

ASUS ROG Zephyrus G16 GU605CW-QR087W Intel Core Ultra 9 285H Laptop 40.6 cm (16") WQXGA 32 GB LPDDR5x-SDRAM 2 TB SSD NVIDIA GeForce RTX 5080 Wi-Fi 7 (802.11be) Windows 11 Home Grey

Brand : ASUS

Product family: ROG

Product code: 90NR0LX5-M005H0

Product name : GU605CW-QR087W

Intel Core Ultra 9 285H (24MB Cache), 32GB LPDDR5x-SDRAM, 2000GB SSD, 40.6 cm (16") WQXGA 2560 x 1600 OLED, Intel Arc 140T, NVIDIA GeForce RTX 5080 (16GB GDDR7), WLAN, Webcam, Windows 11 Home 64-bit

ASUS ROG Zephyrus G16 GU605CW-QR087W Intel Core Ultra 9 285H Laptop 40.6 cm (16") WQXGA 32 GB LPDDR5x-SDRAM 2 TB SSD NVIDIA GeForce RTX 5080 Wi-Fi 7 (802.11be) Windows 11 Home Grey:

ROG ZEPHYRUS G16 (GU605)

Performance

The Dawn of A New Age

The 2025 Zephyrus G16 and Windows 11 make gaming, creation, and everything in between a breeze. Featuring an Intel® Core™ Ultra 9 processor 285H and an NVIDIA® GeForce RTX™ 5080 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	Discrete graphics card memory	16 GB
Product type *	Laptop	Discrete graphics memory type	GDDR7
Product colour *	Grey	On-board graphics card *	✓
Form factor *	Clamshell	On-board GPU manufacturer	Intel
Housing material	Aluminium	Discrete graphics card *	✓
Market positioning	Gaming	On-board graphics card family	Intel Arc Graphics
Display		On-board graphics card model *	Intel Arc 140T
Display diagonal *	40.6 cm (16")	NVIDIA G-SYNC	✓
Display resolution *	2560 x 1600 pixels	Audio	
Touchscreen *	✗	Audio system	Dolby Atmos
HD type	WQXGA	Number of built-in speakers	4
Panel type	OLED	Built-in microphone	✓
Native aspect ratio	16:10	Number of microphones	3
Display surface	Gloss	Camera	
Maximum display brightness (HDR)	500 cd/m²	Front camera	✓
RGB colour space	DCI-P3	Front camera HD type	Full HD
Colour gamut	100%	Infrared (IR) camera	✓
Maximum refresh rate	240 Hz	Network	
Contrast ratio (typical)	1000000:1	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
High Dynamic Range (HDR) supported	✓	Wi-Fi standards	Wi-Fi 7 (802.11be)
High Dynamic Range (HDR) technology	Dolby Vision	Mobile network connection *	✗
Processor		Antenna type	2x2
Processor manufacturer *	Intel	Bluetooth	✓
Processor family *	Intel Core Ultra 9	Bluetooth version	5.4
Processor generation	Intel Core Ultra (Series 2)		
Processor model *	285H		

Processor		Ports & interfaces	
Processor cores	16	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Processor threads	16	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Processor boost frequency	5.4 GHz	HDMI ports quantity *	1
Performance cores	6	HDMI version	2.1
Efficient cores	8	Thunderbolt 4 ports quantity	1
Low Power Efficient-cores	2	Intel® Thunderbolt 4	✓
Performance-core Max Turbo Frequency	5.4 GHz	Combo headphone/mic port	✓
Efficient-core Max Turbo Frequency	4.5 GHz	USB Type-C DisplayPort Alternate Mode	✓
Low Power Efficient-core Max Turbo Frequency	2.5 GHz		
Performance-core base frequency	2.9 GHz		
Efficient-core base frequency	2.7 GHz		
Low Power Efficient-core Base Frequency	1000 MHz		
Processor cache	24 MB		
Processor base power	45 W		
Maximum turbo power	115 W		
Neural processor unit (NPU)		Performance	
Neural processor unit (NPU)	Intel AI Boost	Repairability index	9.3
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		Keyboard	
Internal memory *	32 GB	Pointing device	Touchpad
Internal memory type	LPDDR5x-SDRAM	Numeric keypad *	✗
Memory form factor	On-board	Keyboard backlit	✓
Maximum internal memory *	64 GB	Keyboard backlit colour	RGB
Memory channels	Dual-channel	Keyboard backlit zone	1-zone RGB
Storage		Software	
Total storage capacity *	2 TB	Operating system architecture	64-bit
Storage media *	SSD	Trial software	1-month trial for new Microsoft 365 customers. Credit card required. McAfee® 30 days free trial
Total SSDs capacity	2 TB	Operating system installed *	Windows 11 Home
Number of SSDs installed	1		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.)
SSD capacity	2 TB		
SSD interface	PCI Express 4.0		
NVMe	✓		
SSD form factor	M.2		
Optical drive type *	✗		
Card reader integrated	✓		
Compatible memory cards	SD		
Graphics		Battery	
Discrete GPU manufacturer	NVIDIA	Battery technology	Lithium-Ion (Li-Ion)
Discrete graphics card model *	NVIDIA GeForce RTX 5080	Number of battery cells	4
		Battery capacity *	90 Wh
		Fast charging	✓
		Fast charging time (50%)	30 min
		Power	
		AC adapter power	240 W
		AC adapter frequency	50 - 60 Hz
		AC adapter input voltage	100 - 240 V
		AC adapter output current	12 A
		AC adapter output voltage	20 V
		USB Type-C charging port *	✓
		USB Power Delivery (USB PD)	✓
		Security	
		Windows Hello	✓
		Trusted Platform Module (TPM)	✓
		Password protection	✓
		Password protection type	BIOS, User
		Weight & dimensions	
		Width	354 mm
		Depth	246 mm
		Height (front)	1.49 cm
		Height (rear)	1.74 cm
		Weight *	1.95 kg

Packaging content

AC adapter included *





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Publication date: 12-APR-2025. Prints or copies of Information are only valid on the printed Publication date