

## ASUS ROG Strix SCAR 16 G635LW-RW041W laptop Intel Core Ultra 9 275HX 40.6 cm (16") WQXGA 32 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 5080 Wi-Fi 7 (802.11be) Windows 11 Home Black



**Brand :** ASUS

**Product family:** ROG

**Product code:** G635LW-RW041W

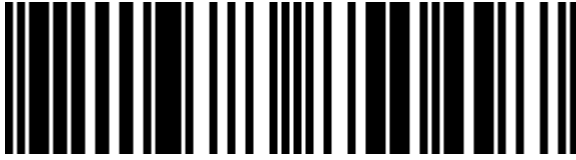
**Product name :** G635LW-RW041W

Intel Ultra 9 275HX, RTX 5080, 16", 2.5K, WQXGA, 240Hz, 2TB SSD

ASUS ROG Strix SCAR 16 G635LW-RW041W. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 9, Processor model: 275HX. Display diagonal: 40.6 cm (16"), HD type: WQXGA, Display resolution: 2560 x 1600 pixels. Internal memory: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 2 TB, Storage media: SSD. On-board graphics card model: Intel Graphics, Discrete graphics card model: NVIDIA GeForce RTX 5080. Operating system installed: Windows 11 Home. Product colour: Black

Design		Graphics	
Colour name	Off Black	Discrete graphics card *	✓
Product type *	Laptop	On-board graphics card family	Intel Graphics
Product colour *	Black	On-board graphics card model *	Intel Graphics
Form factor *	Clamshell	NVIDIA G-SYNC	✓
Market positioning	Gaming	<b>Audio</b>	
Introduction year	2025	Audio system	Smart Amp
Display		Number of built-in speakers	4
Display diagonal *	40.6 cm (16")	Built-in microphone	✓
Display resolution *	2560 x 1600 pixels	<b>Camera</b>	
Touchscreen *	✗	Front camera	✓
HD type	WQXGA	Front camera resolution	1920 x 1080 pixels
Panel type	Mini LED	Front camera HD type	Full HD
Native aspect ratio	16:10	Infrared (IR) camera	✓
Anti-glare screen	✓	<b>Network</b>	
RGB colour space	DCI-P3	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Colour gamut	100%	Wi-Fi standards	Wi-Fi 7 (802.11be)
Display response rise/fall	3 ms	Mobile network connection *	✗
Maximum refresh rate	240 Hz	Antenna type	2x2
High Dynamic Range (HDR) supported	✓	Ethernet LAN	✓
High Dynamic Range (HDR) technology	Dolby Vision	Ethernet LAN data rates	10,100,1000,2500 Mbit/s
Processor		Bluetooth	✓
Processor manufacturer *	Intel	Bluetooth version	5.4
Processor family *	Intel Core Ultra 9	<b>Ports &amp; interfaces</b>	
Processor generation	Intel Core Ultra (Series 2)	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	3
Processor model *	275HX	Ethernet LAN (RJ-45) ports	1
Processor cores	24	HDMI ports quantity *	1
Processor threads	24	HDMI version	2.1
Processor boost frequency	5.4 GHz	Thunderbolt 5 ports quantity	2
Performance cores	8		

Processor		Ports & interfaces	
Efficient cores	16	Intel® Thunderbolt 5	✓
Performance-core Max Turbo Frequency	5.4 GHz	Combo headphone/mic port	✓
Efficient-core Max Turbo Frequency	4.6 GHz	USB Type-C DisplayPort Alternate Mode	✓
Performance-core base frequency	2.7 GHz		
Efficient-core base frequency	2.1 GHz		
Processor cache	36 MB		
Processor base power	55 W		
Maximum turbo power	160 W		
Neural processor unit (NPU)		Performance	
Neural processor unit (NPU)	Intel AI Boost	Motherboard chipset	Intel HM870 Express
Sparsity support	✓		
Windows Studio effects support	✓		
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN		
Total processor performance up to	36 TOPs		
NPU performance up to	13 TOPs		
GPU performance up to	8 TOPs		
Memory		Keyboard	
Internal memory *	32 GB	Pointing device	NumberPad
Internal memory type	DDR5-SDRAM	Numeric keypad *	✗
Memory clock speed	5600 MHz	Keyboard backlit	✓
Memory form factor	SO-DIMM	Keyboard backlit colour	RGB
Memory layout (slots x size)	2 x 16 GB	Keyboard backlit zone	Per-key RGB
Memory slots	2x SO-DIMM	Copilot key	✓
Maximum internal memory *	64 GB		
Memory channels	Dual-channel		
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
Total SSDs capacity	2 TB	Operating system installed *	Windows 11 Home
Number of SSDs installed	2		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.) 1-month trial for new Microsoft 365 customers.
SSD capacity	1 TB		
SSD interface	PCI Express 4.0		
NVMe	✓	Bundled software	
SSD form factor	M.2	Microsoft Copilot	✓
Optical drive type *	✗	Copilot+ PC	✓
Card reader integrated	✗		
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
Discrete graphics card memory	16 GB	Battery capacity *	90 Wh
Discrete graphics memory type	GDDR7		
On-board graphics card *	✓		
On-board GPU manufacturer	Intel		
		Power	
		AC adapter power	380 W
		AC adapter frequency	50 - 60 Hz
		AC adapter input voltage	100 - 240 V
		AC adapter output current	19 A
		AC adapter output voltage	20 V
		DC-in jack	✓
		USB Type-C charging port *	✓
		USB Power Delivery (USB PD)	✓
		Security	
		Face recognition	✓
		Windows Hello	✓
		Trusted Platform Module (TPM)	✓
		Password protection	✓
		Password protection type	BIOS, User
		Weight & dimensions	
		Width	354 mm
		Depth	268 mm
		Height (front)	2.28 cm
		Height (rear)	3.08 cm
		Weight *	2.8 kg
		Packaging content	
		AC adapter included *	✓



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