Datasheet

HyperX OMEN 15 inch Gaming Laptop PC 15-gb0001na

Outshine Ordinary

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



*Product image may differ from actual product

Performance on your terms

Performance made to keep you playing with NVIDIA® GeForce RTX™ GPUs and the latest AMD Ryzen™ 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.

Sustainability in action

Your style in RGB Colors

Effortlessly personalize, tune, and optimize your laptop with OMEN Gaming Hub.

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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.[1]

AMD Ryzen™ 200 Series processors with AMD Radeon™ graphics
Where performance elevates everyday experiences, the AMD Ryzen™ 200 Series processors provide the technology that users need to harness the power of advanced computing with introductory AI experiences[3]

Game Changer
Powered by NVIDIA Blackwell, GeForce RTX™ 50 Series Laptop 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.[4]

NVIDIA® Studio
Create at the speed of imagination with NVIDIA Studio. Harness RTX-accelerated workflows and AI-powered tools and tech for enhanced video editing, 3D rendering, and livestreaming - plus Studio Drivers built for performance and reliability.

AMD FreeSync™ technology
Say goodbye to choppy gameplay and enjoy tear free, seamless visuals across all your games. AMD FreeSync™ display technology optimizes refresh rates for flawless sync with your graphics.[5]

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.[6]

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.[7]

Flicker-free
Using DC Dimming technology that controls brightness by adjusting direct current rather than cycling the backlight, we can eliminate screen flickering for more comfortable viewing.[8]

16:10 aspect ratio
A 16:10 aspect ratio lets you see more of your content with less scrolling.

100% sRGB
Showcase your creations in all their colors on the 100% sRGB display for maximum color broadness and accuracy.

Keyboard contains post-consumer recycled materials
We're bringing a more thoughtful design to our keyboards by using post-consumer recycled materials in the design.[9]

Effortlessly connected
Enjoy faster speeds, improved performance and greater capacity with Wi-Fi 6 and Bluetooth® 5.4 wireless card.[10]

DisplayPort™
This robust digital video and audio port transmits up to 8K performance or allows you to connect multiple displays together.[11]

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.[12]

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.[13]

Audio tuned by HyperX
Immerse yourself in the sweet sounds of audio mixed and tuned by HyperX.

Recommended accessories and services (not included)



HyperX Cloud III - Gaming Headset (Black/Red)
727A9AA



HyperX Pulsefire Fuse Wireless Gaming Mouse (Black)
A1KY6AA



HyperX Solocast 2 BLK Mic
AR0A0AA



3-year pickup and return
UM963E

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Specifications





Performance

Operating system
Windows 11 Home
Processor
AMD Ryzen™ 7 260 (up to 5.1 GHz max boost clock, 16 MB L3 cache, 8 cores, 16 threads)[6,7]
Processor family: AMD Ryzen™ 7 processor
Neural Processing Unit (NPU): AMD Ryzen™ AI (16 NPU TOPS)
Chipset
AMD integrated SoC
Memory
24 GB DDR5-5600 MT/s (1 x 24 GB)
Transfer rates up to 5600 MT/s.
Number of User-accessible Memory Slots: 2
Storage
1 TB PCIe® Gen4 NVMe™ M.2 SSD
100 GB Dropbox storage for 3 months[1]
Graphics
Discrete: NVIDIA® GeForce RTX™ 5050 Laptop GPU (8 GB GDDR7 dedicated) ;
Audio
DTS:X® Ultra; Dual speakers; HP Audio Boost; HyperX
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[17,21,28]
Screen-to-body ratio
91%[18]
Power
150 W AC power adapter;
Battery type
4-cell, 70 Wh Li-ion polymer[23]
Battery and Power
Supports battery fast charge: approximately 50% in 30 minutes[5]

Connectivity

Network interface
Integrated 10/100/1000 GbE LAN
Wireless connectivity
Realtek Wi-Fi 6 (2x2) and Bluetooth® 5.4 wireless card
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)
Webcam
1080p FHD camera with HDR auto switch, temporal noise reduction and integrated dual array digital microphones

Sustainability

Ecolabels
EPEAT® Gold with Climate+[27]
Energy star certified
ENERGY STAR® certified
Sustainable impact specifications
Keyboard keycaps, scissors and keyboard plate contain post-consumer recycled plastic[41]

Design

Product color
Shadow black
Polished paint finish

Software

HP apps
HP Connection Optimizer; OMEN Gaming Hub
Software
Otter.ai;
1 month trial for new Microsoft 365 customers[24]
Service & support
McAfee Online Protection 30-day trial; Xbox Game Pass Premium 2-month trial [2]

Additional information

Part Number
P/N: D2YA9EA
UPC/EAN code: 199896390323
Weight
Starting at 2.42 kg;
Packed: 3.77 kg
Dimensions
Starting at 34.3 x 25.3 x 2.36 cm;
Packed: 6.3 x 56.7 x 33 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.
Keyboard
Full-size, white backlit, shadow black keyboard with numeric keypad and 26-Key Rollover Anti-Ghosting Key technology
HP Imagepad
Features
AMD FreeSync™ Replay[29]
Security management
Trusted Platform Module (Firmware TPM) support

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Footnotes

Messaging Footnotes

[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. AMD's numbering is not a measurement of clock speed.
[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.
[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. AMD's numbering is not a measurement of clock speed. Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third party software may have specific configuration or compatibility requirements. Potential NPU inferencing performance varies by use, configuration, and other factors.
[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] AMD FreeSync™ /FreeSync™ Premium/FreeSync™ Premium Pro/FreeSync™ Replay is enabled on FHD or higher resolution displays, with the additional requirements, such as at least 120Hz refresh rate, low framerate compensation, and HDR to support AMD FreeSync™ Premium/ FreeSync™ Premium Pro/FreeSync™ Replay. AMD Radeon Graphics and/or AMD A-Series APU-compliant monitors with DisplayPort/HDMI Adaptive-Sync required. AMD 15.11 Crimson driver (or newer) required to support FreeSync over HDMI. Adaptive refresh rates vary by monitor. AMD FreeSync™ /FreeSync™ Premium/FreeSync™ Premium Pro/FreeSync™ Replay technology requires AMD Radeon graphics and a display certified by AMD. See www.amd.com/freesync for complete details. GD-127 © 2024 Advanced Micro Devices, Inc. All rights reserved. AMD, the AMD Arrow logo, Radeon, FreeSync, and combinations thereof are trademarks of Advanced Micro Devices, Inc.
[6] 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
[7] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary, either higher or lower.
[8] The flicker-free capability eliminates screen flickering through integrating DC-dimming LED backlights.
[9] Keyboard components contain post-consumer recycled materials. Percentage of post consumer recycled contained in each component varies by product.
[10] 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. Wi-Fi 6 (802.11ax) is not supported in Belarus where Wi-Fi settings will be optimized to local regulatory requirements (802.11ac). Bluetooth® 5.4 operation requires Microsoft OS/Chrome OS support. Until Microsoft OS/Chrome OS support is available, Bluetooth® 5.4 will function as Bluetooth® 5.3 or lower. Bluetooth® is a trademark owned by its proprietor and used by HP Inc. under license.
[11] 8K content required to view 8K images. DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. Display measured diagonally
[12] 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.
[13] 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.

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.
[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. AMD's numbering is not a measurement of clock speed.
[7] Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.
[12] 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. Wi-Fi 6 (802.11ax) is not supported in Belarus where Wi-Fi settings will be optimized to local regulatory requirements (802.11ac).
[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.
[23] Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.
[24] Must activate within 180 days of Windows activation.
[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.
[28] Eyesafe® Display for Low Blue Light is the Display Compliance Test Specification quality. See https://eyesafe.com for more details.
[29] AMD FreeSync™ /FreeSync™ Premium/FreeSync™/FreeSync™ Replay Premium Pro is enabled on FHD or higher resolution displays, with the additional requirements, such as at least 120Hz refresh rate, low framerate compensation, and HDR to support AMD FreeSync™ Premium/ FreeSync™ Premium Pro/FreeSync™ Replay. AMD Radeon Graphics and/or AMD A-Series APU-compliant monitors with DisplayPort/HDMI Adaptive-Sync required. AMD 15.11 Crimson driver (or newer) required to support FreeSync over HDMI. Adaptive refresh rates vary by monitor. AMD FreeSync™ /FreeSync™ Premium/FreeSync™/FreeSync™ Replay Premium Pro technology requires AMD Radeon graphics and a display certified by AMD. See www.amd.com/freesync for complete details. GD-127 © 2023 Advanced Micro Devices, Inc. All rights reserved. AMD, the AMD Arrow logo, Radeon, FreeSync, and combinations thereof are trademarks of Advanced Micro Devices, Inc.
[37] Weight and system dimensions may fluctuate due to configuration and manufacturing variances.
[41] Keyboard components contain post-consumer recycled plastic. Percentage of post consumer recycled contained in each component varies by product.
[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® 5.4 operation requires Microsoft OS/Chrome OS support. Until Microsoft OS/Chrome OS support is available, Bluetooth® 5.4 will function as Bluetooth® 5.3 or lower.
[50] Copilot in Excel requires AutoSave to be enabled, meaning the file must be saved to OneDrive; it doesn't function with unsaved files. Copilot features in Outlook apply to accounts with @outlook.com, @hotmail.com, @live.com, or @msn.com email addresses and are available in Outlook.com, Outlook built into Windows, Outlook on Mac, and iOS and Android apps. AI features only available to Microsoft 365 Family subscription owner and cannot be shared; usage limits apply. Learn more Learn more Understanding AI credits - Microsoft Support . Microsoft Copilot features in Microsoft 365 are not available in China or Macao SAR.

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