Datasheet

OMEN Laptop 17-an105na

Portable gaming powerhouse

When the competition is relentless, greatness is achieved by those heroes who rise to the occasion. Equipped with powerful hardware and an aggressive design, the OMEN Laptop takes mobile performance seriously, letting you conquer any challenge in-game from just about anywhere.



Go on, turn up the settings
With this kind of power, they'll be running scared. Includes an Intel® Core™ processor[1] and NVIDIA® graphics. And with high performance cooling in your arsenal, you're ready to conquer even the most intensive AAA titles.



Every last detail. In your sights.
Command every keystroke on a zoned backlit keyboard with customizable macros and 26-key rollover anti-ghosting, which helps ensure multiple keystrokes are detected. With a 4K[2] display or FHD[3] with 60 Hz or 144 Hz refresh rate display[4] (on select models), combat feels closer than ever.



Upgrade. Expand. Evolve.
Level up to the latest hardware and make upgrading a breeze with single panel access to internals. A Thunderbolt 3-certified USB-C™ port (on select models)[5], 3 USB Type A ports, and an HDMI port lets you easily adapt to all the action.

OMEN

HP Fast Charge

epeat SILVER

ENERGY STAR

NVIDIA GEFORCE GTX

[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 is not a measurement of higher performance. [2] 4K content required to view full 4K images. [3] Full high-definition (FHD) content required to view FHD images. [4] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. [5] USB Type-C™ and USB-C™ are trademarks of USB Implementers Forum.

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Featuring

HP Audio Boost
Take your audio experience to the next level with smart amplification technology giving you loud, clear and dynamic sound.

4K IPS display
With 8.2 million pixels, be mesmerized by the 4K experience. The spectacular 3840 x 2160 resolution delivers your content in jaw-dropping quality with true-to-life definition and 178º wide-viewing angles.[18]

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.[19]

Oculus ready
We've collaborated with Oculus to tune and test our machines for a smooth, seamless VR experience right out of the box.

HTC optimized
Tuned and tested with the engineers at HTC, we've stressed the hardware and drivers with the most intensive games to ensure an optimal VR experience right out of the box.

Dragon Red backlit keyboard
Illuminate your entire keyboard in Dragon Red, or highlight WASD in white for instant recognition. And with programmable macro keys, one press instantly delivers a fully customizable key combination.

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.

OMEN Command Center
Set up devastating one-click key combinations with included software that gives control over the customizable macro keys. This easy-to-use interface also helps prioritize gaming traffic, minimizing network latency

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.[20]

HP Jumpstart
When you boot up your PC for the first time, get a personal walkthrough during the setup and get an informative overview of your PC's features.

USB-C™ Thunderbolt
Power your device, connect an external display, or transfer data at a blazing 40Gbs all from one impressive USB-C™ Thunderbolt™ port. And it's reversible, so you never have to worry about plugging in upside down.[21,22]

[18] 4K content required to view full 4K images.
[19] Full high-definition (FHD) content is required to view FHD images.
[20] Features may require software or other 3rd party applications to provide the described functionality.
[21] Transfer rate may vary. All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
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Specifications

Performance

Operating System
Windows 10 Home 64
Processor
Intel® Core™ i7-8750H (2.2 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores)[6,7]
Processor family: 8th 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
1 TB 7200 rpm SATA
256 GB PCIe® NVMe™ M.2 SSD
Dropbox[1]
Graphics
Discrete NVIDIA® GeForce® GTX 1070 (8 GB GDDR5 dedicated)
Audio
Bang & Olufsen, dual speakers, HP Audio Boost, DTS Headphone:X™ support
Display
43.9 cm (17.3") diagonal FHD 144 Hz IPS anti-glare WLED-backlit (1920 x 1080)
Power
230 W AC power adapter
Battery Type
8-cell, 86 Wh Li-ion
Supports battery fast charge: approximately 50% in 45 minutes[5]
Maximum battery life video playback
Up to 9 hours and 15 minutes[3]

Connectivity

Network interface
Integrated 10/100/1000 GbE LAN
Wireless connectivity
Intel® Wireless-AC 9560 802.11b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 Combo (MU-MIMO supported; Miracast compatible)
Ports
1 Thunderbolt™ 3 (Data Transfer up to 40 Gb/s, DP1.2, HP Sleep and Charge); 3 USB 3.1 Gen 1 (1 HP Sleep and Charge); 1 Mini DisplayPort™; 1 HDMI; 1 RJ-45; 1 headphone/microphone combo; 1 microphone-in
1 multi-format SD media card reader
Webcam
HP Wide Vision HD Camera with integrated dual array digital microphone

Design

Product Color
Shadow black cover; Carbon fiber cover pattern, sandblasted hairline keyboard frame finish

Software

HP Apps
OMEN Command Center; HP Audio Switch; HP CoolSense; HP JumpStart
Software
Netflix; 1 month trial for new Microsoft Office 365 customers
Service & support
McAfee LiveSafe™ [2]

Additional information

Part Number
P/N: 3ZV50EA #ABU
UPC/EAN code: 192545917070
Energy Efficiency Compliance
ENERGY STAR® certified; EPEAT® Silver registered
Weight
3.78 kg
Dimensions
42.3 x 30.4 x 3.3 cm
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 4-zone lighting backlit keyboard with numeric keypad and NKRO
Touchpad with multi-touch gesture support
Features
NVIDIA G-SYNC™ technology
Security management
Kensington NanoSaver™ security lock support
Sensors
Accelerometer

Recommended accessories*

* Not included.



OMEN by HP Mouse 600
1KF75AA



OMEN by HP Headset 800
1KF76AA



OMEN by HP Keyboard 1100
1MY13AA

Warranty services*

3-year pickup and return
U4819E

[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 30-day free trial offer (Internet access required. First 30 days included. Subscription required for live updates afterwards.)[3] Estimated Windows 10 battery life based on Windows 10 / MobileMark® 2014 benchmarking. 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 www.bapco.com 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 Envy, HP Omen and HP Pavilion models. 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.

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