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.



*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.

Sustainability in action

Sustainability in action Made with Water based paint.



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.²

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.³

PCIe NVMe[™] M.2 SSD storage

Boot up in seconds with lightning fast speed with up to 2 TB PCIe NVMe^ ${}^{\rm M}$ 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.⁴

USB Type-A 5Gbps signaling data rate

Plug in your external storage with this USB Type-A port, featuring 5Gbps signaling data rate. $^{\rm 5}$

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.

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. 6

Sustainable design

Because little things make a big difference, this product includes sustainable materials like post-consumer recycled plastic in the design.⁷

Liquid cooling

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

OMEN Gaming Hub

OMEN Gaming Hub is your one place for everything to make your gaming experience better. From software enhancements to hardware control, and live services, OMEN Gaming Hub elevates play in easy and simple way.

Recommended accessories and services (not included)





Specifications







Performance

Operating system Windows 11 Home

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} Processor family: Intel[®] Core[™] Ultra 9 processor

Chipset

Intel[®] Z890

Memory

Kingston FURY 64 GB DDR5-5600 MT/s XMP RGB Heatsink (4 x 16 GB) Transfer rates up to 5600 MT/s.

Memory slots: 4 DIMM

Maximum memory: Supports up to 128 GB max system memory **Storage**

2 TB PCIe[®] Gen4 NVMe[™] M.2 SSD

2 TB PCIe[®] Gen4 NVMe[™] Performance M.2 SSD 25 GB Dropbox storage for 12 months¹

Graphics

Discrete: NVIDIA[®] GeForce RTX[™] 5090 (32 GB GDDR7 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

Realtek RTL8125BGH-CG 10/100/1000/2500 GbE NIC Wireless connectivity

Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card (supporting gigabit data rate) ^{11,12,46}

Ports

Top:

2 USB Type-A 5Gbps signaling rate (HP Sleep and Charge); 2 USB 2.0 Type-A; 1 headphone/microphone combo; 1 microphone¹⁹ Rear:

1 USB Type-C[®] 10Gbps signaling rate; 2 USB Type-A 5Gbps signaling rate; 4 USB 2.0 Type-A; 1 microphone; 1 RJ-45; 1 audio-in; 1 audio-out; 1

Thunderbolt[™] 4 with USB Type-C[®] 40Gbps signaling rate (DisplayPort[™] 2.1); 3 3.5 mm audio jack combo

Expansion slots

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



Sustainability

Sustainable impact specifications

Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; 10% post-consumer recycled plastic; Water based paint⁴¹

Design

Product color Black, glass side panel, dark chrome logo Paint coat

Software

HP apps

HP Connection Optimizer; HP Support Assistant; OMEN Gaming Hub; HP Enhanced Lighting; myHP

Software

Intel® Unison™; Otter.ai; 1 month trial for new Microsoft 365 customers²⁴

Service & support

McAfee Online Protection 30-day trial; 1-month Adobe free trial offer; Xbox Game Pass 1-month free trial ^{2,25,43}

Additional information

Part Number

P/N: B94HJEA #ABU UPC/EAN code: 198990656281 **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



Footnotes

Messaging Footnotes

¹Multi-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.

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

⁴ 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.

⁵ Actual throughput may vary.

⁶ 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.

⁷ Percentage of post-consumer recycled plastic varies by product. Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.

Technical Specifications Footnotes

¹25 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 Internet access required and not included. McAfee is pre-installed on your PC and an account is required for activation. Subscription renewal required after trial period. VPN feature is not available in India, China, Syria or North Korea. McAfee is not compatible with Windows 11 in S mode. You'll need to permanently switch out of S mode. There's no charge to switch out of S mode, but you won't be able to turn it back on.

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.

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.

²⁵ Offer available worldwide (excluding China and embargoed countries or other countries identified as restricted by applicable law or regulation) to new and existing subscribers who are 18+. Click on the Adobe icon in the start menu to redeem a 1-month free trial membership for select Adobe software. The software is tied to the device and is not transferrable. If you would like to sign up for an auto-renewing subscription, you can provide your payment method at sign-up. By adding a payment method, your subscription will automatically renew at the then current rate on your renewal date until you cancel. If you cancel before the end of the one-month free trial, you won't be charged. You can cancel your subscription anytime via your Adobe Account page or by contacting Customer Support. Please see current prices for Adobe products available in this offer. Offer not available to Education, OEM, or volume licensing customers. Subject to availability where the recipient resides. Additional terms and conditions may apply. VOID WHERE PROHIBITED OR RESTRICTED BY LAW.

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; Percentage of post-consumer recycled plastic varies by product. Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.

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.

⁴⁶ 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.

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