



**MSI Gaming Vector GP78 HX 13VI-422UK Laptop 43.2 cm (17")
Quad HD+ Intel® Core™ i9 i9-13980HX 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	Speakers manufacturer	Nahimic
Product type *	Laptop	Speaker power	2 W
Product colour *	Black	Camera	
Form factor *	Clamshell	Front camera	✓
Display		Front camera HD type	HD
Display diagonal *	43.2 cm (17")	Video capturing speed	30 fps
Display resolution *	2560 x 1600 pixels	Infrared (IR) camera	✓
Touchscreen *	✗	Network	
HD type	Quad HD+	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Native aspect ratio	16:10	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Anti-glare screen	✓	Mobile network connection *	✗
Display brightness	400 cd/m ²	WLAN controller model	Killer WiFi 6E AX211
RGB colour space	DCI-P3	Ethernet LAN	✓
Colour gamut	100%	Ethernet LAN data rates	10,100,1000,2500 Mbit/s
Maximum refresh rate	240 Hz	Bluetooth	✓
Processor		Bluetooth version	5.3
Processor manufacturer *	Intel	Ports & interfaces	
Processor generation	13th gen Intel® Core™ i9	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 model *	i9-13980HX	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Processor boost frequency	5.6 GHz	Ethernet LAN (RJ-45) ports	1
Efficient-core Max Turbo Frequency	4 GHz	HDMI ports quantity *	1
Performance-core Max Turbo Frequency	5.6 GHz	HDMI version	2.1
Processor cores	24	Thunderbolt 4 ports quantity	1
Processor cache	36 MB	Intel® Thunderbolt 4	✓
Processor cache type	Smart Cache		
Bus type	DMI4		

Processor		Ports & interfaces	
Motherboard chipset	Intel HM770	Combo headphone/mic port	✓
Configurable TDP-down	45 W	USB Type-C DisplayPort Alternate Mode	✓
Processor base power	55 W	Keyboard	
Maximum turbo power	157 W	Pointing device	Touchpad
Performance cores	8	Numeric keypad *	✓
Efficient cores	16	Keyboard backlit	✓
Memory		Keyboard backlit colour	RGB
Internal memory *	32 GB	Software	
Internal memory type	DDR5-SDRAM	Operating system installed *	Windows 11 Home Advanced
Memory clock speed	5600 MHz	Processor special features	
Memory layout (slots x size)	2 x 16 GB	Intel Flex Memory Access	✓
Maximum internal memory *	64 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Storage		CPU configuration (max)	1
Total storage capacity *	2 TB	Embedded options available	✗
Storage media *	SSD	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Total SSDs capacity	2 TB	Intel Virtualization Technology (VT-x)	✓
Number of SSDs installed	1	Battery	
SSD capacity	2 TB	Battery technology	Lithium Polymer (LiPo)
SSD interface	PCI Express 4.0	Number of battery cells	4
NVMe	✓	Battery capacity *	90 Wh
Optical drive type *	✗	Power	
Card reader integrated	✓	AC adapter power	330 W
Compatible memory cards	SD	Weight & dimensions	
Graphics		Width	380 mm
Discrete GPU manufacturer	NVIDIA	Depth	298 mm
Discrete graphics card model *	NVIDIA GeForce RTX 4090	Height (front)	2.29 cm
On-board graphics card *	✓	Height (rear)	2.88 cm
Discrete graphics card *	✓	Weight *	3 kg
On-board graphics card family	Intel® UHD Graphics	Packaging data	
On-board graphics card model *	Intel® UHD Graphics	Package width	461 mm
Discrete graphics card memory	16 GB	Package depth	119 mm
Discrete graphics memory type	GDDR6	Package height	376 mm
Audio		Technical details	
Audio system	NAHIMIC 3	Commodity Classification Automated Tracking System (CCATS)	8471300000
Number of built-in speakers	2		



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