



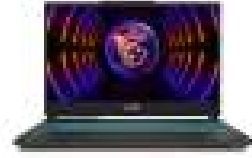
# MSI Cyborg 15 A12VE-401BE Intel® Core™ i5 i5-12450H Laptop 39.6 cm (15.6") Full HD 16 GB DDR4-SDRAM 512 GB SSD NVIDIA GeForce RTX 4050 Wi-Fi 6 (802.11ax) Windows 11 Home Black

**Brand :** MSI

**Product family:** Cyborg

**Product code:** CYBORG 15  
A12VE-401BE

**Product name :** Cyborg 15  
A12VE-401BE



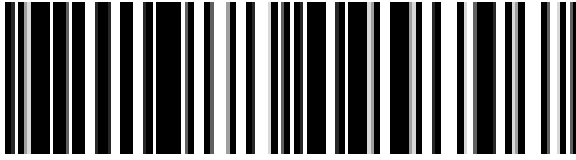
- Windows 11 Home
  - Intel Core i5-12450H (12MB Cache)
  - 39.6 cm (15.6") Full HD 1920 x 1080, NVIDIA GeForce RTX 4050 (6GB GDDR6)
  - 16GB (4800MHz) DDR4-SDRAM (2 x 8) & 512GB SSD
- Intel Core i5-12450H (12MB Cache), 16GB DDR4-SDRAM, 512GB SSD, 39.6 cm (15.6") Full HD 1920 x 1080, Intel UHD Graphics, NVIDIA GeForce RTX 4050 (6GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home

MSI Cyborg 15 A12VE-401BE. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-12450H. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics, Discrete graphics card model: NVIDIA GeForce RTX 4050. Operating system installed: Windows 11 Home. Product colour: Black



Design		Graphics	
Colour name	Translucent Black	Graphics card Open GL support	✓
Product type *	Laptop	Audio	
Product colour *	Black	Audio system	Nahimic 3
Form factor *	Clamshell	Number of built-in speakers	2
Market positioning	Gaming	Speakers manufacturer	Nahimic
Display		Speaker power	2 W
Display diagonal *	39.6 cm (15.6")	Built-in microphone	✓
Display resolution *	1920 x 1080 pixels	Camera	
Touchscreen *	✗	Front camera	✓
HD type	Full HD	Front camera HD type	HD
LED backlight	✓	Video capturing speed	30 fps
Native aspect ratio	16:9	Network	
Display brightness	250 cd/m <sup>2</sup>	Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
Maximum refresh rate	144 Hz	Wi-Fi standards	Wi-Fi 6 (802.11ax)
Processor		Mobile network connection *	✗
Processor manufacturer *	Intel	WLAN controller model	Intel Wi-Fi 6 AX201
Processor family *	Intel® Core™ i5	WLAN controller manufacturer	Intel
Processor generation	12th gen Intel® Core™ i5	Ethernet LAN	✓
Processor model *	i5-12450H	Ethernet LAN data rates	10,100,1000 Mbit/s
Processor cores	8	Bluetooth	✓
Processor boost frequency	4.4 GHz	Bluetooth version	5.2
Performance cores	4	Ports & interfaces	
Efficient cores	4	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Performance-core Max Turbo Frequency	4.4 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Efficient-core Max Turbo Frequency	3.3 GHz	Ethernet LAN (RJ-45) ports	1
Efficient-core boost frequency	3.5 GHz	HDMI ports quantity *	1
Processor cache	12 MB		

<b>Processor</b>		<b>Ports &amp; interfaces</b>	
Processor cache type	Smart Cache	Combo headphone/mic port	✓
Configurable TDP-down	35 W	Charging port type	DC-in jack
Processor base power	45 W	USB Type-C DisplayPort Alternate Mode	✓
Maximum turbo power	95 W		
<b>Memory</b>		<b>Performance</b>	
Internal memory *	16 GB	Motherboard chipset	Intel HM670
Internal memory type	DDR4-SDRAM		
Memory clock speed	4800 MHz	<b>Keyboard</b>	
Memory form factor	SO-DIMM	Pointing device	Touchpad
Memory layout (slots x size)	2 x 8 GB	Numeric keypad *	✓
Memory slots	2x SO-DIMM	Keyboard backlit	✓
Maximum internal memory *	64 GB	Keyboard backlit colour	Blue
		Island-style keyboard	✓
<b>Storage</b>		<b>Software</b>	
Total storage capacity *	512 GB	Operating system installed *	Windows 11 Home
Storage media *	SSD		
Total SSDs capacity	512 GB	<b>Processor special features</b>	
Number of SSDs installed	1	Intel Flex Memory Access	✓
SSD capacity	512 GB	Intel VT-x with Extended Page Tables (EPT)	✓
SSD interface	PCI Express 4.0	Execute Disable Bit	✓
NVMe	✓	CPU configuration (max)	1
SSD form factor	M.2	Embedded options available	✗
Optical drive type *	✗	Intel Virtualization Technology for Directed I/O (VT-d)	✓
		Intel Virtualization Technology (VT-x)	✓
<b>Graphics</b>		<b>Battery</b>	
Discrete GPU manufacturer	NVIDIA	Number of battery cells	3
Discrete graphics card model *	NVIDIA GeForce RTX 4050	Battery capacity *	53.5 Wh
Discrete graphics card memory	6 GB		
Discrete graphics memory type	GDDR6	<b>Power</b>	
On-board graphics card *	✓	AC adapter power	120 W
On-board GPU manufacturer	Intel		
Discrete graphics card *	✓	<b>Security</b>	
On-board graphics card family	Intel® UHD Graphics	Cable lock slot	✓
On-board graphics card model *	Intel® UHD Graphics	Cable lock slot type	Kensington
On-board graphics card 4K support	✓		
		<b>Weight &amp; dimensions</b>	
		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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