

HP OMEN 16 GAMING LAPTOP

POWERED BY AMD RYZEN™ 7000 SERIES PROCESSORS



2023

Highlights

PORTABLE, POWERFUL PERFORMANCE FROM AMD RYZEN™ PROCESSORS

- Speed meets endurance with the latest AMD Ryzen™ 7040HS Series processors, bringing pure performance for on-the-go gaming
- Usher in the future with AMD Ryzen™ AI, the world's first integrated AI engine on a Windows x86 processor¹
- AMD smart power management technology helps enable long-lasting battery to stay on the move, up to 13 hours video playback²

IMMERSIVE ENTERTAINMENT

- See it all clearly in up to QHD DDS 16" display with 240Hz refresh rate and a new FHD built-in camera
- Immerse in sound from Audio by Bang & Olufsen with dual speakers and HP Audio Boost

EVOLVED COOLING DESIGN

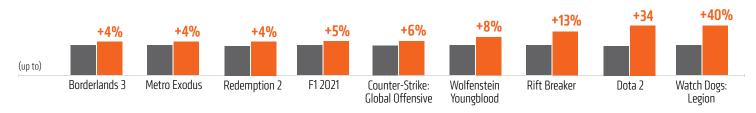
• Up to 29% more airflow to keep your gaming laptop cool (compared to 2022 OMEN 16)

HIGH-PERFORMANCE MOBILE GAMING³

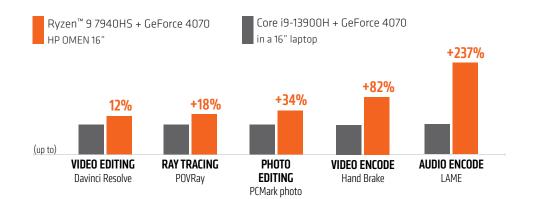


Core i9-13900H + GeForce 4070 in a 16" laptop

(FPS tested at 1080P high settings)



POWER THROUGH APPLICATIONS WITH EASE⁴



BATTERY LIFE THAT LASTS²

HP OMEN w/ AMD Ryzen™ 9 7940HS (up to):

13 hours battery life

video playback

vs Intel Core i9-13900H (up to):

39% longer battery life while

video conferencing

98% longer video playback

battery life



AMD RYZEN™ AI FOR NEXT-GEN EXPERIENCES



Experience the power of personal AI in your laptop with AMD Ryzen[™] AI, the world's first dedicated AI engine on an x86 PC processor. Open the door to new Al-powered experiences, efficient processing of AI workloads to help extend battery life, while helping keep data more private by running on local AI hardware. AMD Ryzen™ AI is here and it's ready now.

AMD offers a built-in AI engine AVAILABLE NOW in laptops⁶; Intel does not*.

13th Gen Intel Core Processors	AMD Ryzen™ 7040 Series Processors
X	\checkmark
No integrated Al engine	AMD Ryzen™ AI built-in

*As of Oct 2023 there are no Intel laptops for purchase with an integrated AI engine

SPECIFICATIONS

Processor

AMD Ryzen™ 9 7940HS (8-core/16-thread, 24MB cache, up to 5.2 GHz boost⁵)

Al Engine

AMD Ryzen™ Al

up to Nvidia GeForce RTX 4070

Storage and Memory

- up to 2TB PCle Gen4 NVME™ TLC M.2 SSD
- up to 32GB DDR5-5600MHz memory

Connectivity

Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.36

Design

Audio by Bang & Olufsen with dual speakers and HP Audio Boost

- up to 6-cell, 83 Wh Li-ion polymer
- up to 13 hours battery life²

Display

- 40.9 cm (16.1") diagonal IPS, micro-edge, anti-glare screen
- Up to QHD (2560 x 1440), 300 nits, 100% sRGB
- Up to 240hz, 3 ms response time

I/O ports

- 2x USB Type-A
- 2x USB Type-C
- 1x HDMI 2.1
- 1x RI-45
- 1x headphone/mic combo

FOOTNOTES:

- As of May 2023, AMD has the first and only available dedicated Al engine on an x86 Windows processor, where 'dedicated Al engine' is defined as an Al engine that has no function other than to process Al inference models and is part of the x86 processor die. For detailed information, please check: https://www.amd.com/en/products/ryzen-ai. PHX-3.

 Testing as of July 2023 AMD Performance Labs using an IP DMEN 16" laptop (AMD Ryzen 9 7940HS processor, Nvidia RTX 4070 graphics, 16GB RAM, 512GB NVMe SSD, 83Wh battery, Windows 11 Pro) vs a similarly configured 16" laptop (Intel Core 19-13900H processor, Nvidia RTX 4070 graphics, 16GB RAM, 512GB NVMe SSD, 83Wh battery, Windows 11 Pro) vs a similarly configured 16" laptop (Intel Core 19-13900H processor, Nvidia RTX 4070 graphics, 16GB RAM, 512GB NVMe SSD, 83Wh battery, Windows 11 Pro) vs a similarly configured 16" laptop (Intel Core 19-13900H processor, Nvidia RTX 4070 graphics, 16GB RAM, 512GB NVMe SSD, windows 11 Pro) vs a similarly configured 16" laptop (Intel Core 19-13900H processor, Nvidia RTX 4070 graphics, 16GB RAM, 512GB NVMe SSD, windows 11 Pro) vs a similarly configured 16" laptop (Intel Core 19-13900H processor, Nvidia RTX 4070 graphics, 16GB RAM, 512GB NVMe SSD, windows 11 Pro) vs a similarly configured 16" laptop (Intel Core 19-13900H processor, Nvidia RTX 4070 graphics, 16GB RAM, 512GB NVMe SSD, windows 11 Pro) vs a similarly configured 16" laptop (Intel Core 19-13900H processor, Nvidia RTX 4070 graphics, 16GB RAM, 512GB NVMe SSD, windows 11 Pro) vs a similarly configured 16" laptop (Intel Core 19-13900H processor, Nvidia RTX 4070 graphics, 16GB RAM, 512GB NVMe SSD, windows 11 Pro) vs a similarly configured 16" laptop (Intel Core 19-13900H processor, Nvidia RTX 4070 graphics, 16GB RAM, 512GB NVMe SSD, windows 11 Pro) vs a similarly configured 16" laptop (Intel Core 19-13900H processor, Nvidia RTX 4070 graphics, 16GB RAM, 512GB NVMe SSD, windows 11 Pro) vs a similarly configured 16" laptop (Intel Core 19-13900H processor, Nvidia RTX 4070 graphics, 16GB RAM

- Wi-Fi 6E and Bluetooth 5.0 availability varies by laptop manufacturer and are system configuration dependent. Check with your laptop manufacturer for compatibility information. GD-149.

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