

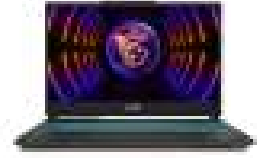
# MSI Cyborg 15 A12VE-698BE Intel® Core™ i5 i5-12450H Laptop 39,6 cm (15.6") Full HD 16 GB DDR5-SDRAM 512 GB SSD NVIDIA GeForce RTX 4050 Wi-Fi 6 (802.11ax) Windows 11 Home Zwart

**Merk :** MSI

**Productfamilie:** Cyborg

**Artikelcode:** CYBORG 15  
A12VE-698BE

**Productnaam :** Cyborg 15  
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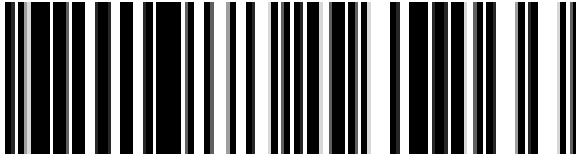


- Windows 11 Home
- Intel Core i5-12450H (12MB Cache)
- 39.6 cm (15.6") Full HD 1920 x 1080, NVIDIA GeForce RTX 4050 (6GB GDDR6)
- 16GB (5600MHz) DDR5-SDRAM (2 x 8) & 512GB SSD
- Intel Core i5-12450H (12MB Cache), 16GB DDR5-SDRAM, 512GB SSD, 39.6 cm (15.6") Full HD 1920 x 1080, Intel UHD Graphics, NVIDIA GeForce RTX 4050 (6GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home

MSI Cyborg 15 A12VE-698BE. Producttype: Laptop, Form factor: Clamshell. Processorfamilie: Intel® Core™ i5, Processormodel: i5-12450H. 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		Grafisch	
Kleurnaam	Translucent Black	4K-ondersteuning	✓
Producttype *	Laptop	Videokaart, ondersteuning Open GL	✓
Kleur van het product *	Zwart	<b>Audio</b>	
Vormfactor *	Clamshell	Audiosysteem	Nahimic 3
Markt positionering	Gamen	Aantal ingebouwde luidsprekers	2
<b>Beeldscherm</b>		Merk luidsprekers	Nahimic
Beeldschermdiagonaal *	39,6 cm (15.6")	Vermogen luidsprekers	2 W
Resolutie *	1920 x 1080 Pixels	Ingebouwde microfoon	✓
Touchscreen *	✗	<b>Camera</b>	
HD type	Full HD	Camera voorzijde	✓
LED backlight	✓	Voorcamera HD-type	HD
Oorspronkelijke beeldverhouding	16:9	Video capturing speed	30 fps
Helderheid	250 cd/m <sup>2</sup>	<b>Netwerk</b>	
Maximale refresh snelheid	144 Hz	Wifi-standaard *	Wi-Fi 6 (802.11ax)
<b>Processor</b>		Wi-Fi-standaarden	Wi-Fi 6 (802.11ax)
Processorfabrikant *	Intel	Mobiele netwerkverbinding *	✗
Processorfamilie *	Intel® Core™ i5	WLAN-controller-model	Intel Wi-Fi 6 AX201
Processorgeneratie	Intel® 12de generatie Core™ i5	Fabrikant van de WLAN-controller	Intel
Processormodel *	i5-12450H	Ethernet LAN	✓
Aantal processorkernen	8	Ethernet LAN, data-overdrachtsnelheden	10,100,1000 Mbit/s
Maximale turbofrequentie van processor	4,4 GHz	Bluetooth	✓
Prestatiekernen	4	Bluetooth-versie	5.2
Efficiënte kernen	4	<b>Poorten &amp; interfaces</b>	
Performance-core Max Turbo Frequency	4,4 GHz	Aantal poorten USB 3.2 Gen 1 (3.1 Gen 1) Type A *	2
Efficient-core Max Turbo Frequency	3,3 GHz	Aantal poorten USB 3.2 Gen 1 (3.1 Gen 1) Type C *	1
Efficiënte kernboostfrequentie	3,5 GHz		
Processor cache	12 MB		

<b>Processor</b>		<b>Poorten &amp; interfaces</b>	
Processor cache type	Smart Cache	Aantal Ethernet LAN (RJ-45)-poorten	1
Processor basisvermogen	45 W	Aantal HDMI-poorten *	1
Maximaal turbovermogen	95 W	Combo koptelefoon/microfoon port	✓
<b>Geheugen</b>		Charging port type	DC-in ingang
Intern geheugen *	16 GB	USB Type-C DisplayPort alternatieve modus	✓
Intern geheugentype	DDR5-SDRAM	<b>Prestatie</b>	
Kloksnelheid geheugen	5600 MHz	Chipset moederbord	Intel HM670
Geheugen form factor	SO-DIMM	<b>Toetsenbord</b>	
Geheugenlayout	2 x 8 GB	Aanwijsapparaat	Touchpad
Geheugenslots	2x SO-DIMM	Numeriek toetsenblok *	✓
Maximum intern geheugen *	64 GB	Keyboard met achtergrondverlichting	✓
<b>Opslagmedia</b>		Kleur achtergrondverlichting van toetsenbord	Blauw
Totale opslagcapaciteit *	512 GB	Eiland-stijl keyboard	✓
Opslagmedia *	SSD	<b>Software</b>	
Totale capaciteit SSD's	512 GB	Inclusief besturingssysteem *	Windows 11 Home
Aantal geïnstalleerde SSD's	1	Meegeleverde software	MSI System Control Manager MSI BurnRecovery MSI Remind Manager MSI Battery Calibration MSI Help Desk Norton Internet Security (trail 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
Solid State Drive (SSD) capaciteit	512 GB		
Solid State Drive (SSD) interfaces	PCI Express 4.0		
NVMe	✓		
Soort optische drive *	✗		
<b>Grafisch</b>			
Fabrikant van aparte grafische adapter	NVIDIA		
Discreet grafische adapter model *	NVIDIA GeForce RTX 4050		
Discreet grafische adaptergeheugen	6 GB		
Specifiek grafisch geheugentype	GDDR6		
Ingebouwde grafische adapter *	✓		
Interne-GPU-fabrikant	Intel		
Aparte grafische adapter *	✓		
Familie ingebouwde grafische adapter	Intel® UHD Graphics		
On-board graphics adapter model *	Intel® UHD Graphics		
		<b>Accu/Batterij</b>	
		Aantal cellen in de batterij	3
		Accu/Batterij capaciteit *	53,5 Wh
		<b>Energie</b>	
		AC-adapter, vermogen	120 W
		<b>Beveiliging</b>	
		Bevestigingsmogelijkheid voor kabelslot	✓
		Kabelslot sleuf type	Kensington
		<b>Gewicht en omvang</b>	
		Breedte	359 mm
		Diepte	250 mm
		Hoogte	22,9 mm
		Gewicht *	1,98 kg



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