



**MSI Gaming Raider GE78 HX 14VHG-647U Intel® Core™ i9 i9-14900HX Laptop 43.2 cm (17") Quad HD+ 32 GB DDR5-SDRAM 4 TB SSD NVIDIA GeForce RTX 4080 Wi-Fi 7 (802.11be) Windows 11 Home Black**

**Brand :** MSI

**Product family:** Gaming

**Product code:** RAIDER GE78 HX 14VHG-647UK

**Product name :** Raider GE78 HX 14VHG-647U



- Windows 11 Home
- Intel Core i9-14900HX (36MB Cache)
- 43.2 cm (17") Quad HD+ 2560 x 1600, NVIDIA GeForce RTX 4080 (12GB GDDR6)
- 32GB (5600MHz) DDR5-SDRAM (2 x 16) & 4000GB SSD
- Intel Core i9-14900HX (36MB Cache), 32GB DDR5-SDRAM, 4000GB SSD, 43.2 cm (17") Quad HD+ 2560 x 1600, Intel UHD Graphics, NVIDIA GeForce RTX 4080 (12GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home

MSI Gaming Raider GE78 HX 14VHG-647U. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i9, Processor model: i9-14900HX. Display diagonal: 43.2 cm (17"), HD type: Quad HD+, Display resolution: 2560 x 1600 pixels. Internal memory: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 4 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

Design		Graphics	
Product type *	Laptop	Discrete graphics card memory	12 GB
Product colour *	Black	Discrete graphics memory type	GDDR6
Form factor *	Clamshell	On-board graphics card *	✓
Original brand name	MSI	On-board GPU manufacturer	Intel
<b>Display</b>		Discrete graphics card *	✓
Display diagonal *	43.2 cm (17")	On-board graphics card family	Intel® UHD Graphics
Display resolution *	2560 x 1600 pixels	On-board graphics card model *	Intel® UHD Graphics
Touchscreen *	✗	<b>Audio</b>	
HD type	Quad HD+	Number of built-in speakers	2
Native aspect ratio	16:10	Speaker power	2 W
Anti-glare screen	✓	<b>Camera</b>	
Display brightness	400 cd/m <sup>2</sup>	Front camera	✓
RGB colour space	DCI-P3	Front camera resolution	1920 x 1080 pixels
Colour gamut	100%	Front camera HD type	Full HD
Maximum refresh rate	240 Hz	Video capturing speed	30 fps
<b>Processor</b>		Infrared (IR) camera	✓
Processor manufacturer *	Intel	<b>Network</b>	
Processor family *	Intel® Core™ i9	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Processor generation	Intel Core i9-14xxx	Wi-Fi standards	Wi-Fi 7 (802.11be)
Processor model *	i9-14900HX	Mobile network connection *	✗
Processor cores	24	Ethernet LAN	✓
Processor boost frequency	5.8 GHz	Ethernet LAN data rates	10,100,1000 Mbit/s
Performance cores	8	Bluetooth	✓
Efficient cores	16	Bluetooth version	5.4
Performance-core Max Turbo Frequency	5.8 GHz	<b>Ports &amp; interfaces</b>	
Efficient-core Max Turbo Frequency	4.1 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Performance-core base frequency	2.2 GHz	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	1
Efficient-core boost frequency	1.6 GHz	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Processor cache	36 MB	Ethernet LAN (RJ-45) ports	1
Processor cache type	Smart Cache		
Processor base power	55 W		

<b>Processor</b>		<b>Ports &amp; interfaces</b>	
Maximum turbo power	157 W	HDMI ports quantity *	1
<b>Memory</b>		HDMI version	2.1
Internal memory *	32 GB	Thunderbolt 4 ports quantity	1
Internal memory type	DDR5-SDRAM	Intel® Thunderbolt 4	✓
Memory clock speed	5600 MHz	Combo headphone/mic port	✓
Memory layout (slots x size)	2 x 16 GB	<b>Performance</b>	
Memory slots	2x SO-DIMM	Motherboard chipset	Intel HM770
<b>Storage</b>		<b>Keyboard</b>	
Total storage capacity *	4 TB	Pointing device	Touchpad
Storage media *	SSD	Numeric keypad *	✓
Total SSDs capacity	4 TB	Keyboard backlit	✓
Number of SSDs installed	2	Keyboard backlit colour	RGB
SSD capacity	2 TB	<b>Software</b>	
SSD interface	PCI Express 4.0	Operating system installed *	Windows 11 Home
NVMe	✓	<b>Battery</b>	
Optical drive type *	✗	Number of battery cells	4
Card reader integrated	✓	Battery capacity *	99.9 Wh
Compatible memory cards	SD	<b>Power</b>	
<b>Graphics</b>		AC adapter power	330 W
Discrete GPU manufacturer	NVIDIA	<b>Weight &amp; dimensions</b>	
Discrete graphics card model *	NVIDIA GeForce RTX 4080	Width	380 mm
		Depth	298 mm
		Height	23 mm
		Weight *	3.1 kg



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