



Features

- AMD EPYC Embedded 8004 series CPU
- 6x DDR5 4800 up to 576GB ECC support
- 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

CPU Socket	AMD SP6 LGA 4844 (EPYC SP6 processors)
CPU	AMD EPYC Embedded 8004 series
PCH	N/A
Memory	Six-Channel DDR5 4800, 6 slots RDIMM, Max. 576GB, supports ECC 3600/4000/4400/4800MHz, 16GB, 32GB, 64GB, 96GB
BIOS	AMI
Watchdog Timer	256 levels
H/W Monitor	Yes
Storage Device Interface	4x SATA(6Gb/s) NVMe: 1x 2280 (by PCIe Gen.5 interface) NVMe: 2x MCIO x4 (Test by Gen.5 SSD)
Expansion Slots	5x PCIe(x16) (Gen5.0)
Mini Type Slots	N/A
Graphics Controller	N/A
Video Output	N/A
Ethernet	2x Intel® X710-AT2 (Dual 10GbE port)
I/O Chipset	N/A
Serial Port	1x External serial port (RS232)
USB 2.0	2x USB 2.0 PIN Header
USB 3.X	2x (USB 3.2 Gen1) with PDPC
Serial ATA	4x SATA (6Gb/s)
Audio	N/A
TPM	TPM (2.0)
Others	1x 24-pin SSI power connector 3x 8-pin SSI 12V power connector 4x Fan header 4-pin (3 for system + 1 for CPU) 1x SMBus 3x LED (Power+HDD+Status refer to Genoa) 1x RTC battery on board
Dimensions (L x W)	330mm x 304mm (12.9" x 12")
Power Consumption	AMD EPYC Embedded 8124P w/ 6x 32GB DDR5-5600 RDIMM +12V: ~11.51A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	0%~90% (non-condensing @60°C)

Ordering Information

MBB1002	AMD EPYC Embedded 8004 series eATX Motherboard w/o CPU, memory, storage, supports EEC
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*Specifications are subject to change without prior notice

Dimensions and Drawing

