



MSI Cyborg 15 A12VF-003NL Intel® Core™ i7 i7-12650H Laptop 39,6 cm (15.6") Full HD 16 GB DDR5-SDRAM 512 GB SSD NVIDIA GeForce RTX 4060 Wi-Fi 6 (802.11ax) Windows 11 Zwart

Merk : MSI

Productfamilie: Cyborg

Artikelcode: CYBORG 15
A12VF-003NL



Productnaam : 15
A12VF-003NL



- Windows 11

- Intel Core i7-12650H (24MB Cache)

- 39.6 cm (15.6") Full HD 1920 x 1080 IPS, NVIDIA GeForce RTX 4060 (8GB 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 IPS, Intel UHD Graphics, NVIDIA GeForce RTX 4060 (8GB GDDR6), LAN, WLAN, Webcam, Windows 11

MSI Cyborg 15 A12VF-003NL. 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 4060. Inclusief besturingssysteem: Windows 11. 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	Netwerk	
Markt positionering	Gamen	Wifi-standaard *	Wi-Fi 6 (802.11ax)
Beeldscherm		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 ²	Bluetooth-versie	5.2
Maximale refresh snelheid	144 Hz	Poorten & interfaces	
Processor		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	Prestatie	
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		

Geheugen		Toetsenbord	
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		
Opslagmedia		Software	
Totale opslagcapaciteit *	512 GB	Inclusief besturingssysteem *	Windows 11
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 *	✗		
Grafisch		Processor speciale functies	
Fabrikant van aparte grafische adapter	NVIDIA	Intel® Flex Memory Access	✓
Discreet grafische adapter model *	NVIDIA GeForce RTX 4060	Intel® VT-x with Extended Page Tables (EPT)	✓
Grafische geheugen	8 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	Accu/Batterij	
4K-ondersteuning	✓	Aantal batterijcellen	3
Videokaart, ondersteuning Open GL	✓	Batterijcapaciteit *	53,5 Wh
Audio		Energie	
Audiosysteem	NAHIMIC 3	AC-adapter, vermogen	120 W
Aantal ingebouwde luidsprekers	2	Beveiliging	
Merk luidsprekers	Nahimic	Bevestigingsmogelijkheid voor kabelslot	✓
Vermogen luidsprekers	2 W	Kabelslot sleuf type	Kensington
Ingebouwde microfoon	✓	Gewicht en omvang	
		Breedte	359,4 mm
		Diepte	250,3 mm
		Hoogte (voorzijde)	2,19 cm
		Hoogte (achterzijde)	2,29 cm
		Gewicht *	1,98 kg



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