# MSI Cyborg 15 A13VE-218US Intel® Core™ i7 i7-13620H Computadora portátil 39.6 cm (15.6") Full HD 16 GB DDR5-SDRAM 512 GB SSD NVIDIA GeForce RTX 4050 Wi-Fi 6 (802.11ax) Windows 11 Home Negro

**Marca :** MSI

**Familia de productos:** Cyborg

**Código del producto:** CYBORG 15 A13VE-218US

**Nombre del producto :**
Cyborg 15 A13VE-218US

MSI Cyborg 15 A13VE-218US. Tipo de producto: Computadora portátil, Factor de forma: Concha. Familia de procesador: Intel® Core™ i7, Modelo del procesador: i7-13620H. Diagonal de la pantalla: 39.6 cm (15.6"), Tipo HD: Full HD, Resolución de la pantalla: 1920 x 1080 Pixeles. Memoria interna: 16 GB, Tipo de memoria interna: DDR5-SDRAM. Capacidad total de almacenaje: 512 GB, Unidad de almacenamiento: SSD. Modelo de gráficos en tarjeta: Intel® UHD Graphics, Modelo de adaptador de gráficos discretos: NVIDIA GeForce RTX 4050. Sistema operativo instalado: Windows 11 Home. Color del producto: Negro

| Design | |
|---|---|
| Colour name | Translucent Black |
| Product type * | Laptop |
| Product colour * | Black |
| Form factor * | Clamshell |
| Market positioning | Gaming |

| Display | |
|---|---|
| Display diagonal * | 39.6 cm (15.6") |
| Display resolution * | 1920 x 1080 pixels |
| Touchscreen * | ✗ |
| HD type | Full HD |
| LED backlight | ✓ |
| Native aspect ratio | 16:9 |
| RGB colour space | NTSC |
| Colour gamut | 45% |
| Maximum refresh rate | 144 Hz |

| Processor | |
|---|---|
| Processor manufacturer * | Intel |
| Processor family * | Intel® Core™ i7 |
| Processor generation | 13th gen Intel® Core™ i7 |
| Processor model * | i7-13620H |
| Processor cores | 10 |
| Processor boost frequency | 4.9 GHz |
| Performance cores | 6 |
| Efficient cores | 4 |
| Performance-core Max Turbo Frequency | 4.9 GHz |
| Efficient-core Max Turbo Frequency | 3.6 GHz |
| Efficient-core boost frequency | 3.6 GHz |

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

| Camera | |
|---|---|
| Front camera | ✓ |
| Front camera HD type | HD |
| Video capturing speed | 30 fps |

| Network | |
|---|---|
| Top Wi-Fi standard * | Wi-Fi 6 (802.11ax) |
| Wi-Fi standards | Wi-Fi 6 (802.11ax) |
| Mobile network connection * | ✗ |
| Antenna type | 2x2 |
| WLAN controller model | Intel Wi-Fi 6 AX201 |
| WLAN controller manufacturer | Intel |
| Ethernet LAN | ✓ |
| Ethernet LAN data rates | 10,100,1000 Mbit/s |
| Bluetooth | ✓ |
| Bluetooth version | 5.2 |

| Ports & interfaces | |
|---|---|
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 2 |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity * | 1 |
| Ethernet LAN (RJ-45) ports | 1 |
| HDMI ports quantity * | 1 |

| Processor | |
|---|---|
| Processor cache | 24 MB |
| Processor cache type | Smart Cache |
| Configurable TDP-down | 35 W |
| Processor base power | 45 W |
| Maximum turbo power | 115 W |

| Memory | |
|---|---|
| Internal memory * | 16 GB |
| Internal memory type | DDR5-SDRAM |
| Memory clock speed | 5200 MHz |
| Memory form factor | SO-DIMM |
| Memory layout (slots x size) | 2 x 8 GB |
| Memory slots | 2x SO-DIMM |
| Maximum internal memory * | 64 GB |

| Storage | |
|---|---|
| Total storage capacity * | 512 GB |
| Storage media * | SSD |
| Total SSDs capacity | 512 GB |
| Number of SSDs installed | 1 |
| SSD capacity | 512 GB |
| SSD interface | PCI Express 4.0 |
| NVMe | ✔ |
| SSD form factor | M.2 |
| Optical drive type * | ✘ |

| Graphics | |
|---|---|
| Discrete GPU manufacturer | NVIDIA |
| Discrete graphics card model * | NVIDIA GeForce RTX 4050 |
| Discrete graphics card memory | 6 GB |
| Discrete graphics memory type | GDDR6 |
| On-board graphics card * | ✔ |
| On-board GPU manufacturer | Intel |
| Discrete graphics card * | ✔ |
| On-board graphics card family | Intel® UHD Graphics |
| On-board graphics card model * | Intel® UHD Graphics |

| Ports & interfaces | |
|---|---|
| HDMI version | 2.1 |
| Combo headphone/mic port | ✔ |
| USB Type-C DisplayPort Alternate Mode | ✔ |

| Performance | |
|---|---|
| Motherboard chipset | Intel HM670 |

| Keyboard | |
|---|---|
| Pointing device | Touchpad |
| Numeric keypad * | ✔ |
| Keyboard backlit | ✔ |
| Keyboard backlit colour | Blue |
| Island-style keyboard | ✔ |

| Software | |
|---|---|
| Operating system installed * | Windows 11 Home |

| Processor special features | |
|---|---|
| Intel Flex Memory Access | ✔ |
| Intel VT-x with Extended Page Tables (EPT) | ✔ |
| Execute Disable Bit | ✔ |
| CPU configuration (max) | 1 |
| Embedded options available | ✘ |
| Intel Virtualization Technology for Directed I/O (VT-d) | ✔ |
| Intel Virtualization Technology (VT-x) | ✔ |

| Battery | |
|---|---|
| Battery technology | Lithium Polymer (LiPo) |
| Number of battery cells | 3 |
| Battery capacity * | 53.5 Wh |

| Power | |
|---|---|
| AC adapter power | 120 W |
| DC-in jack | ✔ |

| Security | |
|---|---|
| Cable lock slot | ✔ |
| Cable lock slot type | Kensington |

| Weight & dimensions | |
|---|---|
| Width | 359.4 mm |
| Depth | 250.3 mm |
| Height (front) | 2.19 cm |
| Height (rear) | 2.29 cm |
| Weight * | 1.98 kg |

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