



# OMEN by HP 16-xd0003na AMD Ryzen™ 7 7840HS Laptop 40.9 cm (16.1") Full HD 16 GB DDR5-SDRAM 512 GB SSD NVIDIA GeForce RTX 4050 Wi-Fi 6E (802.11ax) Windows 11 Home Black



Brand : HP

Product family: OMEN by HP

Product code: 877A7EA

Product name : 16-xd0003na

- AMD Ryzen™ 7 7840HS (up to 5.1 GHz max boost clock, 16 MB L3 cache, 8 cores, 16 threads)
- Windows 11 Home
- 40.9 cm (16.1") diagonal FHD display
- NVIDIA® GeForce RTX™ 4050 Laptop GPU (6 GB GDDR6 dedicated)
- 16 GB memory

OMEN Gaming Laptop 16-xd0003na, Windows 11 Home, 16.1", AMD Ryzen™ 7, 16GB RAM, 512GB SSD, NVIDIA® GeForce RTX™ 4050, FHD, Shadow black

[OMEN by HP 16-xd0003na AMD Ryzen™ 7 7840HS Laptop 40.9 cm \(16.1"\) Full HD 16 GB DDR5-SDRAM 512 GB SSD NVIDIA GeForce RTX 4050 Wi-Fi 6E \(802.11ax\) Windows 11 Home Black:](#)

Enjoy powerful fun anywhere.

The OMEN 16 inch gaming laptop is ready to go wherever you are. Enjoy desktop-level power with a 7000 Series AMD Ryzen™ processor<sup>[1]</sup> and a modern graphics card, both regulated by enhanced internal cooling. The screen is equally impressive with high resolution, smooth framerate, and anti-glare features.



Design		Network	
Colour name	Shadow black, black chrome logo	Ethernet LAN	✓
Product type *	Laptop	Ethernet LAN data rates	10,100,1000 Mbit/s
Product colour *	Black	Bluetooth	✓
Form factor *	Clamshell	Bluetooth version	5.3
Market positioning	Gaming	Cabling technology	10/100/1000Base-T(X)
Introduction year	2023	Ports & interfaces	
Product design	Paint finish	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Original brand name	HP	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Display		Ethernet LAN (RJ-45) ports	1
Display diagonal *	40.9 cm (16.1")	HDMI ports quantity *	1
Display resolution *	1920 x 1080 pixels	HDMI version	2.1
Touchscreen *	✗	Combo headphone/mic port	✓
HD type	Full HD	Charging port type	USB Type-C
Panel type	IPS	USB Type-C DisplayPort Alternate Mode	✓
Native aspect ratio	16:9	USB Power Delivery	✓
Anti-glare screen	✓	USB Sleep-and-Charge	✓
Display bezel technology	Micro-Edge	USB Sleep-and-Charge ports	2
Display brightness	250 cd/m <sup>2</sup>	Performance	
Display diagonal (metric)	40.9 cm	Motherboard chipset	AMD SoC
RGB colour space	NTSC	Temperature sensor	✓
Colour gamut	45%	Keyboard	
Maximum refresh rate	144 Hz	Pointing device	Touchpad
Processor		Numeric keypad *	✗
Processor manufacturer *	AMD	Keyboard backlit	✓
Processor family *	AMD Ryzen™ 7	Keyboard backlit zone	1-zone RGB
Processor model *	7840HS	Full-size keyboard	✓
Processor cores	8	Keyboard colour name	Shadow black
Processor threads	16		
Processor boost frequency	5.1 GHz		
Processor frequency *	3.8 GHz		
Processor cache	16 MB		

<b>Processor</b>		<b>Software</b>	
Processor cache type	L3		ExpressVPN (30 day free trial); LastPass Premium (30 day free trial), 1 month trial for new Microsoft 365 customers, McAfee Online Protection 30-day trial; Xbox Game Pass 1-month free trial
<b>Memory</b>		Pre-installed software	
Internal memory *	16 GB	Trial software	25 GB Dropbox storage for 12 months
Internal memory type	DDR5-SDRAM	Operating system installed *	Windows 11 Home
Memory clock speed	5600 MHz	<b>Brand-specific features</b>	
Memory form factor	SO-DIMM	HP Audio Boost	✓
Memory layout (slots x size)	2 x 8 GB	HP speaker type	HP Dual Speakers
Memory slots (available)	2	HP Smart AC Adapter	✓
Number of free internal memory expansion slots	2	HP Imagepad	✓
<b>Storage</b>		HP front camera	HP TrueVision FHD
Total storage capacity *	512 GB	HP Security tools	Camera privacy shutter; Trusted Platform Module (Firmware TPM) support
Storage media *	SSD	HP Software provided	HP Support Assistant; HP Connection Optimizer; OMEN Gaming Hub; myHP
Total SSDs capacity	512 GB	HP segment	Home
Number of SSDs installed	1	HP GTIN (EAN/UPC)	197497674675
SSD capacity	512 GB	<b>Battery</b>	
SSD memory type	TLC	Battery technology	Lithium Polymer (LiPo)
SSD interface	PCI Express	Number of battery cells	6
NVMe	✓	Battery capacity *	83 Wh
SSD form factor	M.2	Battery life (max)	8 h
Optical drive type *	✗	Continuous video playback time	10.75 h
<b>Graphics</b>		Fast charging	✓
Discrete GPU manufacturer	NVIDIA	Fast charging time (50%)	30 min
Discrete graphics card model *	NVIDIA GeForce RTX 4050	<b>Power</b>	
Discrete graphics card memory	6 GB	AC adapter power	230 W
Discrete graphics memory type	GDDR6	AC adapter frequency	50 - 60 Hz
On-board graphics card *	✓	AC adapter input voltage	100 - 240 V
On-board GPU manufacturer	AMD	<b>Security</b>	
Discrete graphics card *	✓	Trusted Platform Module (TPM)	✓
On-board graphics card family	AMD Radeon Graphics	Password protection	✓
On-board graphics card model *	AMD Radeon 780M	Password protection type	BIOS, Power on, User
AMD FreeSync	✓	<b>Sustainability</b>	
<b>Audio</b>		Sustainability compliance	✓
Audio system	B&O PLAY	Sustainability certificates	ENERGY STAR, EPEAT Silver
Built-in speaker(s)	✓	Sustainable technologies and materials	
Number of built-in speakers	2	Ocean-bound plastic in speaker enclosure(s) and bezel; Keyboard mechanism made from agriculture waste; Keyboard keycaps and scissors contain post-consumer recycled plastic	
Speakers manufacturer	Bang & Olufsen	<b>Weight &amp; dimensions</b>	
Built-in microphone	✓	Width	369 mm
Number of microphones	2	Depth	259.4 mm
<b>Camera</b>		Height	23.9 mm
Front camera	✓	Weight *	2.37 kg
Front camera HD type	Full HD	<b>Packaging data</b>	
<b>Network</b>		Package width	69 mm
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)	Package depth	552 mm
Wi-Fi standards	Wi-Fi 6E (802.11ax)	Package height	345 mm
Mobile network connection *	✗	Package weight	4.34 kg
Antenna type	2x2	<b>Packaging content</b>	
WLAN controller manufacturer	Realtek	Stylus pen	✗

**Logistics data**

Harmonized System (HS) code	8471300000
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**Other features**

Number of speakers	2
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