



OMEN Laptop 15-en1010nt

Look as Good as Your Game

Behold the OMEN 15 gaming laptop, a lean, clean, playing machine powerful enough to hang with the big boxes and compact enough to take the game wherever your heart desires. Check out its big brains in its fast AMD processor and NVIDIA® graphics card, stunning display, and near-eternal battery life. Take control of it all and make it your own in the OMEN Gaming Hub.

*Product image may differ from actual product



Contain Yourself

Say hello to your little friend. This streamlined dream machine sports a speedy AMD Ryzen™ 5000 series processor and NVIDIA® GeForce® graphics cooled by OMEN Tempest Cooling. Good gracious, good things do come in small packages.



Find Yourself Getting Lost

This lean, mean, dreamy machine is easy on the eyes with stunning and fast display and even easier on the ears with master-class Audio by Bang & Olufsen. Stay up all night gawking, or playing, with long battery life. Are we getting' smitten yet?



Find the Perfect Settings

The OMEN 15 doesn't just stop at showstopping design and jaw-dropping specs appeal. With OMEN Gaming Hub, you can dial-in every element of your game. Plug and outplay with all the ports you'll ever need. Compared to other gaming laptops, there's no friend in sight.



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Featuring

AMD Ryzen™ 5000 H-Series Mobile Processors

Now you can enjoy elite gaming performance on a thin and light notebook with amazing battery life, thanks to the new AMD Ryzen™ 5000 H-Series Mobile Processors. Never compromise on your gaming laptop again.¹

NVIDIA® GeForce RTX™ 3060

The GeForce RTX™ 3060 lets you take on the latest games using the power of Ampere—NVIDIA's 2nd generation RTX architecture. Get incredible performance with enhanced Ray Tracing Cores and Tensor Cores, new streaming multiprocessors, and high-speed G6 memory.

AMD FreeSync™ technology

See and feel the difference of fluid, responsive gameplay. By synchronizing the refresh rate with your GPU, AMD FreeSync™ makes display stutter, input lag, and screen tears ancient history.²

144 Hz FHD anti-glare display

Reduce frustrating lag and image ghosting with a display that combines a 144 Hz refresh rate and a 1080p resolution for smooth, crisp gameplay.³

Effortlessly connected

Enjoy a smoother wireless experience with Wi-Fi 6 (2x2) and Bluetooth® 5.0 combo, all your connections are solid and up to 3x faster file transfer speeds than Wi-Fi 5.⁴

MU-MIMO supported

If you have several MU-MIMO devices in your home, MU-MIMO support works in combination with a MU-MIMO router to maximize network traffic for a smoother online experience.

HP Wide Vision HD Camera

The 88-degree, wide-angle field of view lets you video chat with the entire family or group of friends in crystal clear detail.⁵

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.⁶

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.⁷

PCIe NVMe™ M.2 SSD storage

Boot up in seconds with lightning fast speed with up to 1 TB PCIe NVMe™ M.2 SSD storage.

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.

Four Zone RGB keyboard

Allows you to backlight 4 independent zones with different RGB lighting. WASD keys are outlined to highlight key controls. It's all easily controlled through the OMEN Gaming Hub.

Micro-edge display

See more of your screen with a micro-edge display that maximizes your viewing area.

Flicker-free

Using DC Dimming technology, we can eliminate screen flickering for more comfortable viewing.¹⁴

HP Fast Charge

When your laptop is low on power, no one has time to wait hours to recharge. Power down your device and go from 0 to 50% charge in approximately 45 minutes.¹⁵

An exceptionally rich audio experience

HP Dual Speakers and audio, custom-tuned in collaboration with experts at Bang & Olufsen, bring entertainment to life with sound you can feel. Awaken your senses with PC audio perfection.

HP Audio Boost

Feel and hear state-of-the-art sound with the next generation of HP Audio Boost and SmartAmp technology—providing louder, richer sound and booming bass performance without distortion.

Elevated aesthetic

Designed with an aluminum-finished palm rest for a premium look.

Thin and light gaming

A small footprint and thin and light design lets you easily take this PC with you for ultraportable gaming.

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Specifications

Performance

Operating system

FreeDOS

Processor

AMD Ryzen™ 9 5900HX (up to 4.6 GHz max boost clock, 16 MB L3 cache, 8 cores)^{6,7}

Processor family: AMD Ryzen™ 9 processor

Chipset

AMD Integrated SoC

Memory

16 GB DDR4-3200 MHz RAM (2 x 8 GB)

Transfer rates up to 3200 MT/s.

Number of User-accessible Memory Slots: 2

Storage

1 TB PCIe® NVMe™ TLC M.2 SSD

Optical drive not included

Graphics

Discrete: NVIDIA® GeForce RTX™ 3060 (6 GB GDDR6 dedicated) ;

Audio

Audio by Bang & Olufsen; DTS:X® Ultra; Dual speakers; HP Audio Boost

Display

39.6 cm (15.6") diagonal, FHD (1920 x 1080), 144 Hz, 7 ms response time, IPS, micro-edge, anti-glare, 300 nits, 72% NTSC¹⁷

Screen-to-body ratio

80.95%¹⁸

Power

200 W Smart AC power adapter;

Battery type

6-cell, 70.9 Wh Li-ion polymer;

270 g;

Battery and Power

Up to 8 hours³;

Supports battery fast charge: approximately 50% in 45 minutes⁵

Maximum battery life video playback

Up to 9 hours¹⁰

Connectivity

Network interface

Integrated 10/100/1000 GbE LAN

Wireless connectivity

Intel® Wi-Fi 6 AX200 (2x2) and Bluetooth® 5 combo (Supporting Gigabit data rate)^{11,12,13,16}

MU-MIMO supported; Miracast compatible

Ports

1 SuperSpeed USB Type-C® 5Gbps signaling rate (DisplayPort™ 1.4, HP Sleep and Charge); 1

SuperSpeed USB Type-A 5Gbps signaling rate (HP Sleep and Charge); 2 SuperSpeed USB

Type-A 5Gbps signaling rate; 1 Mini DisplayPort™; 1 HDMI 2.1; 1 RJ-45; 1 AC smart pin; 1

headphone/microphone combo¹⁹

1 multi-format SD media card reader

Webcam

HP Wide Vision 720p HD camera with integrated dual array digital microphones

Design

Product color

Mica silver cover and base, mica silver aluminum keyboard frame

Matte cover and base, anodized keyboard frame

Additional information

Part Number

P/N: 434M2EA #AB8

Weight

Starting at 2.46 kg;

Packed: 3.65 kg

Weight Note: Weight varies by configuration

Dimensions

35.79 x 23.97 x 2.29 cm;

Packed: 6.9 x 52 x 30.5 cm

Dimension Note: Dimensions vary by configuration

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.

Keyboard

Full-size, 4-zone RGB backlit, mica silver keyboard and 26-Key Rollover Anti-Ghosting Key technology

HP Imagepad with multi-touch gesture support; Precision Touchpad Support

Features

Support AMD Radeon FreeSync™ technology

Security management

Fingerprint reader not available

Sensors

IR Thermal sensor

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Warranty services*



3-year return to depot
UM933E

Key Selling Points Footnotes

Feature 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. AMD's numbering is not a measurement of clock speed.
- ² FreeSync™ is only available when it is connected on Display Port or HDMI port. FreeSync™ is an AMD technology enabled on FHD or QHD displays and is designed to eliminate stuttering and/or tearing in games and videos by locking a display's refresh rate to the frame rate of the graphics card. Monitor, AMD Radeon™ Graphics and/or AMD A-Series APU compliant with DisplayPort™ Adaptive-Sync required. AMD Catalyst™ 15.2 Beta (or newer) required. Adaptive refresh rates vary by display.
- ³ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
- ⁴ Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other Wi-Fi 6 devices. Only available in countries where 802.11ax is supported. Wi-Fi 6 (802.11ax) is not supported in Ukraine, Russia, and Indonesia where the Wi-Fi 6 (802.11ax) will be disabled and downgraded to 802.11ac by the Intel's DRS solution.
- ⁵ Features may require software or other 3rd party applications to provide the described functionality.
- ⁶ Actual throughput may vary.
- ⁷ 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.
- ¹⁴ The Flicker-free capability eliminates screen flickering through integrating DC-dimming LED backlights.
- ¹⁵ Recharges your battery up to 50% within 45 minutes when the system is off (using "shut down" command). Recommended for use with the HP adapter provided with the notebook, not recommended with a smaller capacity battery charger. After charging has reached 50% capacity, charging will return to normal speed. Charging time may vary +/-10% due to System tolerance. Available on select HP products. See <http://store.hp.com> for a full list of product features.

Technical Specifications Footnotes

- ³ Windows 10 MobileMark 18 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See <https://bapco.com/products/mobilemark-2018/> for additional details.
- ⁵ Recharges your battery up to 50% within 45 minutes when the system is off (using "shut down" command). Recommended for use with the HP adapter provided with the notebook, not recommended with a smaller capacity battery charger. 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. See <http://store.hp.com> for a full list of product features.
- 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.
- ¹⁰ Battery life tested by HP using continuous FHD video playback, 1080p (1920x1080) resolution, 150 nits brightness, system audio level at 17%, player audio level at 100%, played full-screen from local storage, headphone attached, wireless on but not connected. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage.
- ¹¹ Wi-Fi® supporting gigabit speeds is achievable when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160 MHz channels.
- ¹² Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.
- ¹³ Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other Wi-Fi 6 devices. Only available in countries where 802.11ax is supported.
- ¹⁶ Wi-Fi 6 (802.11ax) is not supported in Ukraine, Russia, and Indonesia 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.
- ²⁵ FreeSync™ is only available when it is connected on Display Port or HDMI port. FreeSync is an AMD technology is enabled on FHD or QHD displays and is designed to eliminate stuttering and/or tearing in games and videos by locking a display's refresh rate to the frame rate of the graphics card. Monitor, AMD Radeon™ Graphics and/or AMD A-Series APU compliant with DisplayPort™ Adaptive-Sync required. AMD Catalyst™ 15.2 Beta (or newer) required. Adaptive refresh rates vary by display.

