



**MSI Gaming Vector GP78 HX 13VI-422UK Intel® Core™ i9 i9-13980HX Laptop 43.2 cm (17") Quad HD+ 32 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 4090 Wi-Fi 6E (802.11ax) Windows 11 Home Advanced Black**

**Brand :** MSI

**Product family:** Gaming

**Product code:** VECTOR GP78 HX 13VI-422UK

**Product name :** Vector GP78 HX 13VI-422UK



- Windows 11 Home Advanced  
 - Intel Core i9-13980HX (36MB Cache)  
 - 43.2 cm (17") Quad HD+ 2560 x 1600, NVIDIA GeForce RTX 4090 (16GB GDDR6)  
 - 32GB (5600MHz) DDR5-SDRAM (2 x 16) & 2000GB SSD  
 Intel Core i9-13980HX (36MB Cache), 32GB DDR5-SDRAM, 2000GB SSD, 43.2 cm (17") Quad HD+ 2560 x 1600, Intel UHD Graphics, NVIDIA GeForce RTX 4090 (16GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home Advanced  
 MSI Gaming Vector GP78 HX 13VI-422UK. 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: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 2 TB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics, Discrete graphics card model: NVIDIA GeForce RTX 4090. Operating system installed: Windows 11 Home Advanced. Product colour: Black



Design		Audio	
Colour name	Cosmos Gray	Speaker power	2 W
Product type *	Laptop	Camera	
Product colour *	Black	Front camera	✓
Form factor *	Clamshell	Front camera HD type	HD
Display		Video capturing speed	30 fps
Display diagonal *	43.2 cm (17")	Infrared (IR) camera	✓
Display resolution *	2560 x 1600 pixels	Network	
Touchscreen *	✗	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
HD type	Quad HD+	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Native aspect ratio	16:10	Mobile network connection *	✗
Anti-glare screen	✓	WLAN controller model	Killer WiFi 6E AX211
Display brightness	400 cd/m <sup>2</sup>	Ethernet LAN	✓
RGB colour space	DCI-P3	Ethernet LAN data rates	10,100,1000,2500 Mbit/s
Colour gamut	100%	Bluetooth	✓
Maximum refresh rate	240 Hz	Bluetooth version	5.3
Processor		Ports & interfaces	
Processor manufacturer *	Intel	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Processor family *	Intel® Core™ i9	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	1
Processor generation	13th gen Intel® Core™ i9	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Processor model *	i9-13980HX	Ethernet LAN (RJ-45) ports	1
Processor cores	24	HDMI ports quantity *	1
Processor boost frequency	5.6 GHz	HDMI version	2.1
Performance cores	8	Thunderbolt 4 ports quantity	1
Efficient cores	16	Intel® Thunderbolt 4	✓
Performance-core Max Turbo Frequency	5.6 GHz	Combo headphone/mic port	✓
Efficient-core Max Turbo Frequency	4 GHz		
Processor cache	36 MB		

<b>Processor</b>		<b>Ports &amp; interfaces</b>	
Processor cache type	Smart Cache	USB Type-C DisplayPort Alternate Mode	✓
Bus type	DMI4	<b>Performance</b>	
Configurable TDP-down	45 W	Motherboard chipset	Intel HM770
Processor base power	55 W	<b>Keyboard</b>	
Maximum turbo power	157 W	Pointing device	Touchpad
<b>Memory</b>		Numeric keypad *	✓
Internal memory *	32 GB	Keyboard backlit	✓
Internal memory type	DDR5-SDRAM	Keyboard backlit colour	RGB
Memory clock speed	5600 MHz	<b>Software</b>	
Memory layout (slots x size)	2 x 16 GB	Operating system installed *	Windows 11 Home Advanced
Maximum internal memory *	64 GB	<b>Processor special features</b>	
<b>Storage</b>		Intel Flex Memory Access	✓
Total storage capacity *	2 TB	Intel VT-x with Extended Page Tables (EPT)	✓
Storage media *	SSD	CPU configuration (max)	1
Total SSDs capacity	2 TB	Embedded options available	✗
Number of SSDs installed	1	Intel Virtualization Technology for Directed I/O (VT-d)	✓
SSD capacity	2 TB	Intel Virtualization Technology (VT-x)	✓
SSD interface	PCI Express 4.0	<b>Battery</b>	
NVMe	✓	Battery technology	Lithium Polymer (LiPo)
Optical drive type *	✗	Number of battery cells	4
Card reader integrated	✓	Battery capacity *	90 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 4090	Width	380 mm
Discrete graphics card memory	16 GB	Depth	298 mm
Discrete graphics memory type	GDDR6	Height (front)	2.29 cm
On-board graphics card *	✓	Height (rear)	2.88 cm
On-board GPU manufacturer	Intel	Weight *	3 kg
Discrete graphics card *	✓	<b>Packaging data</b>	
On-board graphics card family	Intel® UHD Graphics	Package width	461 mm
On-board graphics card model *	Intel® UHD Graphics	Package depth	119 mm
<b>Audio</b>		Package height	376 mm
Audio system	NAHIMIC 3	<b>Logistics data</b>	
Number of built-in speakers	2	Commodity Classification	
Speakers manufacturer	Nahimic	Automated Tracking System (CCATS)	8471300000



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