ProductSheet

HyperX OMEN 15 inch Gaming Laptop PC 15-ga0124nwx (E0PH2EA)

Play past ordinary

The HyperX OMEN 15 delivers fast performance that pushes your gaming farther than ever. With NVIDIA® GeForce RTX™ 50 Series GPUs and Intel® Core™ CPUs [2], Unleashed Mode for manual overclocking, and with a single click on OMEN AI, you can maximize your FPS without the hassle.



Performance on your terms
Performance made to keep you playing with NVIDIA® GeForce RTX™ GPUs and the latest Intel® Core™ CPUs [2].

Never slow down
OMEN Tempest Cooling keeps you strong all day with dust-free internals and optimized airflow.

Faster moves for when it matters
React fast in the heat of the game on a bigger screen that pulls you into the action.

Featuring

Windows is fast, powerful, and secure
Windows 11 is fast, powerful, and secure, giving you a dependable foundation to work, create, and stay protected every day. [1]

Desktop-level performance anywhere
Level up your PC with advanced performance, enhanced AI, and a CPU designed to defy expectations [3]

Game Changer
Powered by NVIDIA Blackwell, GeForce RTX™ 50 Series Laptop GPUs bring game-changing AI capabilities to gamers and creators. [4]

Eyesafe® Certified Display
Eyesafe® certified displays meet TÜV low blue light requirements and Eyesafe® standards for protecting your eyes from harmful blue light without distorting colors to reduce eyestrain when working for long periods of time. [5]

3ms response time
How fast your display's pixels respond is crucial for a smooth picture. With a 3-millisecond response time, your action-filled content will look crisp and fluid without motion blur. [6]

Specifications

Operating system	Windows 11 Home
Product color	Shadow black
Product design	Polished paint finish
Processor family	Intel® Core™ Ultra 7 processor
Processor	Intel® Core™ Ultra 7 251HX (up to 5.1 GHz with Intel® Turbo Boost Technology, 30 MB L3 cache, 18 cores, 18 threads)[6,7]
Chipset	Intel® integrated SoC
Memory	16 GB DDR5-5600 MT/s (1 x 16 GB)
Internal Storage	512 GB PCIe® Gen4 NVMe™ M.2 SSD
Display	38.9 cm (15.3") diagonal, 2.5K (2560 x 1600), up to 180 Hz, 3 ms response time, IPS, micro-edge, anti-glare, Low Blue Light, 500 nits, 100% sRGB
Display	15.3" diagonal, 2.5K (2560 x 1600), up to 180 Hz, 3 ms response time, IPS, micro-edge, anti-glare, Low Blue Light, 500 nits, 100% sRGB[17,21,28]
Screen-to-body ratio (without speakers)	91%[18]
Audio	Dual speakers; HP Audio Boost; HyperX; DTS:X Ultra™
Dimensions (W x D x H)	Starting at 34.3 x 25.3 x 2.25 cm (front); Starting at 34.3 x 25.3 x 2.36 cm (rear)
Weight	Starting at 2.21 kg
Package dimensions (W x D x H)	6.3 x 56.7 x 33 cm
Package weight	3.77 kg
Keyboard	Full-size, 4-zone RGB backlit, shadow black keyboard with numeric keypad and 26-Key Rollover Anti-Ghosting Key technology
Pointing device	HP Imagepad
Camera	1080p FHD camera with HDR auto switch, temporal noise reduction and integrated dual array digital microphones
Ports	2 USB Type-A 10Gbps signaling rate; 1 AC smart pin; 1 HDMI-out 2.1; 1 headphone/microphone combo; 1 RJ-45; 1 USB Type-C® 10Gbps signaling rate (USB Power Delivery 3.1, DisplayPort™ 1.4, HP Sleep and Charge)[19,42]
Expansion slots	2 M.2 (SSD)
Network interface	Integrated 10/100/1000 GbE LAN
Wireless	MediaTek Wi-Fi 7 MT7925 (2x2) and Bluetooth® 6.0 wireless card[12,46]
Power supply type	280 W AC power adapter (recommended, sold separately)
Battery type	4-cell, 70 Wh Li-ion polymer *([23])*
Battery recharge time	Supports battery fast charge: approximately 50% in 30 minutes[5]
Sustainability specifications	Keyboard keycaps, scissors and keyboard plate contain post-consumer recycled plastic
Security management	Trusted Platform Module (Firmware TPM) support
Software included	PC Game Pass 3-month trial
Software - Productivity & finance	1 month trial for new Microsoft 365 customers[24,50]
HP apps	HP Connection Optimizer; OMEN Gaming Hub
Cloud service	100 GB Dropbox storage for 3 months[1]
UPC number	881767151712
Manufacturer Warranty	2 year (2/2/0) limited warranty includes 2 years of parts and labor. No on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

Top Recommended Displays, Accessories and Services

Power Adapters

HP 330W Smart AC Adapter	BF7C7AA

Messaging Footnotes

[1] Based on speedometer benchmark. Performance will vary significantly by device. See aka.ms/w11claims

[2] 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® Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost/ for more information.

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[4] ©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.

[5] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. Eyesafe® Display for Low Blue Light is the Display Compliance Test Specification quality. See https://eyesafe.com for more details. Display measured diagonally

[6] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary, either higher or lower.

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.

[5] Recharges your battery up to 50% within 30 minutes when the system is off using "shut down" command, using HP adapter provided with the notebook or recommended power adapter disclosed in specifications (see http://store.hp.com). After charging has reached 50% capacity, charging speed will return to normal speed. Charging time may vary +/-10% due to System tolerance. Available on select HP products.

[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 Windows 11 2024, select Intel® Core™ or Intel® Core™ Ultra processor, and a Wi-Fi 7 router, sold separately. Wi-Fi 7 is backwards compatible 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.

[17] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

[18] Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk.

[19] For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device.

[21] TUV Low Blue Light is the Display Compliance Test Specification quality. See https://www.certipedia.com/?locale=en#search for more details.

[24] Must activate within 180 days of Windows activation.

[28] Eyesafe® Display for Low Blue Light is the Display Compliance Test Specification quality. See https://eyesafe.com for more details.

[42] For optimal performance and battery chargeability while gaming and rendering, use the power adapter that ships with the PC. You can use the 100W/20V Type-C adapter or power bank when running light loading tasks. System-off charging is only supported on 20V Type-C adapter or power bank.

[46] Bluetooth® 6.0 operation requires Microsoft OS/Chrome OS support. Until Microsoft OS/Chrome OS support is available, Bluetooth® 6.0 will function as Bluetooth® 5.4 or lower.

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