ProductSheet

OMEN Gaming Laptop 16-wf0006ns (836Q1EA)

Enjoy powerful fun anywhere.

The OMEN 16 inch gaming laptop is ready to go wherever you are. Enjoy desktop-level power with a 13th Gen Intel® Core™ processor[1] and a modern NVIDIA® graphics card, both regulated by enhanced internal cooling. The screen is equally impressive with high resolution, smooth framerates, and anti-glare features.

Desktop levels of power anywhere
The processor, graphics card, and memory to handle the neediest of games wherever you may be.

Laptop cooling excellence
Performance doesn't matter if your laptop sounds like a jet engine, so choose OMEN's enhanced thermal design.

Buttery smooth 16.1" display
Expect immersion with a massive 3-sided bezel edge, high resolution 16.1" display with anti-glare features.

Featuring

Extend beyond performance to let your PC do even more at once
Offering more than just a performance score. 13th Gen Intel® Core™ Processors advance real-world computing and deliver more ultra-efficient multi-tasking. [2]

Beyond Fast
NVIDIA® GeForce RTX™ 40 Series GPUs are beyond fast. Powered by the NVIDIA Ada Lovelace architecture which delivers a leap in both performance and AI-powered graphics. Experience lifelike virtual worlds with ray tracing and ultra-high FPS gaming. [3]

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.

QHD IPS antiglare display
Get lost in the captivating QHD resolution with IPS technology. Coupled with an antiglare screen to reduce light reflection, this display provides a remarkable entertainment experience. [4]

Eyesafe® Certified Display
Eyesafe® certified displays meet TÜV low blue light requirements and Eyesafe® standards for protecting your eyes from harmful blue light without distorting colors to reduce eyestrain when working for long periods of time.

Specifications

Operating system	FreeDOS 3.0
Product color	Shadow black cover and base, shadow black aluminum keyboard frame, black chrome logo
Product design	Paint finish cover and base, anodized keyboard frame
Processor family	13th Generation Intel® Core™ i7 processor
Processor	Intel® Core™ i7-13700HX (up to 5.0 GHz with Intel® Turbo Boost Technology, 30 MB L3 cache, 16 cores, 24 threads) [6,7]
Chipset	Intel® HM770
Memory	32 GB DDR5-4800 MT/s (2 x 16 GB)
Internal Storage	1 TB PCIe® Gen4 NVMe™ TLC M.2 SSD
Display	40.9 cm (16.1") diagonal, QHD (2560 x 1440), 240 Hz, 3 ms response time, IPS, micro-edge, anti-glare, Low Blue Light, 300 nits, 100% sRGB
Screen-to-body ratio (without speakers)	83.17%[18]
Audio	Audio by Bang & Olufsen; Dual speakers; HP Audio Boost; DTS:X Ultra™
Dimensions (W x D x H)	36.9 x 25.94 x 2.35 cm
Weight	2.39 kg
Package dimensions (W x D x H)	6.9 x 55.2 x 34.5 cm
Package weight	4.28 kg
Keyboard	Full-size, per key RGB backlit, shadow black keyboard and 26-Key Rollover Anti-Ghosting Key technology
Pointing device	HP Imagepad
Input devices	IR thermal sensor
Camera	HP True Vision 1080p FHD camera with temporal noise reduction and integrated dual array digital microphones
Ports	1 USB Type-A 5Gbps signaling rate; 1 USB Type-A 5Gbps signaling rate (HP Sleep and Charge); 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); 1 HDMI 2.1; 1 RJ-45; 1 AC smart pin; 1 headphone/microphone combo[19,42]
Network interface	Integrated 10/100/1000 GbE LAN
Wireless	Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card[11,12]
Power supply type	280 W Smart AC power adapter
Battery type	6-cell, 83 Wh Li-ion polymer *([23])*
Battery life	Up to 4 hours and 30 minutes[3]
Battery recharge time	Supports battery fast charge: approximately 50% in 30 minutes[5]
Battery life video playback	Up to 4 hours and 30 minutes
Special features	NVIDIA® G-SYNC® support
Sustainability specifications	Ocean-bound plastic in speaker enclosure(s) and bezel; Keyboard mechanism made from agriculture waste; Recycled metal in keyboard frame; Keyboard keycaps and scissors contain post-consumer recycled plastic
Security management	Camera privacy shutter; Trusted Platform Module (Firmware TPM) support
UPC number	197497370102
Manufacturer Warranty	1 year (1/1/0) limited warranty includes 1 year of parts and labor. No on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.
What's in the box	HyperX Cloud II Core Wireless Gaming Headset

Top Recommended Displays, Accessories and Services

OMEN by HP Displays	
OMEN by HP 27 inch QHD 240Hz Gaming Monitor - OMEN 27qs	780J4AA
OMEN by HP 27 inch FHD 240Hz Gaming Monitor - OMEN 27s	780G5AA
OMEN by HP 31.5 inch QHD 165Hz Curved Gaming Monitor - OMEN 32c	780K6AA
HyperX Cloud Wireless Headset SC	
HyperX Cloud III Wireless - Gaming Headset	77Z46AA
HyperX Cloud III Wireless - Gaming Headset	77Z45AA
HyperX Cloud Headsets SC	
HyperX Cloud III - Gaming Headset (Black/Red)	727A9AA
HyperX Cloud Earbuds SC	
HyperX Cloud Earbuds II RED	705L8AA
HyperX Cloud Earbuds II Black	70N24AA
HyperX USB Microphones	
HyperX QuadCast S - USB Microphone (Black-Grey) - RGB Lighting	4P5P7AA
HyperX Pulsefire Haste Mice SC	
HyperX Pulsefire Haste 2 - Wireless Gaming Mouse (Black)	6N0B0AA
HyperX Pulsefire Haste 2 - Wireless Gaming Mouse (White)	6N0A9AA
HyperX Pulsefire Haste 2 - Gaming Mouse (Black)	6N0A7AA
HyperX Alloy Origins Keyboards SC	
HyperX Alloy Origins 60 - Mechanical Gaming Keyboard - HX Red (US Layout)	4P5N4AA
HyperX Alloy Rise SC	
HyperX Alloy Rise 75 - Gaming Keyboards	7G7A4AA
HyperX Alloy Rise - Gaming Keyboards	7G7A3AA

Messaging Footnotes

[1] Multi-core is designed to improve the performance of certain software products. Not all customers or software applications will necessarily benefit from the 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.

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[4] Quad high-definition (QHD) content is required to view QHD images.

Technical Specifications Footnotes

[3] Windows MobileMark 18 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 https://bapco.com/products/mobilemark-2018/ for additional details.

[5] Recharges your battery up to 50% within 30 minutes when the system is off using "shut down" command, using HP adapter provided with the notebook or recommended power adapter disclosed in specifications (see http://store.hp.com). 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.

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[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 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately.

[12] Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where 6GHz is supported.

[18] Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk.

[19] For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device.

[42] For optimal performance and battery chargeability while gaming and rendering, use the power adapter that ships with the PC. You can use the 100W/20V Type-C adapter or power bank when running light loading tasks. System-off charging is only supported on 20V Type-C adapter or power bank.

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