HP OMEN 15-en1001na AMD Ryzen™ 7 5800H Laptop 39.6 cm (15.6") Quad HD 16 GB DDR4-SDRAM 512 GB SSD NVIDIA GeForce RTX 3070 Wi-Fi 6 (802.11ax) Windows 11 Home Black

Brand : HP   **Product family:** OMEN   **Product code:** 39P49EA

Product name : 15-en1001na

- AMD Ryzen™ 7 5800H (up to 4.4 GHz max boost clock, 16 MB L3 cache, 8 cores, 16 threads)
- Windows 11 Home
- 39.6 cm (15.6") diagonal QHD display
- NVIDIA® GeForce RTX™ 3070 Laptop GPU (8 GB GDDR6 dedicated)
- 16 GB memory; 512 GB SSD storage
OMEN Laptop 15-en1001na, 15.6", Windows 11 Home, AMD Ryzen™ 7, 16GB RAM, 512GB SSD, NVIDIA® GeForce® RTX™ 3070, QHD, Mica silver

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Look as Good as Your Game
Behold the OMEN 15 gaming laptop, a lean, clean, playing machine powerful enough to hang with the big boxes and compact enough to take the game wherever your heart desires. Check out its big brains in its fast AMD processor and NVIDIA® graphics card, stunning display, and near-eternal battery life. Take control of it all and make it your own in the OMEN Gaming Hub.

Design

Colour name	Mica silver
Product type *	Laptop
Product colour *	Black
Form factor *	Clamshell
Market positioning	Gaming
Intel® vPro™ Platform Eligibility	✖
Country of origin	China

Display

Display diagonal *	39.6 cm (15.6")
Display resolution *	2560 x 1440 pixels
Touchscreen *	✖
HD type	Quad HD
Panel type	IPS
LED backlight	✔
Native aspect ratio	16:9
Anti-glare screen	✔
Display bezel technology	Micro-Edge
Display brightness	300 cd/m²
Display diagonal (metric)	39.6 cm
RGB colour space	DCI-P3
Colour gamut	100%
Display response rise/fall	3 ms
Maximum refresh rate	165 Hz

Processor

Processor manufacturer *	AMD
Processor family *	AMD Ryzen™ 7
Processor generation	AMD Ryzen 5000 Series
Processor model *	5800H
Processor cores	8
Processor threads	16
Processor boost frequency	4.4 GHz

Camera

Front camera	✔
Front camera signal format	720p
Front camera HD type	HD

Network

Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
Wi-Fi standards	Wi-Fi 6 (802.11ax)
Mobile network connection *	✖
Antenna type	2x2
WLAN controller model	Intel Wi-Fi 6 AX200
WLAN controller manufacturer	Intel
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	5.0
Miracast	✔
MIMO	✔
MIMO type	Multi User MIMO

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
HDMI version	2.1
Mini DisplayPorts quantity	1
Combo headphone/mic port	✔
Charging port type	DC-in jack
USB Type-C DisplayPort Alternate Mode	✔
USB Sleep-and-Charge	✔
USB Sleep-and-Charge ports	2

Processor

Processor frequency *	3.2 GHz
Processor cache	16 MB
Processor cache type	L3

Memory

Internal memory *	16 GB
Internal memory type	DDR4-SDRAM
Memory clock speed	3200 MHz
Memory form factor	SO-DIMM
Memory layout (slots x size)	2 x 8 GB
Memory slots	2x SO-DIMM
Memory slots (available)	2
ECC	✘

Storage

Total storage capacity *	512 GB
Storage media *	SSD
Total SSDs capacity	512 GB
Number of SSDs installed	1
SSD capacity	512 GB
SSD memory type	TLC
SSD interface	PCI Express, NVMe
NVMe	✔
SSD form factor	M.2
Optical drive type *	✘
Card reader integrated	✔
Compatible memory cards	SD

Graphics

Discrete GPU manufacturer	NVIDIA
Discrete graphics card model *	NVIDIA GeForce RTX 3070
Discrete graphics card memory	8 GB
Discrete graphics memory type	GDDR6
On-board graphics card *	✔
On-board GPU manufacturer	AMD
Discrete graphics card *	✔
On-board graphics card model *	AMD Radeon Graphics

Audio

Audio system	Bang & Olufsen
Number of built-in speakers	2
Built-in microphone	✔
Number of microphones	2

Performance

Motherboard chipset	AMD SoC

Keyboard

Pointing device	Touchpad
Numeric keypad *	✘
Keyboard backlit	✔
Keyboard backlit zone	4-zone RGB
Full-size keyboard	✔

Software

Operating system architecture	64-bit
Pre-installed software	Dropbox, ExpressVPN
Trial software	McAfee LiveSafe, Microsoft 365
Operating system installed *	Windows 11 Home

Brand-specific features

HP OMEN Command Center	✔
HP Audio Boost	✔
HP speaker type	HP Dual Speakers
HP Audio Switch	✔
HP Connection Optimizer	✔
HP Imagepad	✔
HP front camera	HP Wide Vision HD
HP segment	Home

Battery

Battery technology	Lithium Polymer (LiPo)
Number of battery cells	6
Battery capacity *	70.9 Wh
Battery life (max)	8 h
Fast charging	✔
Fast charging time (50%)	45 min
Battery weight	270 g

Power

AC adapter power	200 W

Weight & dimensions

Width	357.9 mm
Depth	239.7 mm
Height	22.9 mm
Weight *	2.46 kg

Packaging data

Package width	69 mm
Package depth	520 mm
Package height	305 mm
Package weight	3.65 kg

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