

OMEN 17 Laptop 17-cb1087ng



Big rig power. Compact design.

Stunning desktop-grade power in a sleek, portable design keeps you playing your best wherever gaming takes you. Take on the most demanding AAA game titles with NVIDIA® graphics and a 10th generation Intel® Core™ processor¹. Immerse yourself in smooth gameplay on a narrow-bezel display with fast refresh rates.



Desktop-grade performance

Get the power of a desktop in your laptop. With a 10th generation Intel® Core™ processor¹, NVIDIA® graphics, and accelerated storage, nothing holds you back.



Fast, fluid gameplay

Crisp gameplay is crucial if you want to play at your best. With a high resolution and refresh rate, on-screen visuals are swift and smooth, while a narrow-bezel display delivers edge-to-edge immersion.



Designed for power

The OMEN 17 Laptop's sleek, modern design is engineered to produce desktop-grade power. With an advanced thermal cooling solution and single-panel access to internals for easy upgradability, nothing stops you from playing at your best.



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Featuring

Windows 10

Do great things confidently with the familiar feel of Windows - only better.²

NVIDIA® GeForce RTX™ 2080 SUPER graphics

Powered by award-winning NVIDIA Turing™ architecture, experience gaming power like never before. Enjoy ultra-fast 4K gaming and new levels of realism with rapid memory, high clocks and more cores.

10th Generation Intel® Core™ processor

Take mobile gaming and content creation to the next-level with breakthrough performance. Let your connectivity flow with fast downloads and smooth streaming with optional Wi-Fi 6 and optional lighting fast Thunderbolt™ 3 support.³

Full HD display

Sit back and enjoy crystal-clear visuals and images with the vibrant quality of 2 million pixels. The 1920 x 1080 resolution gives all your digital content a new dimension.⁴

Dual storage configurations

By including both an SSD drive for the operating system and a traditional hard drive you get the benefits of both worlds—fast boot up times, snappy responsiveness, and larger storage capacity.

Four-zone island-style backlit 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 Command Center.

DDR4 RAM

Designed to run more efficiently and more reliably at faster speeds, DDR4 is the future of RAM. With its higher bandwidth, everything from multi-tasking to playing games gets a performance boost.

PCIe SSD storage

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

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

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.

OMEN Command Center

Reduce latency in online gaming by prioritizing traffic on your network with Network Task Prioritization and split traffic across two data streams with Dual Force functionality.

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.⁷

HDMI out

It's never been easier to give your device a bigger or second display. With HDMI output you can transmit HD video and sound with just one standard cable.

Advanced thermal management

The latest in heat management brings you an optimized thermal design and IR sensor, which keeps your laptop cool to the touch without affecting sound quality.

Sleek design

Easily take this thin and light PC from room to room or on the road. When your PC goes wherever you go, staying productive and entertained has never been easier.

Narrow bezel display

By squeezing a larger screen into a smaller frame, this narrow bezel optimizes your display's appearance with an efficient design.

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

Single access panel

Quickly access your PC's internals with the large, single panel on the bottom of the laptop. Held on by only a few screws, it's easily removable for upgrading or maintenance.

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.

An exceptionally rich audio experience

With HP Dual Speakers, HP Audio Boost, and custom tuning by the experts at Bang & Olufsen, entertainment comes 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.

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Specifications

Performance

Operating system

Windows 10 Home 64

Processor

Intel® Core™ i7-10750H (2.6 GHz base frequency, up to 5 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores)^{6,7}

Processor family: 10th Generation Intel® Core™ i7 processor

Chipset

Intel® HM470

Memory

32 GB DDR4-2933 SDRAM (2 x 16 GB)

Transfer rates up to 2933 MT/s.

Storage

512 GB PCIe® NVMe™ M.2 SSD

1 TB 7200 rpm SATA

Optical drive not included

Dropbox¹

Graphics

Discrete: NVIDIA® GeForce® RTX 2080 Super™ (8 GB GDDR6 dedicated) ;

Powered by NVIDIA Turing™ GPU architecture

Audio

Audio by Bang & Olufsen; DTS:X® Ultra; OMEN Audio Control Support DTS:X® Ultra; Dual speakers; HP Audio Boost 2.0

Display

43.9 cm (17.3") diagonal FHD, 300 Hz, IPS, anti-glare, WLED-backlit, 300 nits, 100% sRGB (1920 x 1080)¹⁷

Screen-to-body ratio

80.47%¹⁸

Power

330 W Smart AC power adapter;

Battery type

4-cell, 70 Wh Li-ion polymer;

287 g;

Battery and Power

Connectivity

Network interface

Integrated 10/100/1000 GbE LAN

Wireless connectivity

Intel® Wi-Fi 6 AX 201 (2x2) and Bluetooth® 5 Combo (Supporting Gigabit file transfer speeds)^{11,12,13,16}

MU-MIMO supported; Miracast compatible

Ports

1 Thunderbolt™ 3 (40Gbps signaling rate) with 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 Mini DisplayPort™; 1 HDMI 2.0a; 1 RJ-45; 1 AC smart pin; 1 headphone/microphone combo; 1 microphone

1 multi-format SD media card reader

Webcam

HP Wide Vision HD Camera with integrated dual array digital microphone

Design

Product color

Shadow black

Sandblasted hairline finish

Software

HP apps

OMEN Command Center; HP 3D DriveGuard; HP Audio Switch; HP JumpStart; HP Support Assistant

Software

Alexa; Netflix; ExpressVPN (30 day free trial); LastPass Premium (30 day free trial);

1 month trial for new Microsoft Office 365 customers

Service & support

McAfee LiveSafe™²

Additional information

Part Number

P/N: 16S58EA #ABD

UPC/EAN code: 195122059750

Energy efficiency compliance

ENERGY STAR® certified; EPEAT® Silver registered

Weight

3.33 kg;

Packed: 4.7 kg

Weight Note: Weight varies by configuration

Dimensions

40.5 x 28.5 x 2.99 cm;

Packed: 6.9 x 59.8 x 34.5 cm

Dimension Note: Dimensions vary by configuration

Warranty

2 year limited parts, labour, and pickup and return service; You can expand the warranty coverage of your product to reach up to 3 years in total; for more information go to the "Options and accessories" web section on hp.com product pages.

Keyboard

Full-size, 4-zone RGB backlit, shadow black keyboard with numeric keypad and 26-Key

Rollover Anti-Ghosting Key technology

Touchpad with multi-touch gesture support; Precision Touchpad Support

Features

Support NVIDIA® G-SYNC® technology

Security management

Fingerprint reader not available

Sensors

Accelerometer

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Recommended accessories

* Not included.



OMEN by HP Photon
Wireless Mouse
6CL96AA



OMEN by HP Mindframe
Prime Headset
6MF36AA



OMEN Transceptor 17
Duffel Bag
7MT82AA



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. Intel's numbering, branding and/or naming is not a measurement of higher performance.

Feature Messaging Footnotes

² 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>.

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. Intel's numbering, branding and/or naming is not a measurement of higher performance. Internet service required and not included. 4K content required to view full 4K images. Graphics output may be limited based on the maximum resolution of the display

⁴ Full high-definition (FHD) content is required to view FHD images.

⁵ Features may require software or other 3rd party applications to provide the described functionality.

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 Internet service required and not included. Subscription required after the 12 month.

¹⁴ Thermal solution varies by configuration.

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

¹ New Dropbox users are eligible to get 25 GB of Dropbox space free 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 30 day subscription of McAfee LiveSafe service included. Internet access required and not included. Subscription required after expiration.

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. 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.

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.

²² Reverting to LastPass basic after 30 days.

