



## MSI Cyborg 15 A12VE-298NL 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

Merk : MSI

Productfamilie: Cyborg

Artikelcode: CYBORG 15  
A12VE-298NL



Productnaam : 15  
A12VE-298NL

- 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) 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-298NL. Type product: Laptop, Vormfactor: 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		Camera	
Kleurnaam	Translucent Black	Camera voorzijde	✓
Type product *	Laptop	Voorcamera HD-type	HD
Kleur van het product *	Zwart	Video capturing speed	30 fps
Vormfactor *	Clamshell	<b>Netwerk</b>	
Markt positionering	Gamen	Wifi-standaard *	Wi-Fi 6 (802.11ax)
<b>Beeldscherm</b>		Wi-Fi-standaarden	Wi-Fi 6 (802.11ax)
Beeldschermdiagonaal *	39,6 cm (15.6")	Mobiele netwerkverbinding *	✗
Resolutie *	1920 x 1080 Pixels	WLAN-controller-model	Intel Wi-Fi 6 AX201
Touchscreen *	✗	Fabrikant van de WLAN-controller	Intel
HD type	Full HD	Ethernet LAN	✓
LED backlight	✓	Ethernet LAN, data-overdrachtsnelheden	10,100,1000 Mbit/s
Oorspronkelijke beeldverhouding	16:9	Bluetooth	✓
Helderheid	250 cd/m <sup>2</sup>	Bluetooth-versie	5.2
Maximale refresh snelheid	144 Hz	<b>Poorten &amp; interfaces</b>	
<b>Processor</b>		Aantal poorten USB 3.2 Gen 1 (3.1 Gen 1) Type A *	2
Processorfabrikant *	Intel	Aantal poorten USB 3.2 Gen 1 (3.1 Gen 1) Type C *	1
Processorfamilie *	Intel® Core™ i7	Aantal Ethernet LAN (RJ-45)-poorten	1
Processorgeneratie	Intel® 12de generatie Core™ i7	Aantal HDMI-poorten *	1
Processormodel *	i7-12650H	Combo koptelefoon/microfoon port	✓
Aantal processorkernen	10	Charging port type	DC-in ingang
Maximale turbofrequentie van processor	4,7 GHz	USB Type-C DisplayPort alternatieve modus	✓
Efficiënte kernboostfrequentie	3,5 GHz	<b>Prestatie</b>	
Processor cache	24 MB	Chipset moederbord	Intel HM670
Processor cache type	Smart Cache		
Configureerbare TDP-down	35 W		
Processor basisvermogen	45 W		
Maximaal turbovermogen	115 W		

<b>Geheugen</b>		<b>Toetsenbord</b>	
Intern geheugen *	16 GB	Aanwijsapparaat	Touchpad
Intern geheugentype	DDR5-SDRAM	Numeriek toetsenblok *	✓
Kloksnelheid geheugen	4800 MHz	Keyboard met achtergrondverlichting	✓
Geheugen form factor	SO-DIMM	Kleur achtergrondverlichting van toetsenbord	Blauw
Geheugenlayout	2 x 8 GB	Eiland-stijl keyboard	✓
Geheugenslots	2x SO-DIMM		
Maximum intern geheugen *	64 GB		
<b>Opslagmedia</b>		<b>Software</b>	
Totale opslagcapaciteit *	512 GB	Inclusief besturingssysteem *	Windows 11 Home
Opslagmedia *	SSD		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
Totale capaciteit SSD's	512 GB		
Aantal geïnstalleerde SSD's	1		
SSD capaciteit	512 GB	Meegeleverde software	
SSD interfaces	PCI Express 4.0		
NVMe	✓		
SSD-vormfactor	M.2		
Soort optische drive *	✗		
<b>Grafisch</b>		<b>Processor speciale functies</b>	
Fabrikant van aparte grafische adapter	NVIDIA	Intel® Flex Memory Access	✓
Discreet grafische adapter model *	NVIDIA GeForce RTX 4050	Intel® VT-x with Extended Page Tables (EPT)	✓
Grafische geheugen	6 GB	Execute Disable Bit	✓
Specifiek grafisch geheugentype	GDDR6	CPU configuratie (max)	1
Ingebouwde grafische adapter *	✓	Ingebouwde opties beschikbaar	✗
Interne-GPU-fabrikant	Intel	Intel® Virtualization Technology for Directed I/O (VT-d)	✓
Aparte grafische adapter *	✓	Intel® Virtualization Technology (VT-x)	✓
Familie ingebouwde grafische adapter	Intel® UHD Graphics		
On-board graphics adapter model *	Intel® UHD Graphics	<b>Accu/Batterij</b>	
4K-ondersteuning	✓	Aantal batterijcellen	3
Videokaart, ondersteuning Open GL	✓	Batterijcapaciteit *	53,5 Wh
<b>Audio</b>		<b>Energie</b>	
Audiosysteem	NAHIMIC 3	AC-adapter, vermogen	120 W
Aantal ingebouwde luidsprekers	2	<b>Beveiliging</b>	
Merk luidsprekers	Nahimic	Bevestigingsmogelijkheid voor kabelslot	✓
Vermogen luidsprekers	2 W	Kabelslot sleuf type	Kensington
Ingebouwde microfoon	✓	<b>Gewicht en omvang</b>	
		Breedte	359,4 mm
		Diepte	250,3 mm
		Hoogte (voorzijde)	2,19 cm
		Hoogte (achterzijde)	2,29 cm
		Gewicht *	1,98 kg



4711377099639

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.