

ASUS Vivobook Pro 15 OLED N6506CU-MA014W Intel Core Ultra 9 285H Laptop 39.6 cm (15.6") 3K 24 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 4050 Wi-Fi 6E (802.11ax) Windows 11 Home Grey



Brand : ASUS

Product family: Vivobook

Product code: 90NB15E3-M001B0

Product name : N6506CU-MA014W

- 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)
- 24GB DDR5-SDRAM & 2000GB SSD

Intel Core Ultra 9 285H (24MB Cache), 24GB DDR5-SDRAM, 2000GB 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-MA014W. 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: 24 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 2 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		Storage	
Colour name	Earl Gray	NVMe	✓
Product type *	Laptop	SSD form factor	M.2
Product colour *	Grey	M.2 SSD size	2280 (22 x 80 mm)
Form factor *	Clamshell	Optical drive type *	✗
Housing material	Aluminium, Plastic	Card reader integrated	✓
Market positioning	Home	Compatible memory cards	SD
Display		Graphics	
Display diagonal *	39.6 cm (15.6")	Discrete graphics card model *	NVIDIA GeForce RTX 4050
Display resolution *	2880 x 1620 pixels	Discrete graphics card memory	6 GB
Touchscreen *	✗	Discrete graphics memory type	GDDR6
HD type	3K	On-board graphics card *	✓
Panel type	OLED	On-board GPU manufacturer	Intel
Native aspect ratio	16:9	Discrete graphics card *	✓
Display surface	Gloss	On-board graphics card family	Intel Arc Graphics
Display brightness	400 cd/m ²	On-board graphics card model *	Intel Arc 140T
Maximum display brightness (HDR)	500 cd/m ²		
RGB colour space	DCI-P3		
Colour gamut	100%		
Maximum refresh rate	120 Hz		
Contrast ratio (typical)	1000000:1		
High Dynamic Range (HDR) supported	✓		
High Dynamic Range (HDR) technology	DisplayHDR True Black 600		
Processor		Audio	
Processor manufacturer *	Intel	Audio system	Smart Amp
Processor family *	Intel Core Ultra 9	Built-in microphone	✓
Processor generation	Intel Core Ultra (Series 2)		
Processor model *	285H		
Processor cores	16		
Processor threads	16		
Processor boost frequency	5.4 GHz		
Performance cores	6		
		Camera	
		Front camera	✓
		Front camera resolution (numeric)	5 MP
		Privacy camera	✓
		Privacy type	Privacy shutter
		Network	
		Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
		Wi-Fi standards	Wi-Fi 6E (802.11ax)
		Mobile network connection *	✗
		Antenna type	2x2
		Ethernet LAN	✓
		Ethernet LAN data rates	1000 Mbit/s

Processor		Network	
Efficient cores	8	Bluetooth	✓
Low Power Efficient-cores	2	Bluetooth version	5.3
Performance-core Max Turbo Frequency	5.4 GHz	Ports & interfaces	
Efficient-core Max Turbo Frequency	4.5 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	2.9 GHz	Ethernet LAN (RJ-45) ports	1
Efficient-core base frequency	2.7 GHz	HDMI ports quantity *	1
Low Power Efficient-core Base Frequency	1000 MHz	HDMI version	2.1
Processor cache	24 MB	Thunderbolt 4 ports quantity	1
Processor base power	45 W	Intel® Thunderbolt 4	✓
Maximum turbo power	115 W	Combo headphone/mic port	✓
Neural processor unit (NPU)		Keyboard	
Neural processor unit (NPU)	Intel AI Boost	Pointing device	Touchpad + DialPad
Sparsity support	✓	Numeric keypad *	✓
Windows Studio effects support	✓	Software	
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Operating system architecture	64-bit
Total processor performance up to	99 TOPs	Operating system installed *	Windows 11 Home
NPU performance up to	13 TOPs	Battery	
GPU performance up to	77 TOPs	Battery technology	Lithium-Ion (Li-Ion)
Memory		Number of battery cells	4
Internal memory *	24 GB	Battery capacity *	75 Wh
Internal memory type	DDR5-SDRAM	Power	
Maximum internal memory *	24 GB	AC adapter power	200 W
Storage		AC adapter frequency	50 - 60 Hz
Total storage capacity *	2 TB	AC adapter input voltage	100 - 240 V
Storage media *	SSD	AC adapter output current	10 A
Total SSDs capacity	2 TB	AC adapter output voltage	20 V
Number of SSDs installed	1	DC-in jack	✓
SSD capacity	2 TB	USB Type-C charging port *	✓
SSD interface	PCI Express 4.0	USB Power Delivery (USB PD)	✓
		Weight & dimensions	
		Width	355.7 mm
		Depth	235.3 mm
		Height	19.9 mm
		Weight *	1.8 kg
		Packaging content	
		AC adapter included *	✓

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