

ASUS ROG Zephyrus G16 GU605CR-QR102W Intel Core Ultra 9 285H Laptop 40.6 cm (16") 2.5K 32 GB LPDDR5x-SDRAM 1 TB SSD NVIDIA GeForce RTX 5070 Ti Wi-Fi 7 (802.11be) Windows 11 Home Grey



Brand : ASUS

Product family: ROG

Product code: 90NR0LZ5-M00D50

Product name : GU605CR-QR102W

- Windows 11 Home 64-bit
- Intel Core Ultra 9 285H (24MB Cache)
- 40.6 cm (16") 2.5K 2560 x 1600 OLED, NVIDIA GeForce RTX 5070 Ti (12GB GDDR7)
- 32GB (7467MHz) LPDDR5x-SDRAM & 1000GB SSD
Intel Core Ultra 9 285H (24MB Cache), 32GB LPDDR5x-SDRAM, 1000GB SSD, 40.6 cm (16") 2.5K 2560 x 1600 OLED, Intel Arc 140T, NVIDIA GeForce RTX 5070 Ti (12GB GDDR7), WLAN, Webcam, Windows 11 Home 64-bit

ASUS ROG Zephyrus G16 GU605CR-QR102W Intel Core Ultra 9 285H Laptop 40.6 cm (16") 2.5K 32 GB LPDDR5x-SDRAM 1 TB SSD NVIDIA GeForce RTX 5070 Ti Wi-Fi 7 (802.11be) Windows 11 Home Grey:

The Dawn of A New Age

The 2025 Zephyrus G16 and Windows 11 Pro make gaming, creation, and everything in between a breeze. Featuring an Intel® Core™ Ultra 9 processor 285H and up to an NVIDIA® GeForce RTX™ 5090 Laptop GPU, this 16-inch machine can easily handle the latest games and cutting-edge creative software alike. The Zephyrus G16 can effortlessly transcribe voice notes into text documents, save valuable time during a video render, and play the latest AAA games at blazingly fast refresh rates. The future is here.

Design		Graphics	
Colour name	Eclipse Gray	On-board graphics card family	Intel Arc Graphics
Product type *	Laptop	On-board graphics card model *	Intel Arc 140T
Product colour *	Grey	Audio	
Form factor *	Clamshell	Audio system	Dolby Atmos
Market positioning	Gaming	Number of built-in speakers	4
Introduction year	2025	Built-in microphone	✓
Country of origin	China	Number of microphones	3
Display		Camera	
Display diagonal *	40.6 cm (16")	Front camera	✓
Display resolution *	2560 x 1600 pixels	Front camera resolution	1920 x 1080 pixels
Touchscreen *	✗	Front camera HD type	Full HD
HD type	2.5K	Infrared (IR) camera	✓
Panel type	OLED	Network	
Native aspect ratio	16:10	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Display surface	Gloss	Wi-Fi standards	Wi-Fi 7 (802.11be)
Display brightness	500 cd/m²	Mobile network connection *	✗
RGB colour space	DCI-P3	Antenna type	2x2
Colour gamut	100%	Ethernet LAN	✗
Maximum refresh rate	240 Hz	Bluetooth	✓
Contrast ratio (typical)	1000000:1	Bluetooth version	5.4
High Dynamic Range (HDR) supported	✓	Ports & interfaces	
High Dynamic Range (HDR) technology	Dolby Vision	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Processor		USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Processor manufacturer *	Intel	HDMI ports quantity *	1
Processor family *	Intel Core Ultra 9	HDMI version	2.1
Processor generation	Intel Core Ultra (Series 2)	Thunderbolt 4 ports quantity	1
Processor model *	285H		
Processor cores	16		

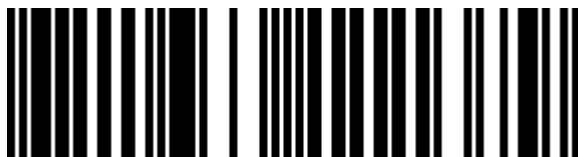
Processor		Ports & interfaces	
Processor threads	16	Intel® Thunderbolt 4	✔
Processor boost frequency	5.4 GHz	Combo headphone/mic port	✔
Performance cores	6	USB Type-C DisplayPort Alternate Mode	✔
Efficient cores	8		
Low Power Efficient-cores	2	Keyboard	
Performance-core Max Turbo Frequency	5.4 GHz	Pointing device	Touchpad
Efficient-core Max Turbo Frequency	4.5 GHz	Numeric keypad *	✖
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Keyboard backlit	✔
Performance-core base frequency	2.9 GHz	Keyboard backlit colour	RGB
Efficient-core base frequency	2.7 GHz	Keyboard backlit zone	1-zone RGB
Low Power Efficient-core Base Frequency	1000 MHz	Software	
Processor cache	24 MB	Operating system architecture	64-bit
Processor base power	45 W	Trial software	1-month trial for new Microsoft 365 customers
Maximum turbo power	115 W	Operating system installed *	Windows 11 Home
Neural processor unit (NPU)			Xbox Game Pass for PC_3 months (*Terms and exclusions apply. Offer only available in eligible markets for Xbox Game Pass for PC. Eligible markets are determined at activation. Game catalog varies by region, device, and time.)
Neural processor unit (NPU)	Intel AI Boost	Bundled software	
Sparsity support	✔		
Windows Studio effects support	✔		
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN		
Total processor performance up to	99 TOPs		
NPU performance up to	13 TOPs		
GPU performance up to	77 TOPs		
Memory		Battery	
Internal memory *	32 GB	Battery technology	Lithium-Ion (Li-Ion)
Internal memory type	LPDDR5x-SDRAM	Number of battery cells	4
Memory clock speed	7467 MHz	Battery capacity *	90 Wh
Memory form factor	On-board	Fast charging	✔
Maximum internal memory *	32 GB	Fast charging time (50%)	30 min
Memory channels	Dual-channel	Power	
Storage		AC adapter power	240 W
Total storage capacity *	1 TB	AC adapter frequency	50 - 60 Hz
Storage media *	SSD	AC adapter input voltage	100 - 240 V
Total SSDs capacity	1 TB	AC adapter output current	12 A
Number of SSDs installed	1	AC adapter output voltage	20 V
SSD capacity	1 TB	USB Type-C charging port *	✔
SSD interface	PCI Express 4.0	USB Type-C required charging power (min) *	45 W
NVMe	✔	USB Type-C required charging power (max) *	100 W
SSD form factor	M.2	USB Power Delivery (USB PD)	✔
Optical drive type *	✖	Security	
Card reader integrated	✔	Face recognition	✔
Compatible memory cards	SD	Windows Hello	✔
Graphics		Trusted Platform Module (TPM)	✔
Discrete GPU manufacturer	NVIDIA	Password protection	✔
Discrete graphics card model *	NVIDIA GeForce RTX 5070 Ti	Password protection type	BIOS, User
Discrete graphics card memory	12 GB	Weight & dimensions	
Discrete graphics memory type	GDDR7	Width	354 mm
On-board graphics card *	✔	Depth	246 mm
On-board GPU manufacturer	Intel	Height (front)	1.49 cm
Discrete graphics card *	✔	Height (rear)	1.74 cm
		Weight *	1.95 kg
		Packaging data	
		Package width	90 mm
		Package depth	465 mm
		Package height	335 mm
		Package weight	4.56 kg

Packaging content

AC adapter included *	✓
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Logistics data

Commodity Classification Automated Tracking System (CCATS)	8471300000
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Catalog Object Cloud



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