

MINIS FORUM MS-02 Ultra Mini PC Intel Core Ultra 9 285HX barebone

Model: MS-02 Ultra

Manufacturer: MINIS FORUM

EAN: 4897118835213

Product Code: 1059106

R36,150

MINIS FORUM 02 Ultra MiniPC Intel Core Ultra 9 285HX CPU

MINIS FORUM MS-02 Ultra is a miniPC that redefines the concept of performance in a small form factor. Equipped with an Intel® Core™ Ultra 9 285HX processor with 24 cores and a clock speed of up to 5.5 GHz, it is suitable for a variety of tasks. It allows for extensive expansion – three PCIe slots and four M.2 NVMe SSD connectors are available. Network connectivity is provided by two 25 GbE ports, one 10 GbE port, and one 2.5 GbE port.

High performance

At the heart of the computer is an Intel Ultra 9 285HX processor, which offers 24 cores, 24 threads, and 36 MB of cache. With a TDP of up to 140W and Intel AI Boost technology, the hardware can

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handle not only everyday tasks but also projects that require high computing power. Integrated Intel graphics with a maximum frequency of up to 2 GHz provide basic multimedia support and high-resolution image display.

Unlimited RAM and data storage

The MINIS FORUM MS-02 Ultra supports up to 256 GB of DDR5 RAM, mounted in four SO-DIMM slots. Four M.2 NVMe SSD slots are provided for user data — two directly on the motherboard (PCIe 4.0 x4) and two integrated with the 25GbE NIC network card. Each slot can support a drive with a capacity of up to 8 TB, allowing you to build a very capacious and fast array with the possibility of RAID 0, 1, 5, or 10 configuration.

Effective cooling

To meet the thermal requirements of such powerful components, a heat sink with six heat pipes and two fans — one with a diameter of 70 mm and the other 60 mm — have been used. Even at full load, the device maintains a maximum noise level of 46 dBA at a distance of 50 cm, which translates into comfortable operation.

Fast and stable network connection

The model stands out for its connectivity flexibility. There are two 25GbE SFP+ ports based on the Intel E810 chip, one 10GbE RJ45 port (Realtek RTL8127), and one 2.5GbE RJ45 port with Intel vPro support. The whole thing is complemented by an Intel BE200 wireless card, offering Wi-Fi 7 and Bluetooth 5.4.

A wide selection of ports

The front of the case features two USB4 V2 Type-C ports with 80 Gbps bandwidth and support for DisplayPort 2.0 and 15W charging, one USB-A 3.2 Gen. 2 10Gbps port, a 3.5 mm audio jack, and a power button. The rear of the device features three USB-A 3.2 Gen. 2 10 Gbps ports, one USB4 Type-C connector (40 Gbps), one HDMI 2.1 FRL, and network ports: x2 25 GbE SFP+; 10 GbE Rj45 and 2.5 GbE Rj45.

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Ready to go

The computer is powered by a built-in 350W 1U standard power supply. The model supports Windows 11 Pro and Home, and the set includes all the necessary accessories: power cord, HDMI cable, SSD heat sink, protective plate, and disassembly tool.

Included

- mini PC
- power cord
- HDMI cable
- SSD heat sink
- protective plate
- disassembly tool
- user manual

Basic information

Manufacturer	MINIS FORUM
Model	MS-02 Ultra
Series	Station Mini
Supported operating system	Windows 11 Pro
Dimensions	221.5 × 97 × 225 mm
Weight	3.45 kg

Processor (CPU)

Model	Intel® Core™ Ultra 9 285HX
Number of cores	24 (8 P-Core cores + 16 E-Core cores)
Number of threads	24
Maximum clock speed	5.5 GHz

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Intel® Smart Cache	36 MB
TDP	100W PL1 / 140W PL2
TDP (with dedicated graphics card)	90W PL1 / 110W PL2

Graphics card (GPU)

Integrated graphics	Intel® Graphics
Base frequency	300 MHz
Maximum dynamic frequency	2 GHz

AI engine (Intel® AI Boost)

NPU computing power	Up to 13 TOPS

RAM

Slots	4 × DDR5 SO-DIMM (ECC support, no XMP/OC support)
Maximum speed	Up to 4800 MT/s (for 1R single-row memory), up to 4400 MT/s (for 2R double-row memory)
Maximum capacity	256 GB

Storage

Available slots	2 × M.2 2280 NVMe SSD (PCIe 4.0 x4, up to 8 TB each) 2 × M.2 2280 NVMe SSD (integrated with 25GbE NIC; supports up to 8 TB/slot – PCIe 3.0 x4 or up to 4 TB/slot – PCIe 4.0 x4)

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Factory configurations	No drive, 1 TB, 2 TB

Cooling

CPU heat sink	Heat sink with six heat pipes and PCM paste
Fans	1 × 70 × 25 mm 1 × 60 × 20 mm
Maximum rotational speed	5000 rpm
Noise level (no load)	36 dBA (at a distance of 50 cm)
Noise level (at 100% load)	46 dBA (at a distance of 50 cm)

Wireless connectivity

Module	Intel® BE200
Wi-Fi	Wi-Fi 7
Bluetooth	5.4

Built-in ports

LAN / network ports	2 × 25 GbE SFP+ (Intel E810) 1 × 10 GbE RJ45 (Realtek RTL8127) 1 × 2.5 GbE RJ45 (Intel I226-LM, Intel vPro support)
Video outputs	1 × HDMI™ 2.1 FRL (8K@60Hz, 4K@120Hz) 1 × USB4 with DisplayPort Alt Mode (8K@60Hz, 4K@120Hz) 2 × USB4 V2 with DisplayPort Alt Mode (8K@60Hz, 4K@120Hz)

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Audio outputs	HDMI × 1 USB4 × 1 USB4 V2 × 2 3.5 mm jack × 1
Audio input	1 × 3.5 mm combo jack (TRRS)

I/O ports (Connectors)

Rear connectors	2 × 25GbE SFP+ (Intel E810) 1 × 10GbE RJ45 (Realtek RTL8127) 1 × 2.5GbE RJ45 (Intel I226-LM, vPro) 1 × HDMI™ 2.1 FRL 1 × USB4 Type-C (40 Gbps, DP 2.0, 15W PD) 3 × USB-A 10Gbps (USB 3.2 Gen 2)
Front connectors	2 × USB4 V2 Type-C (80 Gbps, DP 2.0, 15W PD) 1 × USB-A 10Gbps (USB 3.2 Gen 2) 1 × 3.5 mm audio jack 1 × Power button
Internal connectors	1 × PCIe 5.0 x16 1 × PCIe 4.0 x4 1 × PCIe 4.0 x16 (with factory-installed 25GbE NIC card and 2 M.2 slots – not available for expansion)

Components mounted on the main panel

Button	Clear CMOS × 1
Diagnostic LED (debug LED)	CPU × 1 RAM × 1 VGA × 1 BOOT × 1

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Other features

VESA mounting	Not supported
Kensington Security Slot	Yes

Power supply

AC input	100–240V ~6A 50–60Hz
Power supply	Built-in, 350W, standard 1U

GPSR Link: https://psr-assets.innpro.pl/it_accessories/sg_it_accessories_others.pdf, Gross weight: 4530, Net weight: 3480, Box length: 33,50, Box width: 29,00, Box height: 15,50

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