



# ASUS ROG Zephyrus M16 GU604VZ-N4004W laptop Intel® Core™ i9 i9-13900H 40.6 cm (16") WQXGA 16 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 4080 Wi-Fi 6E (802.11ax) Windows 11 Home Black



**Brand :** ASUS

**Product family:** ROG

**Product code:** GU604VZ-N4004W

**Product name :** GU604VZ-N4004W

- 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 4080 (12GB GDDR6)  
 - 16GB (4800MHz) DDR5-SDRAM (1 x 16) & 1000GB SSD  
 Intel Core i9-13900H (24MB Cache), 16GB DDR5-SDRAM, 1000GB SSD, 40.6 cm (16") Quad HD+ 2560 x 1600 Mini LED, Intel Iris Xe Graphics, NVIDIA GeForce RTX 4080 (12GB GDDR6), WLAN, Webcam, Windows 11 Home 64-bit  
 ASUS ROG Zephyrus M16 GU604VZ-N4004W. Product type: Laptop, 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: 16 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel Iris Xe Graphics, Discrete graphics card model: NVIDIA GeForce RTX 4080. Operating system installed: Windows 11 Home. Product colour: Black

Design		Camera	
Colour name	Off Black	Infrared (IR) camera	✓
Product type *	Laptop	Network	
Product colour *	Black	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Form factor *	Clamshell	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Market positioning	Gaming	Mobile network connection *	✗
Introduction year	2023	Antenna type	2x2
Display		Bluetooth	✓
Display diagonal *	40.6 cm (16")	Bluetooth version	5.2
Display resolution *	2560 x 1600 pixels	Ports & interfaces	
Touchscreen *	✗	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
HD type	WQXGA	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Panel type	Mini LED	HDMI ports quantity *	1
LED backlight	✓	HDMI version	2.1
Native aspect ratio	16:10	Thunderbolt 4 ports quantity	1
Anti-glare screen	✓	Intel® Thunderbolt 4	✓
RGB colour space	DCI-P3	Combo headphone/mic port	✓
Colour gamut	100%	Charging port type	DC-in jack
Display response rise/fall	3 ms	Power adapter barrel connector	6.0 mm
Maximum refresh rate	240 Hz	USB Type-C DisplayPort Alternate Mode	✓
High Dynamic Range (HDR) supported	✓	USB Power Delivery	✓
High Dynamic Range (HDR) technology	Dolby Vision	Keyboard	
Processor		Pointing device	Touchpad
Processor manufacturer *	Intel	Numeric keypad *	✗
Processor family *	Intel® Core™ i9	Keyboard backlit	✓
Processor generation	13th gen Intel® Core™ i9	Keyboard backlit colour	RGB
Processor model *	i9-13900H	Software	
Processor cores	14	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 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 *	16 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)	1 x 16 GB	Intel Virtualization Technology (VT-x)	✓
Memory slots	2x SO-DIMM		
Maximum internal memory *	64 GB		
Storage		Battery	
Total storage capacity *	1 TB	Battery technology	Lithium-Ion (Li-Ion)
Storage media *	SSD	Number of battery cells	4
Total SSDs capacity	1 TB	Battery capacity *	90 Wh
Number of SSDs installed	1	Fast charging	✓
SSD capacity	1 TB	Fast charging time (50%)	30 min
SSD interface	PCI Express 4.0		
NVMe	✓	Power	
SSD form factor	M.2	AC adapter power	280 W
Optical drive type *	✗	AC adapter frequency	50 - 60 Hz
Card reader integrated	✗	AC adapter input voltage	100 - 240 V
Graphics		AC adapter output current	14 A
Discrete GPU manufacturer	NVIDIA	AC adapter output voltage	20 V
Discrete graphics card model *	NVIDIA GeForce RTX 4080	Security	
Discrete graphics card memory	12 GB	Cable lock slot	✓
Discrete graphics memory type	GDDR6	Cable lock slot type	Kensington
On-board graphics card *	✓	Face recognition	✓
On-board GPU manufacturer	Intel	Windows Hello	✓
Discrete graphics card *	✓	Trusted Platform Module (TPM)	✓
On-board graphics card model *	Intel Iris Xe Graphics	Password protection	✓
NVIDIA G-SYNC	✓	Password protection type	BIOS, User
Audio		Weight & dimensions	
Audio system	Dolby Atmos	Width	355 mm
Built-in microphone	✓	Depth	246 mm
Number of microphones	3	Height (front)	1.99 cm
Camera		Height (rear)	2.23 cm
Front camera	✓	Weight *	2.1 kg
Front camera HD type	Full HD		

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