



L A P T O P S

# Cyborg 15 Black Edition A13

CYBORG 15 BLACK EDITION A13VE-2424HK

## Specification

<b>CPU</b>	13th Gen Intel® Core™ i7-13620H processor 10 cores (6 P-cores + 4 E-cores), 16 threads, 24 MB Intel® Smart Cache, Max Turbo Frequency 4.9 GHz
<b>Operating Systems</b>	Windows 11 Home (MSI recommends Windows 11 Pro for business.)
<b>Display</b>	15.6" FHD(1920x1080), 144Hz Refresh Rate, IPS-Level
<b>Chipset</b>	Integrated SoC
<b>Discrete Graphics</b>	NVIDIA® GeForce RTX™ 4050 Laptop GPU powers advanced AI with 194 AI TOPS 1605MHzx Up to Boost Clock 45W Maximum Graphics Power with Dynamic Boost. *May vary by scenario *Power Efficiency
<b>Video Memory</b>	6GB GDDR6
<b>Memory</b>	16GB*1 DDR5 *The actual frequency will vary by memory combination and CPU capability.
<b>Memory Slot and Max Capacity</b>	DDR5-5200, 2 Slots, Max 64GB
<b>Storage</b>	512GB*1 NVMe SSD PCIe Gen4 *Please consult service center for upgrading SSD."
<b>Storage Slot</b>	1x M.2 SSD slot (NVMe PCIe Gen4)
<b>Keyboard</b>	Single Backlit Keyboard (Blue) with Copilot Key
<b>WebCam</b>	HD type (30fps@720p)
<b>Audio</b>	2x 2W Audio Speaker DTS Audio Processing, Hi-Res Audio Ready Array Microphone
<b>Audio Port</b>	1x Mic-in/Headphone-out Combo Jack
<b>USB Ports</b>	2x Type-A USB3.2 Gen1 1x Type-C (USB3.2 Gen2 / DisplayPort™)
<b>Video Ports</b>	1x HDMI™ 2.1 (4K @ 60Hz)
<b>LAN</b>	Gigabit Ethernet
<b>Wi-Fi/ Bluetooth</b>	Intel® Wi-Fi 6E AX211, Bluetooth v5.3
<b>Security</b>	Firmware Trusted Platform Module(fTPM) 2.0, Kensington Lock
<b>Adapter</b>	120W Adaptor
<b>Battery</b>	3-Cell 53.5 Whrs
<b>Dimension (WxDxH)</b>	359.36 x 250.34 x 21.95-22.9 mm
<b>Weight (W/ Battery)</b>	1.98 kg
<b>Chassis Color</b>	Black
<b>Warranty</b>	2 years limited warranty