



HP OMEN Gaming 16-ap0006na Copilot+ PC AMD Ryzen™ AI 5 340 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: C33QCEA

Product name : OMEN Gaming
16-ap0006na



- AMD Ryzen AI 5 340 (up to 4.8 GHz max boost clock, 16 MB L3 cache, 6 cores, 12 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-ap0006na, Windows 11 Home, 16", AMD Ryzen AI 5, 16GB RAM, 1TB SSD, NVIDIA GeForce RTX 5050, 2K, Shadow black

HP OMEN Gaming 16-ap0006na Copilot+ PC AMD Ryzen™ AI 5 340 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:

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 5		
Processor generation	AMD Ryzen AI 300 Series		
Processor model *	340		
Processor cores	6		
Processor threads	12		
Processor boost frequency	4.8 GHz		

Processor		Software			
Processor frequency *	2 GHz	Operating system installed *	Windows 11 Home		
Processor cache	16 MB	Brand-specific features			
Processor cache type	L3				
Neural processor unit (NPU)					
Copilot+ PC	✓				
Neural processor unit (NPU)	AMD Ryzen AI				
NPU performance up to	50 TOPs	HP Audio Boost	✓		
Memory		HP speaker type	HP Dual Speakers		
		HP Imagepad	✓		
		HP front camera	HP TrueVision FHD		
		HP Security tools	Camera privacy shutter; Trusted Platform Module (Firmware TPM) support		
		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)	199485443157		
Memory clock speed	5600 MHz	Battery			
Memory form factor	SO-DIMM				
Memory layout (slots x size)	2 x 8 GB				
Memory slots (available)	2				
Maximum internal memory *	16 GB				
Non-ECC	✓	Battery technology	Lithium Polymer (LiPo)		
Storage		Number of battery cells	6		
		Battery capacity *	83 Wh		
		Fast charging	✓		
		Fast charging time (50%)	30 min		
		Total storage capacity *	1 TB	Power	
Storage media *	SSD				
Total SSDs capacity	1 TB				
Number of SSDs installed	1				
SSD capacity	1 TB				
SSD interface	PCI Express 4.0	AC adapter power	230 W		
NVMe	✓	AC adapter frequency	50 - 60 Hz		
SSD form factor	M.2	AC adapter input voltage	100 - 240 V		
Optical drive type *	✗	USB Type-C charging port *	✓		
Graphics		USB Power Delivery (USB PD)	✓		
		Security			
				Trusted Platform Module (TPM)	✓
				Password protection	✓
				Password protection type	BIOS, Power on
Discrete GPU manufacturer	NVIDIA			Sustainability	
Discrete graphics card model *	NVIDIA® GeForce RTX™ 5050				
Discrete graphics card memory	8 GB				
Discrete graphics memory type	GDDR7				
On-board graphics card *	✓				
On-board GPU manufacturer	AMD	Sustainability compliance	✓		
Discrete graphics card *	✓	Sustainability certificates	ENERGY STAR, EPEAT, EPEAT Gold		
On-board graphics card family	AMD Radeon	Sustainable technologies and materials	Ocean-bound plastic in bezel; Keyboard keycaps, scissors and keyboard plate contain post-consumer recycled plastic		
On-board graphics card model *	AMD Radeon 840M				
AMD FreeSync	✓				
Audio		Weight & dimensions			
Audio system	DTS:X Ultra				
Built-in speaker(s)	✓				
Number of built-in speakers	2				
Built-in microphone	✓				
Number of microphones	2	Width	357.5 mm		
Camera		Depth	269 mm		
		Front camera	✓		
		Front camera resolution	1920 x 1080 pixels		
		Front camera HD type	Full HD		
Network		Height (front)	2.37 cm		
Wi-Fi	✓	Height (rear)	2.54 cm		
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)	Weight *	2.44 kg		
Wi-Fi standards	Wi-Fi 6E (802.11ax)	Packaging data			
Mobile network connection *	✗				
Antenna type	2x2				
WLAN controller model	MediaTek MT7922				
WLAN controller manufacturer	MediaTek				
		Package width	63 mm		
		Package depth	567 mm		
		Package height	305 mm		
		Package weight	3.19 kg		
		Carbon footprint			
		Total carbon footprint (kg of CO2e)	252.765		
		Carbon emissions, manufacturing (kg of CO2e)	226.626		
		Carbon emissions, logistics (kg of CO2e)	6.46		
		Carbon emissions, end-of-life (kg of CO2e)	0.879		
		Total carbon emissions, w/o use phase (kg of CO2e)	18.8		

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 https://support.hp.com/us-en/document/ish_6126692-6126777-16?openCLC=true ; HP REG 23010, 08028 Barcelona, Spain ; reg@hp.com	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Other features	
		UNSPSC-code	43211503
		Memory module type	SODIMM
		Supplied AC adapter type	Paint finish
		Manufacturer warranty	1 year (1/1/0) limited warranty includes 1 year of parts and labor. No on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.



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