

MS-02 Ultra-235HX

Basic	Product Series	Station Mini
	Model Number	MS-02 Ultra
	OS Support	Windows 11 Pro
	Dimensions	221.5*97*225mm
	Weight	3.25 Kg
CPU	Processor	Intel® Core™ Ultra 5 235HX
	Total Cores	14 (6 P-Cores + 8 E-Cores)
	Total Threads	14
	Max Turbo Frequency	Up to 5.1 GHz
	Intel® Smart Cache	24 MB
	TDP	80W PL1 / 100W PL2
	TDP (With dGPU)	65W PL1 / 100W PL2
GPU	Graphics Cards	Intel® Graphics (Internal)
	Graphics Base Frequency	300 MHz
	Max Dynamic Frequency	1.8 GHz
AI Engine Capabilities	Intel® AI Boost	Up to 13 TOPS (NPU TOPS)
Memory	Slots	4 × DDR5 SODIMM slots (non-ECC; XMP overclocking not supported).
	Optional SKUs	32GB, 64GB, 128GB, 192GB, 256GB
	Max Speed	Up to 4800 MT/s (1R); up to 4400 MT/s (2R). * 1R = single-rank, 2R = dual-rank
	Max Capacity	256GB
Storage	Slots	2 x M.2 2280 (PCIe 4.0 x4 NVMe) Up to 8TB each
	Pre-configured SKUs	0 (No Drive), 1TB, 2TB
Cooling System	CPU Cooler	Six-heatpipe radiator with Phase Change Material (PCM)
	Fans	1 x 70x25mm + 1 x 60x20mm
	Max Fan Speed	5000 RPM
	Noise Level (idle)	36 dBA (50 cm) (MINISFOUM lab environment)

	Noise Level (100% load)	46 dBA (50 cm) (MINISFOUM lab environment)
Wireless Connectivity	M.2 2230 E-Key	Wi-Fi 7 & Bluetooth® 5.4 (Module: Intel® BE200)
Ethernet Controller	1 × 10 GbE LAN RJ45	Module: Realtek RTL8127
	1 × 2.5 GbE LAN RJ45	Module: Intel I226-V
Video Output	1 x HDMI™ 2.1 FRL (8K@60Hz, 4K@120Hz) 1 x USB4 with DP Alt Mode (8K@60Hz, 4K@120Hz) 2 x USB4 V2 with DP Alt Mode (8K@60Hz, 4K@120Hz)	
Audio Output	1 x HDMI™ 1 x USB4 2 x USB4 V2 1 x 3.5mm Audio Jack	
Audio Input	3.5mm Combo Jack (TRRS) x 1	
I/O Ports	Rear	
		1 x 10GbE RJ45 Port (Realtek RTL8127)
		1 x 2.5GbE RJ45 Port (Intel I226-V)
		1 × HDMI™ 2.1 FRL
		1 x USB4 Type-C Port (40 Gbps, DP 2.0 Alt Mode, 15W PD)
		3 x USB-A 10Gbps (USB 3.2 Gen 2)
	Front	2 x USB4 V2 Type-C Ports (80 Gbps, DP 2.0 Alt Mode, 15W PD)
		1 x USB 10Gbps Type-A Port (USB 3.2 Gen 2)
		1 x 3.5mm Audio Jack
		1 x Power Button
	Internal	1 × PCIe 5.0 x16 Slot (bifurcation support)
		1 × PCIe 4.0 x16 Slot (PCIe 4.0 x4+x4+x4)
		1 × PCIe 4.0 x4 Slot
Board-Mounted Features	Button	Clear CMOS Button x 1
	Debug LED	CPU × 1 RAM × 1 VGA × 1 BOOT × 1
VESA Mount	N/A	
Kensington Security Slot	YES	

Power	AC input (100-240V ~6A 50-60Hz, 1U 350W MAX)
Accessories	Power Cord*1, HDMI Cable*1, Mylar Plate*1, SSD Heatsink*1, Disassembly Clip*1, User Guide/Instruction Manual*1