



# ASUS ROG Zephyrus G16 GU603ZU-N3003W Intel® Core™ i7 i7-12700H Laptop 40.6 cm (16") WUXGA 16 GB DDR4-SDRAM 512 GB SSD NVIDIA GeForce RTX 4050 Wi-Fi 6E (802.11ax) Windows 11 Home Grey



**Brand :** ASUS

**Product family:** ROG

**Product code:** 90NR0H45-M00050

**Product name :** GU603ZU-N3003W

- Windows 11 Home 64-bit  
 - Intel Core i7-12700H (24MB Cache)  
 - 40.6 cm (16") WUXGA 1920 x 1200 IPS, NVIDIA GeForce RTX 4050 (6GB GDDR6)  
 - 16GB DDR4-SDRAM & 512GB SSD  
 Intel Core i7-12700H (24MB Cache), 16GB DDR4-SDRAM, 512GB SSD, 40.6 cm (16") WUXGA 1920 x 1200 IPS, Intel Iris Xe Graphics, NVIDIA GeForce RTX 4050 (6GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home 64-bit  
 ASUS ROG Zephyrus G16 GU603ZU-N3003W. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-12700H. 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, Discrete graphics card model: NVIDIA GeForce RTX 4050. Operating system installed: Windows 11 Home. Product colour: Grey



Design		Network	
Colour name	Eclipse Grey	Mobile network connection *	✗
Product type *	Laptop	Antenna type	2x2
Product colour *	Grey	Ethernet LAN	✓
Form factor *	Clamshell	Bluetooth	✓
Market positioning	Gaming	Bluetooth version	5.3
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 *	1920 x 1200 pixels	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Touchscreen *	✗	Ethernet LAN (RJ-45) ports	1
HD type	WUXGA	HDMI ports quantity *	1
Panel type	IPS	HDMI version	2.1
Native aspect ratio	16:10	Thunderbolt 4 ports quantity	1
Anti-glare screen	✓	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	✓
High Dynamic Range (HDR) supported	✓	USB Power Delivery	✓
High Dynamic Range (HDR) technology	Dolby Vision		
Processor		Keyboard	
Processor manufacturer *	Intel	Pointing device	Touchpad
Processor family *	Intel® Core™ i7	Numeric keypad *	✗
Processor generation	12th gen Intel® Core™ i7	Keyboard backlit	✓
Processor model *	i7-12700H	Keyboard backlit colour	RGB
Processor cores	14	Software	
Processor boost frequency	4.7 GHz	Operating system architecture	64-bit
Processor cache	24 MB	Operating system installed *	Windows 11 Home
Configurable TDP-down	35 W	Processor special features	
Memory		Intel Flex Memory Access	✓
Internal memory *	16 GB	Intel Trusted Execution Technology	✓
Internal memory type	DDR4-SDRAM	Intel VT-x with Extended Page Tables (EPT)	✓

<b>Storage</b>		<b>Processor special features</b>	
Total storage capacity *	512 GB	Execute Disable Bit	✓
Storage media *	SSD	CPU configuration (max)	1
Total SSDs capacity	512 GB	Embedded options available	✗
Number of SSDs installed	1	Intel Virtualization Technology for Directed I/O (VT-d)	✓
SSD capacity	512 GB	Intel Virtualization Technology (VT-x)	✓
SSD interface	PCI Express 4.0		
NVMe	✓	<b>Battery</b>	
SSD form factor	M.2	Battery technology	Lithium-Ion (Li-Ion)
Optical drive type *	✗	Number of battery cells	4
Card reader integrated	✓	Battery capacity *	90 Wh
Compatible memory cards	MicroSD (TransFlash)		
<b>Graphics</b>		<b>Power</b>	
Discrete GPU manufacturer	NVIDIA	AC adapter power	240 W
Discrete graphics card model *	NVIDIA GeForce RTX 4050	AC adapter frequency	50 - 60 Hz
Discrete graphics card memory	6 GB	AC adapter input voltage	100 - 240 V
Discrete graphics memory type	GDDR6	AC adapter output current	12 A
On-board graphics card *	✓	AC adapter output voltage	20 V
On-board GPU manufacturer	Intel		
Discrete graphics card *	✓	<b>Security</b>	
On-board graphics card model *	Intel Iris Xe Graphics	Cable lock slot	✓
		Cable lock slot type	Kensington
		Windows Hello	✓
		Trusted Platform Module (TPM)	✓
		Password protection	✓
		Password protection type	BIOS, User
<b>Audio</b>		<b>Weight &amp; dimensions</b>	
Audio system	Dolby Atmos	Width	355 mm
Built-in microphone	✓	Depth	243 mm
Number of microphones	3	Height (front)	2.05 cm
		Height (rear)	2.29 cm
		Weight *	2 kg
<b>Camera</b>			
Front camera	✓		
Front camera HD type	HD		
Infrared (IR) camera	✓		
<b>Network</b>			
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)		
Wi-Fi standards	Wi-Fi 6E (802.11ax)		



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