HyperX OMEN 16 inch Gaming Laptop PC 16-am2000 (D0PY7AV) ()

Overview

Speed beyond power, victory beyond doubt

The new HyperX OMEN 16 not only has the power of the latest next-gen Intel®[1] and NVIDIA® components, but it also has the proper thermal innovations to keep them from burning out. Pair that with OMEN AI for maximum possible FPS at the click of a button and Unleashed Mode for that extra boost in performance, and you have our most reliably powerful laptop yet.

Unleash your performance

Get the best possible performance with the latest next-gen NVIDIA® GPUs and Intel® Processors[1].

Claim the competitive advantage

New faster and sharper display options, so your game looks and plays exactly like it was meant to.

Maximized airflow, maximized wins

Handle the heat with high efficiency fans that reduce noise and keeps your laptop cool while you game on.

Designed with purpose

Our laptop design includes ocean-bound plastics[2].

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[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. Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost/ for more information. Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third-party software may have specific configuration or compatibility requirements. Potential NPU inferencing performance varies by use, configuration, software and other factors.

[2] Percentage of ocean-bound plastic contained in each component varies by product.

Specifications

Chipset	Intel® HM870
Audio Features	Dual speakers; HP Audio Boost; HyperX; DTS:X Ultra™
Product Dimensions W x D x H (metric)	35.75 x 26.9 x 2.61 cm (front); 35.75 x 26.9 x 2.58 cm (rear)
Product Dimensions W x D x H (imperial)	14.07 x 10.59 x 1.03 in (front); 14.07 x 10.59 x 1.02 in (rear)
Weight (metric)	2.48 kg
Weight (imperial)	5.47 lb
Sensors	IR thermal sensor
External I/O Ports	1 USB Type-A 10Gbps signaling rate; 2 USB Type-A 5Gbps signaling rate; 1 AC smart pin; 1 HDMI 2.1; 1 headphone/microphone combo; 1 RJ-45; 1 USB Type-C® 10Gbps signaling rate (USB Power Delivery 3.0, DisplayPort™ 1.4, HP Sleep and Charge)[19,42]
Expansion Slots	2 M.2 (SSD)
Package Dimensions W x D x H (metric)	6.3 x 50.4 x 30.5 cm
Package Weight (metric)	3.94 kg
Network Interface	Integrated 10/100/1000 GbE LAN
Battery Recharge Time	Supports battery fast charge: approximately 50% in 30 minutes[5]
Sustainability Specifications	Ocean-bound plastic in cover, keyboard frame, base, bezel, inner frame, speaker enclosure(s), sideband and hinge cap(s); Keyboard keycaps, scissors and keyboard plate contain post-consumer recycled materials
Security Management	Camera privacy shutter; Trusted Platform Module (Firmware TPM) support

Additional specifications

ALC Package depth, metric	50.4
ALC Package height, metric	30.5
ALC Package width, metric	6.3
Aspect Ratio	16:10
Ethernet (RJ-45)	1
Flicker-Free	Yes[53]
HDMI out – version	2.1
HDMI –out	1
Headphone/microphone combo	1
Package Dimensions W x D x H (imperial)	2.48 x 19.84 x 12 in
Package Weight (imperial)	8.69 lb
Package depth, imperial (ALC)	19.84
Package height, imperial (ALC)	12
Package width, imperial (ALC)	2.48
Packaging unit of measure (imperial)	in
Packaging unit of measure (metric)	cm
Performance Technology	Intel® Evo™ laptop
Playbook TS Icon Battery Life	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png
Playbook TS Icon Connectivity	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.png
Playbook TS Icon Dimensions NB	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08250394.png
Playbook TS Icon Display NB	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08205649.png
Playbook TS Icon Graphics	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169202.png
Playbook TS Icon Memory	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267700.png
Playbook TS Icon OS	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.png
Playbook TS Icon Processor	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201972.png
Playbook TS Icon Storage	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192819.png
Playbook TS Icon Weight Imperial	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05790117.png
Playbook TS Icon Weight Metric	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267650.png
Product Brand Name	HP
Screen-To-Body Ratio (without speakers)	87%[18]

USB Type-A	3
USB Type-C	1

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[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.

[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.

[53] The Flicker-free capability is eliminating screen flickering through integrating DC-dimming LED backlights or LED emissions. OLED panel is functional with DC-DIMMING when above 100nits.

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