Mini PC MINIS FORUM MS-02U-235HX Intel Core Ultra 5 235HX barebone

Model: MS-02U-235HX

Manufacturer: MINIS FORUM

EAN: 4897118836968

Product Code: 1420501

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MINISFORUM MS-02U-235HX Intel Core Ultra 5 235HX barebone mini PC

The MINISFORUM MS-02 Ultra is an advanced mini PC workstation from the Station Mini series that combines impressive performance, extensive upgradeability, and professional networking capabilities in a compact chassis measuring 221.5 × 97 × 225 mm. The device weighs 3.25 kg and is designed for demanding applications such as virtualization, data analysis, large-scale project management, content creation, and supporting advanced IT environments. The barebone version is shipped without RAM or storage, allowing you to select components that are perfectly suited to your specific requirements.

Intel Core Ultra 5 235HX with AI support

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At the heart of this workstation is the Intel Core Ultra 5 235HX processor, featuring 14 cores in a configuration of 6 Performance cores and 8 Efficient cores. The processor operates at a Turbo frequency of up to 5.1 GHz and features 24 MB of Intel Smart Cache, delivering exceptional performance in both single-threaded applications and intensive multitasking. The integrated Intel Graphics with a clock speed of up to 1.8 GHz and the Intel AI Boost engine, offering up to 13 TOPS of computing power, further enhance the device’s capabilities in modern AI-driven applications.

Storage and memory expansion

The MS-02 Ultra model features four DDR5 SO-DIMM slots supporting up to 256 GB of RAM at speeds of up to 4800 MT/s, allowing for smooth operation of multiple virtual machines, large databases, and professional software. Users also have access to two M.2 2280 PCIe 4.0 x4 NVMe slots, each supporting SSDs with a total capacity of up to 8 TB. Together, this enables the creation of an extremely fast storage environment with a total capacity of up to 16 TB, ideal for critical data and massive projects.

Professional connectivity and server-grade expandability

The device is equipped with dwoma high-performance network ports: an ultra-fast 10GbE RJ45 based on the Realtek RTL8127 controller and an additional 2.5GbE RJ45 port with the Intel I226-V controller. Wireless communication is handled by the Intel BE200 module, which supports Wi-Fi 7 and Bluetooth 5.4. The computer also offers exceptional expandability thanks to PCIe 5.0 x16 slots with split-mode support, PCIe 4.0 x16 (electrically x4+x4+x4), and PCIe 4.0 x4, allowing you to connect professional expansion cards for specialized applications.

Modern ports and support for up to three 8K monitors

The front panel features two USB4 V2 Type-C ports with up to 80 Gbps bandwidth, DisplayPort 2.0 Alt Mode, and 15 W Power Delivery, along with a USB 3.2 Gen 2 Type-A port and a 3.5 mm audio jack. The rear panel offers another USB4 Type-C port (40 Gbps), HDMI 2.1 FRL, three USB 3.2 Gen 2 Type-A ports, an OCuLink connector, and two LAN ports. This configuration allows you to connect state-of-the-art monitors, high-speed storage devices, and professional peripherals, supporting up to three displays with resolutions up to 8K.

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Advanced cooling and a 350 W power supply

Stable operation under heavy workloads is ensured by an efficient cooling system utilizing a heat sink with six heat pipes and PCM phase-change material. Heat dissipation is handled by two fans (70 × 25 mm and 60 × 20 mm) reaching speeds of up to 5,000 RPM. The built-in 1U power supply with a maximum output of 350 W and support for 100–240 V AC guarantees sufficient power forWszystkich components and expansion cards.

Included

- Mini PC
- Power cord
- HDMI cable
- Mylar plate
- SSD heatsink
- Removal clip
- User manual

Specifications

Brand	MINISFORUM
Model	MS-02 Ultra 235HX
Product type	Mini workstation (barebone)
Processor	Intel Core Ultra 5 235HX
Number of cores	14 (6 Performance cores + 8 Efficient cores)
Number of threads	14
Maximum Turbo frequency	Up to 5.1 GHz
Cache	24 MB Intel Smart Cache
Graphics chip	Intel Graphics
Maximum graphics chip frequency	Up to 1.8 GHz
AI engine	Intel AI Boost

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AI performance	Up to 13 TOPS
RAM slots	4 × DDR5 SO-DIMM
Maximum RAM capacity	256 GB
Maximum RAM speed	4800 MT/s
SSD slots	2 × M.2 2280 PCIe 4.0 x4 NVMe
Maximum SSD capacity	Up to 8 TB per slot
Configuration	Barebone (No RAM, No Drive)
Wireless connectivity	Wi-Fi 7, Bluetooth 5.4
Wireless module	Intel BE200
LAN port 1	10GbE RJ45 (Realtek RTL8127)
LAN port 2	2.5GbE RJ45 (Intel I226-V)
Front ports	2 × USB4 V2 Type-C (80 Gbps, DP 2.0 Alt Mode, PD 15 W), 1 × USB 3.2 Gen 2 Type-A, 1 × 3.5 mm audio jack
Rear ports	1 × USB4 Type-C, 1 × HDMI 2.1 FRL, 1 × OCuLink, 1 × 10GbE RJ45, 1 × 2.5GbE RJ45, 3 × USB 3.2 Gen 2 Type-A
Internal connectors	PCIe 5.0 x16 (supports bifurcation), PCIe 4.0 x16, PCIe 4.0 x4
Operating system	Supports Windows 11 Pro
Power supply	1U 350 W MAX, AC 100–240 V
Cooling system	Heat sink with six heat pipes and phase-change material (PCM)
Fans	1 × 70 × 25 mm, 1 × 60 × 20 mm
Maximum fan speed	Up to 5000 RPM
Dimensions	221.5 × 97 × 225 mm
Weight	3.25 kg

GPSR Link: https://psr-assets.innpro.pl/it_accessories/sg_it_accessories_others.pdf, Gross weight: 4020, Net weight: 3250, Box length: 32,00, Box width: 26,50, Box height: 14,50

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