



## MSI Gaming Raider GE68HX 13VF-007FR Intel® Core™ i7 i7-13700HX Laptop 40,6 cm (16") Quad HD+ 32 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 4060 Wi-Fi 6E (802.11ax) Windows 11 Pro Black

**Brand :** MSI

**Product family:** Gaming

**Article code:** 9S7-15M211-007

**Product name :** Raider  
GE68HX 13VF-007FR

MSI Gaming Raider GE68HX 13VF-007FR. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-13700HX. Display diagonal: 40,6 cm (16"), HD type: Quad HD+, Display resolution: 2560 x 1600 pixels. Internal memory: 32 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 4060. Operating system installed: Windows 11 Pro. Product color: Black



Design		Graphics	
Colour name	Core Black	Graphics card Open GL support	✓
Product type *	Laptop	<b>Audio</b>	
Product colour *	Black	Number of built-in speakers	4
Form factor *	Clamshell	Speaker power	2 W
Market positioning	Gaming	<b>Camera</b>	
Original brand name	MSI	Front camera	✓
Display		Front camera resolution	1920 x 1080 pixels
Display diagonal *	40.6 cm (16")	Front camera HD type	Full HD
Display resolution *	2560 x 1600 pixels	Video capturing speed	30 fps
Touchscreen *	✗	Infrared (IR) camera	✓
HD type	Quad HD+	<b>Network</b>	
Panel type	IPS	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Native aspect ratio	16:10	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Display diagonal (metric)	40.6 cm	Mobile network connection *	✗
Maximum refresh rate	240 Hz	WLAN controller manufacturer	Killer
Processor		Ethernet LAN	✓
Processor manufacturer *	Intel	Ethernet LAN data rates	10,100,1000,2500 Mbit/s
Processor family *	Intel® Core™ i7	Bluetooth	✓
Processor generation	13th gen Intel® Core™ i7	Bluetooth version	5.3
Processor model *	i7-13700HX	<b>Ports &amp; interfaces</b>	
Processor cores	16	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Processor boost frequency	5 GHz	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	1
Performance cores	8	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Efficient cores	8	Ethernet LAN (RJ-45) ports	1
Performance-core Max Turbo Frequency	5 GHz	HDMI ports quantity *	1
Efficient-core Max Turbo Frequency	3.7 GHz	HDMI version	2.1
Processor cache	30 MB	Thunderbolt 4 ports quantity	1
Processor cache type	Smart Cache	Intel® Thunderbolt 4	✓
Bus type	DMI4		
Configurable TDP-down	45 W		

Memory		Ports & interfaces	
Internal memory *	32 GB	Combo headphone/mic port	✓
Internal memory type	DDR5-SDRAM	Charging port type	USB Type-C
Memory clock speed	5600 MHz	USB Type-C DisplayPort Alternate Mode	✓
Memory form factor	SO-DIMM		
Memory layout (slots x size)	2 x 16 GB		
Memory slots	2x SO-DIMM		
Maximum internal memory *	64 GB		
Storage		Performance	
Total storage capacity *	1 TB	Motherboard chipset	Intel HM770
Storage media *	SSD	Keyboard	
Total SSDs capacity	1 TB	Pointing device	Touchpad
Number of SSDs installed	1	Numeric keypad *	✓
SSD capacity	1 TB	Keyboard backlit	✓
SSD interface	PCI Express 4.0	Keyboard backlit colour	RGB
NVMe	✓	Keyboard backlit zone	Per-key RGB
Optical drive type *	✗		
Card reader integrated	✓	Software	
Compatible memory cards	SD	Operating system installed *	Windows 11 Pro
Graphics		Processor special features	
Discrete GPU manufacturer	NVIDIA	Intel Flex Memory Access	✓
Discrete graphics card model *	NVIDIA GeForce RTX 4060	Intel VT-x with Extended Page Tables (EPT)	✓
Discrete graphics card memory	8 GB	CPU configuration (max)	1
Discrete graphics memory type	GDDR6	Embedded options available	✗
On-board graphics card *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board GPU manufacturer	Intel	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card *	✓	Battery	
On-board graphics card family	Intel® UHD Graphics	Battery technology	Lithium Polymer (LiPo)
On-board graphics card model *	Intel® UHD Graphics	Number of battery cells	4
On-board graphics card 4K support	✓	Battery capacity *	99 Wh
On-board graphics card 6K support	✓	Power	
		AC adapter power	280 W
		Weight & dimensions	
		Width	357 mm
		Depth	284 mm
		Height (front)	2.22 cm
		Height (rear)	2.79 cm
		Weight *	2.7 kg

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