SCB-1937
Performance Network Appliance

AEWIN Technologies Co., Ltd.

2U Rack-mount Network Appliance with dual AMD® EPYC™ 7003X/7003/7002 (Milan-X/Milan/Rome) Series Processor, support DDR4 RDIMM up to 3200MHz, 8 PCIe Gen4 x8 slots for Expansion Modules, 2x USB, 2x 1GbE, 1x Console, 1x m-SATA, 2x M.2 2280, Redundant CRPS PSU

UTM   ADC   MEC   NGFW

Features

- Support dual AMD® EPYC™ 7003X/7003/7002 (Milan-X/Milan/Rome) Series Processor
- 8x channel DDR4 3200MHz memory, up to 4TB
- 8x PCIe x8 for Network Expansion Module
- 2x 2.5"HDD/SSD, 2x M.2 2280
- Support IPMI card with VGA (optional)

Description

The SCB-1937 is a 2U Rack-Mount high-performance networking system, supporting dual AMD® EPYC™ 7003X/7003/7002 (Milan-X/Milan/Rome) Series Processor. Based on of AMD's new "Zen 3" CPU core to deliver breakthrough computing performance. Per CPU supports CPU cores up to 64 cores, 256MB cache and 128 PCIe Gen 4 lanes.

The SCB-1937 supports 8x channels DDR4 RDIMM (up to 3200MHz) and maximum memory capacity is up to 4TB per socket. With 64 forward facing PCI Express Gen 4 lanes, the SCB-1937 can support up to 8 Network Expansion Modules, support multiple Ethernet module bays for flexible port configuration: such as 1/10/25/40/100 Gigabit fiber, copper with BYPASS function or not. The maximum capable Ethernet port is up to 64x 1GbE, up to 64x 10GbE, up to 32x 25GbE, up to 8x 100GbE ports. The 8x PCIe Gen4 x8 Expansion bay flexibly support new designed 2x 2.5" U.2 NVMe SSD tray, and GPU/FPGA add-on card swappable tray. SCB-1937 is an ideal computing server for Edge and AI workloads.

The strong IO elements of SCB-1937 include 2x management port (one for management, another for onboard BMC/IPMI function), a console port, a graph LCD module with keypad (5 key), LEDs for power/ HDD/ 2 x GPIO. In addition, the SCB-1937 also supports 2x 2.5" SATA HDDs/SSDs hot-swappable, onboard one mSATA and two M.2 2280 slots for basic network storage application.

Specifications

▼ Processor System

CPU	Support dual AMD® EPYC™ 7003X/7003/7002 (Milan-X/Milan/Rome) Series Processor, LGA4094
BIOS	AMI® UEFI BIOS

▼ Memory

Technology	Total 16 DIMMs (Eight channel) ECC & Registered：DDR4 3200 MHz memory
Capacity	Up to 4TB

▼ Expansion

Onboard Expansion Slots	1x standard PCIe Gen4 x16 slot (Option) 8x PCIe Gen4 x8 slot

▼ I/O

USB	2x external USB 2.0 port 1x internal USB 2.0 (5x2 pin header)
Serial	1x RJ45 Console port (COM1) 2x internal pin header (COM2 & COM3)

▼ Ethernet

GbE Ethernet	2x RJ45 1GbE ports

▼ Storage

SATA	2x 2.5" HDD/SSD
M.2	1x M.2 2280 Socket

▼ Power Supply

Watt	Redundant CRPS 1200W PSU

▼ Mechanical and Environment

Form Factor	2U Rackmount
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 600 mm(D) x 88mm(H)
Operating Temperature	Operating: 0 ~ 40°C (32 ~ 104°F)
Storage Temperature	-20 ~ 75°C (-4 ~ 167°F)
Humidity	10 ~ 85% relative humidity, non-operating, non-condensing
Weight	21 kg
Certification	CE/FCC

▼ Packing List

- 1x SCB-1937 unit
- 2x power cord
- 1x CD (Manual, Quick Installation Guide, Utilities & Drivers)

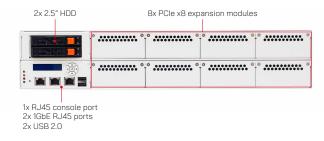## Ordering Information

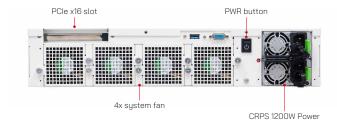|	
SCB-1937A	2U Network System with AMD® EPYC™ 7003X/7003/7002 (Milan-X/Milan/Rome) Series Processor, DDR4, 8x PCIe x8 slot s for Expansion Module, PCIe x16 slot, Console, USB 2.0 , 2xM.2 2280, IPMI

Optional

R384B	Expansion module with 8 SFP GbE ports, Intel i350-AM4		R479A	Expansion module with 4 SFP+ 10G ports, Intel 82599ES
R385B	Expansion module with 8 RJ45 GbE ports, two pairs Gen 3 bypass, Intel I350-AM4		R492A	IPMI Card with VGA for SCB-1925, ASPEED AST2500
R386A	Expansion module with 4 SFP+ 10 GbE ports, Intel XL710-BM1 w/o re-driver		R492B	VGA Card for SCB-1925, ASPEED AST2510
R387A	Expansion module with 2 QSFP+ 40 GbE ports, Intel XL710-BM2 w/o re-driver		R509A	Expansion module with 2 ZSFP+ 25GbE ports, Intel XXV710

I/O

2x 2.5" HDD   8x PCIe x8 expansion modules

PCIe x16 slot   PWR button

1x RJ45 console port
2x 1GbE RJ45 ports
2x USB 2.0

4x system fan

CRPS 1200W Power

Performance | Mainstream | Value | Entry | Industrial Firewall