



HP OMEN Gaming 16-ap0000na Copilot+ PC AMD Ryzen™ AI 7 350 Laptop 40.6 cm (16") 2K 16 GB DDR5-SDRAM 1 TB SSD NVIDIA® GeForce RTX™ 5050 Wi-Fi 6E (802.11ax) Windows 11 Home Black

Brand : HP

Product family: OMEN Gaming **Product code:** C33QBEA

Product name : OMEN Gaming
16-ap0000na

- AMD Ryzen AI 7 350 (up to 5.0 GHz max boost clock, 16 MB L3 cache, 8 cores, 16 threads)

- Windows 11 Home

- 40.6 cm (16") diagonal 2K display

- NVIDIA GeForce RTX 5050 Laptop GPU (8 GB GDDR7 dedicated)

- 16 GB DDR5-5600 MT/s (2 x 8 GB), 1 TB PCIe Gen4 NVMe M.2 SSD

OMEN Gaming Laptop 16-ap0000na, Windows 11 Home, 16", AMD Ryzen AI 7, 16GB RAM, 1TB SSD, NVIDIA GeForce RTX 5050, 2K, Shadow black



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Bold performance that doesn't burn out

The new OMEN 16 not only has the power of the latest next-gen AMD^[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.

Design		Ports & interfaces	
Colour name	Shadow black	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	1
Product type *	Laptop	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Product colour *	Black	Ethernet LAN (RJ-45) ports	1
Form factor *	Clamshell	HDMI ports quantity *	1
Market positioning	Gaming	HDMI version	2.1
Introduction year	2025	Microphone in	✓
Country of origin	China, Thailand	Combo headphone/mic port	✓
Original brand name	HP	USB Type-C DisplayPort Alternate Mode	✓
Display		USB Sleep-and-Charge	✓
Display diagonal *	40.6 cm (16")	USB Sleep-and-Charge ports	1
Display resolution *	1920 x 1200 pixels	Performance	
Touchscreen *	✗	Motherboard chipset	AMD SoC
HD type	2K	Temperature sensor	✓
Panel type	IPS	Keyboard	
Native aspect ratio	16:10	Pointing device	Touchpad
Anti-glare screen	✓	Numeric keypad *	✓
Display bezel technology	Micro-Edge	Keyboard backlit	✓
Display brightness	300 cd/m²	Keyboard backlit colour	RGB
Display diagonal (metric)	40.6 cm	Keyboard backlit zone	4-zone RGB
RGB colour space	sRGB	Full-size keyboard	✓
Colour gamut	62.5%	Keyboard colour name	Shadow black
Maximum refresh rate	144 Hz	Software	
sRGB coverage (typical)	62.5%	Pre-installed software	Otter.ai, 1 month trial for new Microsoft 365 customers, McAfee Online Protection 30-day trial; 1-month Adobe free trial offer; PC Game Pass 3-month trial
Processor		Trial software	100 GB Dropbox storage for 3 months
Processor manufacturer *	AMD		
Processor family *	AMD Ryzen™ AI 7		
Processor generation	AMD Ryzen AI 300 Series		
Processor model *	350		
Processor cores	8		
Processor threads	16		
Processor boost frequency	5 GHz		

Processor		Software	
Processor frequency *	2 GHz	Operating system installed *	Windows 11 Home
Processor cache	16 MB	Brand-specific features	
Processor cache type	L3	HP Audio Boost	✓
Neural processor unit (NPU)		HP speaker type	HP Dual Speakers
Copilot+ PC	✓	HP Imagepad	✓
Neural processor unit (NPU)	AMD Ryzen AI	HP front camera	HP TrueVision FHD
NPU performance up to	50 TOPs	HP Security tools	Camera privacy shutter; Trusted Platform Module (Firmware TPM) support
Memory		HP Software provided	HP Support Assistant; HP Connection Optimizer; OMEN Gaming Hub
Internal memory *	16 GB	HP segment	Home
Internal memory type	DDR5-SDRAM	HP GTIN (EAN/UPC)	199485443140
Memory clock speed	5600 MHz	Battery	
Memory form factor	SO-DIMM	Battery technology	Lithium Polymer (LiPo)
Memory layout (slots x size)	2 x 8 GB	Number of battery cells	6
Memory slots (available)	2	Battery capacity *	83 Wh
Maximum internal memory *	16 GB	Fast charging	✓
Non-ECC	✓	Fast charging time (50%)	30 min
Storage		Power	
Total storage capacity *	1 TB	AC adapter power	230 W
Storage media *	SSD	AC adapter frequency	50 - 60 Hz
Total SSDs capacity	1 TB	AC adapter input voltage	100 - 240 V
Number of SSDs installed	1	USB Type-C charging port *	✓
SSD capacity	1 TB	USB Power Delivery (USB PD)	✓
SSD interface	PCI Express 4.0	Security	
NVMe	✓	Trusted Platform Module (TPM)	✓
SSD form factor	M.2	Password protection	✓
Optical drive type *	✗	Password protection type	BIOS, Power on
Graphics		Sustainability	
Discrete GPU manufacturer	NVIDIA	Sustainability compliance	✓
Discrete graphics card model *	NVIDIA® GeForce RTX™ 5050	Sustainability certificates	ENERGY STAR, EPEAT, EPEAT Gold
Discrete graphics card memory	8 GB	Sustainable technologies and materials	Ocean-bound plastic in bezel; Keyboard keycaps, scissors and keyboard plate contain post-consumer recycled plastic
Discrete graphics memory type	GDDR7		
On-board graphics card *	✓		
On-board GPU manufacturer	AMD	Weight & dimensions	
Discrete graphics card *	✓	Width	357.5 mm
On-board graphics card family	AMD Radeon	Depth	269 mm
On-board graphics card model *	AMD Radeon 860M	Height (front)	2.37 cm
AMD FreeSync	✓	Height (rear)	2.54 cm
Audio		Weight *	2.44 kg
Audio system	DTS:X Ultra	Packaging data	
Built-in speaker(s)	✓	Package width	63 mm
Number of built-in speakers	2	Package depth	567 mm
Built-in microphone	✓	Package height	305 mm
Number of microphones	2	Package weight	3.19 kg
Camera		Carbon footprint	
Front camera	✓	Total carbon footprint (kg of CO2e)	252.765
Front camera resolution	1920 x 1080 pixels	Carbon emissions, manufacturing (kg of CO2e)	226.626
Front camera HD type	Full HD	Carbon emissions, logistics (kg of CO2e)	6.46
Network		Carbon emissions, end-of-life (kg of CO2e)	0.879
Wi-Fi	✓	Total carbon emissions, w/o use phase (kg of CO2e)	18.8
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)		
Wi-Fi standards	Wi-Fi 6E (802.11ax)		
Mobile network connection *	✗		
Antenna type	2x2		
WLAN controller model	MediaTek MT7922		
WLAN controller manufacturer	MediaTek		

Network		Packaging content	
Ethernet LAN	✓	AC adapter included *	✓
Ethernet LAN data rates	10,100,1000 Mbit/s	Keyboard included	✓
Bluetooth	✓	Logistics data	
Bluetooth version	5.3	Harmonized System (HS) code	8471300000
Cabling technology	10/100/1000Base-T(X)	Technical details	
Ports & interfaces		General Product Safety Regulation (GPSR) URL	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	https://support.hp.com/us-en/document/ish_6126692-6126777-16?openCLC=true ; HP REG 23010, 08028 Barcelona, Spain ; reg@hp.com	
		Other features	
		UNSPSC-code	43211503
		Memory module type	SODIMM
		Supplied AC adapter type	Paint finish
		1 year (1/1/0) limited warranty includes 1 year of parts and labor.	
		Manufacturer warranty	No on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.



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