

OMEN Laptop 17-cb0006na



Desktop power packed in a laptop

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® GeForce® graphics and a 9th 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 9th generation Intel® Core™ processor¹, NVIDIA® GeForce® 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 fast refresh rate², 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 upgradeability, 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.³

NVIDIA® GeForce RTX™ 2070 graphics

The all-new NVIDIA Turing™ architecture with breakthrough ray tracing technology brings the future of gaming with incredible realism and performance.

NVIDIA® G-SYNC™

By synchronizing the refresh rates of your GPU and display, NVIDIA® G-SYNC™ technology delivers gameplay that's sharp, fluid, and stutter-free with minimal input lag.

9th generation Intel® Core™ processor i7

Experience a breakthrough in processor performance that delivers incredible in-game experiences and enables crisp, simultaneous live-streaming. Edit and render pure 4K quality, and stream only the best content.

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.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.

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

Available in capacities up to 512 GB, PCIe-based flash storage is up to 17x faster than a traditional 5400-rpm laptop hard drive.⁵

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.⁶

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 5.⁷

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 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.

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.

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.

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Specifications

Performance

Operating system

Windows 10 Home 64

Processor

Intel® Core™ i7 9750H (2.6 GHz base frequency, up to 4.5 GHz base with Intel® Turbo Boost Technology, 12 MB cache, 6 cores)^{5,7}

Processor family: 9th Generation Intel® Core™ i7 processor

Chipset

Intel® HM370

Memory

16 GB DDR4-2666 SDRAM (2 x 8 GB)

2 user-accessible memory slots; Transfer rates up to 2666 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™ 2070 (8 GB GDDR6 dedicated) ;

Powered by NVIDIA Turing™ GPU architecture

Audio

B&O; dual speakers; HP Audio Boost; Omen Audio Control Support DTS:X® Ultra

Display

43.9 cm (17.3") diagonal FHD 144 Hz IPS anti-glare WLED-backlit (1920 x 1080)

Screen-to-body ratio

80.47%

Power

230 W AC power adapter;

Battery type

4-cell, 70 Wh Li-ion polymer;

222 g;

Battery and Power

Connectivity

Network interface

Integrated 10/100/1000 GbE LAN

Wireless connectivity

Intel® Wi-Fi 6 AX 200 (2x2) and Bluetooth® 5 Combo (Supporting Gigabit file transfer speeds)^{11,12,13}

MU-MIMO supported; Miracast compatible

Ports

1 USB 3.1 Gen 2 Type-C™ with Thunderbolt™ 3 (40 Gb/s signaling rate, DisplayPort™ 1.4, HP Sleep and Charge); 3 USB 3.1 Gen 1 Type-A; 1 HDMI; 1 RJ-45; 1 headphone/microphone combo; 1 microphone; 1 AC smart pin; 1 Mini DisplayPort™

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

1 month trial for new Microsoft Office 365 customers

Service & support

McAfee LiveSafe™ 2

Additional information

Part Number

P/N: 7DT12EA #ABU

UPC/EAN code: 193905344581

Energy efficiency compliance

ENERGY STAR® certified; EPEAT® Silver registered

Weight

3.31 kg;

Packed: 4.7 kg

Weight Note: Weight varies by configuration

Dimensions

40.5 x 29.5 x 2.7 cm;

Packed: 6.9 x 34.5 x 59.8 cm

Dimension Note: Dimensions vary by configuration

Warranty

1 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 island-style white legend 4-zone lighting RGB backlit keyboard with numeric keypad

Touchpad with multi-touch gesture support and 26-Key Rollover Anti-Ghosting Key technology; Precision Touchpad Support

technology; Precision Touchpad Support

Features

NVIDIA G-SYNC™ technology

Security management

Fingerprint reader not available

Sensors

Accelerometer

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Recommended accessories

* Not included.



OMEN by HP Mouse 600
1KF75AA



OMEN by HP Headset 800
1KF76AA



OMEN by HP Mouse Pad 100
1MY14AA



3-year pickup and return
UM963E

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.

² All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

Feature Messaging Footnotes

³ 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>.

⁴ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

⁵ Based on HP internal testing using CrystalDiskMark benchmarking software. Performance is sequentially faster (read only) compared to traditional 5,400 rpm HDD

⁶ Features may require software or other 3rd party applications to provide the described functionality.

⁷ 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.

Technical Specifications Footnotes

¹ 25 GB of free online storage for one year from date of registration. For complete details and terms of use, including cancellation policies, visit the website at www.dropbox.com. Internet service required and not included.

² McAfee LiveSafe 12-month free trial offer (Internet access required. First 12 months included. Subscription required for live updates afterwards.)

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 is not a measurement of higher performance. Intel, Pentium, Intel Core, Celeron, Intel logo and the Intel Inside logo are trademarks of Intel Corporation in the U.S. and other countries.

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 The specifications for Wi-Fi 6 (802.11ax) are draft specifications 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 802.11ax WLAN devices.

