



Master level performance made all your own

The OMEN by HP 40L Gaming Desktop is the ultimate companion on your gaming journey. Powered by the latest Intel® processor^[1] and advanced graphics, the OMEN Desktop has a superior cooling system that prevents overheating. Designed for easy tool-less upgradeability, the OMEN Desktop will give you the top-tier performance to meet your gaming needs.



Stay cool under pressure

All-around strategic placed fans prevent overheating even when your game heats up.

Tool-less design

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

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]

A dynamic processor that adapts to you for superior multi-tasking performance

12th Gen Intel® Core™ processors distributes performance where you need it the most — saving you time and increasing your ability to do the things you actually want. ^[3]

The Ultimate Play

The GeForce RTX™ 3080 delivers the ultra performance that gamers crave, powered by Ampere—NVIDIA's 2nd gen RTX architecture. It's built with enhanced RT Cores and Tensor Cores, new streaming multiprocessors, and superfast G6X memory for an amazing gaming experience. ^[4]

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.

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.



Specifications

Form factor	microATX
Operating system	Windows 11 Home
Product color	Black, glass side panel, dark chrome logo
Processor family	12th Generation Intel® Core™ i7 processor
Processor	Intel® Core™ i7-12700K (up to 5.0 GHz with Intel® Turbo Boost Technology, 25 MB L3 cache, 12 cores, 20 threads) [6,7]
Chipset	Intel® ADL Z690
Memory	HyperX 16 GB DDR4-3733 MHz XMP Heatsink RAM (2 x 8 GB)
Memory Slots	4 DIMM
Internal Storage	1 TB WD Black PCIe® NVMe™ TLC M.2 SSD
Product design	Paint finish top and side covers, tempered black glass front cover
Graphics	Discrete
Graphics (discrete)	NVIDIA® GeForce RTX™ 3080 (10 GB GDDR6X dedicated) with LHR
Graphics	Integrated
Graphics (integrated)	Intel® UHD Graphics 770
Audio	5.1 surround sound; Omen Audio Control Support DTS:X® Ultra
Minimum dimensions (W x D x H)	20.4 x 47 x 46.7 cm
Minimum dimensions (W x D x H)	8.03 x 18.5 x 18.39 in
Weight	18.7 kg
Weight	41.23 lb
Keyboard	HP 310 Black Wired Keyboard and mouse combo
Video connectors	1 HDMI; 3 DisplayPort™
Ports	2 SuperSpeed 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 ^[19]
Expansion slots	1 PCIe x16; 1 PCIe x4; 3 M.2 (2 for SSD, 1 for WLAN)
Ports	1 SuperSpeed USB Type-C® 10Gbps signaling rate; 1 SuperSpeed USB Type-C® 5Gbps signaling rate; 1 SuperSpeed USB Type-A 10Gbps signaling rate; 1 SuperSpeed USB Type-A 5Gbps signaling rate; 2 USB 2.0 Type-A; 1 audio-in; 1 audio-out; 1 microphone; 1 RJ-45
Package dimensions (W x D x H)	59.2 x 32.8 x 58.2 cm
Package weight	19.28 kg
Network interface	Integrated 10/100/1000 GbE LAN
Wireless	Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo (supporting gigabit data rate)
Ecolabels	EPEAT® registered
Energy star certified	ENERGY STAR® certified
Sustainable impact specifications	Water based paint
Security management	Kensington MicroSaver lock slot
Software included	McAfee LiveSafe™
Software - Productivity & finance	1 month trial for new Microsoft 365 customers ^[24]
Cloud service	25 GB Dropbox storage for 12 months ^[1]
UPC number	196188288429

Top Recommended Displays, Accessories and Services

OMEN by HP Displays

OMEN 27u 4K Gaming Monitor	3G6W0AA
OMEN 27u 4K Gaming Monitor	3G6W1AA
OMEN 27c QHD Curved 240Hz Gaming Monitor	35D67AA
OMEN 27c QHD Curved 240Hz Gaming Monitor	35D73AA
OMEN 25i Gaming FHD Monitor	22J05AA

Mice

OMEN Vector Wireless Mouse	2B349AA
OMEN by HP Mouse Pad 300	1MY15AA

Keyboards

OMEN by HP Encoder Keyboard	6YW76AA
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Speakers

HP Gaming Speakers X1000	8PB07AA
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Headsets

OMEN Blast Headset	1A858AA
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PC Gaming Accessories

OMEN by HP Citadel Gaming Chair	6KY97AA
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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.

[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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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.

[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.

[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.

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