MSI Cyborg 15 A12VE-299BE 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 Zwart

Productfamilie: Cyborg Artikelcode: CYBORG 15 Merk: MSI

A12VE-299BE

Productnaam: Cyborg 15

A12VE-299BE

- 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 (4800MHz) DDR4-SDRAM (2 x 8) & 512GB SSD

Intel Core i7-12650H (24MB Cache), 16GB DDR4-SDRAM, 512GB SSD, 39.6 cm (15.6") Full HD 1920 \times 1080, Intel UHD Graphics, NVIDIA GeForce RTX 4050 (6GB GDDR6), LAN, WLAN, Webcam, Windows 11

MSI Cyborg 15 A12VE-299BE. Producttype: Laptop, Form factor: Clamshell. Processorfamilie: Intel® Core™ i7, Processormodel: i7-12650H. Beeldschermdiagonaal: 39,6 cm (15.6"), HD type: Full HD, Resolutie: 1920 x 1080 Pixels. Intern geheugen: 16 GB, Intern geheugentype: DDR5-SDRAM. Totale opslagcapaciteit: 512 GB, Opslagmedia: SSD. On-board graphics adapter model: Intel® UHD Graphics, Discreet grafische adapter model: NVIDIA GeForce RTX 4050. Inclusief besturingssysteem: Windows 11 Home. Kleur van het product: Zwart





Design		Graphics	
Colour name	Black Clamshell Gaming	Graphics card Open GL support	✓
Product type *		Audio	
Product colour * Form factor * Market positioning		Audio system Number of built-in speakers Speakers manufacturer	Nahimic 3 2 Nahimic
Display		Speaker power	2 W
Display diagonal * Display resolution *	39.6 cm (15.6") 1920 x 1080 pixels	Built-in microphone	✓
Touchscreen *	X	Camera	
HD type LED backlight Native aspect ratio	Full HD 16:9	Front camera Front camera HD type Video capturing speed	✓HD30 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 * Processor family * Processor generation Processor model * Processor cores Processor boost frequency Performance cores	Intel® Core™ i7 12th gen Intel® Core™ i7 i7-12650H 10 4.7 GHz 6	Mobile network connection * WLAN controller model WLAN controller manufacturer Ethernet LAN Ethernet LAN data rates Bluetooth Bluetooth version	X Intel Wi-Fi 6 AX201 Intel ✓ 10,100,1000 Mbit/s ✓ 5.2
Efficient cores	4	Ports & interfaces	J
Performance-core Max Turbo Frequency Efficient-core Max Turbo Frequency Efficient-core boost frequency	4.7 GHz 3.5 GHz 3.5 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	2
Processor cache	24 MB	Ethernet LAN (RJ-45) ports	1

Processor		Ports & interfaces	
Processor cache type Configurable TDP-down Processor base power Maximum turbo power	Smart Cache 35 W 45 W 115 W	HDMI ports quantity * HDMI version Combo headphone/mic port Charging port type	1 2.1 ✓ DC-in jack
Memory		USB Type-C DisplayPort Alternate Mode	✓
Internal memory * Internal memory type Memory clock speed Memory form factor Memory layout (slots x size) Memory slots Maximum internal memory *	16 GB DDR5-SDRAM 4800 MHz SO-DIMM 2 x 8 GB 2x SO-DIMM 64 GB	Performance Motherboard chipset	Intel HM670
		Keyboard	
		Pointing device Numeric keypad *	Touchpad 🗸
Storage		Keyboard backlit Keyboard backlit colour	✓ Blue
Total storage capacity * Storage media * Total SSDs capacity Number of SSDs installed SSD capacity	512 GB SSD 512 GB 1 512 GB PCI Express 4.0	Island-style keyboard	✓
		Software	
		Operating system installed *	Windows 11 Home
		Processor special features	
SSD interface		Intel Flex Memory Access	✓
NVMe SSD form factor	✓ M.2	Intel VT-x with Extended Page Tables (EPT)	✓
Optical drive type *	X	Execute Disable Bit	✓
Graphics		CPU configuration (max)	1
Discrete GPU manufacturer	NVIDIA NVIDIA GeForce RTX 4050 6 GB GDDR6	Embedded options available	X
Discrete graphics card model * Discrete graphics card memory Discrete graphics memory type		Intel Virtualization Technology for Directed I/O (VT-d)	✓
		Intel Virtualization Technology (VT-x)	•
On-board graphics card * On-board GPU manufacturer	✓ Intel	Battery	
Discrete graphics card * On-board graphics card family	✓ Intel® UHD Graphics	Number of battery cells Battery capacity *	3 53.5 Wh
On-board graphics card model *	Intel® UHD Graphics	Power	
On-board graphics card 4K support		AC adapter power	120 W
		Security	
		Cable lock slot	✓
		Cable lock slot type	Kensington
		Weight & dimensions	
		Width	359.4 mm
		Depth	250.3 mm
		Height (front) Height (rear)	2.19 cm 2.29 cm
		Weight *	1.98 kg
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