



# ASUS ROG Zephyrus M16 GU604VY-NM001W Intel® Core™ i9 i9-13900H Laptop 40.6 cm (16") Quad HD+ 32 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 4090 Wi-Fi 6E (802.11ax) Windows 11 Home Black

Brand : ASUS

Product family: ROG

Product code: 90NR0BR3-M000J0

Product name : GU604VY-NM001W



- Windows 11 Home 64-bit  
 - Intel Core i9-13900H (24MB Cache)  
 - 40.6 cm (16") Quad HD+ 2560 x 1600 Mini LED, NVIDIA GeForce RTX 4090 (16GB GDDR6)  
 - 32GB (4800MHz) DDR5-SDRAM (2 x 16) & 2000GB SSD  
 Intel Core i9-13900H (24MB Cache), 32GB DDR5-SDRAM, 2000GB SSD, 40.6 cm (16") Quad HD+ 2560 x 1600 Mini LED, Intel Iris Xe Graphics, NVIDIA GeForce RTX 4090 (16GB GDDR6), WLAN, Webcam, Windows 11 Home 64-bit  
 ASUS ROG Zephyrus M16 GU604VY-NM001W. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i9, Processor model: i9-13900H. Display diagonal: 40.6 cm (16"), HD type: Quad HD+, 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 4090. Operating system installed: Windows 11 Home. Product colour: Black



Design		Graphics	
Colour name	Off Black	Discrete graphics card *	✓
Product type *	Laptop	On-board graphics card family	Intel Iris Xe Graphics
Product colour *	Black	On-board graphics card model *	Intel Iris Xe Graphics
Form factor *	Clamshell	NVIDIA G-SYNC	✓
Market positioning	Gaming	Audio	
Introduction year	2023	Audio system	Dolby Atmos
Display		Built-in microphone	✓
Display diagonal *	40.6 cm (16")	Number of microphones	3
Display resolution *	2560 x 1600 pixels	Camera	
Touchscreen *	✗	Front camera	✓
HD type	Quad HD+	Front camera HD type	Full HD
Panel type	Mini LED	Infrared (IR) camera	✓
LED backlight	✓	Network	
Native aspect ratio	16:10	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Anti-glare screen	✓	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Display brightness	1100 cd/m <sup>2</sup>	Mobile network connection *	✗
RGB colour space	DCI-P3	Antenna type	2x2
Colour gamut	100%	Bluetooth	✓
Display response rise/fall	3 ms	Bluetooth version	5.3
Maximum refresh rate	240 Hz	Ports & interfaces	
High Dynamic Range (HDR) supported	✓	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
High Dynamic Range (HDR) technology	Dolby Vision	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Processor		HDMI ports quantity *	1
Processor manufacturer *	Intel	HDMI version	2.1
Processor family *	Intel® Core™ i9	Thunderbolt 4 ports quantity	1
Processor generation	13th gen Intel® Core™ i9	Intel® Thunderbolt 4	✓
Processor model *	i9-13900H	Combo headphone/mic port	✓
Processor cores	14	Charging port type	DC-in jack
Processor boost frequency	5.4 GHz		

<b>Processor</b>		<b>Ports &amp; interfaces</b>	
Performance cores	6	Power adapter barrel connector	6.0 mm
Efficient cores	8	USB Type-C DisplayPort Alternate Mode	✓
Performance-core Max Turbo Frequency	5.4 GHz	USB Power Delivery	✓
Efficient-core Max Turbo Frequency	4.1 GHz	<b>Keyboard</b>	
Efficient-core boost frequency	4.1 GHz	Pointing device	Touchpad
Processor cache	24 MB	Numeric keypad *	✗
Processor cache type	Smart Cache	Keyboard backlit	✓
Configurable TDP-down	35 W	Keyboard backlit colour	RGB
Processor base power	45 W	<b>Software</b>	
Maximum turbo power	115 W	Operating system architecture	64-bit
<b>Memory</b>		Operating system installed *	Windows 11 Home
Internal memory *	32 GB	<b>Processor special features</b>	
Internal memory type	DDR5-SDRAM	CPU configuration (max)	1
Memory clock speed	4800 MHz	<b>Battery</b>	
Memory form factor	SO-DIMM	Battery technology	Lithium-Ion (Li-Ion)
Memory layout (slots x size)	2 x 16 GB	Number of battery cells	4
Memory slots	2x SO-DIMM	Battery capacity *	90 Wh
Maximum internal memory *	64 GB	Fast charging	✓
Memory channels	Dual-channel	Fast charging time (50%)	30 min
<b>Storage</b>		<b>Power</b>	
Total storage capacity *	2 TB	AC adapter power	280 W
Storage media *	SSD	AC adapter frequency	50 - 60 Hz
Total SSDs capacity	2 TB	AC adapter input voltage	100 - 240 V
Number of SSDs installed	1	AC adapter output current	14 A
SSD capacity	2 TB	AC adapter output voltage	20 V
SSD interface	PCI Express 4.0	<b>Security</b>	
NVMe	✓	Cable lock slot	✓
SSD form factor	M.2	Cable lock slot type	Kensington
Optical drive type *	✗	Face recognition	✓
Card reader integrated	✓	Windows Hello	✓
Compatible memory cards	MicroSD (TransFlash)	Trusted Platform Module (TPM)	✓
<b>Graphics</b>		Password protection	✓
Discrete GPU manufacturer	NVIDIA	Password protection type	BIOS, User
Discrete graphics card model *	NVIDIA GeForce RTX 4090	<b>Weight &amp; dimensions</b>	
Discrete graphics card memory	16 GB	Width	355 mm
Discrete graphics memory type	GDDR6	Depth	246 mm
On-board graphics card *	✓	Height (front)	2.11 cm
On-board GPU manufacturer	Intel	Height (rear)	2.29 cm
		Weight *	2.3 kg



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