

OMEN X Laptop 17-ap003na



Push the limits of your game with the most powerful OMEN laptop yet.

Engineered for overclocking, the OMEN X Laptop lets you define your own limits. Outperform your opponents with desktop-class graphics performance, a mechanical keyboard, and easy upgradability. With this kind of power, your team is destined for glory.



Overclocked performance. Unstoppable power.

Includes an unlocked¹ Intel® Core™ processor² (HK series), factory overclocked NVIDIA GeForce® GTX® 1080 graphics. All that power stays cool with advanced thermals, so you can play even the most demanding games without throttling performance.

Mechanical precision. Maximum immersion.

Control the outcome of every match on a mechanical RGB LED backlit keyboard with 2.5 mm travel, N-key rollover, and customizable key maps. Stay competitive with a crisp 1080p display with 120Hz refresh rate³ and NVIDIA G-SYNC™ technology.

Easy upgrades. Enhancements you can see.

See-through single panel access to internals makes upgrading a breeze and let's you see what your laptop's got inside. Create your ideal battle station with 2 Thunderbolt certified USB 3.1 Type-C™ ports, 3 USB 3.0 Type A ports, and an HDMI port.

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¹ Altering clock frequency and/or voltage may: (i) reduce system stability and useful life of the system, processor, and other system components; (ii) cause the processor and other system components to fail; (iii) cause reductions in system performance; (iv) cause additional heat or other damage; and (v) affect system data integrity. HP and Intel have not tested, and does not warrant, the operation of the processor beyond its specifications. HP and Intel have not tested, and do not warranty, the operation of other system components beyond their industry standard specifications. HP and Intel assume no responsibility that the processor and other system components, including if used with altered clock frequencies and/or voltages, will be fit for any particular purpose. ² 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. ³ Full high-definition (FHD) content required to view FHD images. All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. ⁴ 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™ i7-7820HK (2.9 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores) 2.9 GHz
Processor family: 8th Generation Intel® Core™ i7 processor

Chipset

Intel® CM238

Memory

16 GB DDR4-2400 SDRAM (2 x 8 GB)

Transfer rates up to 2400 MT/s

Storage

1 TB 7200 rpm SATA

256 GB PCIe® NVMe™ M.2 SSD

Dropbox¹

Graphics

Discrete NVIDIA® GeForce® GTX 1080 (8 GB GDDR5X dedicated)

Audio

Bang & Olufsen, dual speakers, HP Audio Boost, DTS Headphone:X™ support

Display

43.9 cm (17.3") diagonal FHD 120 Hz IPS anti-glare WLED-backlit (1920 x 1080)

Power

330 W AC power adapter

Battery Type

6-cell, 99 Wh Li-ion

Supports battery fast charge: approximately 50% in 30 minutes⁵

Connectivity

Network interface

Integrated 10/100/1000 GbE LAN

Wireless connectivity

802.11b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 combo (Miracast compatible)

Ports

2 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 FHD Camera with integrated dual array digital microphone

Design

Product Color

Shadow black; Aluminum cover 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: ZPM08EA #ABU

UPC/EAN code: 192018093140

Energy Efficiency Compliance

ENERGY STAR® certified; EPEAT® Silver registered

Weight

4.85 kg

Dimensions

42.5 x 32.72 x 3.64 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 backlit keyboard with numeric keypad and NKRO

Touchpad with multi-touch gesture support

Features

NVIDIA G-SYNC™ technology

Security management

Kensington MicroSaver® lock slot; Trusted Platform Module (TPM) support

Compatible accessories*

* Not included.

Warranty services*



3-year pickup and
return
UM963E

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.)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.⁴ Recharges your battery up to 50% within 30 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 Spectre 2-in-1 and HP x2 PC models. See <http://store.hp.com> for a full list of product features.⁵ 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.

