



ASUS ROG Zephyrus G16 GU603ZV-N3009W i7-12700H Notebook 40.6 cm (16") WUXGA Intel® Core™ i7 16 GB DDR4-SDRAM 512 GB SSD NVIDIA GeForce RTX 4060 Wi-Fi 6E (802.11ax) Windows 11 Home Grey

Brand : ASUS

Product family: ROG

Product code: 90NR0H25-
M000K0

Product name : GU603ZV-
N3009W



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- Windows 11 Home 64-bit
- Intel Core i7-12700H (24MB Cache, 2.3GHz)
- 40.6 cm (16") WUXGA 1920 x 1200 IPS, NVIDIA GeForce RTX 4060 (8GB GDDR6)
- 16GB DDR4-SDRAM & 512GB SSD

Intel Core i7-12700H (24MB Cache, 2.3GHz), 16GB DDR4-SDRAM, 512GB SSD, 40.6 cm (16") WUXGA 1920 x 1200 IPS, Intel Iris Xe Graphics, NVIDIA GeForce RTX 4060 (8GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home 64-bit

ASUS ROG Zephyrus G16 GU603ZV-N3009W. Product type: Notebook, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-12700H, Processor frequency: 2.3 GHz. Display diagonal: 40.6 cm (16"), HD type: WUXGA, Display resolution: 1920 x 1200 pixels. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel Iris Xe Graphics. Operating system installed: Windows 11 Home. Product colour: Grey



Design		Network	
Colour name	Eclipse Gray	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Product type *	Notebook	Mobile network connection *	✗
Product colour *	Grey	Antenna type	2x2
Form factor *	Clamshell	Ethernet LAN	✓
Market positioning	Gaming	Bluetooth	✓
Display		Bluetooth version	5.2
Display diagonal *	40.6 cm (16")	Ports & interfaces	
Display resolution *	1920 x 1200 pixels	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Touchscreen *	✗	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
HD type	WUXGA	Ethernet LAN (RJ-45) ports	1
Panel type	IPS	HDMI ports quantity *	1
Native aspect ratio	16:10	HDMI version	2.1
Anti-glare screen	✓	Thunderbolt 4 ports quantity	1
Display brightness	250 cd/m ²	Intel® Thunderbolt 4	✓
RGB colour space	sRGB	Combo headphone/mic port	✓
Colour gamut	100%	Power adapter barrel connector	6.0 mm
Maximum refresh rate	165 Hz	USB Type-C DisplayPort Alternate Mode	✓
Contrast ratio (typical)	1000:1	USB Power Delivery	✓
High Dynamic Range (HDR) supported	✓	Keyboard	
High Dynamic Range (HDR) technology	Dolby Vision	Pointing device	Touchpad
Processor		Numeric keypad *	✗
Processor manufacturer *	Intel	Keyboard backlit	✓
Processor generation	12th gen Intel® Core™ i7	Keyboard backlit colour	RGB
Processor model *	i7-12700H	Keyboard backlit zone	1-zone RGB
Processor family *	Intel® Core™ i7		
Processor frequency *	2.3 GHz		
Processor boost frequency	4.7 GHz		

Processor		Software	
Processor cores	14	Operating system architecture	64-bit
Processor cache	24 MB	Trial software	McAfee LiveSafe™ 30-day trial
Configurable TDP-down	35 W	Operating system installed *	Windows 11 Home
Memory		Processor special features	
Internal memory *	16 GB	Intel Flex Memory Access	✓
Internal memory type	DDR4-SDRAM	Intel Trusted Execution Technology	✓
Memory form factor	On-board	Intel VT-x with Extended Page Tables (EPT)	✓
Memory slots	1x SO-DIMM	Execute Disable Bit	✓
Maximum internal memory *	48 GB	CPU configuration (max)	1
Storage		Embedded options available	✗
Total storage capacity *	512 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Storage media *	SSD	Intel Virtualization Technology (VT-x)	✓
Total SSDs capacity	512 GB	Battery	
Number of SSDs installed	1	Battery technology	Lithium-Ion (Li-Ion)
SSD capacity	512 GB	Number of battery cells	4
SSD interface	PCI Express 4.0	Battery capacity *	90 Wh
NVMe	✓	Power	
SSD form factor	M.2	AC adapter power	240 W
Optical drive type *	✗	AC adapter frequency	50 - 60 Hz
Card reader integrated	✓	AC adapter input voltage	100 - 240 V
Compatible memory cards	MicroSD (TransFlash)	AC adapter output current	12 A
Graphics		AC adapter output voltage	20 V
Discrete GPU manufacturer	NVIDIA	Security	
Discrete graphics card model *	NVIDIA GeForce RTX 4060	Cable lock slot	✓
On-board graphics card *	✓	Cable lock slot type	Kensington
Discrete graphics card *	✓	Windows Hello	✓
On-board graphics card model *	Intel Iris Xe Graphics	Trusted Platform Module (TPM)	✓
Discrete graphics card memory	8 GB	Password protection	✓
Discrete graphics memory type	GDDR6	Password protection type	BIOS, User
Audio		Weight & dimensions	
Audio system	Dolby Atmos	Width	355 mm
Built-in microphone	✓	Depth	243 mm
Camera		Height (front)	2.05 cm
Front camera	✓	Height (rear)	2.29 cm
Front camera HD type	HD	Weight *	2 kg
Infrared (IR) camera	✓	Network	
Network		Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)



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