



# ASUS ROG Zephyrus M16 GU604VY-NM001W i9-13900H Notebook

## 40.6 cm (16") WQXGA Intel® Core™ i9 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-M002W0

**Product name :** GU604VY-NM001W



- Windows 11 Home 64-bit  
 - Intel Core i9-13900H (24MB Cache)  
 - 40.6 cm (16") WQXGA 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") WQXGA 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: Notebook, Form factor: Clamshell. Processor family: Intel® Core™ i9, Processor model: i9-13900H. 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 4090. Operating system installed: Windows 11 Home. Product colour: Black

Design		Network	
Colour name	Off Black	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Product type *	Notebook	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Product colour *	Black	Mobile network connection *	✗
Form factor *	Clamshell	Antenna type	2x2
Market positioning	Gaming	Bluetooth	✓
Introduction year	2023	Bluetooth version	5.2
Display		Ports & interfaces	
Display diagonal *	40.6 cm (16")	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Display resolution *	2560 x 1600 pixels	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Touchscreen *	✗	HDMI ports quantity *	1
HD type	WQXGA	HDMI version	2.1
Panel type	Mini LED	Thunderbolt 4 ports quantity	1
LED backlight	✓	Intel® Thunderbolt 4	✓
Native aspect ratio	16:10	Combo headphone/mic port	✓
Anti-glare screen	✓	Charging port type	DC-in jack
RGB colour space	DCI-P3	Power adapter barrel connector	6.0 mm
Colour gamut	100%	USB Type-C DisplayPort Alternate Mode	✓
Display response rise/fall	3 ms	USB Power Delivery	✓
Maximum refresh rate	240 Hz	Keyboard	
High Dynamic Range (HDR) supported	✓	Pointing device	Touchpad
High Dynamic Range (HDR) technology	Dolby Vision	Keyboard layout	QWERTY
Processor		Numeric keypad *	✗
Processor manufacturer *	Intel	Keyboard backlight	✓
Processor generation	13th gen Intel® Core™ i9	Keyboard backlight colour	RGB
Processor model *	i9-13900H	Software	
Processor family *	Intel® Core™ i9	Operating system architecture	64-bit
Processor boost frequency	5.4 GHz	Trial software	1-month trial for new Microsoft 365 customers
Efficient-core boost frequency	4.1 GHz	Operating system installed *	Windows 11 Home
Processor cores	14		
Processor cache	24 MB		
Processor cache type	Smart Cache		

Processor		Processor special features	
Configurable TDP-down	35 W	Intel Flex Memory Access	✓
Processor base power	45 W	Intel Trusted Execution Technology	✓
Maximum turbo power	115 W	Intel VT-x with Extended Page Tables (EPT)	✓
Memory		Intel Stable Image Platform Program (SIPP)	✓
Internal memory *	32 GB	Execute Disable Bit	✓
Internal memory type	DDR5-SDRAM	CPU configuration (max)	1
Memory clock speed	4800 MHz	Embedded options available	✗
Memory form factor	SO-DIMM	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory layout (slots x size)	2 x 16 GB	Intel Virtualization Technology (VT-x)	✓
Memory slots	2x SO-DIMM		
Maximum internal memory *	64 GB		
Storage		Battery	
Total storage capacity *	2 TB	Battery technology	Lithium-Ion (Li-Ion)
Storage media *	SSD	Number of battery cells	4
Total SSDs capacity	2 TB	Battery capacity *	90 Wh
Number of SSDs installed	1	Fast charging	✓
SSD capacity	2 TB	Fast charging time (50%)	30 min
SSD interface	PCI Express 4.0	Power	
NVMe	✓	AC adapter power	280 W
SSD form factor	M.2	AC adapter frequency	50 - 60 Hz
Optical drive type *	✗	AC adapter input voltage	100 - 240 V
Card reader integrated	✓	AC adapter output current	14 A
Compatible memory cards	MicroSD (TransFlash)	AC adapter output voltage	20 V
Graphics		Security	
Discrete GPU manufacturer	NVIDIA	Cable lock slot	✓
Discrete graphics card model *	NVIDIA GeForce RTX 4090	Cable lock slot type	Kensington
On-board graphics card *	✓	Windows Hello	✓
Discrete graphics card *	✓	Trusted Platform Module (TPM)	✓
On-board graphics card model *	Intel Iris Xe Graphics	Password protection	✓
Discrete graphics card memory	16 GB	Password protection type	BIOS, User
Discrete graphics memory type	GDDR6	Weight & dimensions	
Audio		Width	355 mm
Audio system	Dolby Atmos	Depth	246 mm
Built-in microphone	✓	Height (front)	1.99 cm
Number of microphones	3	Height (rear)	2.23 cm
Camera		Weight *	2.1 kg
Front camera	✓		
Front camera HD type	Full HD		
Infrared (IR) camera	✓		



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