

SCB-1935

MEC System

AEWIN Technologies Co., Ltd.

1U Rack-mount Edge Computing Server with single 2nd Gen AMD EPYC (Rome) Series Processor, support DDR4 memory up to 3200MHz, 2x PCIe x8 slots for Expansion Module / 4x NVMe, 2x half-height PCIe x8 (for 2x T4) or 1x full-height PCIe x16 front-access expansion slots, 2x USB3.0, 2x 1GbE, 1x Console, 1x m-SATA, 2x M.2 2280/22110, Redundant PSU



Features

- Support 2nd Gen AMD® EPYC™ 7002 (Rome) processors
- 8-channel DDR4 3200MHz memory
- 2x PCIe x8 for Network Expansion Module, plus 2x PCIe x8 or 1x PCIe x16 for GPU or FPGA

Introduction

The SCB-1935 is a 1U Rack-Mount high-performance networking system. Supporting a single 2nd Gen AMD® EPYC 7000 Series Processor and GPU/FPGA accelerators. AMD's new "Zen" CPU core delivers breakthrough computing performance. CPU cores up to 64 cores and 128 PCIe lanes.

The SCB-1935 supports eight channels DDR4 RDIMM up to 3200MHz. In addition, it support up to 2x NVIDIA T4 accelerators to enable AI inference workloads, or supporting full height cards with 1x PCIe x16 configuration. The SCB-1935 include two management Ethernet port (one for management, another for option IPMI function), a console port, two USB 3.0 ports, a Graph LCD module with keypad (5 key), LEDs for power/ HDD/ 2 x GPIO. In addition, the SCB-1935 also supports one 3.5" or two 2.5" SATA HDDs/SSDs, onboard one m-SATA and two M.2 2280/22110 slots for basic network storage application.

Specifications

▼ Processor System

CPU	Support single AMD® Rome EPYCTM 7002 Series Processor, Socket SP3, LGA4094
BIOS	AMI® 64Mb SPI BIOS

▼ Memory

Technology	Total 8 DIMMs (Eight channel) ECC & Registered : DDR4 3200 MHz memory, up to 64GB per DIMM
Capacity	Max up to 512GB

▼ Expansion

Onboard	-1x SO-DIMM slot for IPMI card with VGA support
Expansion Slots	-2x PCIe x8 for Network Expansion Module -2x half-height PCIe x8 (for 2x T4) or 1x full-height PCIe x16 -2x M.2 socket by PCIe Gen3 x4

▼ Ethernet

GbE Ethernet	2x 1GbE RJ45 ports
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▼ I/O

USB	2x external USB 3.0 port 1x internal USB 2.0 (5x2 pin header) supports USB DOM
Serial	1x RJ45 Console port (COM1) 1x internal 5x2 pin header (COM2)

▼ Storage

SATA	Support 1x 3.5" or 2x 2.5" SATA HDD or solid state drives 1x mSATA socket
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▼ Power Supply

Watt	1U Redundant 300W ATX Power Supply
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▼ Mechanical and Environmental

Form Factor	1U rack-mount
LED	1x Power LED (Green) 1x HDD LED (Red) 2x Status LED (Green/Yellow via programmable GPIO)
Dimension (W x D x H)	440mm (W) x 600mm (D) x 44mm (H) (17.3"W x 23.6"D x 1.73"H)
Operating Temperature	Operating: -5 ~ 50°C (23 ~ 122°F)
Storage Temperature	-20 ~ 75°C (-4 ~ 167°F)
Humidity	5 ~ 95% relative humidity, non-operating, non-condensing
Weight	12kg
Certification	CE/FCC

▼ Packing List

- 1x SCB-1935 unit
- 2x power cord
- 1x CD (Manual, Quick Installation Guide, Utility Driver)

I/O Mechanical Layout

