



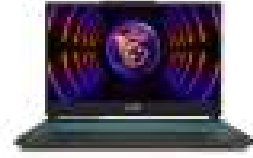
MSI Cyborg 15 A12VE-696BE Intel® Core™ i7 i7-12650H Laptop 39.6 cm (15.6") Full HD 16 GB DDR5-SDRAM 512 GB SSD NVIDIA GeForce RTX 4050 Wi-Fi 6 (802.11ax) Windows 11 Home Black

Brand : MSI

Product family: Cyborg

Product code: CYBORG 15
A12VE-696BE

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A12VE-696BE



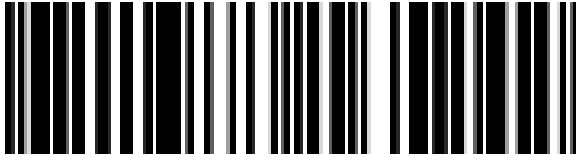
- Windows 11 Home
 - Intel Core i7-12650H (24MB Cache)
 - 39.6 cm (15.6") Full HD 1920 x 1080, NVIDIA GeForce RTX 4050 (6GB GDDR6)
 - 16GB (5600MHz) DDR5-SDRAM (2 x 8) & 512GB SSD
- Intel Core i7-12650H (24MB Cache), 16GB DDR5-SDRAM, 512GB SSD, 39.6 cm (15.6") Full HD 1920 x 1080, Intel UHD Graphics, NVIDIA GeForce RTX 4050 (6GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home

MSI Cyborg 15 A12VE-696BE. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-12650H. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 16 GB, Internal memory type: DDR5-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	On-board graphics card 4K support	✓
Product type *	Laptop	Graphics card Open GL support	✓
Product colour *	Black	Audio	
Form factor *	Clamshell	Audio system	Nahimic 3
Market positioning	Gaming	Number of built-in speakers	2
Display		Speakers manufacturer	Nahimic
Display diagonal *	39.6 cm (15.6")	Speaker power	2 W
Display resolution *	1920 x 1080 pixels	Built-in microphone	✓
Touchscreen *	✗	Camera	
HD type	Full HD	Front camera	✓
LED backlight	✓	Front camera HD type	HD
Native aspect ratio	16:9	Video capturing speed	30 fps
Display brightness	250 cd/m ²	Network	
Maximum refresh rate	144 Hz	Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
Processor		Wi-Fi standards	Wi-Fi 6 (802.11ax)
Processor manufacturer *	Intel	Mobile network connection *	✗
Processor family *	Intel® Core™ i7	WLAN controller model	Intel Wi-Fi 6 AX201
Processor generation	12th gen Intel® Core™ i7	WLAN controller manufacturer	Intel
Processor model *	i7-12650H	Ethernet LAN	✓
Processor cores	10	Ethernet LAN data rates	10,100,1000 Mbit/s
Processor boost frequency	4.7 GHz	Bluetooth	✓
Performance cores	6	Bluetooth version	5.2
Efficient cores	4	Ports & interfaces	
Performance-core Max Turbo Frequency	4.7 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Efficient-core Max Turbo Frequency	3.5 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Efficient-core boost frequency	3.5 GHz	Ethernet LAN (RJ-45) ports	1
Processor cache	24 MB		

Processor		Ports & interfaces	
Processor cache type	Smart Cache	HDMI ports quantity *	1
Processor base power	45 W	Combo headphone/mic port	✓
Maximum turbo power	115 W	Charging port type	DC-in jack
Memory		USB Type-C DisplayPort Alternate Mode	✓
Internal memory *	16 GB	Performance	
Internal memory type	DDR5-SDRAM	Motherboard chipset	Intel HM670
Memory clock speed	5600 MHz	Keyboard	
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
Storage		Island-style keyboard	✓
Total storage capacity *	512 GB	Software	
Storage media *	SSD	Operating system installed *	Windows 11 Home
Total SSDs capacity	512 GB	MSI System Control Manager MSI BurnRecovery MSI Remind Manager MSI Battery Calibration MSI Help Desk Norton Internet Security (trial 60days) Norton Studio (Metro) (permanent free) Nvidia GeForce Experience Microsoft Office 2016 (trial 30 days, 1 year per purchase) True Color 2.0 Nahimic 3 Dragon Center 2.0	
Number of SSDs installed	1	Bundled software	
SSD capacity	512 GB		
SSD interface	PCI Express 4.0		
NVMe	✓		
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		
		Battery	
		Number of battery cells	3
		Battery capacity *	53.5 Wh
		Power	
		AC adapter power	120 W
		Security	
		Cable lock slot	✓
		Cable lock slot type	Kensington
		Weight & dimensions	
		Width	359 mm
		Depth	250 mm
		Height	22.9 mm
		Weight *	1.98 kg



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