# ASUS ROG Strix G16 G614PR-RV016W AMD Ryzen™ 9 7940HX Laptop 40.6 cm (16") WUXGA 16 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 5070 Ti Wi-Fi 6E (802.11ax) Windows 11 Home Black, Grey

**Brand :** ASUS

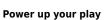**Product family:** ROG

**Product code:** 90NR0NJ7-M001H0

**Product name :** G614PR-RV016W

- Windows 11 Home 64-bit
- AMD Ryzen 9 7940HX (64MB Cache, 2.4GHz)
- 40.6 cm (16") WUXGA 1920 x 1200 IPS-Level, NVIDIA GeForce RTX 5070 Ti (12GB GDDR7)
- 16GB (5200MHz) DDR5-SDRAM & 1000GB SSD
AMD Ryzen 9 7940HX (64MB Cache, 2.4GHz), 16GB DDR5-SDRAM, 1000GB SSD, 40.6 cm (16") WUXGA 1920 x 1200 IPS-Level, AMD Radeon 610M, NVIDIA GeForce RTX 5070 Ti (12GB GDDR7), LAN, WLAN, Webcam, Windows 11 Home 64-bit
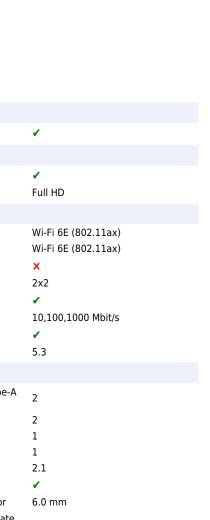
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## Power up your play
Draw more frames and win more games with the brand new Strix G16 and Windows 11 Pro. Powered by up to an AMD Ryzen™ 9 9955HX3D processor and up to an NVIDIA® GeForce RTX™ 5070 Ti Laptop GPU boasting a max TGP of 140W with Dynamic Boost, be ready to dominate the competition in all of the latest games. With up to 32GB of 5600MHz DDR5 RAM and PCIe Gen 4.0 SSD storage, and the ability to upgrade one slot to a PCIe Gen 5 drive*, large game libraries and intense multitasking sessions are a breeze for this gaming machine.

## Design

| | |
|---|---|
| Colour name | Eclipse Gray |
| Product type * | Laptop |
| Product colour * | Black, Grey |
| Form factor * | Clamshell |
| Housing material | Plastic |
| Market positioning | Gaming |
| Introduction year | 2025 |

## Display

| | |
|---|---|
| Display diagonal * | 40.6 cm (16") |
| Display resolution * | 1920 x 1200 pixels |
| Touchscreen * | ✘ |
| HD type | WUXGA |
| Panel type | IPS-Level |
| Native aspect ratio | 16:10 |
| Anti-glare screen | ✔ |
| Display brightness | 300 cd/m² |
| RGB colour space | sRGB |
| Colour gamut | 100% |
| Maximum refresh rate | 165 Hz |
| Contrast ratio (typical) | 1000:1 |
| High Dynamic Range (HDR) supported | ✔ |
| High Dynamic Range (HDR) technology | Dolby Vision |

## Processor

| | |
|---|---|
| Processor manufacturer * | AMD |
| Processor family * | AMD Ryzen™ 9 |
| Processor generation | AMD Ryzen 7000 Series |

## Audio

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

## Camera

| | |
|---|---|
| Front camera | ✔ |
| Front camera HD type | Full 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 Mbit/s |
| Bluetooth | ✔ |
| Bluetooth version | 5.3 |

## Ports & interfaces

| | |
|---|---|
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity | 2 |
| USB4 Gen 3x2 ports quantity | 2 |
| Ethernet LAN (RJ-45) ports | 1 |
| HDMI ports quantity * | 1 |
| HDMI version | 2.1 |
| Combo headphone/mic port | ✔ |
| Power adapter barrel connector | 6.0 mm |
| USB Type-C DisplayPort Alternate Mode | ✔ |

## Keyboard

| | |
|---|---|
| Pointing device | Touchpad |
| Numeric keypad * | ✘ |

## Processor

| | |
|---|---|
| Processor model * | 7940HX |
| Processor cores | 16 |
| Processor threads | 32 |
| Processor boost frequency | 5.2 GHz |
| Processor frequency * | 2.4 GHz |
| Processor cache | 64 MB |
| Processor cache type | L2 & L3 |

## Memory

| | |
|---|---|
| Internal memory * | 16 GB |
| Internal memory type | DDR5-SDRAM |
| Memory clock speed | 5200 MHz |
| Memory form factor | SO-DIMM |
| Memory slots | 2x SO-DIMM |
| Maximum internal memory * | 32 GB |

## Storage

| | |
|---|---|
| Total storage capacity * | 1 TB |
| Storage media * | SSD |
| Total SSDs capacity | 1 TB |
| Number of SSDs installed | 1 |
| SSD capacity | 1 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 5070 Ti |
| Discrete graphics card memory | 12 GB |
| Discrete graphics memory type | GDDR7 |
| On-board graphics card * | ✔ |
| On-board GPU manufacturer | AMD |
| Discrete graphics card * | ✔ |
| On-board graphics card family | AMD Radeon |
| On-board graphics card model * | AMD Radeon 610M |
| NVIDIA G-SYNC | ✔ |

## Audio

| | |
|---|---|
| Audio system | Smart Amp |
| Number of built-in speakers | 2 |

## Keyboard

| | |
|---|---|
| Keyboard backlit | ✔ |
| Keyboard backlit colour | RGB |
| Keyboard backlit zone | 4-zone RGB |
| Copilot key | ✔ |

## Software

| | |
|---|---|
| Operating system architecture | 64-bit |
| Trial software | 1-month trial for new Microsoft 365 customers. Credit card required, McAfee 30 days |
| Operating system installed * | Windows 11 Home |
| Bundled software | 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.) |
| Microsoft Copilot | ✔ |

## 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 | 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 |
| DC-in jack | ✔ |
| USB Type-C charging port * | ✔ |
| USB Power Delivery (USB PD) | ✔ |

## 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 |

## Packaging content

| | |
|---|---|
| AC adapter included * | ✔ |

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