



MSI Gaming RAIDER GE78HX 13VG-096UK laptop Intel® Core™ i9 i9-13980HX 43.2 cm (17") Quad HD+ 16 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 4070 Wi-Fi 6E (802.11ax) Windows 11 Home Black

Brand : MSI

Product family: Gaming

Product code: RAIDER GE78HX 13VG-096UK

Product name : RAIDER GE78HX 13VG-096UK



- Windows 11 Home
 - Intel Core i9-13980HX (36MB Cache)
 - 43.2 cm (17") Quad HD+ 2560 x 1600, NVIDIA GeForce RTX 4070 (8GB GDDR6)
 - 16GB (5600MHz) DDR5-SDRAM (1 x 16) & 1000GB SSD
 Intel Core i9-13980HX (36MB Cache), 16GB DDR5-SDRAM, 1000GB SSD, 43.2 cm (17") Quad HD+ 2560 x 1600, Intel UHD Graphics, NVIDIA GeForce RTX 4070 (8GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home
 MSI Gaming RAIDER GE78HX 13VG-096UK. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i9, Processor model: i9-13980HX. Display diagonal: 43.2 cm (17"), HD type: Quad HD+, Display resolution: 2560 x 1600 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 4070. Operating system installed: Windows 11 Home. Product colour: Black



Design		Graphics	
Colour name	Core Black	On-board graphics card family	Intel® UHD Graphics
Product type *	Laptop	On-board graphics card model *	Intel® UHD Graphics
Product colour *	Black	Audio	
Form factor *	Clamshell	Number of built-in speakers	2
Display		Speaker power	2 W
Display diagonal *	43.2 cm (17")	Camera	
Display resolution *	2560 x 1600 pixels	Front camera	✓
Touchscreen *	✗	Front camera HD type	Full HD
HD type	Quad HD+	Video capturing speed	30 fps
Maximum refresh rate	240 Hz	Infrared (IR) camera	✓
Processor		Network	
Processor manufacturer *	Intel	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Processor family *	Intel® Core™ i9	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Processor generation	13th gen Intel® Core™ i9	Mobile network connection *	✗
Processor model *	i9-13980HX	WLAN controller model	Intel Wi-Fi 6E AX211
Processor cores	24	WLAN controller manufacturer	Intel
Processor boost frequency	5.6 GHz	Ethernet LAN	✓
Performance cores	8	Ethernet LAN data rates	10,100,1000,2500 Mbit/s
Efficient cores	16	Bluetooth	✓
Performance-core Max Turbo Frequency	5.6 GHz	Bluetooth version	5.3
Efficient-core Max Turbo Frequency	4 GHz	Ports & interfaces	
Processor cache	36 MB	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Processor cache type	Smart Cache	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	1
Processor base power	55 W	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Maximum turbo power	157 W	Ethernet LAN (RJ-45) ports	1
Memory			
Internal memory *	16 GB		

Memory		Ports & interfaces	
Internal memory type	DDR5-SDRAM	HDMI ports quantity *	1
Memory clock speed	5600 MHz	HDMI version	2.1
Memory layout (slots x size)	1 x 16 GB	Thunderbolt 4 ports quantity	1
Maximum internal memory *	64 GB	Intel® Thunderbolt 4	✓
Storage		Combo headphone/mic port	✓
Total storage capacity *	1 TB	USB Type-C DisplayPort Alternate Mode	✓
Storage media *	SSD	Performance	
Total SSDs capacity	1 TB	Motherboard chipset	Intel HM770
Number of SSDs installed	1	Keyboard	
SSD capacity	1 TB	Pointing device	Touchpad
SSD interface	PCI Express 4.0	Numeric keypad *	✓
NVMe	✓	Keyboard backlit	✓
Optical drive type *	✗	Keyboard backlit colour	RGB
Card reader integrated	✓	Software	
Compatible memory cards	SD	Operating system installed *	Windows 11 Home
Graphics		Battery	
Discrete GPU manufacturer	NVIDIA	Number of battery cells	4
Discrete graphics card model *	NVIDIA GeForce RTX 4070	Battery capacity *	99 Wh
Discrete graphics card memory	8 GB	Power	
Discrete graphics memory type	GDDR6	AC adapter power	280 W
On-board graphics card *	✓	Weight & dimensions	
On-board GPU manufacturer	Intel	Width	380 mm
Discrete graphics card *	✓	Depth	298 mm
		Height	23 mm
		Weight *	3.1 kg



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