OMEN by HP Laptop 16-c0550nz

Play yourself up

Go beyond with the OMEN by HP 16.1 inch Gaming Laptop. Powered by an AMD processor[1] and mighty graphics, play at your best from anywhere. Expand your gaming world with sharper and smoother visual experiences courtesy of a high resolution and a fast refresh rate display. Stay cool under pressure with OMEN Tempest Cooling Technology[2] that prevents overheating even when your game heats up.

*Product image may differ from actual product

Stay cool under pressure
With 3-sided venting and 5-way airflow, OMEN Tempest Cooling Technology[2] prevents overheating even when your game heats up.

Visually stunning
Play at your best with tear-free gameplay at a fast refresh rate and eliminate screen flickering with HP Flicker-free.[3]

OMEN Gaming Hub
From software enhancements to hardware control, and live services, OMEN Gaming Hub elevates play in an easy and simple way.

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Featuring

Windows 10
Do great things confidently with the familiar feel of Windows - only better.[4]

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]

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.[5]

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.[6]

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.[7]

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.[8]

HP QuickDrop
This bridge between your PC and mobile device lets you share mobile content right to your PC with a simple, secure Wi-Fi connection.

ExpressVPN
Hide your IP address and encrypt your network data so no one can see what you're doing. Reduce the threat of hacking even when browsing on public Wi-Fi.[9]

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.[10]

McAfee® LiveSafe™
Free 12-month subscription of McAfee® LiveSafe™ service included. McAfee® LiveSafe™ service enriches your digital life by protecting your data, identity and all your devices so you can connect with confidence.[12]

PCIe SSD storage
Boot up in seconds with lightning fast speed with up to 512 GB PCIe 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.

Thoughtfully designed
Built with the environment in mind, our laptop design includes sustainable materials like ocean-bound plastic in the speaker enclosure.[16]

Thoughtfully designed
Built with the environment in mind, our laptop design includes sustainable materials like recycled aluminum.[17]

Keyboard keycaps contain post-consumer recycled plastic
We're bringing a more sustainable design to our keyboards by using keycaps made with post-consumer recycled plastic.[18]

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Specifications

Performance

Operating system
Windows 10 Home 64

Processor
AMD Ryzen™ 5 5600H (up to 4.2 GHz max boost clock, 16 MB L3 cache, 6 cores, 12 threads)[6,7]
Processor family: AMD Ryzen™ 5 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
512 GB PCIe® NVMe™ TLC M.2 SSD
Optical drive not included
100 GB Dropbox storage for 12 months[1]

Graphics
Discrete: NVIDIA® GeForce RTX™ 3050 Ti Laptop GPU (4 GB GDDR6 dedicated) ;

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

Display
40.9 cm (16.1") diagonal, FHD (1920 x 1080), 144 Hz, IPS, micro-edge, anti-glare, 250 nits, 45% NTSC[17]

Screen-to-body ratio
80.69%[18]

Power
200 W Smart AC power adapter;

Battery type
6-cell, 83 Wh Li-ion polymer[23]
315 g

Battery and Power
Up to 9 hours and 30 minutes[3];
Supports battery fast charge: approximately 50% in 45 minutes[5]

Maximum battery life video playback
Up to 10 hours and 45 minutes[10]

Connectivity

Network interface
Integrated 10/100/1000 GbE LAN

Wireless connectivity
Intel® Wi-Fi 6E AX210 (2x2) and Bluetooth® 5.2 combo (Supporting Gigabit data rate) [11,12,13]
MU-MIMO supported; Miracast compatible

Ports
1 SuperSpeed USB Type-C® 10Gbps 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 HDMI 2.1; 1 RJ-45; 1 AC smart pin; 1 headphone/microphone combo [19]
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
Paint finish cover and base, sandblasted keyboard frame

Software

HP apps
HP Audio Switch; HP Connection Optimizer; HP QuickDrop; OMEN Gaming Hub

Software
ExpressVPN (30 day free trial); LastPass Premium (30 day free trial) [22];
1 month trial for new Microsoft 365 customers [24]

Service & support
McAfee LiveSafe™ [2]

Additional information

Part Number
P/N: 4P6G5EA #UUZ
UPC/EAN code: 196188064238

Ecolabels
ENERGY STAR® certified; EPEAT® Silver registered [27]

Sustainable impact specifications:
Ocean-bound plastic in speaker enclosure; Contains recycled metal; Keyboard keycaps made with post-consumer recycled plastic [39,40,41]

Weight
2.3 kg;
Packed: 3.93 kg
Weight Note: Weight varies by configuration

Dimensions
36.92 x 24.8 x 2.25 cm;
Packed: 6.9 x 55.2 x 34.5 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

Security management
Fingerprint reader not available

Sensors
IR Thermal sensor

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Recommended accessories
*Not included.

OMEN Blast Headset
1A858AA

OMEN Vector Wireless Mouse
2B349AA

OMEN by HP Sequencer Keyboard
2VN99AA

Warranty services*

3-year pickup and return
UM946E

Key Selling Points 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] Thermal solution varies by configuration.
[3] The Flicker-free capability eliminates screen flickering through integrating DC-dimming LED backlights.

Feature Messaging Footnotes

[4] 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 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.microsoft.com.
[5] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
[6] 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.
[7] Features may require software or other 3rd party applications to provide the described functionality.
[8] Actual throughput may vary.
[9] Free 30-day trial, switch to a paid service at the end of the trial period. Each paid subscription grants you one (1) license to use on three (3) different devices at any given time. See www.expressvpn.com for more details.
[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.
[12] Internet service required and not included. Subscription required after the 12 month.
[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.
[16] Percentage of ocean-bound plastic contained in each component varies by product.
[17] Laptops manufactured with recycled aluminum material in product cover. Percent of recycled aluminum varies by product.
[18] Percentage of post-consumer recycled plastic contained in keycap varies by product.

Technical Specifications Footnotes

[1] 100 GB of free Dropbox storage for 12 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] Free 1-year subscription of McAfee LiveSafe service included. Internet access required and not included. Subscription required after expiration.
[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 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately
[12] Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6E (802.11ax) is backwards compatible with prior 802.11 specs. Wi-Fi 6E is part of Wi-Fi Certified. Only available in countries where Wi-Fi 6E (Tri-band - 2.4Ghz/5Ghz/6Ghz) is supported.
[13] The specifications for Wi-Fi 6E 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 6E 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] 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.
[22] Reverting to LastPass basic after 30 days.
[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.
[39] Percentage of ocean-bound plastic contained in each component varies by product.
[40] Percentage of recycled metal varies by product.
[41] Keyboard keycap contains post-consumer recycled plastic. Percentage of Post consumer recycled contained in each component varies by product.