Part No	90NR0LR1-M001W0	90NR0LC1-M001X0
Sales Model Name	G615LR-S5006W	G815LW-S9005W
EAN Code	4711387866948	4711387866955
UPC Code	197105866942	197105866959
WEEE		4.344
BASE UNIT	VSNR0LR1-BU2101	VSNR0LC1-BU2110
Marketing Name	ROG Strix G16	ROG Strix G18
Operating System	Windows 11 Home	Windows 11 Home
Office	1-month trial for new Microsoft 365 customers. Credit card required.	1-month trial for new Microsoft 365 customers. Credit card required.
Color	Eclipse Gray	Eclipse Gray
Dimension (W x D x H)	35.4 x 26.8 x 2.28 ~ 3.08 cm (13.94" x 10.55" x 0.90" ~ 1.21")	39.9 x 29.8 x 2.35 ~ 3.20 cm (15.71" x 11.73" x 0.93" ~ 1.26")
Weight	2.73 Kg (6.02 lbs)	3.42 Kg (7.54 lbs)
Processor	Intel® Core™ Ultra 9 Processor 275HX 2.7 GHz (36MB Cache, up to 5.4 GHz, 24 cores, 24 Threads) Intel® AI Boost NPU up to 13TOPS	Intel® Core™ Ultra 9 Processor 275HX 2.7 GHz (36MB Cache, up to 5.4 GHz, 24 cores, 24 Threads) Intel® AI Boost NPU up to 13TOPS
Chipset	Mobile Intel® HM870 Express Chipsets	Mobile Intel® HM870 Express Chipsets
Intergrated GPU	Intel® UHD Graphics	N/A
Discrete/Optimus	MUX Switch + NVIDIA® Advanced Optimus	MUX Switch + NVIDIA® Advanced Optimus
Graphic	NVIDIA® GeForce RTX™ 5070 Ti Laptop GPU	NVIDIA® GeForce RTX™ 5080 Laptop GPU
Graphic Memory	12GB GDDR7	16GB GDDR7
Neural Processor	Intel® AI Boost NPU up to 13TOPS	Intel® AI Boost NPU up to 13TOPS
Panel Size	16-inch	18-inch
Resolution	2.5K (2560 x 1600, WQXGA) 16:10 aspect ratio	2.5K (2560 x 1600, WQXGA) 16:10 aspect ratio
Response Time (G2G)	3ms	3ms
Refresh Rate	240Hz	240Hz
Viewing Angle	170	170
Panel Tech	IPS-level	IPS-level
Contrast Ratio	1200:1	1000:1
Brightness	500nits	500

DCI-P3 %	100%	100%
Glare	Anti-glare display	Anti-glare display
Adaptive-Sync technology	G-Sync	G-Sync
Pantone	Pantone Validated	Pantone Validated
Nebula Display	ROG Nebula Display	ROG Nebula Display
Support Dolby Vision HDR	Yes	Yes
Thermal Feature	ROG intelligent cooling	ROG intelligent cooling
On board memory	N/A	N/A
DIMM Memory	16GB DDR5-5600 SO-DIMM *2	16GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC *2
Total System Memory	DDR5 32GB	DDR5 32GB
Memory Slot	2x SO-DIMM slots	2x SO-DIMM slots
Memory Max.	64GB	64GB
Multi-channel memory technology	Support dual channel memory	Support dual channel memory
Storage	1TB PCIe® 4.0 NVMe™ M.2 SSD	2TB PCIe® 4.0 NVMe™ M.2 SSD
M.2 slots support either SATA or NVMe	2	2
M.2 SSD Support List	512G/ 1TB /2TB G4x4 PCIe SSD	512G/ 1TB /2TB G4x4 PCIe SSD
Expansion Slot (includes used)	2x DDR5 SO-DIMM slots 2x M.2 PCIe	2x DDR5 SO-DIMM slots
LAN	10/100/1000/2500 Mbps	10/100/1000 Mbps
Wireless	Wi-Fi 7(802.11be) (Triple band) 2*2+Bluetooth® 5.4 Wireless Card (*Bluetooth® version may change with OS version different.)	Wi-Fi 7(802.11be) (Triple band) 2*2+Bluetooth® 5.4 Wireless Card (*Bluetooth® version may change with OS version different.)
I/O Ports	1x 2.5G LAN port 2x Thunderbolt™ 5 with support for DisplayPort™ / power delivery / G-SYNC (data speed up to 120Gbps) 3x USB 3.2 Gen 2 Type-A (data speed up to 10Gbps)	1x 2.5G LAN port 2x Thunderbolt™ 5 with support for DisplayPort™ / power delivery / G-SYNC (data speed up to 120Gbps) 3x USB 3.2 Gen 2 Type-A (data speed up to 10Gbps)
Display output	1x HDMI 2.1 FRL	1x HDMI 2.1 FRL
Camera	1080P FHD IR Camera for Windows Hello	1080P FHD IR Camera for Windows Hello
Mic	Built-in array microphone	Built-in array microphone

Keyboard Type	Backlit Chiclet Keyboard Per-Key RGB With Copilot key *Copilot in Windows (in preview) is rolling out gradually within the latest update to Windows 11 in select global markets. Timing of availability varies by device and market. Learn more: https://www.microsoft.com/en-us/windows/copilot-ai-features?r=1#faq	Backlit Chiclet Keyboard Per-Key RGB With Copilot key *Copilot in Windows (in preview) is rolling out gradually within the latest update to Windows 11 in select global markets. Timing of availability varies by device and market. Learn more: https://www.microsoft.com/en-us/windows/copilot-ai-features?r=1#faq
Aura Sync	Yes	Yes
Touchpad	Touchpad N/A	Touchpad N/A
Speakers	2-speaker system with Smart Amplifier Technology	2-speaker system with Smart Amplifier Technology
Audio Tech	AI noise-canceling technology Dolby Atmos Hi-Res certification (for headphone) Smart Amp Technology	AI noise-canceling technology Dolby Atmos Hi-Res certification (for headphone) Smart Amp Technology
Audio	1x 3.5mm Combo Audio Jack Built-in array microphone	1x 3.5mm Combo Audio Jack Built-in array microphone
Security	BIOS Administrator Password and User Password Protection Trusted Platform Module (Firmware TPM)	BIOS Administrator Password and User Password Protection Trusted Platform Module (Firmware TPM)
Antivirus	McAfee® 30 days free trial	McAfee® 30 days free trial
Battery	90WHrs, 4S1P, 4-cell Li-ion	90WHrs, 4S1P, 4-cell Li-ion
Fast charging	Recharge from 0-50% in 30 minutes	Recharge from 0-50% in 30 minutes
Power	Rectangle Conn, 280W AC Adapter, Output: 20V DC, 14A, 280W, Input: 100-240V AC, 50/60Hz universal	Rectangle Conn, 380W AC Adapter, Output: 20V DC, 19A, 380W, Input: 100-240V AC, 50/60Hz universal
Xbox Game Pass	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.)	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.)
Ecolabels & Compliances	N/A	N/A
Reparability Index (for France)	?.?	