Datasheet

OMEN Laptop 17-an022na

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.
A Dragon Red backlit keyboard with highlighted WASD, customizable macros, and 26-key rollover anti-ghosting, ensures every keystroke is detected. With a 1080p with 120 Hz refresh rate[2] display, combat without frustrating lag and image ghosting.

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[3], 3 USB Type A ports, and an HDMI port lets you easily adapt to all the action.

[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] 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. [3] USB Type-C™ and USB-C™ are trademarks of USB Implementers Forum.

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Specifications

Performance

Operating System
Windows 10 Home 64
Processor
Intel® Core™ i7-7700HQ (2.8 GHz base frequency, up to 3.8 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores)[6,7]
Processor family: 7th Generation Intel® Core™ i7 processor
Chipset
Intel® HM175
Memory
16 GB DDR4-2400 SDRAM (2 x 8 GB)
2 user-accessible memory slots; Transfer rates up to 2400 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; HP Audio Boost; Dual speakers
Display
43.9 cm (17.3") diagonal FHD 120 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 90% in 90 minutes[5]
Target battery life
Up to 12 hours and 45 minutes estimated battery time[3]
Maximum battery life video playback
Up to 11 hours[3]

Connectivity

Network interface
Integrated 10/100/1000 GbE LAN
Wireless connectivity
Intel® 802.11b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo (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 FHD IR 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 Control; HP Audio Switch; HP CoolSense; HP JumpStart; HP Orbit; HP Sure Connect
Software
Netflix; 1 month trial for new Microsoft® Office 365 customers
Service & support
McAfee LiveSafe™ [2]

Additional information

Part Number
P/N: 2MD75EA #ABU
UPC/EAN code: 192018631649
Energy Efficiency Compliance
ENERGY STAR® certified; EPEAT® Silver registered
Weight
3.78 kg
Dimensions
42.3 x 30.4 x 3.3 cm
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 island-style backlit keyboard with numeric keypad
Touchpad with multi-touch gesture support
Features
NVIDIA G-SYNC™ technology
Security management
Kensington MicroSaver® lock slot; Power-on password; Accepts third-party security lock devices

Compatible 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
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 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 90% within 90 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 90% capacity, charging speed will return to normal speed. Charging time may vary +/-10% due to System tolerance. Available on select HP Spectre, HP Envy, HP Omen and HP Pavilion PC 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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