ASUS

ASUS ROG Strix G16 G614JZ-N3007W Laptop 40.6 cm (16") WUXGA Intel® Core™ i7 i7-13650HX 16 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 4080 Wi-Fi 6E (802.11ax) Windows 11 Home Black, Grey

Brand : ASUS

Product family: ROG

Product code: 90NR0CZ1-M00190

Product name : G614JZ-N3007W

- Windows 11 Home 64-bit
- Intel Core i7-13650HX (24MB Cache)
- 40.6 cm (16") WUXGA 1920 x 1200 IPS, NVIDIA GeForce RTX 4080 (12GB GDDR6)
- 16GB (4800MHz) DDR5-SDRAM (2 x 8) & 1000GB SSD

Intel Core i7-13650HX (24MB Cache), 16GB DDR5-SDRAM, 1000GB SSD, 40.6 cm (16") WUXGA 1920 x 1200 IPS, Intel UHD Graphics, NVIDIA GeForce RTX 4080 (12GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home 64-bit

ASUS ROG Strix G16 G614JZ-N3007W. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-13650HX. 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: 1 TB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics, Discrete graphics card model: NVIDIA GeForce RTX 4080. Operating system installed: Windows 11 Home. Product colour: Black, Grey

intel CORE i7

Design

Colour name	Eclipse Gray
Product type *	Laptop
Product colour *	Black, Grey
Form factor *	Clamshell
Market positioning	Gaming
Introduction year	2023
Country of origin	China

Display

Display diagonal *	40.6 cm (16")
Display resolution *	1920 x 1200 pixels
Touchscreen *	✘
HD type	WUXGA
Panel type	IPS
Native aspect ratio	16:10
Anti-glare screen	✔
RGB colour space	sRGB
Colour gamut	100%
Display response rise/fall	7 ms
Maximum refresh rate	165 Hz
High Dynamic Range (HDR) supported	✔
High Dynamic Range (HDR) technology	Dolby Vision

Processor

Processor manufacturer *	Intel
Processor generation	13th gen Intel® Core™ i7
Processor family *	Intel® Core™ i7
Processor model *	i7-13650HX
Processor boost frequency	4.9 GHz

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
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	✔
Charging port type	DC-in jack
USB Type-C DisplayPort Alternate Mode	✔
USB Power Delivery	✔

Keyboard

Pointing device	Touchpad
Numeric keypad *	✘
Keyboard backlit	✔
Keyboard backlit colour	RGB
Keyboard backlit zone	4-zone RGB

Processor

Processor cores	14
Processor cache	24 MB
Bus type	DMI4
Configurable TDP-down	45 W

Memory

Internal memory *	16 GB
Internal memory type	DDR5-SDRAM
Memory clock speed	4800 MHz
Memory form factor	SO-DIMM
Memory layout (slots x size)	2 x 8 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	32 GB
Memory channels	Dual-channel

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 4080
On-board graphics card *	✔
Discrete graphics card *	✔
On-board graphics card model *	Intel® UHD Graphics
Discrete graphics card memory	12 GB
Discrete graphics memory type	GDDR6
NVIDIA G-SYNC	✔

Audio

Audio system	Dolby Atmos
Number of built-in speakers	2
Built-in microphone	✔

Camera

Front camera	✔
Front camera HD type	HD

Software

Operating system architecture	64-bit
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	330 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
AC adapter output current	16.5 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

Packaging data

Package width	106 mm
Package depth	335 mm
Package height	420 mm
Package weight	2.86 kg

Technical details

Commodity Classification Automated Tracking System (CCATS)	8471300000

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