

# ASUS ROG Zephyrus G16 GU605MI-DS91-CA Intel Core Ultra 9 185H Laptop 40.6 cm (16") WQXGA 16 GB LPDDR5x-SDRAM 1 TB SSD NVIDIA GeForce RTX 4070 Wi-Fi 6E (802.11ax) Windows 11 Home Grey, Black

**Brand :** ASUS

**Product family:** ROG

**Product code:** 90NR0IS1-M001X0

**Product name :** GU605MI-DS91-CA

- Windows 11 Home 64-bit  
 - Intel Core Ultra 9 185H (24MB Cache)  
 - 40.6 cm (16") WQXGA 2560 x 1600 OLED, NVIDIA GeForce RTX 4070 (8GB GDDR6)  
 - 16GB (7467MHz) LPDDR5x-SDRAM (2 x 8) & 1000GB SSD  
 Intel Core Ultra 9 185H (24MB Cache), 16GB LPDDR5x-SDRAM, 1000GB SSD, 40.6 cm (16") WQXGA 2560 x 1600 OLED, Intel Arc Graphics, NVIDIA GeForce RTX 4070 (8GB GDDR6), WLAN, Webcam, Windows 11 Home 64-bit

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## The New Era

Power, precision, and elegance define the 2024 Zephyrus G16. Thinner and sleeker than ever before, the Zephyrus G16 still has the same sense of style and individuality that has always set it apart from the crowd. Featuring an all-aluminum CNC-machined chassis, this laptop is the perfect blend of performance and style.

Design		Graphics	
Colour name	Eclipse Gray	Discrete graphics memory type	GDDR6
Product type *	Laptop	On-board graphics card *	✓
Product colour *	Grey, Black	On-board GPU manufacturer	Intel
Form factor *	Clamshell	Discrete graphics card *	✓
Market positioning	Gaming	On-board graphics card family	Intel Arc Graphics
Display		On-board graphics card model *	Intel Arc Graphics
Display diagonal *	40.6 cm (16")	NVIDIA G-SYNC	✓
Display resolution *	2560 x 1600 pixels	Audio	
Touchscreen *	✗	Audio system	Smart Amp
HD type	WQXGA	Number of built-in speakers	4
Panel type	OLED	Speaker power	4 W
Native aspect ratio	16:10	Built-in microphone	✓
Display surface	Gloss	Number of microphones	3
Display brightness	500 cd/m²	Camera	
RGB colour space	DCI-P3	Front camera	✓
Colour gamut	100%	Front camera resolution	1920 x 1080 pixels
Maximum refresh rate	240 Hz	Front camera HD type	Full HD
Contrast ratio (typical)	1000000:1	Infrared (IR) camera	✓
High Dynamic Range (HDR) supported	✓	Network	
High Dynamic Range (HDR) technology	Dolby Vision	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Processor		Wi-Fi standards	Wi-Fi 6E (802.11ax)
Processor manufacturer *	Intel	Mobile network connection *	✗
Processor family *	Intel Core Ultra 9	Antenna type	2x2
Processor generation	Intel® Core™ Ultra (Series 1)	Ethernet LAN	✗
Processor model *	185H	Bluetooth	✓
Processor threads	22	Bluetooth version	5.3
Processor boost frequency	5.1 GHz		
Performance cores	6		



Processor		Ports & interfaces	
Efficient cores	8	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Low Power Efficient-cores	2	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Performance-core Max Turbo Frequency	5.1 GHz	HDMI ports quantity *	1
Efficient-core Max Turbo Frequency	3.8 GHz	HDMI version	2.1
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Thunderbolt 4 ports quantity	1
Performance-core base frequency	2.3 GHz	Intel® Thunderbolt 4	✓
Efficient-core base frequency	1.8 GHz	Combo headphone/mic port	✓
Low Power Efficient-core Base Frequency	1000 MHz	USB Type-C DisplayPort Alternate Mode	✓
Processor cache	24 MB	Keyboard	
Processor cache type	Smart Cache	Pointing device	Touchpad
Processor base power	45 W	Numeric keypad *	✗
Maximum turbo power	115 W	Keyboard backlit	✓
Neural processor unit (NPU)		Keyboard backlit colour	RGB
Neural processor unit (NPU)	Intel AI Boost	Keyboard backlit zone	1-zone RGB
Maximum frequency NPU	1.4 GHz	Software	
Sparsity support	✓	Operating system architecture	64-bit
Windows Studio effects support	✓	Trial software	1-month trial for new Microsoft 365 customers. Credit card required.
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML	Operating system installed *	Windows 11 Home
Memory		Bundled software	Xbox Game Pass Ultimate_3 months (*Terms and exclusions apply. Offer only available in eligible markets for Xbox Game Pass Ultimate. Eligible markets are determined at activation. Game catalog varies by region, device, and time.)
Internal memory *	16 GB		
Internal memory type	LPDDR5x-SDRAM		
Memory clock speed	7467 MHz	Battery	
Memory form factor	On-board	Battery technology	Lithium-Ion (Li-Ion)
Maximum internal memory *	16 GB	Number of battery cells	4
Memory channels	Dual-channel	Battery capacity *	90 Wh
Storage		Fast charging	✓
Total storage capacity *	1 TB	Fast charging time (50%)	30 min
Storage media *	SSD	Power	
Total SSDs capacity	1 TB	AC adapter power	200 W
Number of SSDs installed	1	AC adapter frequency	50 - 60 Hz
SSD capacity	1 TB	AC adapter input voltage	100 - 240 V
SSD interface	PCI Express 4.0	AC adapter output current	10 A
NVMe	✓	AC adapter output voltage	20 V
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 4070	Password protection type	BIOS, User
Discrete graphics card memory	8 GB	Weight & dimensions	
		Width	354 mm
		Depth	246 mm
		Height (front)	1.49 cm
		Height (rear)	1.64 cm
		Weight *	1.85 kg



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### Catalog Object Cloud



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