msi

MSI Vector 16 HX AI A2XWIG-058US Intel Core Ultra 9 275HX Laptop 40.6 cm (16") Quad HD+ 32 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 5080 Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : MSI

Product family: Vector

Product code: VECTOR 16 HX AI A2XWIG-058US
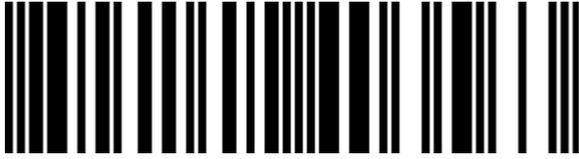
Product name : Vector 16 HX AI A2XWIG-058US

- Windows 11 Pro
- Intel Core Ultra 9 275HX (36MB Cache)
- 40.6 cm (16") Quad HD+ 2560 x 1600, NVIDIA GeForce RTX 5080 (16GB GDDR7)
- 32GB (5600MHz) DDR5-SDRAM (2 x 16) & 2000GB SSD
Intel Core Ultra 9 275HX (36MB Cache), 32GB DDR5-SDRAM, 2000GB SSD, 40.6 cm (16") Quad HD+ 2560 x 1600, Intel Graphics, NVIDIA GeForce RTX 5080 (16GB GDDR7), LAN, WLAN, Webcam, Windows 11 Pro

MSI Vector 16 HX AI A2XWIG-058US Intel Core Ultra 9 275HX Laptop 40.6 cm (16") Quad HD+ 32 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 5080 Wi-Fi 6E (802.11ax) Windows 11 Pro Grey:
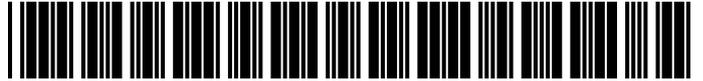
Designed for STEM professionals, the Vector 16 HX AI delivers cutting-edge performance and rock-solid stability. It acts as a high-tech brain, seamlessly processing complex data with speed and precision. From software development to data analysis and simulations, the Vector 16 HX AI provides the performance and reliability engineers need to succeed.

Design

Colour name	Cosmos Gray
Product type *	Laptop
Product colour *	Grey
Form factor *	Clamshell
Housing material	Metal, Plastic
Market positioning	Performance
Original brand name	MSI

Display

Display diagonal *	40.6 cm (16")
Display resolution *	2560 x 1600 pixels
Touchscreen *	✗
HD type	Quad HD+
Native aspect ratio	16:10
Anti-glare screen	✔
RGB colour space	DCI-P3
Colour gamut	100%
Maximum refresh rate	240 Hz

Processor

Processor manufacturer *	Intel
Processor family *	Intel Core Ultra 9
Processor generation	Intel Core Ultra (Series 2)
Processor model *	275HX
Processor cores	24
Processor threads	24
Processor boost frequency	5.4 GHz
Performance cores	8
Efficient cores	16
Performance-core Max Turbo Frequency	5.4 GHz
Efficient-core Max Turbo Frequency	4.6 GHz
Performance-core base frequency	2.7 GHz

Graphics

Discrete graphics card model *	NVIDIA GeForce RTX 5080
Discrete graphics card memory	16 GB
Discrete graphics memory type	GDDR7
On-board graphics card *	✔
On-board GPU manufacturer	Intel
Discrete graphics card *	✔
On-board graphics card family	Intel® Graphics
On-board graphics card model *	Intel® Graphics

Audio

Audio system	Nahimic 3
Number of built-in speakers	2
Speakers manufacturer	Nahimic
Speaker power	2 W

Camera

Front camera	✔
Front camera resolution	1920 x 1080 pixels
Front camera HD type	Full HD
Video capturing speed	30 fps
Infrared (IR) camera	✔

Network

Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Wi-Fi standards	Wi-Fi 6E (802.11ax)
Mobile network connection *	✗
WLAN controller model	Intel Wi-Fi 6E AX211
Ethernet LAN	✔
Ethernet LAN data rates	2500 Mbit/s
Bluetooth	✔
Bluetooth version	5.3

Processor

Efficient-core base frequency	2.1 GHz
Processor cache	36 MB
Processor base power	55 W
Maximum turbo power	160 W

Neural processor unit (NPU)

Neural processor unit (NPU)	Intel AI Boost
Sparsity support	✔
Windows Studio effects support	✔
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN
Total processor performance up to	36 TOPs
NPU performance up to	13 TOPs
GPU performance up to	8 TOPs

Memory

Internal memory *	32 GB
Internal memory type	DDR5-SDRAM
Memory clock speed	5600 MHz
Memory layout (slots x size)	2 x 16 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	96 GB

Storage

Total storage capacity *	2 TB
Storage media *	SSD
Total SSDs capacity	2 TB
Number of SSDs installed	1
SSD capacity	2 TB
SSD interface	PCI Express 4.0
NVMe	✔
SSD form factor	M.2
Optical drive type *	✘
Card reader integrated	✔
Compatible memory cards	SD

Graphics

Discrete GPU manufacturer	NVIDIA

Ports & interfaces

Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
HDMI version	2.1
Thunderbolt 5 ports quantity	2
Intel® Thunderbolt 5	✔
Combo headphone/mic port	✔

Performance

Motherboard chipset	HM870

Keyboard

Pointing device	Touchpad
Numeric keypad *	✔
Keyboard backlit	✔
Keyboard backlit colour	RGB
Keyboard backlit zone	24-zone RGB
Copilot key	✔

Software

Operating system installed *	Windows 11 Pro
Bundled software	Killer Control Center, Nvidia App, Nahimic 3, MSI App Player, Mystic Light, Crosshair, Battery Master, MSI Center, Discrete Graphics Mode, MSI AI Engine, AI Noise Cancellation Pro, Intel Application Optimization

Battery

Number of battery cells	4
Battery capacity	5845 mAh
Battery capacity *	90 Wh

Power

AC adapter power	330 W
USB Power Delivery (USB PD)	✔

Security

Cable lock slot	✔
Cable lock slot type	Kensington

Sustainability

Sustainability certificates	EPEAT Silver

Weight & dimensions

Width	357 mm
Depth	284 mm
Height (front)	2.22 cm
Height (rear)	2.85 cm
Weight *	2.7 kg

0824142403563

824142403563

Catalog Object Cloud