



ASUS Vivobook 16X K3605ZV-N1045W Intel® Core™ i7 i7-12650H Laptop 40.6 cm (16") WUXGA 16 GB DDR4-SDRAM 512 GB SSD NVIDIA GeForce RTX 4060 Wi-Fi 6E (802.11ax) Windows 11 Home Silver



Brand : ASUS

Product family: Vivobook

Product code: 90NB11W2-M001Z0

Product name : K3605ZV-N1045W

Intel Core i7-12650H (24MB Cache), 16GB DDR4-SDRAM, 512GB SSD, 40.6 cm (16") WUXGA 1920 x 1200, Intel UHD Graphics, NVIDIA GeForce RTX 4060 (8GB GDDR6), WLAN, Webcam, Windows 11 Home 64-bit

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Set your imagination free

Set your imagination free with the powerful Vivobook 16X ! Whether it's for creative work or gaming fun, its 12th Gen Intel® Core™ H-series processor and NVIDIA® GeForce RTX™ 4060 Laptop GPU give you all the multitasking power you need, with a MUX Switch1 to put you in full control of the graphics performance. Give your eyes a treat with the awesome WUXGA 1920 x 1200 NanoEdge display that delivers ultravivid colors and super-smooth visuals, and get ready to explore the worlds of your imagination!



Design		Audio	
Colour name	Cool Silver	Audio system	SonicMaster
Product type *	Laptop	Built-in microphone	✓
Product colour *	Silver	Camera	
Form factor *	Clamshell	Front camera	✓
Housing material	Aluminium, Plastic	Front camera HD type	HD
Market positioning	Home	Privacy camera	✓
Display		Privacy type	Privacy shutter
Display diagonal *	40.6 cm (16")	Network	
Display resolution *	1920 x 1200 pixels	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Touchscreen *	✗	Wi-Fi standards	Wi-Fi 6E (802.11ax)
HD type	WUXGA	Mobile network connection *	✗
LED backlight	✓	Antenna type	1x1
Native aspect ratio	16:10	Ethernet LAN	✗
Anti-glare screen	✓	Bluetooth	✓
Display brightness	300 cd/m ²	Bluetooth version	5.3
RGB colour space	sRGB	Ports & interfaces	
Colour gamut	100%	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Maximum refresh rate	120 Hz	HDMI ports quantity *	1
Processor		HDMI version	2.1
Processor manufacturer *	Intel	Thunderbolt 4 ports quantity	1
Processor family *	Intel® Core™ i7	Intel® Thunderbolt 4	✓
Processor generation	12th gen Intel® Core™ i7	Combo headphone/mic port	✓
Processor model *	i7-12650H	Charging port type	DC-in jack
Processor cores	10	Power adapter barrel connector	4.5 mm
Processor boost frequency	4.7 GHz	USB Type-C DisplayPort Alternate Mode	✓
Performance cores	6	USB Power Delivery	✓
Efficient cores	4		

Processor		Performance	
Performance-core Max Turbo Frequency	4.7 GHz	Repairability index	8.4
Efficient-core Max Turbo Frequency	3.5 GHz	Keyboard	
Processor cache	24 MB	Pointing device	Touchpad
Processor cache type	Smart Cache	Numeric keypad *	✓
Configurable TDP-down	35 W	Keyboard backlit	✓
Processor base power	45 W	Software	
Maximum turbo power	115 W	Operating system architecture	64-bit
Memory		Trial software	1-month trial for new Microsoft 365 customers. Credit card required.
Internal memory *	16 GB	Operating system installed *	Windows 11 Home
Internal memory type	DDR4-SDRAM	Processor special features	
Memory form factor	On-board	CPU configuration (max)	1
Memory slots	1x SO-DIMM	Battery	
Maximum internal memory *	16 GB	Battery technology	Lithium-Ion (Li-Ion)
Storage		Number of battery cells	3
Total storage capacity *	512 GB	Battery capacity *	70 Wh
Storage media *	SSD	Power	
Total SSDs capacity	512 GB	AC adapter power	120 W
Number of SSDs installed	1	AC adapter frequency	50 - 60 Hz
SSD capacity	512 GB	AC adapter input voltage	100 - 240 V
SSD interface	PCI Express 4.0	AC adapter output current	6 A
NVMe	✓	AC adapter output voltage	20 V
SSD form factor	M.2	Security	
Optical drive type *	✗	Fingerprint reader	✓
Card reader integrated	✓	Trusted Platform Module (TPM)	✓
Compatible memory cards	SD	Password protection	✓
Graphics		Password protection type	BIOS, User
Discrete GPU manufacturer	NVIDIA	Certificates	
Discrete graphics card model *	NVIDIA GeForce RTX 4060	Compliance certificates	REACH
Discrete graphics card memory	8 GB	Sustainability	
Discrete graphics memory type	GDDR6	Sustainability compliance	✓
On-board graphics card *	✓	Sustainability certificates	ENERGY STAR, EPEAT Silver
On-board GPU manufacturer	Intel	Weight & dimensions	
Discrete graphics card *	✓	Width	358.6 mm
On-board graphics card family	Intel® UHD Graphics	Depth	249.1 mm
On-board graphics card model *	Intel® UHD Graphics	Height	18.9 mm
		Weight *	1.8 kg



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