

ASUS ROG Strix G18 G815LR-TT281W Intel Core Ultra 9 290HX Plus Laptop 45.7 cm (18") 2.5K 32 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 5070 Ti Wi-Fi 7 (802.11be) Windows 11 Home Grey



Brand : ASUS

Product family: ROG

Product code: 90NR0LT1-M00D00

Product name : G815LR-TT281W

- Windows 11 Home 64-bit
 - Intel Core Ultra 9 290HX Plus (36MB Cache)
 - 18" 2.5K 2560 x 1600 IPS-Level, NVIDIA GeForce RTX 5070 Ti (12GB GDDR7)
 - 32GB (5600MHz) DDR5-SDRAM (2 x 16) & 1000GB SSD
 Intel Core Ultra 9 290HX Plus (36MB Cache), 32GB DDR5-SDRAM, 1000GB SSD, 18" 2.5K 2560 x 1600 IPS-Level, Intel Graphics, NVIDIA GeForce RTX 5070 Ti (12GB GDDR7), LAN, WLAN, Webcam, Windows 11 Home 64-bit

ASUS ROG Strix G18 G815LR-TT281W Intel Core Ultra 9 290HX Plus Laptop 45.7 cm (18") 2.5K 32 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 5070 Ti Wi-Fi 7 (802.11be) Windows 11 Home Grey:

Victory, accelerated.

Game with confidence thanks to Windows 11 Pro and up to Intel® Core™ Ultra 9 processor 275HX. Backed up by the serious gaming muscle of up to NVIDIA® GeForce RTX™ 5080 Laptop GPU and up to 32GB of DDR5-5600 RAM, the 2025 Strix G18 has the perfect amount of power to keep you gaming at peak performance. With additional features like NVIDIA® Advanced Optimus, the latest DLSS enhancements, a 2TB PCIe Gen 4 SSD, the Strix G18 is truly a force to be reckoned with.

Design		Graphics	
Colour name	Eclipse Gray	On-board graphics card family	Intel® Graphics
Product type *	Laptop	On-board graphics card model *	Intel® Graphics
Product colour *	Grey	Audio	
Form factor *	Clamshell	Audio system	Dolby Atmos
Market positioning	Gaming	Number of built-in speakers	2
Introduction year	2025	Built-in microphone	✓
Country of origin	China	Camera	
Display		Front camera	✓
Display diagonal *	45.7 cm (18")	Front camera resolution	1920 x 1080 pixels
Display resolution *	2560 x 1600 pixels	Front camera HD type	Full HD
Touchscreen *	✗	Infrared (IR) camera	✓
HD type	2.5K	Network	
Panel type	IPS-Level	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Native aspect ratio	16:10	Wi-Fi standards	Wi-Fi 7 (802.11be)
Anti-glare screen	✓	Mobile network connection *	✗
Display brightness	500 cd/m²	Antenna type	2x2
RGB colour space	DCI-P3	Ethernet LAN	✓
Colour gamut	100%	Ethernet LAN data rates	10,100,1000,2500 Mbit/s
Maximum refresh rate	300 Hz	Bluetooth	✓
Contrast ratio (typical)	1700:1	Bluetooth version	5.4
High Dynamic Range (HDR) supported	✓	Ports & interfaces	
High Dynamic Range (HDR) technology	Dolby Vision	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	3
Processor		Ethernet LAN (RJ-45) ports	1
Processor manufacturer *	Intel	HDMI ports quantity *	1
Processor family *	Intel Core Ultra 9	HDMI version	2.1
Processor generation	Intel Core Ultra (Series 2)	Thunderbolt 5 ports quantity	2
Processor model *	290HX Plus	Intel® Thunderbolt 5	✓
Processor cores	24		

Processor		Ports & interfaces	
Processor threads	24	Combo headphone/mic port	✓
Processor boost frequency	5.5 GHz	Keyboard	
Performance cores	8	Pointing device	Touchpad
Efficient cores	16	Numeric keypad *	✓
Performance-core Max Turbo Frequency	5.5 GHz	Keyboard backlit	✓
Efficient-core Max Turbo Frequency	4.7 GHz	Keyboard backlit colour	RGB
Performance-core base frequency	2.7 GHz	Keyboard backlit zone	Per-key RGB
Efficient-core base frequency	1.8 GHz	Copilot key	✓
Processor cache	36 MB	Software	
Processor base power	55 W	Operating system architecture	64-bit
Maximum turbo power	160 W	Microsoft Copilot	✓
Neural processor unit (NPU)		Trial software	1-month trial for new Microsoft 365 customers
Neural processor unit (NPU)	Intel AI Boost	Operating system installed *	Windows 11 Home
Sparsity support	✓	Bundled software	
Windows Studio effects support	✓		
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN		
Total processor performance up to	36 TOPs	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.)	
NPU performance up to	13 TOPs		
GPU performance up to	8 TOPs		
Memory		Battery	
Internal memory *	32 GB	Battery technology	Lithium-Ion (Li-Ion)
Internal memory type	DDR5-SDRAM	Number of battery cells	4
Memory clock speed	5600 MHz	Battery capacity *	90 Wh
Memory form factor	SO-DIMM	Fast charging	✓
Memory layout (slots x size)	2 x 16 GB	Fast charging time (50%)	30 min
Memory slots	2x SO-DIMM	Power	
Maximum internal memory *	64 GB	AC adapter power	280 W
Memory channels	Dual-channel	AC adapter frequency	50 - 60 Hz
Storage		AC adapter input voltage	100 - 240 V
Total storage capacity *	1 TB	AC adapter output current	14 A
Storage media *	SSD	AC adapter output voltage	20 V
Total SSDs capacity	1 TB	USB Type-C charging port *	✓
Number of SSDs installed	1	USB Power Delivery (USB PD)	✓
SSD capacity	1 TB	Security	
SSD interface	PCI Express 4.0	Face recognition	✓
NVMe	✓	Windows Hello	✓
SSD form factor	M.2	Trusted Platform Module (TPM)	✓
Optical drive type *	✗	Password protection	✓
Graphics		Password protection type	BIOS, User
Discrete GPU manufacturer	NVIDIA	Weight & dimensions	
Discrete graphics card model *	NVIDIA GeForce RTX 5070 Ti	Width	399 mm
Discrete graphics card memory	12 GB	Depth	298 mm
Discrete graphics memory type	GDDR7	Height (front)	2.35 cm
On-board graphics card *	✓	Height (rear)	3.2 cm
On-board GPU manufacturer	Intel	Weight *	3.2 kg
Discrete graphics card *	✓	Packaging data	
		Package width	106 mm
		Package depth	490 mm
		Package height	355 mm
		Package weight	6.81 kg
		Packaging content	
		AC adapter included *	✓

Logistics data

Commodity Classification Automated Tracking System (CCATS)	8471300000
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Catalog Object Cloud



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