



ASUS ROG Strix G16 G614JU-N3146W Intel® Core™ i7 i7-13650HX Laptop 40.6 cm (16") Full HD+ 16 GB DDR5-SDRAM 512 GB SSD NVIDIA GeForce RTX 4050 Wi-Fi 6E (802.11ax) Windows 11 Home Green, Grey

Brand : ASUS

Product family: ROG

Product code: 90NR0CC2-M00DV0

Product name : G614JU-N3146W



- Windows 11 Home 64-bit
 - Intel Core i7-13650HX (24MB Cache)
 - 40.6 cm (16") Full HD+ 1920 x 1200 IPS, NVIDIA GeForce RTX 4050 (6GB GDDR6)
 - 16GB (4800MHz) DDR5-SDRAM (2 x 8) & 512GB SSD
 Intel Core i7-13650HX (24MB Cache), 16GB DDR5-SDRAM, 512GB SSD, 40.6 cm (16") Full HD+ 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-N3146W. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-13650HX. Display diagonal: 40.6 cm (16"), HD type: Full HD+, 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: Green, Grey



Design		Graphics	
Colour name	Volt Green	Discrete graphics card memory	6 GB
Product type *	Laptop	Discrete graphics memory type	GDDR6
Product colour *	Green, Grey	NVIDIA G-SYNC	✓
Form factor *	Clamshell	Audio	
Market positioning	Gaming	Audio system	Dolby Atmos
Introduction year	2023	Number of built-in speakers	2
Display		Built-in microphone	✓
Display diagonal *	40.6 cm (16")	Camera	
Display resolution *	1920 x 1200 pixels	Front camera	✓
Touchscreen *	✗	Front camera HD type	HD
HD type	Full HD+	Network	
Panel type	IPS	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
LED backlight	✓	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Native aspect ratio	16:10	Mobile network connection *	✗
Anti-glare screen	✓	Antenna type	2x2
RGB colour space	sRGB	Ethernet LAN	✓
Colour gamut	100%	Ethernet LAN data rates	10,100,1000,2500 Mbit/s
Display response rise/fall	7 ms	Bluetooth	✓
Maximum refresh rate	165 Hz	Bluetooth version	5.3
High Dynamic Range (HDR) supported	✓	Ports & interfaces	
High Dynamic Range (HDR) technology	Dolby Vision	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Processor		USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Processor manufacturer *	Intel	Ethernet LAN (RJ-45) ports	1
Processor family *	Intel® Core™ i7	HDMI ports quantity *	1
Processor generation	13th gen Intel® Core™ i7	HDMI version	2.1
Processor model *	i7-13650HX	Thunderbolt 4 ports quantity	1
Processor cores	14		

Processor		Ports & interfaces	
Processor boost frequency	4.9 GHz	Intel® Thunderbolt 4	✓
Performance cores	6	Combo headphone/mic port	✓
Efficient cores	8	Power adapter barrel connector	6.0 mm
Performance-core Max Turbo Frequency	4.9 GHz	USB Type-C DisplayPort Alternate Mode	✓
Efficient-core Max Turbo Frequency	3.6 GHz	USB Power Delivery	✓
Efficient-core boost frequency	3.6 GHz	Keyboard	
Processor cache	24 MB	Pointing device	Touchpad
Processor cache type	Smart Cache	Numeric keypad *	✗
Bus type	DMI4	Keyboard backlit	✓
Configurable TDP-down	45 W	Keyboard backlit colour	RGB
Processor base power	55 W	Keyboard backlit zone	4-zone RGB
Maximum turbo power	157 W	Software	
Memory		Operating system architecture	64-bit
Internal memory *	16 GB	Operating system installed *	Windows 11 Home
Internal memory type	DDR5-SDRAM	Processor special features	
Memory clock speed	4800 MHz	CPU configuration (max)	1
Memory form factor	SO-DIMM	Battery	
Memory layout (slots x size)	2 x 8 GB	Battery technology	Lithium-Ion (Li-Ion)
Memory slots	2x SO-DIMM	Number of battery cells	4
Maximum internal memory *	32 GB	Battery capacity *	90 Wh
Memory channels	Dual-channel	Power	
Storage		AC adapter power	280 W
Total storage capacity *	512 GB	AC adapter frequency	50 - 60 Hz
Storage media *	SSD	AC adapter input voltage	100 - 240 V
Total SSDs capacity	512 GB	AC adapter output current	14 A
Number of SSDs installed	1	AC adapter output voltage	20 V
SSD capacity	512 GB	Security	
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 *	✗	Sustainability	
Graphics		Sustainability compliance	✓
Discrete GPU manufacturer	NVIDIA	Sustainability certificates	ENERGY STAR
Discrete graphics card model *	NVIDIA GeForce RTX 4050	Weight & dimensions	
On-board graphics card *	✓	Width	354 mm
On-board GPU manufacturer	Intel	Depth	264 mm
Discrete graphics card *	✓	Height (front)	2.26 cm
On-board graphics card family	Intel® UHD Graphics	Height (rear)	3.04 cm
On-board graphics card model *	Intel® UHD Graphics	Weight *	2.5 kg



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