



# MSI Cyborg 15 A12UCX-437UK Laptop 39.6 cm (15.6") Full HD Intel® Core™ i5 i5-12450H 8 GB DDR5-SDRAM 512 GB SSD NVIDIA GeForce RTX 2050 Wi-Fi 6 (802.11ax) Windows 11 Home Black

**Brand :** MSI

**Product family:** Cyborg

**Product code:** CYBORG 15 A12UCX-437UK

**Product name :** Cyborg 15 A12UCX-437UK



- Windows 11 Home
- Intel Core i5-12450H (12MB Cache)
- 39.6 cm (15.6") Full HD 1920 x 1080, NVIDIA GeForce RTX 2050 (4GB GDDR6)
- 8GB (4800MHz) DDR5-SDRAM & 512GB SSD

Intel Core i5-12450H (12MB Cache), 8GB DDR5-SDRAM, 512GB SSD, 39.6 cm (15.6") Full HD 1920 x 1080, Intel UHD Graphics, NVIDIA GeForce RTX 2050 (4GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home

MSI Cyborg 15 A12UCX-437UK. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-12450H. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics, Discrete graphics card model: NVIDIA GeForce RTX 2050. Operating system installed: Windows 11 Home. Product colour: Black



Design		Audio	
Colour name	Translucent Black	Audio system	NAHIMIC 3
Product type *	Laptop	Number of built-in speakers	2
Product colour *	Black	Speakers manufacturer	Nahimic
Form factor *	Clamshell	Speaker power	2 W
Market positioning	Gaming	Built-in microphone	✓
Display		Camera	
Display diagonal *	39.6 cm (15.6")	Front camera	✓
Display resolution *	1920 x 1080 pixels	Front camera HD type	HD
Touchscreen *	✗	Video capturing speed	30 fps
HD type	Full HD	Network	
LED backlight	✓	Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
Native aspect ratio	16:9	Wi-Fi standards	Wi-Fi 6 (802.11ax)
Maximum refresh rate	144 Hz	Mobile network connection *	✗
Processor		WLAN controller model	Intel Wi-Fi 6 AX201
Processor manufacturer *	Intel	WLAN controller manufacturer	Intel
Processor generation	12th gen Intel® Core™ i5	Ethernet LAN	✓
Processor family *	Intel® Core™ i5	Ethernet LAN data rates	10,100,1000 Mbit/s
Processor model *	i5-12450H	Bluetooth	✓
Processor boost frequency	4.4 GHz	Bluetooth version	5.2
Efficient-core boost frequency	3.5 GHz	Ports & interfaces	
Efficient-core Max Turbo Frequency	3.3 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Performance-core Max Turbo Frequency	4.4 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Processor cores	8	Ethernet LAN (RJ-45) ports	1
Performance cores	4	HDMI ports quantity *	1
Efficient cores	4	Combo headphone/mic port	✓
Processor cache	12 MB	Charging port type	DC-in jack
Processor cache type	Smart Cache		

<b>Processor</b>		<b>Ports &amp; interfaces</b>	
Motherboard chipset	Intel HM670	USB Type-C DisplayPort Alternate Mode	✓
Configurable TDP-down	35 W	<b>Keyboard</b>	
Processor base power	45 W	Pointing device	Touchpad
Maximum turbo power	95 W	Numeric keypad *	✓
<b>Memory</b>		Keyboard backlit	✓
Internal memory *	8 GB	Keyboard backlit colour	Blue
Internal memory type	DDR5-SDRAM	Island-style keyboard	✓
Memory clock speed	4800 MHz	<b>Software</b>	
Memory form factor	SO-DIMM	Operating system installed *	Windows 11 Home
Memory slots	2x SO-DIMM	<b>Processor special features</b>	
Maximum internal memory *	64 GB	Intel Flex Memory Access	✓
<b>Storage</b>		Intel VT-x with Extended Page Tables (EPT)	✓
Total storage capacity *	512 GB	Execute Disable Bit	✓
Storage media *	SSD	CPU configuration (max)	1
Total SSDs capacity	512 GB	Embedded options available	✗
Number of SSDs installed	1	Intel Virtualization Technology for Directed I/O (VT-d)	✓
SSD capacity	512 GB	Intel Virtualization Technology (VT-x)	✓
SSD interface	PCI Express 4.0	<b>Battery</b>	
NVMe	✓	Number of battery cells	3
SSD form factor	M.2	Battery capacity *	53.5 Wh
Optical drive type *	✗	<b>Power</b>	
<b>Graphics</b>		AC adapter power	120 W
Discrete GPU manufacturer	NVIDIA	<b>Security</b>	
Discrete graphics card model *	NVIDIA GeForce RTX 2050	Cable lock slot	✓
On-board graphics card *	✓	Cable lock slot type	Kensington
On-board GPU manufacturer	Intel	<b>Weight &amp; dimensions</b>	
Discrete graphics card *	✓	Width	359.4 mm
On-board graphics card family	Intel® UHD Graphics	Depth	250.3 mm
On-board graphics card model *	Intel® UHD Graphics	Height (front)	2.19 cm
Discrete graphics card memory	4 GB	Height (rear)	2.29 cm
Discrete graphics memory type	GDDR6	Weight *	1.98 kg



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Publication date: 29-FEB-2024. Prints or copies of Information are only valid on the printed Publication date