**ASUS**

# ASUS ROG Strix G16 G614JU-N3147W Intel® Core™ i5 i5-13450HX Laptop 40.6 cm (16") WUXGA 16 GB DDR5-SDRAM 512 GB SSD NVIDIA GeForce RTX 4050 Wi-Fi 6E (802.11ax) Windows 11 Home Grey

**Brand :** ASUS

**Product family:** ROG

**Product code:** 90NR0CC1-M00790

**Product name :** G614JU-N3147W

- Windows 11 Home 64-bit
- Intel Core i5-13450HX (20MB Cache)
- 40.6 cm (16") WUXGA 1920 x 1200 IPS, NVIDIA GeForce RTX 4050 (6GB GDDR6)
- 16GB (4800MHz) DDR5-SDRAM & 512GB SSD

Intel Core i5-13450HX (20MB Cache), 16GB DDR5-SDRAM, 512GB SSD, 40.6 cm (16") WUXGA 1920 x 1200 IPS, Intel UHD Graphics, NVIDIA GeForce RTX 4050 (6GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home 64-bit
ASUS ROG Strix G16 G614JU-N3147W. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-13450HX. Display diagonal: 40.6 cm (16"), HD type: WUXGA, Display resolution: 1920 x 1200 pixels. Internal memory: 16 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics, Discrete graphics card model: NVIDIA GeForce RTX 4050. Operating system installed: Windows 11 Home. Product colour: Grey

## Design

| | |
|---|---|
| Colour name | Eclipse Grey |
| Product type * | Laptop |
| Product colour * | Grey |
| Form factor * | Clamshell |
| Market positioning | Gaming |
| Introduction year | 2023 |

## Display

| | |
|---|---|
| Display diagonal * | 40.6 cm (16") |
| Display resolution * | 1920 x 1200 pixels |
| Touchscreen * | ✘ |
| HD type | WUXGA |
| Panel type | IPS |
| LED backlight | ✔ |
| Native aspect ratio | 16:10 |
| Anti-glare screen | ✔ |
| RGB colour space | sRGB |
| Colour gamut | 100% |
| Maximum refresh rate | 165 Hz |

## Processor

| | |
|---|---|
| Processor manufacturer * | Intel |
| Processor family * | Intel® Core™ i5 |
| Processor generation | 13th gen Intel® Core™ i5 |
| Processor model * | i5-13450HX |
| Processor cores | 10 |
| Performance cores | 6 |
| Efficient cores | 4 |
| Performance-core Max Turbo Frequency | 4.6 GHz |

## Audio

| | |
|---|---|
| Built-in microphone | ✔ |

## Camera

| | |
|---|---|
| Front camera | ✔ |
| Front camera HD type | HD |

## Network

| | |
|---|---|
| Top Wi-Fi standard * | Wi-Fi 6E (802.11ax) |
| Wi-Fi standards | Wi-Fi 6E (802.11ax) |
| Mobile network connection * | ✘ |
| Antenna type | 2x2 |
| Ethernet LAN | ✔ |
| Ethernet LAN data rates | 10,100,1000,2500 Mbit/s |
| Bluetooth | ✔ |
| Bluetooth version | 5.3 |

## Ports & interfaces

| | |
|---|---|
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity | 2 |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity | 1 |
| Ethernet LAN (RJ-45) ports | 1 |
| HDMI ports quantity * | 1 |
| HDMI version | 2.1 |
| Thunderbolt 4 ports quantity | 1 |
| Intel® Thunderbolt 4 | ✔ |
| Combo headphone/mic port | ✔ |
| Power adapter barrel connector | 6.0 mm |
| USB Type-C DisplayPort Alternate Mode | ✔ |
| USB Power Delivery | ✔ |

## Processor

| | |
|---|---|
| Efficient-core Max Turbo Frequency | 3.4 GHz |
| Performance-core boost frequency | 4.6 GHz |
| Processor cache | 20 MB |
| Processor cache type | Smart Cache |
| Bus type | DMI4 |
| Configurable TDP-down | 45 W |
| Processor base power | 55 W |
| Maximum turbo power | 157 W |

## Memory

| | |
|---|---|
| Internal memory * | 16 GB |
| Internal memory type | DDR5-SDRAM |
| Memory clock speed | 4800 MHz |
| Memory form factor | SO-DIMM |
| Memory slots | 2x SO-DIMM |
| Maximum internal memory * | 32 GB |

## Storage

| | |
|---|---|
| Total storage capacity * | 512 GB |
| Storage media * | SSD |
| Total SSDs capacity | 512 GB |
| Number of SSDs installed | 1 |
| SSD capacity | 512 GB |
| SSD interface | PCI Express 4.0 |
| NVMe | ✓ |
| SSD form factor | M.2 |
| Optical drive type * | ✗ |

## Graphics

| | |
|---|---|
| Discrete GPU manufacturer | NVIDIA |
| Discrete graphics card model * | NVIDIA GeForce RTX 4050 |
| Discrete graphics card memory | 6 GB |
| Discrete graphics memory type | GDDR6 |
| On-board graphics card * | ✓ |
| On-board GPU manufacturer | Intel |
| Discrete graphics card * | ✓ |
| On-board graphics card model * | Intel® UHD Graphics |
| NVIDIA G-SYNC | ✓ |

## Audio

| | |
|---|---|
| Audio system | Dolby Atmos |
| Number of built-in speakers | 2 |

## Keyboard

| | |
|---|---|
| Pointing device | Touchpad |
| Numeric keypad * | ✗ |
| Keyboard backlit | ✓ |
| Keyboard backlit colour | RGB |
| Keyboard backlit zone | 4-zone RGB |

## Software

| | |
|---|---|
| Operating system architecture | 64-bit |
| Trial software | 1-month trial for new Microsoft 365 customers |
| Operating system installed * | Windows 11 Home |

## Processor special features

| | |
|---|---|
| Intel Flex Memory Access | ✓ |
| Intel VT-x with Extended Page Tables (EPT) | ✓ |
| CPU configuration (max) | 1 |
| Embedded options available | ✗ |
| Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Intel Virtualization Technology (VT-x) | ✓ |

## Battery

| | |
|---|---|
| Battery technology | Lithium-Ion (Li-Ion) |
| Number of battery cells | 4 |
| Battery capacity * | 90 Wh |

## Power

| | |
|---|---|
| AC adapter power | 280 W |
| AC adapter frequency | 50 - 60 Hz |
| AC adapter input voltage | 100 - 240 V |
| AC adapter output current | 14 A |
| AC adapter output voltage | 20 V |

## Security

| | |
|---|---|
| Trusted Platform Module (TPM) | ✓ |
| Password protection | ✓ |
| Password protection type | BIOS, User |

## Weight & dimensions

| | |
|---|---|
| Width | 354 mm |
| Depth | 264 mm |
| Height (front) | 2.26 cm |
| Height (rear) | 3.04 cm |
| Weight * | 2.5 kg |

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