OMEN 35L Gaming Desktop GT16-0551na PC

Take the key to your gaming performance

The OMEN 35L Gaming Desktop PC unlocks your performance potential. It features the latest Intel® Core™ Processor[1] and advanced graphics, with OMEN branded components optimized for peak thermal capabilities and power. Designed for easy tool-less upgradability and personalization to suit your gaming needs.



*Product image may differ from actual product

Optimized for performance

Play to your highest potential with a design that is optimized for performance.

Futureproof, tool-less design

Designed for upgradability with OMEN Components, expand and customize within an industry-standard form factor.

Make it your own

Customize performance and aRGB options with OMEN Gaming Hub.

Sustainability in action

We're in this together

It matters. With 100% recyclable packaging solutions[2], at least 20% recycled plastic content and 10% recycled metal[3][4], we are in this together[5].

with

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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.[6]

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.[7]

Game Changer
Powered by NVIDIA Blackwell, GeForce RTX™ 50 Ti Series GPUs bring game-changing AI capabilities to gamers and creators. Multiply performance with NVIDIA DLSS 4, generate images at unprecedented speed, and unleash your creativity with NVIDIA Studio.[8]

1TB PCIe® Gen4 NVMe™ M.2 SSD
With high-speed data transfer, the 1 TB PCIe Gen4 NVMe M.2 SSD offers lightning fast speed and efficient storage.[9]

DTS Headphone: X Technology
By producing authentic, spatially accurate 3D sound through any headphones or earbuds, this technology gives games, movies, and music a level of depth and immersion for the best entertainment experience possible.[10]

USB Type-C® 5Gbps signaling data rate
Plug in your external storage with this USB Type-C® port, featuring 5Gbps signaling data rate. And it's reversible, so you never have to worry about plugging in upside down.[11]

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.

HP USB Sleep and Charge
With a special USB connector designed to always have power, you can charge your smartphone, tablet, and other devices from your laptop while it's asleep or hibernating.[12]

Xbox Game Pass Premium 2-month trial
Enjoy 2 months of Xbox Game Pass Premium. Free with your new HP device. Access a library of legendary, high-quality games, get exclusive in-game perks, partner discounts, and earn points annually with Xbox Rewards.[13]

DDR5 RAM
Designed to run efficiently and reliably at faster speeds, DDR5 is the latest RAM standard. With higher bandwidth, you get more of a boost in performance.

Effortlessly connected
Enjoy a smoother wireless experience with a Wi-Fi 7 and Bluetooth® 5.4 combo.[14]

Sustainable design
Because little things make a big difference, this product includes sustainable materials like water-based paint in the design.[15]

120 mm 4-heatpipe RGB air cooler
Keep your system cool and vibrant with the 120mm RGB fan and 4-heatpipe design for efficient heat transfer and customizable RGB lighting effects.

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)



3-year pickup and return
UC994E

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Specifications





Performance

Operating system
Windows 11 Home
Processor
Intel® Core™ i5-14400F (up to 4.7 GHz with Intel® Turbo Boost Technology, 20 MB L3 cache, 10 cores, 16 threads)[6,7]
Processor family: 14th Generation Intel® Core™ i5 processor
Chipset
Intel® Z790H
Memory
Kingston FURY 16 GB DDR5-5800 MT/s EXPO™ RGB Heatsink (1 x 16 GB)
Transfer rates up to 6000 MT/s.
Memory slots: 4 DIMM
Maximum memory: Supports up to 128 GB max system memory
Storage
1 TB PCIe® Gen4 NVMe™ M.2 SSD
100 GB Dropbox storage for 3 months[1]
Graphics
Discrete: NVIDIA® GeForce RTX™ 5060 Ti (8 GB GDDR7 dedicated) ;
Audio
5.1 surround sound; OMEN Audio Control DTS Headphone:X™ support
Power
600 W 80 Plus Gold certified ATX power supply;
System coolers
120 mm 4-heatpipe aRGB air cooler;

Connectivity

Network interface
Integrated 10/100/1000 GbE LAN
Wireless connectivity
Intel® Wi-Fi 7 BE200 (2x2) and Bluetooth® 5.4 wireless card [12]
Ports
Top:
1 headphone/microphone combo; 1 USB Type-C® 5Gbps signaling rate (HP Sleep and Charge); 2 USB 2.0 Type-A (HP Sleep and Charge)[19,52]
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 3.5 mm audio jack; 1 RJ-45
Video connectors
1 HDMI 2.1b;3 DisplayPort™ 2.1b
Expansion slots
1 PCIe x16; 1 PCIe x4; 3 M.2 (2 for SSD, 1 for WLAN)

Sustainability

Sustainable impact specifications
Water based paint; At least 10% recycled metal; LDPE bag contains 30% recycled plastic; Molded paper pulp cushion inside box is made of 100% recycled or certified sources; At least 20% post-consumer recycled plastic[39,40,41]

Design

Product color
Shadow black glass
Textured finish

Software

HP apps
HP Connection Optimizer; HP Support Assistant; OMEN Gaming Hub; HP Enhanced Lighting; myHP
Software
Otter.ai;
1 month trial for new Microsoft 365 customers[24]
Service & support
McAfee Online Protection 30-day trial; 1-month Adobe free trial offer; Xbox Game Pass Premium 2-month trial [2,25]

Additional information

Part Number
P/N: DJ2H4EA #ABU
UPC/EAN code: 826581132875
Weight
14.5 kg;
Packed: 18.5 kg
Dimensions
21 x 40.8 x 41 cm;
Packed: 59 x 33.2 x 58.3 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.
Security management
Kensington Security lock slot

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Footnotes

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] Packaging parts contain certified or recycled fibers and are typically recycled in your local paper/carton recycling bin, consult your local guidelines.
[3] Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT standard for computers, IEEE 1680.1-2018 standard.
[4] Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.
[5] Recycling facilities not available in all locations.
[6] 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.
[7] Intel and Core are trademarks of Intel Corporation in the U.S. and other countries.
[8] ©2025 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.
[9] For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB of system disk is reserved for system recovery software.
[10] 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.
[11] Actual throughput may vary. USB Type-C® and USB-C® are trademarks of USB Implementers Forum.
[12] For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device.
[13] Subscription continues automatically at regular monthly price unless cancelled. Subject to https://www.xbox.com/legal/subscription-terms. Benefits vary by Xbox Game Pass plan. Game library varies over time, by region, device, and Xbox Game Pass plan. xbox.com/gamepass. In-game benefits vary by game, region, and over time. Game must be installed to access in-game benefits. For a list of cloud and non-cloud markets and supported regions, visit: xbox.com/regions. Terms apply, see xbox.com/gamepass for more. Excludes HP Chromebooks.
[14] Wi-Fi 7: Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows 11 OS, compatible processor, and separately purchased Wi-Fi 7 router to support backwards compatibility with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported. The specification for 802.11BE is a draft specification and is not final. If the final specification differs from the draft specification, it may affect the ability of the device to communicate with other 802.11BE devices.
[15] Percentage of water-based paint varies by product.

Technical Specifications Footnotes

[1] 100 GB of free Dropbox storage for 3 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.
[12]Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows 11 OS, compatible processor, and separately purchased Wi-Fi 7 router to support backwards compatibility with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported.
[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.
[39] Percentage of water based paint varies by product.
[40] Recycled metal is expressed as a percentage of the total weight metal as per defined in the EPEAT criteria.
[41] Packaging parts contain certified or recycled fibers and are typically recycled in your local paper/carton recycling bin, consult your local guidelines; Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT criteria.

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