

Alienware AA16250 Intel Core Ultra 9 275HX Laptop 40.6 cm (16") WQXGA 32 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 5090 Wi-Fi 7 (802.11be) Windows 11 Home UK English Black



Brand : Alienware

Product code: 8PGTM

Product name : AA16250

- Windows 11 Home 64-bit
 - Intel Core Ultra 9 275HX (36MB Cache)
 - 40.6 cm (16") WQXGA 2560 x 1600 WVA, NVIDIA GeForce RTX 5090 (24GB GDDR7)
 - 32GB DDR5-SDRAM (2 x 16) & 1000GB SSD
- Intel Core Ultra 9 275HX (36MB Cache), 32GB DDR5-SDRAM, 1000GB SSD, 40.6 cm (16") WQXGA 2560 x 1600 WVA, Intel Graphics, NVIDIA GeForce RTX 5090 (24GB GDDR7), WLAN, Webcam, Windows 11 Home 64-bit

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A new age of power is born

Experience Alienware's flagship 16-inch gaming laptop, built with innovation that brings performance to the most passionate.

Design		Audio	
Product type *	Laptop	Speaker power	2.5 W
Product colour *	Black	Built-in microphone	✓
Form factor *	Clamshell	Number of microphones	2
Display		Camera	
Display diagonal *	40.6 cm (16")	Front camera	✓
Display resolution *	2560 x 1600 pixels	Front camera resolution (numeric)	2.07 MP
Touchscreen *	✗	Front camera resolution	1920 x 1080 pixels
HD type	WQXGA	Front camera HD type	Full HD
Panel type	WVA	Video capturing speed	30 fps
Anti-glare screen	✓	Infrared (IR) camera	✓
Display brightness	500 cd/m ²	Network	
Pixel density	188.7 ppi	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
RGB colour space	DCI-P3	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)
Colour gamut	100%	Mobile network connection *	✗
Display response rise/fall	3 ms	Wi-Fi band	Tri-band (2.4 GHz / 5 GHz / 6 GHz)
Maximum refresh rate	240 Hz	Wi-Fi data rate (max)	2400 Mbit/s
Contrast ratio (typical)	1000:1	Antenna type	2x2
Processor		WLAN controller model	Killer Wi-Fi 7 BE1750
Processor manufacturer *	Intel	WLAN controller manufacturer	Killer
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	HDMI ports quantity *	1
Performance cores	8	HDMI version	2.1
Efficient cores	16	Thunderbolt 5 ports quantity	2
Performance-core Max Turbo Frequency	5.4 GHz		
Efficient-core Max Turbo Frequency	4.6 GHz		
Performance-core base frequency	2.7 GHz		

Processor		Ports & interfaces	
Efficient-core base frequency	2.1 GHz	Intel® Thunderbolt 5	✓
Processor cache	36 MB	Combo headphone/mic port	✓
Processor base power	55 W	Power adapter barrel connector	7.4 mm
Maximum turbo power	160 W	USB Type-C DisplayPort Alternate Mode	✓
Neural processor unit (NPU)		PowerShare	✓
Neural processor unit (NPU)	Intel AI Boost	Number of USB ports with PowerShare support	1
Sparsity support	✓	Performance	
Windows Studio effects support	✓	Motherboard chipset	Intel HM870
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Keyboard	
Total processor performance up to	36 TOPs	Pointing device	Touchpad
NPU performance up to	13 TOPs	Numeric keypad *	✗
GPU performance up to	8 TOPs	Keyboard backlit	✓
Memory		Keyboard backlit colour	RGB
Internal memory *	32 GB	Keyboard backlit zone	Per-key RGB
Internal memory type	DDR5-SDRAM	Keyboard language	UK English
Memory form factor	SO-DIMM	Software	
Memory layout (slots x size)	2 x 16 GB	Operating system architecture	64-bit
Memory slots	2x SO-DIMM	Trial software	Activate Your Microsoft 365 For A 30 Day Trial
Maximum internal memory *	64 GB	Operating system installed *	Windows 11 Home
Memory data transfer rate	6400 MT/s	Battery	
Non-ECC	✓	Battery technology	Lithium-Ion (Li-Ion)
Storage		Number of battery cells	6
Total storage capacity *	1 TB	Battery capacity *	96 Wh
Storage media *	SSD	Battery voltage	11.7 V
Total SSDs capacity	1 TB	Battery recharge time	3 h
Number of SSDs installed	1	Fast charging	✓
SSD capacity	1 TB	Battery weight	351 g
SSD interface	PCI Express 4.0	Power	
NVMe	✓	AC adapter power	360 W
SSD form factor	M.2	AC adapter frequency	50 - 60 Hz
Optical drive type *	✗	AC adapter input voltage	100 - 240 V
Card reader integrated	✓	AC adapter output voltage	19.5 V
Compatible memory cards	SD, SDHC, SDXC	DC-in jack	✓
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
Audio		Operating vibration	0.66 G
Audio chip	Realtek ALC3329	Non-operating vibration	1.3 G
Audio system	Dolby Atmos	Weight & dimensions	
Number of built-in speakers	4	Width	365 mm
		Depth	290 mm
		Height (front)	2.42 cm
		Height (rear)	2.85 cm
		Weight *	3.4 kg

Packaging content

AC adapter included *





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