ES1002

Edge AI Server

AMD EPYC™ Embedded 8004 Series Processors



Features

- AMD EYPC™ Siena 8004 Series
- 6x DDR5 4800 up to 576GB (Supports ECC)
- 5x PCIe (x16) slots
- 2x USB 3.2 Gen1 with PDPC support
- 4x SATA 6Gb/s
- 1x PCIe Gen5 2280, 2x MCIO (x4)
- 2x Intel® X710-AT2 (Dual 10GbE port)

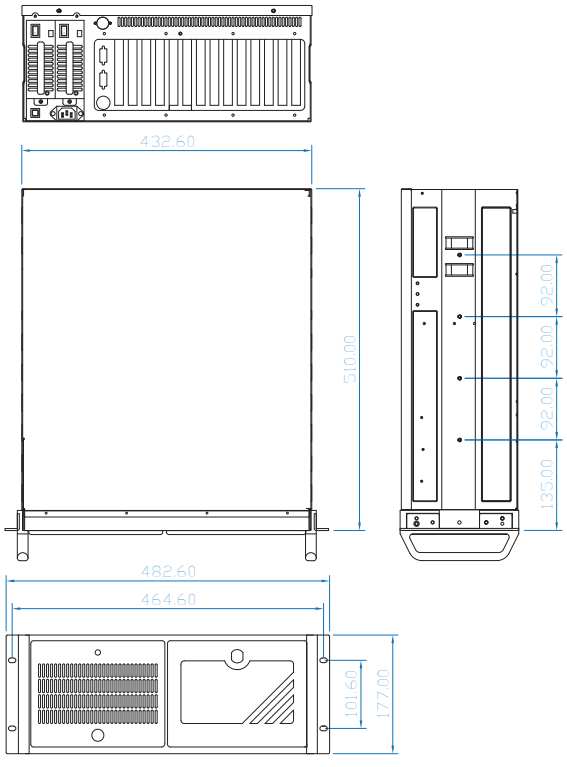
Specifications

System Mainboard	MBB1002 with AMD EYPC™ Siena 8004 Series CPU
CPU Type	AMD EYPC™ Siena 8000 Series CPU (225W cTDP)
System Speed	Up to 3.1GHz
Memory	6x DDR5 4800, RDIMM 6 slots, Max. up to 576 GB Supports ECC 3600/4000/4400/ 4800 MHz,16 GB, 32 GB, 64 GB, 96GB
AI Inference Computing Power	AMD EPYC™ 8004 Series (Siena) processor with Zen 4c architecture / scalable performance up to 64 cores and 128 threads. / supports 5x Gen5 PCIe (x16)
Front Panel External I/O	3x LED (Power, HDD, Status)
Rear Panel External I/O	2x USB 3.2 Gen1 with PDPC support 2x Intel® X710-AT2 (Dual 10GbE port) 1x COM (RS232/422/485, RJ45 port)
Expansion Slot	5x PCIe (x16) slots - PCIe (x16)_SLOT2 (Gen5 (x16) link, from CPU) - PCIe (x16)_SLOT3 (Gen5 (x16) link, from CPU) - PCIe (x16)_SLOT5 (Gen5 (x16) link, from CPU), CXL support - PCIe (x16)_SLOT6 (Gen5 (x16) link, from CPU), CXL support - PCIe (x16)_SLOT7 (Gen5 (x16) link, from CPU), CXL support
Storage	4x SATA (6Gb/s) 1x NVME 2280 (PCIe Gen5) 2x NVME MCIO (x4)
Power Requirement	1x 24-pin SSI power connector, 3x 8-pin SSI 12V power connector
Power Supply	1x ATX standard 1200W PSU
Construction	Aluminum & steel
Chassis Color	Black
Mounting Type	N/A
Dimensions	483 mm (W) x 510 mm (D) x 177 mm (H) 19 (W) x 20.1 (D) x 7 (H)
Weight	TBD
Operating Temperature	0°C to 45°C (32°F ~113°F)
Storage Temperature	-20°C to 80°C (-4°F to 176°F)
Relative Humidity	0%~90% (non-condensing)
Vibration	Non-operating: 1.0 grms / 5~500Hz / random operation Operatiing:0.25 grms / 5~500Hz / random operation
Shock	Operating: 20 g / 11 ms Non-operating: 40 g / 11 ms
Certification	CE / LVD / FCC Class-B (TBD)
Operating System	Windows Server 2022 Windows Server 2025 Ubuntu 22.04

Ordering Information

ES1002	Chassis with eATX motherboard w/o CPU, memory, storage, support AMD EYPC™ Siena 8004 Series processors

Dimensions and Drawing



Remarks: 1. Specifications are subject to change without prior notice
2. ODM/OEM is available. 3. For user manual & datasheet download, visit www.ibt.ca