



**MSI Gaming Vector GP78 HX 13VH-405UK Intel® Core™ i9 i9-13980HX Laptop 43.2 cm (17") Quad HD+ 16 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 4080 Wi-Fi 6E (802.11ax) Windows 11 Home Black**

**Brand :** MSI

**Product family:** Gaming

**Product code:** VECTOR GP78 HX 13VH-405UK

**Product name :** Vector GP78 HX 13VH-405UK



- Windows 11 Home
- Intel Core i9-13980HX (36MB Cache)
- 43.2 cm (17") Quad HD+ 2560 x 1600, NVIDIA GeForce RTX 4080 (12GB GDDR6)
- 16GB (5600MHz) DDR5-SDRAM (2 x 8) & 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 4080 (12GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home

MSI Gaming Vector GP78 HX 13VH-405UK. 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 4080. Operating system installed: Windows 11 Home. Product colour: Black



Design		Graphics	
Colour name	Cosmos Gray	On-board graphics card model *	Intel® UHD Graphics
Product type *	Laptop	<b>Audio</b>	
Product colour *	Black	Audio system	NAHIMIC 3
Form factor *	Clamshell	Number of built-in speakers	2
<b>Display</b>		Speakers manufacturer	Nahimic
Display diagonal *	43.2 cm (17")	Speaker power	2 W
Display resolution *	2560 x 1600 pixels	<b>Camera</b>	
Touchscreen *	✗	Front camera	✓
HD type	Quad HD+	Front camera HD type	HD
Native aspect ratio	16:10	Video capturing speed	30 fps
Anti-glare screen	✓	Infrared (IR) camera	✓
Display brightness	400 cd/m <sup>2</sup>	<b>Network</b>	
RGB colour space	DCI-P3	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Colour gamut	100%	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Maximum refresh rate	240 Hz	Mobile network connection *	✗
<b>Processor</b>		Ethernet LAN	✓
Processor manufacturer *	Intel	Ethernet LAN data rates	10,100,1000,2500 Mbit/s
Processor family *	Intel® Core™ i9	Bluetooth	✓
Processor generation	13th gen Intel® Core™ i9	Bluetooth version	5.3
Processor model *	i9-13980HX	<b>Ports &amp; interfaces</b>	
Processor cores	24	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Processor boost frequency	5.6 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	16	Ethernet LAN (RJ-45) ports	1
Performance-core Max Turbo Frequency	5.6 GHz	HDMI ports quantity *	1
Efficient-core Max Turbo Frequency	4 GHz		
Processor cache	36 MB		

<b>Processor</b>		<b>Ports &amp; interfaces</b>	
Processor cache type	Smart Cache	HDMI version	2.1
Bus type	DMI4	Thunderbolt 4 ports quantity	1
Configurable TDP-down	45 W	Intel® Thunderbolt 4	✓
Processor base power	55 W	Combo headphone/mic port	✓
Maximum turbo power	157 W	USB Type-C DisplayPort Alternate Mode	✓
<b>Memory</b>		<b>Performance</b>	
Internal memory *	16 GB	Motherboard chipset	Intel HM770
Internal memory type	DDR5-SDRAM	<b>Keyboard</b>	
Memory clock speed	5600 MHz	Pointing device	Touchpad
Memory layout (slots x size)	2 x 8 GB	Numeric keypad *	✓
Maximum internal memory *	64 GB	Keyboard backlit	✓
<b>Storage</b>		Keyboard backlit colour	RGB
Total storage capacity *	1 TB	<b>Software</b>	
Storage media *	SSD	Operating system installed *	Windows 11 Home
Total SSDs capacity	1 TB	<b>Processor special features</b>	
Number of SSDs installed	1	Intel Flex Memory Access	✓
SSD capacity	1 TB	Intel VT-x with Extended Page Tables (EPT)	✓
SSD interface	PCI Express 4.0	CPU configuration (max)	1
NVMe	✓	Embedded options available	✗
Optical drive type *	✗	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Card reader integrated	✓	Intel Virtualization Technology (VT-x)	✓
Compatible memory cards	SD	<b>Battery</b>	
<b>Graphics</b>		Number of battery cells	4
Discrete GPU manufacturer	NVIDIA	Battery capacity *	90 Wh
Discrete graphics card model *	NVIDIA GeForce RTX 4080	<b>Power</b>	
Discrete graphics card memory	12 GB	AC adapter power	330 W
Discrete graphics memory type	GDDR6	<b>Weight &amp; dimensions</b>	
On-board graphics card *	✓	Width	380.3 mm
On-board GPU manufacturer	Intel	Depth	298 mm
Discrete graphics card *	✓	Height (front)	2.35 cm
On-board graphics card family	Intel® UHD Graphics	Height (rear)	2.94 cm
		Weight *	3 kg



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Publication date: 09-MAY-2024. Prints or copies of Information are only valid on the printed Publication date