

# SCB-1937C

Performance Network Appliance

## AEWIN Technologies Co., Ltd.

2U Rack-mount Network Appliance with dual AMD® EPYC™ 7003/7002 Series Processor (code name Milan/Rome), support DDR4 RDIMM up to 3200MHz, 4x PCIe Gen4 x8 slots + 2x Dual Width FHFL PCIe Gen4 x16 slots, 2x USB, 2x 1GbE, 1x Console, 1x m-SATA, 2x M.2 2280, Redundant CRPS PSU



### Features

- Support Dual AMD® EPYC™ 7003/7002 Series Processors, LGA4094
- 16x DDR4 RDIMM memory, up to 3200 MHz
- 2x Dual Width FHFL PCIe Gen4 x16 slots for GPU, 4x PCIe Gen4 Expansion Module bays
- 2x 2.5" SATA, 2x M.2 2280, 1x mSATA
- IPMI v2.0, AEWIN TSB module

### Description

The SCB-1937 is a 2U Rack-Mount high-performance networking system, supporting dual AMD® EPYC™ 7003/7002 (Milan/Rome) processors. 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 1TB 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 , or 4x Expansion Bay plus 2x Dual Width FHFL PCIe Gen4 x16 slots in SCB-1937C SKU, flexibly support new designed 2x 2.5" U.2 NVMe SSD tray, and NVIDIA® V100,A100,A30,T4 GPUs and FPGA add-on cards. 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/ 2x 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™ 7002/7003 (Rome/Milan) Processor Socket SP3, LGA4094
BIOS	AMI® UEFI BIOS

#### ▼ Memory

Technology	Total 16 DIMMs (Eight channel) ECC & Registered : DDR4 3200 MHz memory
Capacity	Up to 1TB

#### ▼ Expansion

Onboard Expansion Slots	8x PCIe Gen4 x8 slot or 4x PCIe Gen4 x8 slots + 2x Dual Width FHFL PCIe Gen4 x16 slots
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#### ▼ 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
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#### ▼ Storage

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

#### ▼ Power Supply

Watt	Redundant CRPS 1200W PSU
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#### ▼ 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	20kg
Certification	CE/FCC

#### ▼ Packing List

- 1x SCB-1937C unit
- 2x power cord
- 1x Ethernet/Console cable
- Manual, Quick Installation Guide, Utilities & Drivers)

Ordering Information

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

SCB-1937C 2U Network System with AMD® EPYC™ 7002/7003 (Rome/Milan) processor, DDR4, 2x Dual Width FHFL PCIe Gen4 x16 slots support GPU card and 4 PCIe x8 slots for Expansion Module, 1 PCIe x16 slot on rear side, Console, USB 2.0 ,2xM.2 2280, IPMI

SCB-1937B 2U Network System with AMD® EPYC™ 7002/7003 (Rome/Milan) processor, DDR4, 2 standard PCIe x16 slots and 4 PCIe x8 slots for Expansion Module, 1 PCIe x16 slot on rear side, 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

