

ASUS ROG Strix G16 G615LW-S5008W Intel Core Ultra 9 275HX Laptop 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, Grey

Brand : ASUS

Product family: ROG

Product code: 90NR0LG1-M002U0

Product name : G615LW-S5008W

Intel Core Ultra 9 275HX (36MB Cache), 32GB DDR5-SDRAM, 2000GB SSD, 40.6 cm (16") WQXGA 2560 x 1600 IPS-Level, Intel Graphics, NVIDIA GeForce RTX 5080 (16GB GDDR7), LAN, WLAN, Webcam, Windows 11 Home 64-bit

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Victory, accelerated.

The Strix G16 features an Intel® Core™ Ultra 9 processor 275HX boasting up to a 65W TDP with 8 Performance-cores and 16 Efficient-cores, paired with an NVIDIA® GeForce RTX™ 5080 Laptop GPU (1334 AI TOPS) with a max TGP of 175W, ensuring flawless AAA gaming experiences while making resource-intensive tasks like programming and rendering effortless and seamless.



Design		Graphics	
Colour name	Eclipse Gray	On-board GPU manufacturer	Intel
Product type *	Laptop	Discrete graphics card *	✓
Product colour *	Black, Grey	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	2
Display resolution *	2560 x 1600 pixels	Built-in microphone	✓
Touchscreen *	✗	Camera	
HD type	WQXGA	Front camera	✓
Panel type	IPS-Level	Front camera HD type	Full HD
Native aspect ratio	16:10	Infrared (IR) camera	✓
Anti-glare screen	✓	Network	
Display brightness	500 cd/m²	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
RGB colour space	DCI-P3	Wi-Fi standards	Wi-Fi 7 (802.11be)
Colour gamut	100%	Mobile network connection *	✗
Display response rise/fall	3 ms	Antenna type	2x2
Maximum refresh rate	240 Hz	Ethernet LAN	✓
Contrast ratio (typical)	1200:1	Ethernet LAN data rates	10,100,1000,2500 Mbit/s
High Dynamic Range (HDR) supported	✓	Bluetooth	✓
High Dynamic Range (HDR) technology	Dolby Vision	Bluetooth version	5.4
Processor		Ports & interfaces	
Processor manufacturer *	Intel	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	3
Processor family *	Intel Core Ultra 9	Ethernet LAN (RJ-45) ports	1
Processor generation	Intel Core Ultra (Series 2)		

Processor		Ports & interfaces	
Processor model *	275HX	HDMI ports quantity *	1
Processor cores	24	HDMI version	2.1
Processor threads	24	Thunderbolt 5 ports quantity	2
Processor boost frequency	5.4 GHz	Intel® Thunderbolt 5	✓
Performance cores	8	Combo headphone/mic port	✓
Efficient cores	16	USB Type-C DisplayPort Alternate Mode	✓
Performance-core Max Turbo Frequency	5.4 GHz	Performance	
Efficient-core Max Turbo Frequency	4.6 GHz	Motherboard chipset	Intel HM870 Express
Performance-core base frequency	2.7 GHz	Keyboard	
Efficient-core base frequency	2.1 GHz	Pointing device	Touchpad
Processor cache	36 MB	Numeric keypad *	✗
Processor base power	55 W	Keyboard backlit	✓
Maximum turbo power	160 W	Keyboard backlit colour	RGB
Neural processor unit (NPU)		Keyboard backlit zone	Per-key RGB
Neural processor unit (NPU)	Intel AI Boost	Copilot key	✓
Sparsity support	✓	Software	
Windows Studio effects support	✓	Operating system architecture	64-bit
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Trial software	1-month trial for new Microsoft 365 customers. Credit card required, McAfee 30 days
Total processor performance up to	36 TOPs	Operating system installed *	Windows 11 Home
NPU performance up to	13 TOPs	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.)	
GPU performance up to	8 TOPs		
Memory		Bundled software	
Internal memory *	32 GB	Microsoft Copilot	✓
Internal memory type	DDR5-SDRAM	Battery	
Memory clock speed	5600 MHz	Battery technology	Lithium-Ion (Li-Ion)
Memory form factor	SO-DIMM	Number of battery cells	4
Memory layout (slots x size)	2 x 16 GB	Battery capacity *	90 Wh
Memory slots	2x SO-DIMM	Fast charging	✓
Maximum internal memory *	64 GB	Fast charging time (50%)	30 min
Memory channels	Dual-channel	Power	
Storage		AC adapter power	380 W
Total storage capacity *	2 TB	AC adapter frequency	50 - 60 Hz
Storage media *	SSD	AC adapter input voltage	100 - 240 V
Total SSDs capacity	2 TB	AC adapter output current	19 A
SSD interface	PCI Express 4.0	AC adapter output voltage	20 V
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
Discrete graphics memory type	GDDR7	Weight & dimensions	
On-board graphics card *	✓	Width	354 mm
		Depth	268 mm
		Height (front)	2.28 cm
		Height (rear)	3.08 cm
		Weight *	2.73 kg

Packaging content

AC adapter included *





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