

# ASUS ROG Strix G18 G815LW-SA265W Intel Core Ultra 9 290HX Plus Laptop 45.7 cm (18") 2.5K 32 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 5080 Wi-Fi 7 (802.11be) Windows 11 Home Grey



**Brand :** ASUS

**Product family:** ROG

**Product code:** 90NR0LC1-M00C90

**Product name :** G815LW-SA265W

- Windows 11 Home 64-bit  
 - Intel Core Ultra 9 290HX Plus (36MB Cache)  
 - 18" 2.5K 2560 x 1600 Mini LED, NVIDIA GeForce RTX 5080 (16GB GDDR7)  
 - 32GB (5600MHz) DDR5-SDRAM (2 x 16) & 2000GB SSD  
 Intel Core Ultra 9 290HX Plus (36MB Cache), 32GB DDR5-SDRAM, 2000GB SSD, 18" 2.5K 2560 x 1600 Mini LED, Intel Graphics, NVIDIA GeForce RTX 5080 (16GB GDDR7), LAN, WLAN, Webcam, Windows 11 Home 64-bit

ASUS ROG Strix G18 G815LW-SA265W Intel Core Ultra 9 290HX Plus Laptop 45.7 cm (18") 2.5K 32 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 5080 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                | Discrete graphics card *                        | ✓                       |
| Product type *                      | Laptop                      | On-board graphics card family                   | Intel® Graphics         |
| Product colour *                    | Grey                        | On-board graphics card model *                  | Intel® Graphics         |
| Form factor *                       | Clamshell                   | NVIDIA G-SYNC                                   | ✓                       |
| Market positioning                  | Gaming                      | <b>Audio</b>                                    |                         |
| Introduction year                   | 2025                        | Audio system                                    | Dolby Atmos             |
| Country of origin                   | China                       | Number of built-in speakers                     | 2                       |
| Display                             |                             | Built-in microphone                             | ✓                       |
| Display diagonal *                  | 45.7 cm (18")               | <b>Camera</b>                                   |                         |
| Display resolution *                | 2560 x 1600 pixels          | Front camera                                    | ✓                       |
| Touchscreen *                       | ✗                           | Front camera resolution                         | 1920 x 1080 pixels      |
| HD type                             | 2.5K                        | Front camera HD type                            | Full HD                 |
| Panel type                          | Mini LED                    | Infrared (IR) camera                            | ✓                       |
| Native aspect ratio                 | 16:10                       | <b>Network</b>                                  |                         |
| Anti-glare screen                   | ✓                           | Top Wi-Fi standard *                            | Wi-Fi 7 (802.11be)      |
| Display brightness                  | 1200 cd/m²                  | Wi-Fi standards                                 | Wi-Fi 7 (802.11be)      |
| RGB colour space                    | DCI-P3                      | Mobile network connection *                     | ✗                       |
| Colour gamut                        | 100%                        | Antenna type                                    | 2x2                     |
| Maximum refresh rate                | 240 Hz                      | Ethernet LAN                                    | ✓                       |
| Contrast ratio (typical)            | 100000:1                    | 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) | HDMI ports quantity *                           | 1                       |
| Processor model *                   | 290HX Plus                  |                                                 |                         |
| Processor cores                     | 24                          |                                                 |                         |

| Processor                               |                                                | Ports & interfaces            |                                                                                                                                                                                                                                     |                      |
|-----------------------------------------|------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Processor threads                       | 24                                             | HDMI version                  | 2.1                                                                                                                                                                                                                                 |                      |
| Processor boost frequency               | 5.5 GHz                                        | Thunderbolt 5 ports quantity  | 2                                                                                                                                                                                                                                   |                      |
| Performance cores                       | 8                                              | Intel® Thunderbolt 5          | ✓                                                                                                                                                                                                                                   |                      |
| Efficient cores                         | 16                                             | Combo headphone/mic port      | ✓                                                                                                                                                                                                                                   |                      |
| Performance-core Max Turbo Frequency    | 5.5 GHz                                        | Keyboard                      |                                                                                                                                                                                                                                     |                      |
| Efficient-core Max Turbo Frequency      | 4.7 GHz                                        | Pointing device               | Touchpad                                                                                                                                                                                                                            |                      |
| Performance-core base frequency         | 2.7 GHz                                        | Numeric keypad *              | ✓                                                                                                                                                                                                                                   |                      |
| Efficient-core base frequency           | 1.8 GHz                                        | Keyboard backlit              | ✓                                                                                                                                                                                                                                   |                      |
| Processor cache                         | 36 MB                                          | Keyboard backlit colour       | RGB                                                                                                                                                                                                                                 |                      |
| Processor base power                    | 55 W                                           | Keyboard backlit zone         | Per-key RGB                                                                                                                                                                                                                         |                      |
| Maximum turbo power                     | 160 W                                          | Copilot key                   | ✓                                                                                                                                                                                                                                   |                      |
| Neural processor unit (NPU)             |                                                | Software                      |                                                                                                                                                                                                                                     |                      |
| Neural processor unit (NPU)             | Intel AI Boost                                 | Operating system architecture | 64-bit                                                                                                                                                                                                                              |                      |
| Sparsity support                        | ✓                                              | Trial software                | 1-month trial for new Microsoft 365 customers; McAfee 30 days free trial                                                                                                                                                            |                      |
| Windows Studio effects support          | ✓                                              | Operating system installed *  | Windows 11 Home                                                                                                                                                                                                                     |                      |
| AI software frameworks supported by NPU | DirectML, OpenVINO, Windows ML, ONNX RT, WebNN | Bundled software              | 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.) |                      |
| Total processor performance up to       | 36 TOPs                                        |                               |                                                                                                                                                                                                                                     |                      |
| 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                                        | Power                         |                                                                                                                                                                                                                                     |                      |
| Memory layout (slots x size)            | 2 x 16 GB                                      | AC adapter power              | 380 W                                                                                                                                                                                                                               |                      |
| Memory slots                            | 2x SO-DIMM                                     | AC adapter frequency          | 50 - 60 Hz                                                                                                                                                                                                                          |                      |
| Maximum internal memory *               | 64 GB                                          | AC adapter input voltage      | 100 - 240 V                                                                                                                                                                                                                         |                      |
| Memory channels                         | Dual-channel                                   | AC adapter output current     | 19 A                                                                                                                                                                                                                                |                      |
| Storage                                 |                                                | AC adapter output voltage     | 20 V                                                                                                                                                                                                                                |                      |
| Total storage capacity *                | 2 TB                                           | USB Type-C charging port *    | ✓                                                                                                                                                                                                                                   |                      |
| Storage media *                         | SSD                                            | USB Power Delivery (USB PD)   | ✓                                                                                                                                                                                                                                   |                      |
| Total SSDs capacity                     | 2 TB                                           | Security                      |                                                                                                                                                                                                                                     |                      |
| Number of SSDs installed                | 1                                              | Face recognition              | ✓                                                                                                                                                                                                                                   |                      |
| SSD capacity                            | 2 TB                                           | Windows Hello                 | ✓                                                                                                                                                                                                                                   |                      |
| SSD interface                           | PCI Express 4.0                                | Trusted Platform Module (TPM) | ✓                                                                                                                                                                                                                                   |                      |
| NVMe                                    | ✓                                              | Password protection           | ✓                                                                                                                                                                                                                                   |                      |
| SSD form factor                         | M.2                                            | Password protection type      | BIOS, User                                                                                                                                                                                                                          |                      |
| Optical drive type *                    | ✗                                              | Weight & dimensions           |                                                                                                                                                                                                                                     |                      |
| Graphics                                |                                                | Width                         | 399 mm                                                                                                                                                                                                                              |                      |
| Discrete GPU manufacturer               | NVIDIA                                         | Depth                         | 298 mm                                                                                                                                                                                                                              |                      |
| Discrete graphics card model *          | NVIDIA GeForce RTX 5080                        | Height (front)                | 2.35 cm                                                                                                                                                                                                                             |                      |
| Discrete graphics card memory           | 16 GB                                          | Height (rear)                 | 3.2 cm                                                                                                                                                                                                                              |                      |
| Discrete graphics memory type           | GDDR7                                          | Weight *                      | 3.2 kg                                                                                                                                                                                                                              |                      |
| On-board graphics card *                | ✓                                              | Packaging data                |                                                                                                                                                                                                                                     |                      |
| On-board GPU manufacturer               | Intel                                          | 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<br>Automated Tracking System<br>(CCATS) | 8471300000 |
|------------------------------------------------------------------|------------|



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### Catalog Object Cloud



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