**/ISUS**

# 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

| | |
|---|---|
| Colour name | Off Black |
| Product type * | Laptop |
| Product colour * | Black |
| Form factor * | Clamshell |
| Market positioning | Gaming |
| Introduction year | 2025 |

## Display

| | |
|---|---|
| Display diagonal * | 40.6 cm (16") |
| Display resolution * | 2560 x 1600 pixels |
| Touchscreen * | ✗ |
| HD type | 2.5K |
| Native aspect ratio | 16:10 |
| Anti-glare screen | ✔ |
| RGB colour space | DCI-P3 |
| Colour gamut | 100% |
| Display response rise/fall | 3 ms |
| High Dynamic Range (HDR) supported | ✔ |
| High Dynamic Range (HDR) technology | Dolby Vision |

## Processor

| | |
|---|---|
| Processor manufacturer * | Intel |
| Processor family * | Intel Core Ultra 9 |
| Processor generation | Intel Core Ultra (Series 2) |
| Processor model * | 275HX |
| Processor cores | 24 |
| Processor threads | 24 |
| Processor boost frequency | 5.4 GHz |

## Graphics

| | |
|---|---|
| Discrete graphics memory type | GDDR7 |
| On-board graphics card * | ✔ |
| On-board GPU manufacturer | Intel |
| Discrete graphics card * | ✔ |
| On-board graphics card family | Intel Graphics |
| On-board graphics card model * | Intel Graphics |
| NVIDIA G-SYNC | ✔ |

## Audio

| | |
|---|---|
| Audio system | Smart Amp |
| Number of built-in speakers | 4 |
| Built-in microphone | ✔ |

## Camera

| | |
|---|---|
| Front camera | ✔ |
| Front camera resolution | 1920 x 1080 pixels |
| Front camera HD type | Full HD |
| Infrared (IR) camera | ✔ |

## Network

| | |
|---|---|
| Top Wi-Fi standard * | Wi-Fi 7 (802.11be) |
| Wi-Fi standards | Wi-Fi 7 (802.11be) |
| Mobile network connection * | ✗ |
| Antenna type | 2x2 |
| Ethernet LAN | ✔ |
| Ethernet LAN data rates | 10,100,1000,2500 Mbit/s |
| Bluetooth | ✔ |
| Bluetooth version | 5.4 |

## Processor

| | |
|---|---|
| Performance cores | 8 |
| Efficient cores | 16 |
| Performance-core Max Turbo Frequency | 5.4 GHz |
| Efficient-core Max Turbo Frequency | 4.6 GHz |
| Performance-core base frequency | 2.7 GHz |
| 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)

| | |
|---|---|
| Neural processor unit (NPU) | Intel AI Boost |
| Sparsity support | ✔ |
| Windows Studio effects support | ✔ |
| AI software frameworks supported by NPU | DirectML, OpenVINO, Windows ML, ONNX RT, WebNN |
| Total processor performance up to | 36 TOPs |
| NPU performance up to | 13 TOPs |
| GPU performance up to | 8 TOPs |

## Memory

| | |
|---|---|
| Internal memory * | 32 GB |
| Internal memory type | DDR5-SDRAM |
| Memory clock speed | 5600 MHz |
| Memory form factor | SO-DIMM |
| Memory layout (slots x size) | 2 x 16 GB |
| Memory slots | 2x SO-DIMM |
| Maximum internal memory * | 64 GB |
| Memory channels | Dual-channel |

## Storage

| | |
|---|---|
| Total storage capacity * | 2 TB |
| Storage media * | SSD |
| Total SSDs capacity | 2 TB |
| Number of SSDs installed | 1 |
| SSD capacity | 2 TB |
| SSD interface | PCI Express 4.0 |
| NVMe | ✔ |
| SSD form factor | M.2 |
| Optical drive type * | ✘ |
| Card reader integrated | ✘ |

## Graphics

| | |
|---|---|
| Discrete GPU manufacturer | NVIDIA |
| Discrete graphics card model * | NVIDIA GeForce RTX 5080 |
| Discrete graphics card memory | 16 GB |

## Ports & interfaces

| | |
|---|---|
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity | 3 |
| Ethernet LAN (RJ-45) ports | 1 |
| HDMI ports quantity * | 1 |
| HDMI version | 2.1 |
| Thunderbolt 5 ports quantity | 2 |
| Intel® Thunderbolt 5 | ✔ |
| Combo headphone/mic port | ✔ |
| USB Type-C DisplayPort Alternate Mode | ✔ |

## Performance

| | |
|---|---|
| Motherboard chipset | Intel HM870 Express |

## Keyboard

| | |
|---|---|
| Pointing device | NumberPad |
| Numeric keypad * | ✘ |
| Keyboard backlit | ✔ |
| Keyboard backlit colour | RGB |
| Keyboard backlit zone | Per-key RGB |

## Software

| | |
|---|---|
| Operating system architecture | 64-bit |
| Operating system installed * | Windows 11 Pro |

## Battery

| | |
|---|---|
| Battery technology | Lithium-Ion (Li-Ion) |
| Number of battery cells | 4 |
| Battery capacity * | 90 Wh |
| Fast charging | ✔ |
| Fast charging time (50%) | 30 min |

## Power

| | |
|---|---|
| AC adapter power | 380 W |
| AC adapter frequency | 50 - 60 Hz |
| AC adapter input voltage | 100 - 240 V |
| AC adapter output current | 19 A |
| AC adapter output voltage | 20 V |
| DC-in jack | ✔ |
| 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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