

ASUS ROG Zephyrus M16 GU603ZX-K8045W laptop Intel® Core™ i9 i9-12900H 40,6 cm (16") WQXGA 32 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 3080 Ti Wi-Fi 6E (802.11ax) Windows 11 Home Black



Brand : ASUS

Product family: ROG

Product code: GU603ZX-K8045W

Product name : GU603ZX-K8045W

- Windows 11 Home 64-bit
 - Intel Core i9-12900H (24MB Cache)
 - 40.6 cm (16") WQXGA 2560 x 1600 IPS, NVIDIA GeForce RTX 3080 Ti (16GB GDDR6)
 - 32GB (4800MHz) DDR5-SDRAM (2 x 16) & 2000GB SSD
 Intel Core i9-12900H (24MB Cache), 32GB DDR5-SDRAM, 2000GB SSD, 40.6 cm (16") WQXGA 2560 x 1600 IPS, Intel Iris Xe Graphics, NVIDIA GeForce RTX 3080 Ti (16GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home 64-bit
 ASUS ROG Zephyrus M16 GU603ZX-K8045W. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i9, Processor model: i9-12900H. Display diagonal: 40,6 cm (16"), HD type: WQXGA, Display resolution: 2560 x 1600 pixels. Internal memory: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 2 TB, Storage media: SSD. On-board graphics card model: Intel Iris Xe Graphics, Discrete graphics card model: NVIDIA GeForce RTX 3080 Ti. Operating system installed: Windows 11 Home. Product colour: Black

Design		Network	
Colour name	Off Black	Mobile network connection *	✗
Product type *	Laptop	Antenna type	2x2
Product colour *	Black	Ethernet LAN	✓
Form factor *	Clamshell	Ethernet LAN data rates	10,100,1000,2500 Mbit/s
Market positioning	Gaming	Bluetooth	✓
Introduction year	2022	Bluetooth version	5.2
Country of origin	China	Ports & interfaces	
Display		USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Display diagonal *	40,6 cm (16")	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Display resolution *	2560 x 1600 pixels	Ethernet LAN (RJ-45) ports	1
Touchscreen *	✗	HDMI ports quantity *	1
HD type	WQXGA	HDMI version	2.0b
Panel type	IPS	Thunderbolt 4 ports quantity	1
Native aspect ratio	16:10	Intel® Thunderbolt 4	✓
Anti-glare screen	✓	Combo headphone/mic port	✓
RGB colour space	DCI-P3	USB Type-C DisplayPort Alternate Mode	✓
Colour gamut	100%	Keyboard	
Maximum refresh rate	165 Hz	Pointing device	Touchpad
Processor		Numeric keypad *	✗
Processor manufacturer *	Intel	Keyboard backlit	✓
Processor family *	Intel® Core™ i9	Software	
Processor generation	12th gen Intel® Core™ i9	Operating system architecture	64-bit
Processor model *	i9-12900H	Trial software	1-month trial for new Microsoft 365 customers. Credit card required.
Processor cores	14	Operating system installed *	Windows 11 Home
Processor cache	24 MB	Processor special features	
Configurable TDP-down	35 W	Intel Flex Memory Access	✓
Memory			
Internal memory *	32 GB		
Internal memory type	DDR5-SDRAM		
Memory clock speed	4800 MHz		

Memory		Processor special features	
Memory form factor	On-board + SO-DIMM	Intel Trusted Execution Technology	✓
Memory slots	1x SO-DIMM	Intel VT-x with Extended Page Tables (EPT)	✓
Maximum internal memory *	48 GB	Intel Stable Image Platform Program (SIPP)	✓
Storage		Execute Disable Bit	✓
Total storage capacity *	2 TB	CPU configuration (max)	1
Storage media *	SSD	Embedded options available	✗
Total SSDs capacity	2 TB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of SSDs installed	1	Intel Virtualization Technology (VT-x)	✓
SSD capacity	2 TB	Battery	
SSD interface	NVMe, PCI Express 4.0	Battery technology	Lithium-Ion (Li-Ion)
NVMe	✓	Number of battery cells	4
SSD form factor	M.2	Battery capacity *	90 Wh
Optical drive type *	✗	Power	
Card reader integrated	✓	AC adapter power	240 W
Compatible memory cards	MicroSD (TransFlash)	AC adapter frequency	50 - 60 Hz
Graphics		AC adapter input voltage	100 - 240 V
Discrete GPU manufacturer	NVIDIA	AC adapter output current	12 A
Discrete graphics card model *	NVIDIA GeForce RTX 3080 Ti	AC adapter output voltage	20 V
Discrete graphics card memory	16 GB	DC-in jack	✓
Discrete graphics memory type	GDDR6	USB Power Delivery	✓
On-board graphics card *	✓	Security	
Discrete graphics card *	✓	Cable lock slot	✓
On-board graphics card model *	Intel Iris Xe Graphics	Cable lock slot type	Kensington
Audio		Face recognition	✓
Audio system	Dolby Atmos	Windows Hello	✓
Number of built-in speakers	4	Password protection	✓
Built-in microphone	✓	Password protection type	BIOS, User
Camera		Weight & dimensions	
Front camera	✓	Width	355 mm
Front camera HD type	HD	Depth	243 mm
Infrared (IR) camera	✓	Height	19,9 mm
Network		Weight *	2 kg
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)		
Wi-Fi standards	Wi-Fi 6E (802.11ax)		



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