



MSI Cyborg 15 A12VF-006NL Intel® Core™ i5 i5-12450H 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-006NL



Productnaam : 15
A12VF-006NL

- Windows 11
- Intel Core i5-12450H (12MB Cache)
- 39.6 cm (15.6") Full HD 1920 x 1080, NVIDIA GeForce RTX 4060 (8GB GDDR6)
- 16GB (4800MHz) 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 4060 (8GB GDDR6), LAN, WLAN, Webcam, Windows 11
MSI Cyborg 15 A12VF-006NL. Type product: Laptop, Vormfactor: 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 4060. Inclusief besturingssysteem: Windows 11. Kleur van het product: Zwart



Design		Audio	
Kleurnaam	Translucent Black	Vermogen luidsprekers	2 W
Type product *	Laptop	Ingebouwde microfoon	✓
Kleur van het product *	Zwart	Camera	
Vormfactor *	Clamshell	Camera voorzijde	✓
Markt positionering	Gamen	Voorcamera HD-type	HD
Beeldscherm		Video capturing speed	30 fps
Beeldschermdiagonaal *	39,6 cm (15.6")	Netwerk	
Resolutie *	1920 x 1080 Pixels	Wifi-standaard *	Wi-Fi 6 (802.11ax)
Touchscreen *	✗	Wi-Fi-standaarden	Wi-Fi 6 (802.11ax)
HD type	Full HD	Mobiele netwerkverbinding *	✗
Oorspronkelijke beeldverhouding	16:9	WLAN-controller-model	Intel Wi-Fi 6 AX201
Helderheid	250 cd/m ²	Fabrikant van de WLAN-controller	Intel
Maximale refresh snelheid	144 Hz	Ethernet LAN	✓
Processor		Ethernet LAN, data-overdrachtsnelheden	10,100,1000 Mbit/s
Processorfabrikant *	Intel	Bluetooth	✓
Processorfamilie *	Intel® Core™ i5	Bluetooth-versie	5.2
Processorgeneratie	Intel® 12de generatie Core™ i5	Poorten & interfaces	
Processormodel *	i5-12450H	Aantal poorten USB 3.2 Gen 1 (3.1 Gen 1) Type A *	2
Aantal processorkernen	8	Aantal poorten USB 3.2 Gen 1 (3.1 Gen 1) Type C *	1
Maximale turbofrequentie van processor	4,4 GHz	Aantal Ethernet LAN (RJ-45)-poorten	1
Efficiënte kernboostfrequentie	3,5 GHz	Aantal HDMI-poorten *	1
Processor cache	12 MB	Combo koptelefoon/microfoon port	✓
Processor cache type	Smart Cache	Charging port type	DC-in ingang
Configureerbare TDP-down	35 W	USB Type-C DisplayPort alternatieve modus	✓
Processor basisvermogen	45 W		
Maximaal turbovermogen	115 W		

Geheugen		Prestatie	
Intern geheugen *	16 GB	Chipset moederbord	Intel HM670
Intern geheugentype	DDR5-SDRAM	Toetsenbord	
Kloksnelheid geheugen	4800 MHz	Aanwijsapparaat	Touchpad
Geheugen form factor	SO-DIMM	Numeriek toetsenblok *	✓
Geheugenlayout	2 x 8 GB	Keyboard met achtergrondverlichting	✓
Geheugenslots	2x SO-DIMM	Kleur achtergrondverlichting van toetsenbord	Blauw
Maximum intern geheugen *	64 GB	Eiland-stijl keyboard	✓
Opslagmedia		Software	
Totale opslagcapaciteit *	512 GB	Inclusief besturingssysteem *	Windows 11
Opslagmedia *	SSD	Processor speciale functies	
Totale capaciteit SSD's	512 GB	Intel® Flex Memory Access	✓
Aantal geïnstalleerde SSD's	1	Intel® VT-x with Extended Page Tables (EPT)	✓
SSD capaciteit	512 GB	Execute Disable Bit	✓
SSD interfaces	PCI Express 4.0	CPU configuratie (max)	1
NVMe	✓	Ingebouwde opties beschikbaar	✗
SSD-vormfactor	M.2	Intel® Virtualization Technology for Directed I/O (VT-d)	✓
Soort optische drive *	✗	Intel® Virtualization Technology (VT-x)	✓
Grafisch		Accu/Batterij	
Fabrikant van aparte grafische adapter	NVIDIA	Aantal batterijcellen	3
Discreet grafische adapter model *	NVIDIA GeForce RTX 4060	Batterijcapaciteit *	53,5 Wh
Grafische geheugen	8 GB	Energie	
Specifiek grafisch geheugentype	GDDR6	AC-adapter, vermogen	120 W
Ingebouwde grafische adapter *	✓	Beveiliging	
Interne-GPU-fabrikant	Intel	Bevestigingsmogelijkheid voor kabelslot	✓
Aparte grafische adapter *	✓	Kabelslot sleuf type	Kensington
Familie ingebouwde grafische adapter	Intel® UHD Graphics	Gewicht en omvang	
On-board graphics adapter model *	Intel® UHD Graphics	Breedte	359,4 mm
4K-ondersteuning	✓	Diepte	250,3 mm
Videokaart, ondersteuning Open GL	✓	Hoogte (voorzijde)	2,19 cm
Audio		Hoogte (achterzijde)	2,29 cm
Audiosysteem	Nahimic 3	Gewicht *	1,98 kg
Aantal ingebouwde luidsprekers	2		
Merk luidsprekers	Nahimic		



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