

Alienware AA18250 Intel Core Ultra 9 275HX Laptop 45.7 cm (18") WQXGA 64 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 5090 Wi-Fi 7 (802.11be) Windows 11 Home German Black

Brand : Alienware

Product code: M497W

Product name : AA18250

Alienware AA18250. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 9, Processor model: 275HX. Display diagonal: 45.7 cm (18"), HD type: WQXGA, Display resolution: 2560 x 1600 pixels. Internal memory: 64 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 2 TB, Storage media: SSD. On-board graphics card model: Intel® Graphics, Discrete graphics card model: NVIDIA GeForce RTX 5090. Operating system installed: Windows 11 Home. Product colour: Black



Design		Audio	
Colour name	Gamut	Speaker power	2.5 W
Product type *	Laptop	Built-in microphone	✓
Product colour *	Black	Number of microphones	2
Form factor *	Clamshell	Camera	
Market positioning	Gaming	Front camera	✓
Display		Front camera resolution (numeric)	2.07 MP
Display diagonal *	45.7 cm (18")	Front camera resolution	1920 x 1080 pixels
Display resolution *	2560 x 1600 pixels	Front camera HD type	Full HD
Touchscreen *	✗	Video capturing speed	30 fps
HD type	WQXGA	Infrared (IR) camera	✓
Panel type	WVA	Network	
Display technology marketing name	ComfortView Plus	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Anti-glare screen	✓	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6E (802.11ax), Wi-Fi 7 (802.11be)
Display brightness	500 cd/m²	Mobile network connection *	✗
Pixel density	168 ppi	Wi-Fi band	Tri-band (2.4 GHz / 5 GHz / 6 GHz)
RGB colour space	DCI-P3	Wi-Fi data rate (max)	2400 Mbit/s
Colour gamut	100%	Antenna type	2x2
Maximum refresh rate	300 Hz	WLAN controller model	Killer Wi-Fi 7 BE1750
Contrast ratio (typical)	1200:1	WLAN controller manufacturer	Killer
Processor		Ethernet LAN	✓
Processor manufacturer *	Intel	Ethernet LAN data rates	5000 Mbit/s
Processor family *	Intel Core Ultra 9	Bluetooth	✓
Processor generation	Intel Core Ultra (Series 2)	MIMO	✓
Processor model *	275HX	MIMO type	Multi User MIMO
Processor cores	24	Ports & interfaces	
Processor threads	24	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Processor boost frequency	5.4 GHz	Ethernet LAN (RJ-45) ports	1
Performance cores	8		
Efficient cores	16		
Performance-core Max Turbo Frequency	5.4 GHz		

Processor		Ports & interfaces	
Efficient-core Max Turbo Frequency	4.6 GHz	HDMI ports quantity *	1
Performance-core base frequency	2.7 GHz	HDMI version	2.1
Efficient-core base frequency	2.1 GHz	Thunderbolt 5 ports quantity	2
Processor cache	36 MB	Intel® Thunderbolt 5	✓
Processor base power	55 W	Combo headphone/mic port	✓
Maximum turbo power	160 W	Power adapter barrel connector	7.4 mm
Neural processor unit (NPU)		USB Type-C DisplayPort Alternate Mode	✓
Neural processor unit (NPU)	Intel AI Boost	PowerShare	✓
Sparsity support	✓	Number of USB ports with PowerShare support	1
Windows Studio effects support	✓	Performance	
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Motherboard chipset	Intel HM870
Total processor performance up to	36 TOPs	Keyboard	
NPU performance up to	13 TOPs	Pointing device	Touchpad
GPU performance up to	8 TOPs	Numeric keypad *	✓
Memory		Keyboard backlit	✓
Internal memory *	64 GB	Keyboard backlit colour	RGB
Internal memory type	DDR5-SDRAM	Keyboard backlit zone	Per-key RGB
Memory form factor	SO-DIMM	Keyboard language	German
Memory layout (slots x size)	2 x 32 GB	Software	
Memory slots	2x SO-DIMM	Operating system architecture	64-bit
Maximum internal memory *	64 GB	Trial software	Activate Your Microsoft 365 For A 30 Day Trial
Memory data transfer rate	6400 MT/s	Operating system installed *	Windows 11 Home
Non-ECC	✓	Battery	
Storage		Battery technology	Lithium-Ion (Li-Ion)
Total storage capacity *	2 TB	Number of battery cells	6
Storage media *	SSD	Battery capacity *	96 Wh
Total SSDs capacity	2 TB	Battery voltage	11.7 V
Number of SSDs installed	1	Battery recharge time	3 h
SSD capacity	2 TB	Fast charging	✓
SSD interface	PCI Express 4.0	Battery weight	351 g
NVMe	✓	Power	
SSD form factor	M.2	AC adapter power	360 W
Optical drive type *	✗	AC adapter frequency	50 - 60 Hz
Card reader integrated	✓	AC adapter input voltage	100 - 240 V
Compatible memory cards	SD, SDHC, SDXC	AC adapter output voltage	19.5 V
Graphics		USB Type-C charging port *	✓
Discrete GPU manufacturer	NVIDIA	USB Power Delivery (USB PD)	✓
Discrete graphics card model *	NVIDIA GeForce RTX 5090	Operational conditions	
Discrete graphics card memory	24 GB	Operating temperature (T-T)	0 - 35 °C
Discrete graphics memory type	GDDR7	Storage temperature (T-T)	-40 - 65 °C
On-board graphics card *	✓	Operating relative humidity (H-H)	10 - 90%
On-board GPU manufacturer	Intel	Storage relative humidity (H-H)	0 - 95%
Discrete graphics card *	✓	Operating altitude	-15.2 - 3048 m
On-board graphics card family	Intel® Graphics	Non-operating altitude	-15.2 - 10668 m
On-board graphics card model *	Intel® Graphics	Operating shock	110 G
NVIDIA G-SYNC	✓	Non-operating shock	160 G
NVIDIA Advanced Optimus	✓	Operating vibration	0.66 G
Audio		Non-operating vibration	1.3 G
Audio chip	Realtek ALC3329	Weight & dimensions	
Audio system	Dolby Atmos	Width	410 mm
Number of built-in speakers	4	Depth	320 mm
		Height (front)	2.47 cm
		Height (rear)	3.05 cm
		Weight *	4.34 kg

Packaging content	
AC adapter included *	✓
Other features	
Adapter type	Small Form Factor



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