SCB-1935
Performance Network System

AEWIN Technologies Co., Ltd.

1U Rack-mount single AMD® Rome EPYC™ 7002 Series Processor Networking System, support DDR4 up to 512GB, 4 PCIe x8 slots for Expansion Module, 2 USB3.0, 2 GbE, 1 Console, m-SATA, 2x M.2 22110, PCIe x16 slot, Redundant PSU

Introduction

The SCB-1935 is a 1U Rack-Mount high-performance networking system. Supporting single AMD® Rome EPYC™ 7002 Series Processor. Based on AMD’s new “Zen” CPU core delivers breakthrough computing performance. CPU cores up to 32 cores, supports 64MB cache and total with 128 PCIe lanes.

The SCB-1935 supports eight channels DDR4 register ECC DIMM (up to 2667MHz) and maximum memory capacity is up to 512GB. With 32 PCI Express lanes, the SCB-1935A can support up to 4 NIC modules, support multiple Ethernet module bays for flexible port configuration; such as 1/10/40 Gigabit fiber, Gigabit copper with Bypass function or not. The maximum capable Ethernet port is up to 32 GbE ports. SCB-1935B supports up to 2 PCIe x16 slots for single/dual port 100 Gigabit Ethernet Adapter card in front and 1 PCIe x16 slot in rear.

The strong IO elements of 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

CPU
Support single AMD® Rome EPYC™ 7002 Series Processor, Socket SP3, LGA4094

BIOS
AMI® UEFI BIOS

Memory
Total 8 DIMMs (Eight channel) ECC & Registered / DDR4 2400/2667 MHz memory, up to 64GB per DIMM

Technology
RDIMM/LRDIMM • up to 512GB

Expansion
Onboard Expansion
1x SO-DIMM slot for IPMI card with VGA support
1x PCIe Gen3 x16 slot
2x M.2 socket by PCIe Gen3 x4

Gbe Ethernet
2x RJ45 GbE ports

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)

Power Supply
1U Redundant 500W ATX Power Supply

Storage
SATA
Support 1x 3.5” or 2x 2.5” SATA HDD or solid state drives
1x mSATA socket

Mechanical and Environment
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)

Operating Temperature
Operating: 0 ~ 40°C (32 ~ 104°F)

Storage Temperature
-20 ~ 75°C (-4 ~ 167°F)

Humidity
5 ~ 95% relative humidity, non-operating, non-condensing

Weight
12 kg

Certification
CE/FCC
**Packing List**
- 1x SCB-1935 unit
- 2x power cord
- 1x CD (Manual, Quick Installation Guide, Utility Driver)

**Optional**

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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>R384B</td>
<td>Expansion module with 8 SFP GbE ports, Intel I350-AM4</td>
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<tr>
<td>R385B</td>
<td>Expansion module with 8 RJ45 GbE ports, two pairs Gen 3 bypass, Intel I350-AM4</td>
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<td>R386A</td>
<td>Expansion module with 4 SFP+ 10 GbE ports, Intel XL710-BM1 w/o re-driver</td>
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<td>R387A</td>
<td>Expansion module with 2 QSFP+ 40 GbE ports, Intel XL710-BM2 w/o re-driver</td>
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<td>R479A</td>
<td>Expansion module with 4 SFP+ 10G ports, Intel 82599ES</td>
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<td>R492A</td>
<td>IPMI Card with VGA for SCB-1925, ASPEED AST2500</td>
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<tr>
<td>R492B</td>
<td>VGA Card for SCB-1925, ASPEED AST2510</td>
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<tr>
<td>R509A</td>
<td>Expansion module with 2 ZSFP+ 25GbE ports, Intel XXV710</td>
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*Note: All specifications are subject to change without prior notice.*