

ASUS Vivobook Pro 15 OLED N6506CU-MA031W Copilot+ PC Intel Core Ultra 9 285H Laptop 39.6 cm (15.6") 3K 16 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 4050 Wi-Fi 6E (802.11ax) Windows 11 Home Grey



Brand : ASUS

Product family: Vivobook

Product code: 90NB15E3-M001A0

Product name : N6506CU-MA031W

- Windows 11 Home 64-bit
- Intel Core Ultra 9 285H (24MB Cache)
- 39.6 cm (15.6") 3K 2880 x 1620 OLED, NVIDIA GeForce RTX 4050 (6GB GDDR6)
- 16GB DDR5-SDRAM (1 x 8) & 1000GB SSD

Intel Core Ultra 9 285H (24MB Cache), 16GB DDR5-SDRAM, 1000GB SSD, 39.6 cm (15.6") 3K 2880 x 1620 OLED, Intel Arc 140T, NVIDIA GeForce RTX 4050 (6GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home 64-bit

ASUS Vivobook Pro 15 OLED N6506CU-MA031W. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 9, Processor model: 285H. Display diagonal: 39.6 cm (15.6"), HD type: 3K, Display resolution: 2880 x 1620 pixels. Internal memory: 16 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel Arc 140T, Discrete graphics card model: NVIDIA GeForce RTX 4050. Operating system installed: Windows 11 Home. Product colour: Grey



Design		Graphics	
Colour name	Earl Gray	Discrete graphics card memory	6 GB
Product type *	Laptop	Discrete graphics memory type	GDDR6
Product colour *	Grey	On-board graphics card *	✓
Form factor *	Clamshell	On-board GPU manufacturer	Intel
Housing material	Plastic	Discrete graphics card *	✓
Market positioning	Home	On-board graphics card family	Intel Arc Graphics
Introduction year	2025	On-board graphics card model *	Intel Arc 140T
Country of origin	China	Audio	
Display		Audio system	Smart Amp
Display diagonal *	39.6 cm (15.6")	Speakers manufacturer	Harman Kardon
Display resolution *	2880 x 1620 pixels	Built-in microphone	✓
Touchscreen *	✗	Camera	
HD type	3K	Front camera	✓
Panel type	OLED	Front camera resolution (numeric)	5 MP
Display number of colours	1.073 billion colours	Privacy camera	✓
Native aspect ratio	16:9	Privacy type	Privacy shutter
Display surface	Gloss	Network	
Display brightness	400 cd/m²	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Maximum display brightness (HDR)	600 cd/m²	Wi-Fi standards	Wi-Fi 6E (802.11ax)
RGB colour space	DCI-P3	Mobile network connection *	✗
Colour gamut	100%	Antenna type	2x2
Display response rise/fall	0.2 ms	Ethernet LAN	✓
Maximum refresh rate	120 Hz	Ethernet LAN data rates	10,100,1000 Mbit/s
Contrast ratio (typical)	1000000:1	Bluetooth	✓
High Dynamic Range (HDR) supported	✓	Bluetooth version	5.3
High Dynamic Range (HDR) technology	HDR True Black 600	Ports & interfaces	
Processor		USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Processor manufacturer *	Intel	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Processor family *	Intel Core Ultra 9		
Processor generation	Intel Core Ultra (Series 2)		

Processor		Ports & interfaces	
Processor model *	285H	Ethernet LAN (RJ-45) ports	1
Processor cores	16	HDMI ports quantity *	1
Processor threads	16	HDMI version	2.1
Processor boost frequency	5.4 GHz	Thunderbolt 4 ports quantity	1
Performance cores	6	Intel® Thunderbolt 4	✓
Efficient cores	8	Combo headphone/mic port	✓
Low Power Efficient-cores	2	Power adapter barrel connector	6.0 mm
Performance-core Max Turbo Frequency	5.4 GHz	USB Type-C DisplayPort Alternate Mode	✓
Efficient-core Max Turbo Frequency	4.5 GHz	Performance	
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Repairability index	8.4
Performance-core base frequency	2.9 GHz	Keyboard	
Efficient-core base frequency	2.7 GHz	Pointing device	Touchpad + DialPad
Low Power Efficient-core Base Frequency	1000 MHz	Numeric keypad *	✓
Processor cache	24 MB	Keyboard backlit	✓
Processor cache type	Smart Cache	Copilot key	✓
Processor base power	45 W	Software	
Maximum turbo power	115 W	Operating system architecture	64-bit
Neural processor unit (NPU)		Microsoft Copilot	✓
Copilot+ PC	✓	Trial software	1-month trial for new Microsoft 365 customers
Neural processor unit (NPU)	Intel AI Boost	Operating system installed *	Windows 11 Home
Maximum frequency NPU	1.4 GHz	Battery	
Sparsity support	✓	Battery technology	Lithium-Ion (Li-Ion)
Windows Studio effects support	✓	Number of battery cells	4
AI datatype support on NPU	Int8	Battery capacity *	75 Wh
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, WebNN, Windows ML	Power	
Total processor performance up to	99 TOPs	AC adapter power	200 W
NPU performance up to	13 TOPs	AC adapter frequency	50 - 60 Hz
GPU performance up to	77 TOPs	AC adapter input voltage	100 - 240 V
Memory		AC adapter output current	10 A
Internal memory *	16 GB	AC adapter output voltage	20 V
Internal memory type	DDR5-SDRAM	DC-in jack	✓
Memory form factor	On-board + SO-DIMM	USB Power Delivery (USB PD)	✓
Memory layout (slots x size)	1 x 8 GB	Security	
Memory slots	1x SO-DIMM	Trusted Platform Module (TPM)	✓
Maximum internal memory *	24 GB	Password protection	✓
Storage		Password protection type	BIOS, User
Total storage capacity *	1 TB	Certificates	
Storage media *	SSD	Compliance certificates	REACH
Total SSDs capacity	1 TB	Sustainability	
Number of SSDs installed	1	Sustainability certificates	ENERGY STAR
SSD capacity	1 TB	Weight & dimensions	
SSD interface	PCI Express 4.0	Width	355.7 mm
NVMe	✓	Depth	235.3 mm
SSD form factor	M.2	Height	19.9 mm
Optical drive type *	✗	Weight *	1.8 kg
Card reader integrated	✓	Packaging data	
Compatible memory cards	SD	Package width	460 mm
Graphics		Package depth	65 mm
Discrete GPU manufacturer	NVIDIA	Package height	290 mm
Discrete graphics card model *	NVIDIA GeForce RTX 4050	Package weight	2.57 kg
		Packaging content	
		AC adapter included *	✓

Logistics data

Commodity Classification Automated Tracking System (CCATS)	8471300000
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Catalog Object Cloud



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