



## MSI Vector 16 HX AI A2XWIG-048DE Intel Core Ultra 9 275HX Laptop 40.6 cm (16") Quad HD+ 32 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 5080 Wi-Fi 6E (802.11ax) Windows 11 Home Grey



**Brand :** MSI

**Product family:** Vector

**Product code:** VECTOR 16 HX  
AI A2XWIG-048DE

**Product name :** Vector 16 HX  
AI A2XWIG-048DE

- Windows 11 Home  
- Intel Core Ultra 9 275HX (36MB Cache)  
- 40.6 cm (16") Quad HD+ 2560 x 1600 IPS-Level, NVIDIA GeForce RTX 5080 (16GB GDDR7)  
- 32GB (5600MHz) DDR5-SDRAM & 1000GB SSD  
Intel Core Ultra 9 275HX (36MB Cache), 32GB DDR5-SDRAM, 1000GB SSD, 40.6 cm (16") Quad HD+ 2560 x 1600 IPS-Level, Intel Graphics, NVIDIA GeForce RTX 5080 (16GB GDDR7), LAN, WLAN, Webcam, Windows 11 Home

MSI Vector 16 HX AI A2XWIG-048DE Intel Core Ultra 9 275HX Laptop 40.6 cm (16") Quad HD+ 32 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 5080 Wi-Fi 6E (802.11ax) Windows 11 Home 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                               |                             | Graphics                       |                      |
|--------------------------------------|-----------------------------|--------------------------------|----------------------|
| Colour name                          | Cosmos Gray                 | Discrete graphics card memory  | 16 GB                |
| Product type *                       | Laptop                      | Discrete graphics memory type  | GDDR7                |
| Product colour *                     | Grey                        | On-board graphics card *       | ✓                    |
| Form factor *                        | Clamshell                   | On-board GPU manufacturer      | Intel                |
| Market positioning                   | Performance                 | Discrete graphics card *       | ✓                    |
| Original brand name                  | MSI                         | On-board graphics card family  | Intel® Graphics      |
| Display                              |                             | On-board graphics card model * | Intel® Graphics      |
| Display diagonal *                   | 40.6 cm (16")               | Audio                          |                      |
| Display resolution *                 | 2560 x 1600 pixels          | Audio system                   | Nahimic 3            |
| Touchscreen *                        | ✗                           | Number of built-in speakers    | 2                    |
| HD type                              | Quad HD+                    | Speaker power                  | 2 W                  |
| Panel type                           | IPS-Level                   | Camera                         |                      |
| Native aspect ratio                  | 16:10                       | Front camera                   | ✓                    |
| Anti-glare screen                    | ✓                           | Front camera resolution        | 1920 x 1080 pixels   |
| RGB colour space                     | DCI-P3                      | Front camera HD type           | Full HD              |
| Colour gamut                         | 100%                        | Video capturing speed          | 30 fps               |
| Maximum refresh rate                 | 240 Hz                      | Infrared (IR) camera           | ✓                    |
| Processor                            |                             | Privacy camera                 | ✓                    |
| Processor manufacturer *             | Intel                       | Privacy type                   | Privacy shutter      |
| Processor family *                   | Intel Core Ultra 9          | Network                        |                      |
| Processor generation                 | Intel Core Ultra (Series 2) | Top Wi-Fi standard *           | Wi-Fi 6E (802.11ax)  |
| Processor model *                    | 275HX                       | Wi-Fi standards                | Wi-Fi 6E (802.11ax)  |
| Processor cores                      | 24                          | Mobile network connection *    | ✗                    |
| Processor threads                    | 24                          | WLAN controller model          | Intel Wi-Fi 6E AX211 |
| Processor boost frequency            | 5.4 GHz                     | Ethernet LAN                   | ✓                    |
| Performance cores                    | 8                           | Ethernet LAN data rates        | 2500 Mbit/s          |
| Efficient cores                      | 16                          | Bluetooth                      | ✓                    |
| Performance-core Max Turbo Frequency | 5.4 GHz                     | Bluetooth version              | 5.3                  |
| Efficient-core Max Turbo Frequency   | 4.6 GHz                     |                                |                      |
| Performance-core base frequency      | 2.7 GHz                     |                                |                      |

| Processor                               |                                                | Ports & interfaces                    |                 |
|-----------------------------------------|------------------------------------------------|---------------------------------------|-----------------|
| Efficient-core base frequency           | 2.1 GHz                                        | Ethernet LAN (RJ-45) ports            | 1               |
| Processor cache                         | 36 MB                                          | HDMI ports quantity *                 | 1               |
| Processor base power                    | 55 W                                           | HDMI version                          | 2.1             |
| Maximum turbo power                     | 160 W                                          | Thunderbolt 5 ports quantity          | 2               |
| Neural processor unit (NPU)             |                                                | Intel® Thunderbolt 5                  | ✓               |
| Neural processor unit (NPU)             | Intel AI Boost                                 | Combo headphone/mic port              | ✓               |
| Sparsity support                        | ✓                                              | Performance                           |                 |
| Windows Studio effects support          | ✓                                              | Motherboard chipset                   | Intel HM870     |
| AI software frameworks supported by NPU | DirectML, OpenVINO, Windows ML, ONNX RT, WebNN | Keyboard                              |                 |
| Total processor performance up to       | 36 TOPs                                        | Pointing device                       | Touchpad        |
| NPU performance up to                   | 13 TOPs                                        | Numeric keypad *                      | ✓               |
| GPU performance up to                   | 8 TOPs                                         | Keyboard backlit                      | ✓               |
| Memory                                  |                                                | Keyboard backlit colour               | RGB             |
| Internal memory *                       | 32 GB                                          | Keyboard backlit zone                 | 24-zone RGB     |
| Internal memory type                    | DDR5-SDRAM                                     | Copilot key                           | ✓               |
| Memory clock speed                      | 5600 MHz                                       | Software                              |                 |
| Memory slots                            | 2x SO-DIMM                                     | Operating system installed *          | Windows 11 Home |
| Maximum internal memory *               | 96 GB                                          | Battery                               |                 |
| Storage                                 |                                                | Number of battery cells               | 4               |
| Total storage capacity *                | 1 TB                                           | Battery capacity *                    | 90 Wh           |
| Storage media *                         | SSD                                            | Power                                 |                 |
| Total SSDs capacity                     | 1 TB                                           | AC adapter power                      | 330 W           |
| Number of SSDs installed                | 1                                              | USB Type-C charging port *            | ✗               |
| SSD capacity                            | 1 TB                                           | USB Power Delivery (USB PD)           | ✓               |
| SSD interface                           | PCI Express 4.0                                | Security                              |                 |
| NVMe                                    | ✓                                              | Cable lock slot                       | ✓               |
| SSD form factor                         | M.2                                            | Cable lock slot type                  | Kensington      |
| Optical drive type *                    | ✗                                              | Trusted Platform Module (TPM)         | ✓               |
| Card reader integrated                  | ✓                                              | Trusted Platform Module (TPM) version | 2.0             |
| Compatible memory cards                 | SD                                             | Sustainability                        |                 |
| Graphics                                |                                                | Sustainability certificates           | EPEAT Silver    |
| Discrete GPU manufacturer               | NVIDIA                                         | Weight & dimensions                   |                 |
| Discrete graphics card model *          | NVIDIA GeForce RTX 5080                        | Width                                 | 357 mm          |
|                                         |                                                | Depth                                 | 284 mm          |
|                                         |                                                | Height (front)                        | 2.22 cm         |
|                                         |                                                | Height (rear)                         | 2.85 cm         |
|                                         |                                                | Weight *                              | 2.7 kg          |
|                                         |                                                | Packaging content                     |                 |
|                                         |                                                | AC adapter included *                 | ✓               |



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### Catalog Object Cloud



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