



ASUS ROG GV601VI-NL016W Intel® Core™ i9 i9-13900H Hybrid (2-in-1) 40.6 cm (16") Touchscreen WQXGA 32 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 4070 Wi-Fi 6E (802.11ax) Windows 11 Home Black



Brand : ASUS

Product family: ROG

Product code: 90NR0G01-M001K0

Product name : GV601VI-NL016W

- Windows 11 Home 64-bit
 - Intel Core i9-13900H (24MB Cache)
 - 40.6 cm (16") WQXGA 2560 x 1600 IPS Touch, NVIDIA GeForce RTX 4070 (8GB GDDR6)
 - 32GB (4800MHz) DDR5-SDRAM (2 x 16) & 1000GB SSD
 Intel Core i9-13900H (24MB Cache), 32GB DDR5-SDRAM, 1000GB SSD, 40.6 cm (16") WQXGA 2560 x 1600 IPS Touch, Intel Iris Xe Graphics, NVIDIA GeForce RTX 4070 (8GB GDDR6), WLAN, Webcam, Windows 11 Home 64-bit
 ASUS ROG GV601VI-NL016W. Product type: Hybrid (2-in-1), Form factor: Convertible (Folder). Processor family: Intel® Core™ i9, Processor model: i9-13900H. Display diagonal: 40.6 cm (16"), HD type: WQXGA, Display resolution: 2560 x 1600 pixels, Touchscreen. Internal memory: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel Iris Xe Graphics. Operating system installed: Windows 11 Home. Product colour: Black



Design		Camera	
Colour name	Off Black	Infrared (IR) camera	✓
Product type *	Hybrid (2-in-1)	Network	
Product colour *	Black	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Form factor *	Convertible (Folder)	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Market positioning	Gaming	Mobile network connection *	✗
Introduction year	2023	Antenna type	2x2
Display		Ethernet LAN	✗
Display diagonal *	40.6 cm (16")	Bluetooth	✓
Display resolution *	2560 x 1600 pixels	Bluetooth version	5.3
Touchscreen *	✓	Ports & interfaces	
HD type	WQXGA	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Panel type	IPS	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
LED backlight	✓	HDMI ports quantity *	1
Native aspect ratio	16:10	HDMI version	2.1
Display surface	Gloss	Thunderbolt 4 ports quantity	1
Display brightness	1100 cd/m ²	Intel® Thunderbolt 4	✓
RGB colour space	DCI-P3	Combo headphone/mic port	✓
Colour gamut	100%	Charging port type	DC-in jack
Display response rise/fall	3 ms	Power adapter barrel connector	6.0 mm
Maximum refresh rate	240 Hz	USB Type-C DisplayPort Alternate Mode	✓
Processor		USB Power Delivery	✓
Processor manufacturer *	Intel	ROG XG Mobile port	✓
Processor family *	Intel® Core™ i9	Keyboard	
Processor generation	13th gen Intel® Core™ i9	Pointing device	Touchpad
Processor model *	i9-13900H	Numeric keypad *	✗
Processor cores	14		
Processor boost frequency	5.4 GHz		
Performance cores	6		

Processor		Keyboard	
Efficient cores	8	Keyboard backlit	✓
Performance-core Max Turbo Frequency	5.4 GHz	Keyboard backlit colour	RGB
Efficient-core Max Turbo Frequency	4.1 GHz	Keyboard backlit zone	1-zone RGB
Efficient-core boost frequency	4.1 GHz	Software	
Processor cache	24 MB	Operating system architecture	64-bit
Processor cache type	Smart Cache	Trial software	1-month trial for new Microsoft 365 customers
Configurable TDP-down	35 W	Operating system installed *	Windows 11 Home
Processor base power	45 W	Processor special features	
Maximum turbo power	115 W	Intel Flex Memory Access	✓
Memory		Intel Trusted Execution Technology	✓
Internal memory *	32 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory type	DDR5-SDRAM	Intel Stable Image Platform Program (SIPP)	✓
Memory clock speed	4800 MHz	Execute Disable Bit	✓
Memory form factor	SO-DIMM	CPU configuration (max)	1
Memory layout (slots x size)	2 x 16 GB	Embedded options available	✗
Memory slots	2x SO-DIMM	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum internal memory *	64 GB	Intel Virtualization Technology (VT-x)	✓
Memory channels	Dual-channel	Battery	
Storage		Battery technology	Lithium-Ion (Li-Ion)
Total storage capacity *	1 TB	Number of battery cells	4
Storage media *	SSD	Battery capacity *	90 Wh
Total SSDs capacity	1 TB	Fast charging	✓
Number of SSDs installed	1	Fast charging time (50%)	30 min
SSD capacity	1 TB	Power	
SSD interface	PCI Express 4.0	AC adapter power	280 W
NVMe	✓	AC adapter frequency	50 - 60 Hz
SSD form factor	M.2	AC adapter input voltage	100 - 240 V
Optical drive type *	✗	AC adapter output current	14 A
Card reader integrated	✓	AC adapter output voltage	20 V
Compatible memory cards	MicroSD (TransFlash)	Security	
Graphics		Face recognition	✓
Discrete GPU manufacturer	NVIDIA	Windows Hello	✓
Discrete graphics card model *	NVIDIA GeForce RTX 4070	Trusted Platform Module (TPM)	✓
Discrete graphics card memory	8 GB	Password protection	✓
Discrete graphics memory type	GDDR6	Password protection type	BIOS, User
On-board graphics card *	✓	Weight & dimensions	
On-board GPU manufacturer	Intel	Width	355 mm
Discrete graphics card *	✓	Depth	243 mm
On-board graphics card model *	Intel Iris Xe Graphics	Height (front)	1.94 cm
NVIDIA G-SYNC	✓	Height (rear)	2.19 cm
Audio		Weight *	2.2 kg
Audio system	Smart Amp	Packaging data	
Number of built-in speakers	4	Package width	465 mm
Built-in microphone	✓	Package depth	335 mm
Number of microphones	3	Package height	90 mm
Camera		Package weight	2.45 kg
Front camera	✓		
Front camera HD type	Full HD		



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