston FURY DDR5 Memory

With up to 64GB of fast Kingston FURY DDR5 Heatsink RAM, everything from multitasking to playing games gets a performance boost.

### Wi-Fi 6E (2x2) and Bluetooth® 5.3 wireless card

Enjoy faster speeds, improved performance, greater capacity and lower latencies than earlier iterations with Wi-Fi 6E and Bluetooth® 5.3 wireless card.<sup>7</sup>

### Sustainable design

Because little things make a big difference, this product includes sustainable materials like water-based paint in the design.<sup>8</sup>

### Liquid cooling

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

### Enjoy 1-month of high-quality games

Enjoy 1-month of unlimited access to over 100 high quality PC games. With games added all the time, you'll always have something new to play.<sup>9</sup>

### 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.

## Recommended accessories and services (not included)



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## Specifications



## Performance

### Operating system

FreeDOS

### Processor

Intel® Core™ i9-14900K (up to 6.0 GHz with Intel® Turbo Boost Technology, 36 MB L3 cache, 24 cores, 32 threads)<sup>6,7</sup>

Processor family: Intel® Core™ i9 14th generation processor

### Chipset

Intel® Z790

### Memory

Kingston FURY 64 GB DDR5-5200 MHz XMP RGB Heatsink RAM (4 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

### Graphics

Discrete: NVIDIA® GeForce RTX™ 4090 (24 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](http://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)<sup>11,12,46</sup>

### 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 microphone<sup>19</sup>

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 microphone; 1 RJ-45; 1 audio-in; 1 audio-out

### 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

### Sustainable impact specifications

Water based paint<sup>41</sup>

## Design

### Product color

Black, glass side panel, dark chrome logo

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

## Additional information

### Part Number

P/N: 9W5X9EA #ABT

UPC/EAN code: 198122331994

### 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

### Messaging Footnotes

- <sup>1</sup> 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.
- <sup>2</sup> Intel and Core are trademarks of Intel Corporation in the U.S. and other countries.
- <sup>3</sup> ©2023 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.
- <sup>4</sup> 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.
- <sup>5</sup> Actual throughput may vary.
- <sup>6</sup> Actual throughput may vary. USB Type-C\* and USB-C\* are trademarks of USB Implementers Forum.
- <sup>7</sup> Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately. Bluetooth\* 5.3 operation requires Microsoft OS/Chrome OS support. Until Microsoft OS/Chrome OS support is available, Bluetooth\* 5.3 will function as Bluetooth\* 5.2 or lower.
- <sup>8</sup> Percentage of water-based paint varies by product.
- <sup>9</sup> 1 month trial offer for \$1.00 - Promotional offers may be for new members only and/or not be valid for all members and are only available for a limited time. Offers not valid in Russia and Turkey; other geographic restrictions may apply. Credit card and Xbox account required. After promotional period, subscription automatically continues at the then-current regular price (subject to change), unless cancelled, plus applicable taxes. To stop being charged, cancel your subscription or turn off recurring billing in your Microsoft account ([account.microsoft.com/services](https://account.microsoft.com/services)) or on your Xbox console, before the next billing date. For more details, see <https://support.xbox.com/help/subscriptions-billing/manage-subscriptions/cancel-recurring-billing-or-subscription>. Purchase of Xbox Game Pass Ultimate automatically upgrades your existing Xbox Live Gold, Xbox Game Pass (PC or Console), and/or EA Play membership(s) to Xbox Game Pass Ultimate at a conversion ratio each based on days remaining. Learn how this works at [www.xbox.com/gamepass](http://www.xbox.com/gamepass). See Microsoft <https://www.xbox.com/en-US/legal/subscription-terms> for more details.

### Technical Specifications Footnotes

- <sup>6</sup> 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.
- <sup>7</sup> Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost/> for more information.
- <sup>11</sup> Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately.
- <sup>12</sup> Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where 6GHz is supported.
- <sup>19</sup> For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device.
- <sup>41</sup> Percentage of water based paint varies by product.
- <sup>46</sup> Bluetooth\* 5.3 operation requires Microsoft OS/Chrome OS support. Until Microsoft OS/Chrome OS support is available, Bluetooth\* 5.3 will function as Bluetooth\* 5.2 or lower.

