

ASUS ROG Strix SCAR 16 G635LW-U9644X Intel Core Ultra 9 275HX Laptop 40.6 cm (16") 2.5K 64 GB DDR5-SDRAM 4 TB SSD NVIDIA GeForce RTX 5080 Wi-Fi 7 (802.11be) Windows 11 Pro Black

Brand : ASUS

Product family: ROG

Product code: 90NR0LD1-M001Y0

Product name : G635LW-U9644X

- Windows 11 Pro 64-bit
 - Intel Core Ultra 9 275HX (36MB Cache)
 - 16" 2.5K 2560 x 1600 Mini LED, NVIDIA GeForce RTX 5080 (16GB GDDR7)
 - 64GB (5600MHz) DDR5-SDRAM (2 x 32) & 4000GB SSD
 Intel Core Ultra 9 275HX (36MB Cache), 64GB DDR5-SDRAM, 4000GB SSD, 16" 2.5K 2560 x 1600 Mini LED, Intel Graphics, NVIDIA GeForce RTX 5080 (16GB GDDR7), LAN, WLAN, Webcam, Windows 11 Pro 64-bit

ASUS ROG Strix SCAR 16 G635LW-U9644X Intel Core Ultra 9 275HX Laptop 40.6 cm (16") 2.5K 64 GB DDR5-SDRAM 4 TB SSD NVIDIA GeForce RTX 5080 Wi-Fi 7 (802.11be) Windows 11 Pro Black:

The best of the best

The 2025 Strix SCAR 16 offers the very best Windows 11 Home gaming experience, featuring to Intel® Core™ Ultra 9 processor and to NVIDIA® GeForce RTX™ 5090 Laptop GPU with Advanced Optimus. This killer hardware is complemented with to 64GB of 5600MHz DDR5 RAM and 2TB 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	✓
Introduction year	2025	Audio	
Display		Audio system	Smart Amp
Display diagonal *	40.6 cm (16")	Number of built-in speakers	4
Display resolution *	2560 x 1600 pixels	Built-in microphone	✓
Touchscreen *	✗	Camera	
HD type	2.5K	Front camera	✓
Panel type	Mini LED	Front camera resolution	1920 x 1080 pixels
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 *	✗
High Dynamic Range (HDR) supported	✓	Antenna type	2x2
High Dynamic Range (HDR) technology	Dolby Vision	Ethernet LAN	✓
Processor		Ethernet LAN data rates	10,100,1000,2500 Mbit/s
Processor manufacturer *	Intel	Bluetooth	✓
Processor family *	Intel Core Ultra 9	Bluetooth version	5.4
Processor generation	Intel Core Ultra (Series 2)	Ports & interfaces	
Processor model *	275HX	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	3
Processor cores	24		

Processor		Ports & interfaces	
Processor threads	24	Ethernet LAN (RJ-45) ports	1
Processor boost frequency	5.4 GHz	HDMI ports quantity *	1
Performance cores	8	HDMI version	2.1
Efficient cores	16	Thunderbolt 5 ports quantity	2
Performance-core Max Turbo Frequency	5.4 GHz	Intel® Thunderbolt 5	✓
Efficient-core Max Turbo Frequency	4.6 GHz	Combo headphone/mic port	✓
Performance-core base frequency	2.7 GHz	USB Type-C DisplayPort Alternate Mode	✓
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	✓	Keyboard	
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Pointing device	NumberPad
Total processor performance up to NPU performance up to	36 TOPs	Numeric keypad *	✗
GPU performance up to	8 TOPs	Keyboard backlit	✓
Memory		Keyboard backlit colour	RGB
Internal memory *	64 GB	Keyboard backlit zone	Per-key RGB
Internal memory type	DDR5-SDRAM		
Memory clock speed	5600 MHz		
Memory form factor	SO-DIMM	Software	
Memory layout (slots x size)	2 x 32 GB	Operating system architecture	64-bit
Memory slots	2x SO-DIMM	Trial software	1-month trial for new Microsoft 365 customers
Maximum internal memory *	64 GB	Operating system installed *	Windows 11 Pro
Memory channels	Dual-channel		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.)
Storage		Bundled software	
Total storage capacity *	4 TB		
Storage media *	SSD	Battery	
Total SSDs capacity	4 TB	Battery technology	Lithium-Ion (Li-Ion)
Number of SSDs installed	2	Number of battery cells	4
SSD capacity	2 TB	Battery capacity *	90 Wh
SSD interface	PCI Express 4.0	Fast charging	✓
NVMe	✓	Fast charging time (50%)	30 min
SSD form factor	M.2		
Optical drive type *	✗	Power	
Card reader integrated	✗	AC adapter power	380 W
Graphics		AC adapter frequency	50 - 60 Hz
Discrete GPU manufacturer	NVIDIA	AC adapter input voltage	100 - 240 V
Discrete graphics card model *	NVIDIA GeForce RTX 5080	AC adapter output current	19 A
Discrete graphics card memory	16 GB	AC adapter output voltage	20 V
Discrete graphics memory type	GDDR7	DC-in jack	✓
On-board graphics card *	✓	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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