MSI Cyborg 15 A12VF-078MX Intel® Core™ i7 i7-12650H Computadora portátil 39.6 cm (15.6") Full HD 16 GB DDR5-SDRAM 1 TB 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-078MX

Nombre del producto :
Cyborg 15 A12VF-078MX

MSI Cyborg 15 A12VF-078MX. 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 Pixeles. Memoria interna: 16 GB, Tipo de memoria interna: DDR5-SDRAM. Capacidad total de almacenaje: 1 TB, 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	
Colour name	Translucent Black
Product type *	Laptop
Product colour *	Black
Form factor *	Clamshell
Market positioning	Gaming

Display	
Display diagonal *	39.6 cm (15.6")
Display resolution *	1920 x 1080 pixels
Touchscreen *	✗
HD type	Full HD
LED backlight	✓
Native aspect ratio	16:9
Display brightness	250 cd/m²
Maximum refresh rate	144 Hz

Processor	
Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	12th gen Intel® Core™ i7
Processor model *	i7-12650H
Processor cores	10
Processor boost frequency	4.7 GHz
Performance cores	6
Efficient cores	4
Performance-core Max Turbo Frequency	4.7 GHz
Efficient-core Max Turbo Frequency	3.5 GHz
Efficient-core boost frequency	3.5 GHz
Processor cache	24 MB

Graphics	
Graphics card Open GL support	✓

Audio	
Audio system	Nahimic 3
Number of built-in speakers	2
Speakers manufacturer	Nahimic
Speaker power	2 W
Built-in microphone	✓

Camera	
Front camera	✓
Front camera HD type	HD
Video capturing speed	30 fps

Network	
Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
Wi-Fi standards	Wi-Fi 6 (802.11ax)
Mobile network connection *	✗
WLAN controller model	Intel Wi-Fi 6 AX201
WLAN controller manufacturer	Intel
Ethernet LAN	✓
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✓
Bluetooth version	5.2

Ports & interfaces	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Ethernet LAN (RJ-45) ports	1

Processor	
Processor cache type	Smart Cache
Configurable TDP-down	35 W
Processor base power	45 W
Maximum turbo power	115 W

Memory	
Internal memory *	16 GB
Internal memory type	DDR5-SDRAM
Memory clock speed	4800 MHz
Memory form factor	SO-DIMM
Memory layout (slots x size)	2 x 8 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	64 GB

Storage	
Total storage capacity *	1 TB
Storage media *	SSD
Total SSDs capacity	1 TB
Number of SSDs installed	1
SSD capacity	1 TB
SSD interface	PCI Express 4.0
NVMe	✔
SSD form factor	M.2
Optical drive type *	✘

Graphics	
Discrete GPU manufacturer	NVIDIA
Discrete graphics card model *	NVIDIA GeForce RTX 4060
Discrete graphics card memory	8 GB
Discrete graphics memory type	GDDR6
On-board graphics card *	✔
On-board GPU manufacturer	Intel
Discrete graphics card *	✔
On-board graphics card family	Intel® UHD Graphics
On-board graphics card model *	Intel® UHD Graphics
On-board graphics card 4K support	✔

Ports & interfaces	
HDMI ports quantity *	1
HDMI version	2.1
Combo headphone/mic port	✔
USB Type-C DisplayPort Alternate Mode	✔

Performance	
Motherboard chipset	Intel HM670

Keyboard	
Pointing device	Touchpad
Numeric keypad *	✔
Keyboard backlit	✔
Keyboard backlit colour	Blue
Island-style keyboard	✔

Software	
Operating system installed *	Windows 11 Home

Processor special features	
Intel Flex Memory Access	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Execute Disable Bit	✔
CPU configuration (max)	1
Embedded options available	✘
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Virtualization Technology (VT-x)	✔

Battery	
Number of battery cells	3
Battery capacity *	53.5 Wh

Power	
AC adapter power	120 W
DC-in jack	✔

Security	
Cable lock slot	✔
Cable lock slot type	Kensington

Weight & dimensions	
Width	359.4 mm
Depth	250.3 mm
Height (front)	2.19 cm
Height (rear)	2.29 cm
Weight *	1.98 kg

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