

ASUS ROG Strix SCAR 16 G635LW-XS97 Intel Core Ultra 9 275HX Laptop 40.6 cm (16") 2.5K 32 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 5080 Wi-Fi 7 (802.11be) Windows 11 Pro Black

Brand : ASUS

Product family: ROG

Product code: 90NR0LD1-M005N0

Product name : G635LW-XS97



- Windows 11 Pro 64-bit
 - Intel Core Ultra 9 275HX (36MB Cache)
 - 40.6 cm (16") 2.5K 2560 x 1600, NVIDIA GeForce RTX 5080 (16GB GDDR7)
 - 32GB (5600MHz) DDR5-SDRAM (2 x 16) & 2000GB SSD
- Intel Core Ultra 9 275HX (36MB Cache), 32GB DDR5-SDRAM, 2000GB SSD, 40.6 cm (16") 2.5K 2560 x 1600, Intel Graphics, NVIDIA GeForce RTX 5080 (16GB GDDR7), LAN, WLAN, Webcam, Windows 11 Pro 64-bit

ASUS ROG Strix SCAR 16 G635LW-XS97 Intel Core Ultra 9 275HX Laptop 40.6 cm (16") 2.5K 32 GB DDR5-SDRAM 2 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	Discrete graphics memory type	GDDR7
Product type *	Laptop	On-board graphics card *	✓
Product colour *	Black	On-board GPU manufacturer	Intel
Form factor *	Clamshell	Discrete graphics card *	✓
Market positioning	Gaming	On-board graphics card family	Intel Graphics
Introduction year	2025	On-board graphics card model *	Intel Graphics
Display		NVIDIA G-SYNC	✓
Display diagonal *	40.6 cm (16")	Audio	
Display resolution *	2560 x 1600 pixels	Audio system	Smart Amp
Touchscreen *	✗	Number of built-in speakers	4
HD type	2.5K	Built-in microphone	✓
Native aspect ratio	16:10	Camera	
Anti-glare screen	✓	Front camera	✓
RGB colour space	DCI-P3	Front camera resolution	1920 x 1080 pixels
Colour gamut	100%	Front camera HD type	Full HD
Display response rise/fall	3 ms	Infrared (IR) camera	✓
High Dynamic Range (HDR) supported	✓	Network	
High Dynamic Range (HDR) technology	Dolby Vision	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Processor		Wi-Fi standards	Wi-Fi 7 (802.11be)
Processor manufacturer *	Intel	Mobile network connection *	✗
Processor family *	Intel Core Ultra 9	Antenna type	2x2
Processor generation	Intel Core Ultra (Series 2)	Ethernet LAN	✓
Processor model *	275HX	Ethernet LAN data rates	10,100,1000,2500 Mbit/s
Processor cores	24	Bluetooth	✓
Processor threads	24	Bluetooth version	5.4
Processor boost frequency	5.4 GHz		

Processor		Ports & interfaces	
Performance cores	8	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	3
Efficient cores	16	Ethernet LAN (RJ-45) ports	1
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)		Performance	
Neural processor unit (NPU)	Intel AI Boost	Motherboard chipset	Intel HM870 Express
Sparsity support	✓	Keyboard	
Windows Studio effects support	✓	Pointing device	NumberPad
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Numeric keypad *	✗
Total processor performance up to	36 TOPs	Keyboard backlit	✓
NPU performance up to	13 TOPs	Keyboard backlit colour	RGB
GPU performance up to	8 TOPs	Keyboard backlit zone	Per-key RGB
Memory		Software	
Internal memory *	32 GB	Operating system architecture	64-bit
Internal memory type	DDR5-SDRAM	Operating system installed *	Windows 11 Pro
Memory clock speed	5600 MHz	Battery	
Memory form factor	SO-DIMM	Battery technology	Lithium-Ion (Li-Ion)
Memory layout (slots x size)	2 x 16 GB	Number of battery cells	4
Memory slots	2x SO-DIMM	Battery capacity *	90 Wh
Maximum internal memory *	64 GB	Fast charging	✓
Memory channels	Dual-channel	Fast charging time (50%)	30 min
Storage		Power	
Total storage capacity *	2 TB	AC adapter power	380 W
Storage media *	SSD	AC adapter frequency	50 - 60 Hz
Total SSDs capacity	2 TB	AC adapter input voltage	100 - 240 V
Number of SSDs installed	1	AC adapter output current	19 A
SSD capacity	2 TB	AC adapter output voltage	20 V
SSD interface	PCI Express 4.0	DC-in jack	✓
NVMe	✓	USB Type-C charging port *	✓
SSD form factor	M.2	USB Power Delivery (USB PD)	✓
Optical drive type *	✗	Security	
Card reader integrated	✗	Face recognition	✓
Graphics		Windows Hello	✓
Discrete GPU manufacturer	NVIDIA	Trusted Platform Module (TPM)	✓
Discrete graphics card model *	NVIDIA GeForce RTX 5080	Password protection	✓
Discrete graphics card memory	16 GB	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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