



MSI Venture 16 AI A2HMG-066NL Intel Core Ultra 7 255H Laptop 40.6 cm (16") 2K Ultra HD 32 GB DDR5-SDRAM 1 TB SSD Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : MSI

Product family: Venture

Product code: VENTURE 16 AI
A2HMG-066NL

Product name : Venture 16 AI
A2HMG-066NL

- Windows 11 Pro
- Intel Core Ultra 7 255H (24MB Cache)
- 16" 2K Ultra HD 2048 x 1280 OLED
- 32GB (5600MHz) DDR5-SDRAM (1 x 32) & 1000GB SSD
Intel Core Ultra 7 255H (24MB Cache), 32GB DDR5-SDRAM, 1000GB SSD, 16" 2K Ultra HD 2048 x 1280 OLED, Intel Arc 140T, LAN, WLAN, Webcam, Windows 11 Pro
MSI Venture 16 AI A2HMG-066NL. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 7, Processor model: 255H. Display diagonal: 40.6 cm (16"), HD type: 2K Ultra HD, Display resolution: 2048 x 1280 pixels. Internal memory: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel Arc 140T. Operating system installed: Windows 11 Pro. Product colour: Grey. Weight: 1.9 kg



Design		Graphics	
Colour name	Solid Gray	On-board graphics card *	✓
Product type *	Laptop	On-board GPU manufacturer	Intel
Product colour *	Grey	Discrete graphics card *	✗
Form factor *	Clamshell	On-board graphics card family	Intel Arc Graphics
Housing material	Metal, Plastic	On-board graphics card model *	Intel Arc 140T
Original brand name	MSI	Audio	
Display		Audio system	DTS Audio Processing
Display diagonal *	40.6 cm (16")	Number of built-in speakers	2
Display resolution *	2048 x 1280 pixels	Speaker power	2 W
Touchscreen *	✗	Camera	
HD type	2K Ultra HD	Front camera	✓
Panel type	OLED	Front camera resolution	1280 x 720 pixels
Native aspect ratio	16:10	Front camera HD type	HD
Anti-glare screen	✓	Video capturing speed	30 fps
Display brightness	400 cd/m²	Privacy camera	✓
RGB colour space	DCI-P3	Privacy type	Privacy shutter
Colour gamut	100%	Network	
Maximum refresh rate	120 Hz	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Processor		Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax), Wi-Fi 6E (802.11ax)
Processor manufacturer *	Intel	Mobile network connection *	✗
Processor family *	Intel Core Ultra 7	WLAN controller model	Intel Wi-Fi 6E AX211
Processor generation	Intel Core Ultra (Series 2)	WLAN controller manufacturer	Intel
Processor model *	255H	Ethernet LAN	✓
Processor cores	16	Ethernet LAN data rates	10,100,1000 Mbit/s
Processor threads	16	Bluetooth	✓
Processor boost frequency	5.1 GHz		
Performance cores	6		
Efficient cores	8		

Processor		Network	
Low Power Efficient-cores	2	Bluetooth version	5.3
Performance-core Max Turbo Frequency	5.1 GHz	Ports & interfaces	
Efficient-core Max Turbo Frequency	4.4 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Performance-core base frequency	2 GHz	Ethernet LAN (RJ-45) ports	1
Efficient-core base frequency	1.5 GHz	HDMI ports quantity *	1
Low Power Efficient-core Base Frequency	700 MHz	HDMI version	2.1
Processor cache	24 MB	Combo headphone/mic port	✓
Processor base power	28 W	USB Type-C DisplayPort Alternate Mode	✓
Maximum turbo power	115 W	Keyboard	
Neural processor unit (NPU)		Pointing device	Touchpad
Neural processor unit (NPU)	Intel AI Boost	Numeric keypad *	✓
Sparsity support	✓	Keyboard backlit	✓
Windows Studio effects support	✓	Keyboard backlit colour	White
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Copilot key	✓
Total processor performance up to	96 TOPs	Software	
NPU performance up to	13 TOPs	Operating system installed *	Windows 11 Pro
GPU performance up to	74 TOPs	Bundled software	AI Noise Cancellation Pro, DTS Audio Processing, MSI AI Engine, MSI Center S
Memory		Battery	
Internal memory *	32 GB	Number of battery cells	4
Internal memory type	DDR5-SDRAM	Battery capacity	3570 mAh
Memory clock speed	5600 MHz	Battery capacity *	55.2 Wh
Memory layout (slots x size)	1 x 32 GB	Battery weight	220 g
Memory slots	2x SO-DIMM	Power	
Maximum internal memory *	96 GB	USB Type-C charging port *	✓
Storage		USB Power Delivery (USB PD)	✓
Total storage capacity *	1 TB	Security	
Storage media *	SSD	Cable lock slot	✓
Total SSDs capacity	1 TB	Cable lock slot type	Kensington
Number of SSDs installed	1	Trusted Platform Module (TPM)	✓
SSD capacity	1 TB	Trusted Platform Module (TPM) version	2.0
SSD interface	PCI Express 4.0	Weight & dimensions	
NVMe	✓	Width	359.3 mm
Optical drive type *	✗	Depth	245.2 mm
Graphics		Height (front)	2.21 cm
Discrete graphics card model *	Not available	Height (rear)	2.31 cm
		Weight *	1.9 kg
		Packaging content	
		AC adapter included *	✗
		Other features	
		Warranty period	3 year(s)



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