

ASUS Vivobook S 16 OLED M5606WA-MX022X AMD Ryzen AI 9 370 Laptop 40,6 cm (16") 3.2K 32 GB LPDDR5x-SDRAM 1 TB SSD Wi-Fi 6E (802.11ax) Windows 11 Pro Black

Brand : ASUS

Product family: Vivobook

Article code: 90NB14B2-M001Z0

Product name : M5606WA-MX022X

ASUS Vivobook S 16 OLED M5606WA-MX022X. Product type: Laptop, Form factor: Clamshell. Processor family: AMD Ryzen AI 9, Processor model: 370, Processor frequency: 2 GHz. Display diagonal: 40,6 cm (16"), HD type: 3.2K, Display resolution: 3200 x 2000 pixels. Internal memory: 32 GB, Internal memory type: LPDDR5x-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: AMD Radeon 890M. Operating system installed: Windows 11 Pro. Product color: Black



Design		Audio	
Colour name	Neutral Black	Audio system	Smart Amp
Product type *	Laptop	Built-in microphone	✓
Product colour *	Black	Camera	
Form factor *	Clamshell	Front camera	✓
Housing material	Aluminium	Front camera resolution	1920 x 1080 pixels
Market positioning	Home	Front camera HD type	Full HD
Introduction year	2024	Infrared (IR) camera	✓
Display		Privacy camera	✓
Display diagonal *	40.6 cm (16")	Privacy type	Privacy shutter
Display resolution *	3200 x 2000 pixels	Network	
Touchscreen *	✗	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
HD type	3.2K	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Panel type	OLED	Mobile network connection *	✗
Native aspect ratio	16:10	Antenna type	2x2
Display surface	Gloss	Ethernet LAN	✗
Display brightness	400 cd/m²	Bluetooth	✓
Maximum display brightness (HDR)	600 cd/m²	Bluetooth version	5.3
RGB colour space	DCI-P3	Ports & interfaces	
Colour gamut	100%	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Display response rise/fall	0.2 ms	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Maximum refresh rate	120 Hz	USB4 Gen 3x2 ports quantity	1
Display number of colours	1.073 billion colours	HDMI ports quantity *	1
Contrast ratio (typical)	1000000:1	HDMI version	2.1
High Dynamic Range (HDR) supported	✓	Combo headphone/mic port	✓
High Dynamic Range (HDR) technology	HDR True Black 500	Charging port type	USB Type-C
Processor		USB Type-C DisplayPort Alternate Mode	✓
Processor manufacturer *	AMD	Keyboard	
Processor family *	AMD Ryzen AI 9	Pointing device	Touchpad
Processor generation	AMD Ryzen AI 300	Numeric keypad *	✓
Processor model *	370	Keyboard backlit	✓
Processor cores	12		
Processor threads	24		
Processor boost frequency	5.1 GHz		
Processor frequency *	2 GHz		

Processor		Keyboard	
Processor cache	24 MB	Keyboard backlit colour	RGB
Processor cache type	L3	Keyboard backlit zone	1-zone RGB
Neural processor unit (NPU)		Software	
Neural processor unit (NPU)	AMD Ryzen AI	Operating system architecture	64-bit
Total processor performance up to	80 TOPs	Trial software	1-month trial for new Microsoft 365 customers. Credit card required.
NPU performance up to	50 TOPs	Operating system installed *	Windows 11 Pro
Memory		Battery	
Internal memory *	32 GB	Battery technology	Lithium-Ion (Li-Ion)
Internal memory type	LPDDR5x-SDRAM	Number of battery cells	4
Memory form factor	On-board	Battery capacity *	75 Wh
Maximum internal memory *	32 GB	Power	
Memory channels	Dual-channel	AC adapter power	90 W
Storage		AC adapter frequency	50 -60 Hz
Total storage capacity *	1 TB	AC adapter input voltage	100 - 240 V
Storage media *	SSD	AC adapter output current	4.5 A
Total SSDs capacity	1 TB	AC adapter output voltage	20 V
Number of SSDs installed	1	USB Type-C charging port *	✓
SSD capacity	1 TB	USB Power Delivery (USB PD) *	✓
SSD interface	PCI Express 4.0	Security	
NVMe	✓	Cable lock slot	✓
SSD form factor	M.2	Face recognition	✓
Optical drive type *	✗	Windows Hello	✓
Card reader integrated	✓	Trusted Platform Module (TPM)	✓
Compatible memory cards	MicroSD (TransFlash)	Password protection	✓
Graphics		Password protection type	BIOS, User
Discrete graphics card model *	Not available	Certificates	
On-board graphics card *	✓	Compliance certificates	REACH
On-board GPU manufacturer	AMD	Sustainability	
Discrete graphics card *	✗	Sustainability certificates	ENERGY STAR
On-board graphics card model *	AMD Radeon 890M	Weight & dimensions	
		Width	353.6 mm
		Depth	246.9 mm
		Height (front)	1.39 cm
		Height (rear)	1.59 cm
		Weight *	1.5 kg



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