



**MSI Cyborg 15 A12VF-043US Intel® Core™ i7 i7-12650H**  
**Computadora portátil 39.6 cm (15.6") Full HD 8 GB DDR5-SDRAM**  
**512 GB SSD NVIDIA GeForce RTX 4060 Wi-Fi 6 (802.11ax) Windows**  
**11 Home Negro**

Marca : MSI

Familia de productos: Cyborg Código del producto: CYBORG  
15 A12VF-043US

Nombre del producto : 15  
A12VF-043US

MSI Cyborg 15 A12VF-043US. Tipo de producto: Computadora portátil, Factor de forma: Concha. Familia de procesador: Intel® Core™ i7, Modelo del procesador: i7-12650H. Diagonal de la pantalla: 39.6 cm (15.6"), Tipo HD: Full HD, Resolución de la pantalla: 1920 x 1080 Píxeles. Memoria interna: 8 GB, Tipo de memoria interna: DDR5-SDRAM. Capacidad total de almacenaje: 512 GB, Unidad de almacenamiento: SSD. Modelo de gráficos en tarjeta: Intel® UHD Graphics, Modelo de adaptador de gráficos discretos: NVIDIA GeForce RTX 4060. Sistema operativo instalado: Windows 11 Home. Color del producto: Negro



Design		Audio	
Colour name	Translucent Black	Speakers manufacturer	Nahimic
Product type *	Laptop	Speaker power	2 W
Product colour *	Black	Built-in microphone	✓
Form factor *	Clamshell	Camera	
Market positioning	Gaming	Front camera	✓
Display		Front camera HD type	HD
Display diagonal *	39.6 cm (15.6")	Video capturing speed	30 fps
Display resolution *	1920 x 1080 pixels	Network	
Touchscreen *	✗	Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
HD type	Full HD	Wi-Fi standards	Wi-Fi 6 (802.11ax)
LED backlight	✓	Mobile network connection *	✗
Native aspect ratio	16:9	WLAN controller model	Intel Wi-Fi 6 AX201
Maximum refresh rate	144 Hz	WLAN controller manufacturer	Intel
Processor		Ethernet LAN	✓
Processor manufacturer *	Intel	Ethernet LAN data rates	10,100,1000 Mbit/s
Processor family *	Intel® Core™ i7	Bluetooth	✓
Processor generation	12th gen Intel® Core™ i7	Bluetooth version	5.2
Processor model *	i7-12650H	Ports & interfaces	
Processor cores	10	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Processor boost frequency	4.7 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Efficient-core boost frequency	3.5 GHz	Ethernet LAN (RJ-45) ports	1
Processor cache	24 MB	HDMI ports quantity *	1
Processor cache type	Smart Cache	HDMI version	2.1
Configurable TDP-down	35 W	Combo headphone/mic port	✓
Processor base power	45 W		
Maximum turbo power	115 W		

Memory		Ports & interfaces	
Internal memory *	8 GB	USB Type-C DisplayPort Alternate Mode	✓
Internal memory type	DDR5-SDRAM	Performance	
Memory clock speed	4800 MHz	Motherboard chipset	Intel HM670
Memory form factor	SO-DIMM	Keyboard	
Memory slots	2x SO-DIMM	Pointing device	Touchpad
Maximum internal memory *	64 GB	Numeric keypad *	✓
Storage		Keyboard backlit	✓
Total storage capacity *	512 GB	Keyboard backlit colour	Blue
Storage media *	SSD	Island-style keyboard	✓
Total SSDs capacity	512 GB	Software	
Number of SSDs installed	1	Operating system installed *	Windows 11 Home
SSD capacity	512 GB	Processor special features	
SSD interface	PCI Express 4.0	Intel Flex Memory Access	✓
NVMe	✓	Intel VT-x with Extended Page Tables (EPT)	✓
SSD form factor	M.2	Execute Disable Bit	✓
Optical drive type *	✗	CPU configuration (max)	1
Graphics		Embedded options available	✗
Discrete GPU manufacturer	NVIDIA	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics card model *	NVIDIA GeForce RTX 4060	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card memory	8 GB	Battery	
Discrete graphics memory type	GDDR6	Number of battery cells	3
On-board graphics card *	✓	Battery capacity *	53.5 Wh
On-board GPU manufacturer	Intel	Power	
Discrete graphics card *	✓	AC adapter power	120 W
On-board graphics card family	Intel® UHD Graphics	DC-in jack	✓
On-board graphics card model *	Intel® UHD Graphics	Security	
On-board graphics card 4K support	✓	Cable lock slot	✓
Graphics card Open GL support	✓	Cable lock slot type	Kensington
Audio		Weight & dimensions	
Audio system	Nahimic 3	Width	359.4 mm
Number of built-in speakers	2	Depth	250.3 mm
		Height (front)	2.19 cm
		Height (rear)	2.29 cm
		Weight *	1.98 kg



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