



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



**Brand :** ASUS

**Product family:** ROG

**Product code:** GU603ZU-N3003W

**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: Notebook, 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: White

Design		Network	
Colour name	Moonlight White	Antenna type	2x2
Product type *	Notebook	Ethernet LAN	✓
Product colour *	White	Bluetooth	✓
Form factor *	Clamshell	Bluetooth version	5.2
Market positioning	Gaming	Ports & interfaces	
Display		USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Display diagonal *	40.6 cm (16")	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Display resolution *	1920 x 1200 pixels	Ethernet LAN (RJ-45) ports	1
Touchscreen *	✗	HDMI ports quantity *	1
HD type	WUXGA	HDMI version	2.1
Panel type	IPS	Thunderbolt 4 ports quantity	1
Native aspect ratio	16:10	Intel® Thunderbolt 4	✓
Anti-glare screen	✓	Combo headphone/mic port	✓
RGB colour space	sRGB	Power adapter barrel connector	6.0 mm
Colour gamut	100%	USB Type-C DisplayPort Alternate Mode	✓
Maximum refresh rate	165 Hz	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	Software	
Processor family *	Intel® Core™ i7	Operating system architecture	64-bit
Processor boost frequency	4.7 GHz	Operating system installed *	Windows 11 Home
Processor cores	14	Processor special features	
Processor cache	24 MB	Intel Flex Memory Access	✓
Configurable TDP-down	35 W	Intel Trusted Execution Technology	✓
Memory		Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory *	16 GB	Execute Disable Bit	✓
Internal memory type	DDR4-SDRAM		

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



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