

ASUS ROG Strix SCAR 16 G635LW-U9642W Intel Core Ultra 9 275HX Laptop 40.6 cm (16") WQXGA 64 GB DDR5-SDRAM 2 TB SSD NVIDIA® GeForce RTX™ 5080 Laptop GPU Wi-Fi 7 (802.11be) Windows 11 Home Black



Brand : ASUS

Product family: ROG

Product code: 90NR0LD1-M00210

Product name : G635LW-U9642W

- Windows 11 Home 64-bit
 - Intel Core Ultra 9 275HX (36MB Cache)
 - 16" WQXGA 2560 x 1600 Mini LED, NVIDIA GeForce RTX 5080 Laptop GPU (16GB GDDR7)
 - 64GB (5600MHz) DDR5-SDRAM & 2000GB SSD
 Intel Core Ultra 9 275HX (36MB Cache), 64GB DDR5-SDRAM, 2000GB SSD, 16" WQXGA 2560 x 1600 Mini LED, Intel Graphics, NVIDIA GeForce RTX 5080 Laptop GPU (16GB GDDR7), LAN, WLAN, Webcam, Windows 11 Home 64-bit

ASUS ROG Strix SCAR 16 G635LW-U9642W Intel Core Ultra 9 275HX Laptop 40.6 cm (16") WQXGA 64 GB DDR5-SDRAM 2 TB SSD NVIDIA® GeForce RTX™ 5080 Laptop GPU Wi-Fi 7 (802.11be) Windows 11 Home Black:

The best of the best

The 2025 Strix SCAR 16 offers the very best Windows 11 Pro gaming experience, featuring up to Intel® Core™ Ultra 9 processor 275HX and up to NVIDIA® GeForce RTX™ 5090 Laptop GPU with NVIDIA Max-Q technologies, including Advanced Optimus. This killer hardware is complemented with up to 64GB of 5600MHz DDR5 RAM and 4TB of PCIe 4.0 storage, with the memory slots upgradable to 6400MHz DDR5 RAM and SSD slots both offering full support for PCIe Gen 5, ensuring that you always have the edge on your competition.

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

Processor		Ports & interfaces	
Performance-core Max Turbo Frequency	5.4 GHz	HDMI ports quantity *	1
Efficient-core Max Turbo Frequency	4.6 GHz	HDMI version	2.1
Performance-core base frequency	2.7 GHz	Thunderbolt 5 ports quantity	2
Efficient-core base frequency	2.1 GHz	Intel® Thunderbolt 5	✓
Processor cache	36 MB	Combo headphone/mic port	✓
Processor base power	55 W	USB Type-C DisplayPort Alternate Mode	✓
Maximum turbo power	160 W		
Neural processor unit (NPU)		Keyboard	
Neural processor unit (NPU)	Intel AI Boost	Pointing device	NumberPad
Sparsity support	✓	Numeric keypad *	✗
Windows Studio effects support	✓	Keyboard backlit	✓
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Keyboard backlit colour	RGB
Total processor performance up to	36 TOPs	Keyboard backlit zone	Per-key RGB
NPU performance up to	13 TOPs		
GPU performance up to	8 TOPs	Software	
Memory		Operating system architecture	64-bit
Internal memory *	64 GB	Trial software	1-month trial for new Microsoft 365 customers. Credit card required.
Internal memory type	DDR5-SDRAM	Operating system installed *	Windows 11 Home
Memory clock speed	5600 MHz		Xbox Game Pass Premium_2 months (*Terms and exclusions apply. Offer only available in eligible markets for Xbox Game Pass Premium. Eligible markets are determined at activation. Game catalog varies by region, device, and time.)
Memory form factor	SO-DIMM	Bundled software	
Memory slots	2x SO-DIMM		
Maximum internal memory *	64 GB		
Memory channels	Dual-channel		
Storage		Battery	
Total storage capacity *	2 TB	Battery technology	Lithium-Ion (Li-Ion)
Storage media *	SSD	Number of battery cells	4
Total SSDs capacity	2 TB	Battery capacity *	90 Wh
Number of SSDs installed	1		
SSD capacity	2 TB	Power	
SSD interface	PCI Express 4.0	AC adapter power	380 W
NVMe	✓	AC adapter frequency	50 - 60 Hz
SSD form factor	M.2	AC adapter input voltage	100 - 240 V
Optical drive type *	✗	AC adapter output current	19 A
Graphics		AC adapter output voltage	20 V
Discrete GPU manufacturer	NVIDIA	USB Type-C charging port *	✓
Discrete graphics card model *	NVIDIA® GeForce RTX™ 5080 Laptop GPU	USB Power Delivery (USB PD)	✓
Discrete graphics card memory	16 GB		
Discrete graphics memory type	GDDR7	Security	
On-board graphics card *	✓	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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