

OMEN by HP 40L Gaming Desktop GT21-0094



Master level performance made all your own.

Embrace your gaming destiny with the OMEN 40L Gaming Desktop PC. Reach peak levels through advanced customization with OMEN Gaming Hub, liquid cooling and a toolless access case.⁽⁵⁷⁾

Product overview

- **Performance for bold dreams.** The OMEN 40L Gaming Desktop PC is the ultimate companion on your gaming journey. Meet your new best friend, packing an Intel® Core™ processor and a NVIDIA® GeForce® RTX graphics card.
- **Do it how you do.** Imagine a PC that can crush elite levels today and adapt to reach new performance heights tomorrow.
- **Engineered for adventures.** Top to bottom every aspect was built specifically for gaming performance. Including toolless entry from both sides of the PC and RGB controls integrated throughout. It's a work of gaming art.
- **Customization reaches a new level of whoa.** Step aboard the one-stop spec shop: OMEN Gaming Hub. From intelligent overclocking, SW-based fan control, BIOS access and RAM frequency, dial in every last performance detail. We obsess so you can progress.

Key specifications

- **Operating system:** Windows 11 Home⁽¹⁾
- **Processor:** 12th Generation Intel® Core™ i9-12900K processor^(2b)
- **Memory:** HyperX® 32 GB DDR4 XMP Heatsink RAM (2x16 GB)⁽⁹⁷⁾
- **Internal Storage:**
 - 1 TB PCIe® NVMe™ M.2 Solid State Drive⁽¹⁵⁾⁽⁵⁸⁾
 - 2 TB 7200RPM SATA hard drive^(4b)
- **Graphics:** NVIDIA® GeForce RTX™ 3080 graphics card with 10 GB GDDR6X dedicated memory with LHR⁽¹³⁾
- **Mouse and keyboard:** HP 310 black wired keyboard and mouse combo
- **USB ports:** Front I/O: 2 SuperSpeed USB Type-A 5Gbps signaling rate, 2 USB 2.0 Type-A; Rear: 1 SuperSpeed USB Type-A 5Gbps signaling rate, 1 SuperSpeed USB Type-A 10Gbps signaling rate, 2 USB 2.0 Type-A, 1 SuperSpeed USB Type-C® 5Gbps signaling rate, 1 SuperSpeed USB Type-C® 10Gbps signaling rate⁽⁴²⁾
- **Wireless:** Wi-Fi 6 (2x2) and Bluetooth® Combo (Supporting Gigabit file transfer speeds, MU-MIMO supported)⁽⁷⁾⁽¹⁹⁾⁽²⁶⁾
- **Warranty:** 1-year limited hardware warranty

Product features

- **Get a fresh perspective with Windows 11:** 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.⁽¹⁾
- **A dynamic processor that adapts to you for superior multi-tasking performance:** 12th Gen Intel® Core™ processor distributes performance where you need it the most — saving you time and increasing your ability to do the things you actually want.
- **NVIDIA® GeForce RTX™ 3080 Graphics - The Ultimate Play:** The GeForce RTX™ 3080 delivers the ultra performance that gamers crave, powered by Ampere—NVIDIA's 2nd gen RTX architecture.
- **Dual storage configuration:** By including both an SSD drive for the operating system and a traditional hard drive you get the benefits of both worlds—fast boot up times, snappy responsiveness, and larger storage capacity.
- **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.⁽⁴⁷⁾
- **SuperSpeed USB Type-C® 5Gbps signaling data rate:** Plug in your external storage with this Superspeed USB Type-C® port, featuring 5Gbps signaling data rate. And it's reversible, so you never have to worry about plugging in upside down.⁽⁴²⁾⁽⁴³⁾

Additional product features

- **SuperSpeed USB Type-C® 10Gbps signaling data rate:** Plug in your external storage with this Superspeed USB Type-C® port, featuring 10Gbps signaling data rate. And it's reversible, so you never have to worry about plugging in upside down.⁽⁴²⁾⁽⁴³⁾
- **SuperSpeed USB Type-A 5Gbps signaling data rate:** Plug in your external storage with this Superspeed USB Type-A port, featuring 5Gbps signaling data rate.⁽⁴³⁾
- **SuperSpeed USB Type-A 10Gbps signaling data rate:** Plug in your external storage with this Superspeed USB Type-A port, featuring 10Gbps signaling data rate.⁽⁴³⁾
- **HyperX® DDR4 memory:** With its high performance, everything from multi-tasking to playing games gets a boost.⁽⁹⁷⁾
- **Dual channel memory:** Two channels work simultaneously to double the communication speed between the memory controller and the RAM increasing system performance.
- **Effortlessly connected:** Enjoy a smooth wireless experience with a Wi-Fi 6 (2x2) and Bluetooth® combo.⁽¹⁹⁾⁽²⁶⁾
- **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.

Designed with the planet in mind

- HP is dedicated to driving progress toward a more sustainable future and making responsible choices for the environment and our customers. We are innovating new ways to reduce the amount of materials in our products and packaging—and to use more recycled materials in their design. Together we can make a difference.
- Built with the environment in mind, the OMEN by HP 40L Gaming Desktop is designed using sustainable materials like:
 - Includes water-based paint^(63a)
 - HP's outer boxes and fiber cushions used in packaging are 100% sustainably sourced and recyclable.^(63a)
 - ENERGY STAR® certified⁽⁶²⁾
 - EPEAT® Gold registered⁽²⁷⁾

Warranty and support

Our Customer Support Team consistently provides quick, responsive assistance in the U.S., Canada and Latin America.

Included with your product:

- **HP's Hardware Limited Warranty:** Full warranty details are included with your product.
- **Technical Support for Software & Initial set-up:** Warranty details are included with your product.

Support Options:

- **HP Support Assistant - HPSA:** Optimized to enhance your support experience. Help for your PC and HP printers whenever you need it.⁽⁵⁶⁾
- **Online Support:** For technical support with this product, visit HP Customer Support <http://support.hp.com>.⁽¹⁰⁾
- **Social Media Support:** To find solutions, ask questions, and share tips, join us on the HP Support Community at community.hp.com, on Twitter at twitter.com/HPSupport, and Facebook at facebook.com/HPSupport.⁽¹⁰⁾



Specifications

Operating system	• Windows 11 Home⁽¹⁾
Processor	• 12th Generation Intel® Core™ i9-12900K processor ^(2b) • Liquid cooling
Processor speed	• 3.20 GHz ^(2h)
Cache	• 30 MB Cache
Memory	• HyperX® 32 GB DDR4 XMP Heatsink RAM (2x16 GB) (Default Speed: 3200 MHz/XMP Speed: 3733 MHz) ⁽⁹⁷⁾ (expandable to 128 GB unbuffered with 32 GB DIMMs)
Internal storage	• 1 TB PCIe® NVMe™ M.2 Solid State Drive ^{(15)(58c)} • 2 TB 7200RPM SATA hard drive ^(4b)
Finish	• Tempered glass front bezel and side panel with EMC protection
Video graphics	• NVIDIA® GeForce RTX™ 3080 graphics card with 10 GB GDDR6X dedicated memory with LHR ⁽¹³⁾
Network interface	• 10/100/1000 Base-T Network ⁽²⁹⁾
Wireless connectivity	• Wi-Fi 6 (2x2) and Bluetooth® Combo (Supporting Gigabit file transfer speeds, MU-MIMO supported) ^{(7)(19e)(26)}
Sound	• 5.1 surround sound
Memory slots	• 4 DIMM (288-pin) (two available)
Expansion slots	• 1 PCI-E Gen 4 x16 (occupied) • 1 PCI-E Gen 3 x4 (available) • 3 M.2 (2 for SSD, 1 for WLAN) (one available for SSD)
Expansion bays	• HDD: 2 internal 3.5" (one available) • SDD: 2 internal 2.5" (two available)
External ports	• Headphone/Microphone Combo, Microphone Jack • Front I/O: 2 SuperSpeed USB Type-A 5Gbps signaling rate, 2 USB 2.0 Type-A • Rear: 1 SuperSpeed USB Type-A 5Gbps signaling rate, 1 SuperSpeed USB Type-A 10Gbps signaling rate, 2 USB 2.0 Type-A, 1 SuperSpeed USB Type-C® 5Gbps signaling rate, 1 SuperSpeed USB Type-C® 10Gbps signaling rate ⁽⁴²⁾ • HDMI • 3 DisplayPort™ ⁽⁵⁰⁾
Multi-display capable	• DisplayPort and HDMI capabilities, NVIDIA® Surround™ multi-display technology, support for Microsoft® DirectX® 12 ⁽¹³⁾
Mouse and keyboard	• HP 310 black wired keyboard and mouse combo
Power supply	• 800 W 80 Plus Gold certified ATX power supply
Dimensions	• Unpackaged: 8.03 in (W) x 18.50 in (D) x 18.39 in (H) approx. • Packaged: 23.31 in (L/D) x 12.91 in (W) x 22.91 in (H) approx.
Weight	• Unpackaged: 41.23 lb approx. ⁽⁷⁶⁾ • Packaged: 42.50 lb approx.
Warranty and support	• 1-year limited hardware warranty. Additional information available at www.support.hp.com • 1-year limited technical support for software and initial setup (from date of purchase) ⁽⁵³⁾

Learn more at hp.com

⁽¹⁾ 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>. ^(2b) 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. Intel, Pentium, Intel Core, Celeron, Intel logo and the Intel Inside logo are trademarks of Intel Corporation in the U.S. and other countries. ^(2h) GHz refers to internal clock speed of the processor. Other factors besides clock speed may impact system and application performance. ^(4b) For storage drives, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB of drive is reserved for system recovery software. ⁽⁷⁾ Wi-Fi 5 or 6 is designed to support Gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels. ⁽⁹⁾ Internet access required and not included. Subscription required after 30 days trial period. McAfee, LiveSafe and the McAfee logo are trademarks or registered trademarks of McAfee, Inc. in the United States and other countries. ⁽¹⁰⁾ Internet service required and not included. ⁽¹³⁾ ©2021 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. ⁽¹⁵⁾ Actual formatted capacity is less. Portion of internal storage is reserved for preloaded content. ^(19e) Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. Wi-Fi 6 is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels. Only available in countries where Wi-Fi 6 is supported. ⁽²²⁾ 100GB of free online storage for one year from date of registration. For complete details and terms of use, including cancellation policies, visit the website at dropbox.com. Internet service required and not included. ⁽²³⁾ HP BIOS Protection works with Windows 10 or 11 that ships with your PC. ⁽²⁶⁾ Bluetooth® is a trademark owned by its proprietor and used by HP Inc. under license. ⁽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. ⁽²⁹⁾ Actual speeds may vary. ⁽⁴²⁾ USB Type-C® and USB-C® are trademarks of USB Implementers Forum. ⁽⁴³⁾ Actual throughput may vary. ⁽⁴⁷⁾ 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. ⁽⁵⁰⁾ DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. ⁽⁵³⁾ Call 1.800.474.6836 or support.hp.com for more information on Care Packs available after standard warranty expires. After standard warranty expires, an incident fee may apply. ⁽⁵⁶⁾ For more information visit hp.com/go/hpsupportassistant. (Link will vary outside of the U.S.) HP Support Assistant is only available on Windows-based PCs. Internet connection required for updating and connecting to HP Support. ⁽⁵⁷⁾ This device has been engineered for optimal performance. Upgrading PC may affect warranty coverage. ^(58a) Based on HP internal testing using CrystalDiskMark benchmarking software. Performance is sequentially faster (read only) compared to traditional 7,200 rpm HDD. ⁽⁶²⁾ ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency. ^(63a) 100% outer box/corrugate cushion packaging made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic material. Excludes plastic bags and plastic foam sheeting. ^(63b) Percentage of water-based paint varies by product. ⁽⁷⁶⁾ Weight and system dimensions may fluctuate due to configuration and manufacturing variances. ⁽⁹⁷⁾ HyperX and the HyperX logo are registered trademarks or trademarks of HP Development Company, L.P. in the U.S. and/or other countries. Actual product may vary from image shown on datasheet. © Copyright 2021 HP Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing shall be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein. Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. All other trademarks are property of their respective owners. 04/18/2022_r2 jr

Software

HP help and support	<ul style="list-style-type: none"> • myHP: myHP provides a simple setup and registration experience that welcomes you to your new HP PC. Customize, optimize, and secure your device with tips and tricks and easy-to-access settings, and receive helpful messages and information to keep things running smoothly. • HP BIOS Protection: Get peace of mind knowing your PC BIOS is protected. HP BIOS Protection automatically checks its health and recovers itself.⁽²³⁾ • HP Support Assistant: Help with your HP PC and printers whenever you need it.⁽⁵⁶⁾
Books, music, photos and videos	<ul style="list-style-type: none"> • DTS: X® Ultra Technology: Authentic, spatially accurate 3D sound to provide the best entertainment experience.⁽⁴⁷⁾
Productivity and tools	<ul style="list-style-type: none"> • HP QuickDrop: Wirelessly transfer photos, videos, documents and more between your PC and mobile device. Easily snap a photo to share, send addresses for directions on-the-go, and view texts on your PC's screen. With HP QuickDrop, file transfers are easy, fast and reliable.⁽¹⁰⁾ • OMEN Light Studio: Personalize lighting options using a variety of effects like ambient, wave, interactive and more through one app. • OMEN Gaming Hub: 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 an easy and simple way. • Dropbox cloud storage: Store and synchronize your content online with Dropbox. Get 100GB of storage for one year to access, manage, and share your photos, music, and files from anywhere with Internet access.⁽¹⁰⁾⁽²²⁾ • HP Connection Optimizer: Get consistent and reliable Wi-Fi performance with software that automatically switches between the most efficient wireless access points.⁽¹⁰⁾
Security and protection	<ul style="list-style-type: none"> • McAfee LiveSafe™: Protect your operating system with a free 30-day McAfee LiveSafe™ trial.⁽⁸⁾

Additional information

Product number	• 575Q5AA#ABA
Ad embargo date	• 03/04/2022
UPC code	• 196786109089
Country of origin	• Mexico
Pallet information	<ul style="list-style-type: none"> • Dimensions: 47.24 in (L/D) x 39.37 in (W) x 74.06 in (H) approx. • Total weight: 798.06 lb approx. • Layers: 3 • Products per layer: 6 • Total products per pallet: 18

