SCB-1947
Performance Network Appliance

AEWIN Technologies Co., Ltd.

The SCB-1947 is a 2U Rackmount Single 4th Gen AMD EPYCTM 8004 Series Processor (Siena) Network Appliance, support 12x DDR5 RDIMM up to 1.152TB (96GB Per DIMM), 8x PCIe 5 x 8 slot for Network Expansion Module, 1x 2.5" Internal SATA HDD, IPMI, 2 USB, 2x 1GbE, 1x Console, miniPCIe, mSATA, 2 x M.2 2280, BMC, Redundant PSU

Features

- Single AMD EPYC 8004 Series SP6 Processor (Siena)
- Support up to 1.152TB DDR5 RDIMM 4800 MHz
- 8x PCIE Gen5 x8 for Network Expansion Module
- Support BMC/IPMI and hardware One-Key Bypass function

UTM   ADC   MEC   NGFW

Description

The SCB-1947 is a 2U Rack-Mount Network Appliance supporting Single AMD EPYC 8004 Series, Siena Processor, with breakthrough computing performance. It is with increased CPU cores up to 64 cores per EPYC 8004 processor.

The SCB-1947 supports 12 x slots DDR5 RDIMM (up to 4800 MHz) and 8x PCIe Gen5 x8 slots for Network Expansion Module. Multiple different ethernet modules are available for flexible port configuration, such as 1/10/40/100 Gigabit fiber and Gigabit Copper/Fiber with or without BYPASS function. The expansion bay can flexibly support other PCIe tray of dual-slot or single-slot off-the-shelf PCIe card such as Mellanox PCIe 5.0 400G NIC for Networking or GPU/FPGA for Edge and AI workloads.

The strong IO elements of SCB-1947 include 2x management port (one for management, another for onboard BMC/IPMI function), a console port, 2x USB, and LEDs for power/HDD/2x GPIO. In addition, the SCB-1947 also supports 2x U.2 NVMe SSD or 2x 2.5" SATA HDDs/SSDs hot-swappable trays, onboard 1x mSATA, 1x miniPCIe, and 2x M.2 slots for network storage application.

Specifications

▼ Processor System

CPU	Support Single AMD EPYC 8004 Series Processor
System Bus	xGMI up to 32Gbp/s
BIOS	AMI® UEFI BIOS

▼ Memory

Technology	Total 12 DIMMs (6 channels, 2 DIMM per channel) 12x DDR5 4800MHz R-DIMM slots
Capacity	RDIMM up to total 1.152TB

▼ Expansion

Onboard Expansion Slots	8x PCIe Gen5 x8 slots for NIC modules 2x M.2, 1x miniPCIe, 3x SATA (1x mSATA), 7x MCIO 1x rear PCIe Gen5 x16 slot for Standard PCIe card

▼ I/O

USB	2x external USB2.0 1x USB3.0 Pin Header
Serial	1x RJ45 Console port (COM1) 2x internal pin header (COM2 & COM3)

▼ Ethernet

GbE Ethernet	2x RJ45 1GbE ports on the front panel

▼ Storage

SATA	Support 2x 2.5" SATA HDD or SSD
mSATA	1x socket (co-layout)
M.2	2 M.2 2280 (1 for B+M key, 1 for M key)

▼ Power Supply

Watt	1+1 CPRS 800W AC/DC Redundant power supply (1947A) 1+1 CPRS 1200W AC/DC Redundant power supply (1947C)

▼ Mechanical and Environment

Form Factor	2U Rackmount
LED	1x Power LED (Green) 1x HDD LED (Red) 2x Status LED (Green/Amber via programmable GPIO)
Dimension (W x D x H)	438 mm(W) x 548 mm(D) x 44 mm(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	TBD
Certification	CE/FCC

▼ Packing List

- 1x SCB-1947 unit
- 2x power cord
- 1x CD (Manual, Quick Installation Guide, Utilities & Drivers)

Ordering Information

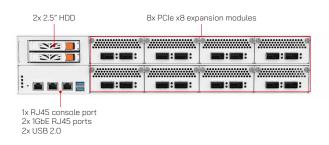|	
SCB-1947A	2U Rack-Mount, single AMD EPYC 8004 Siena SP6 processor, 12x DDR5, 8x Gen5 PCIe x8 slot for NIC, 1x Gen5 PCIe x16 slot for rear add-on card, Console, 2x GbE, 2x 2.5" SSD/HDD, mSATA, mini-PCIe, 2x M.2 2280
SCB-1947C	2U Rack-Mount, single AMD EPYC 8004 Siena SP6 processor, 12x DDR5, 2x PCIe Gen5 x16 slots for FHFL GPU/FPGA cards, 4x PCIe Gen5 x8 slots for NIC, Console, 2x GbE, 2x 2.5" SSD/HDD, mSATA, mini-PCIe, 2x M.2 2280

Optional

R642	I/O Card with Console, LAN, USB, 4x LEDs		RS090	Riser Card with 2 MCIO 8i to 1 PCIe 16 Slot for standard PCIe Card
BP014	CRPS Power Distribution Board		RS097	Riser Card with 2 MCIO 8i to 2 PCIe x8 slot
BP013	Backplane with Active LED and Fault LED support 2x 2.5" SATA tray		BP020	HDD Backplane with 1 MCIO 8i to 2 NVME CONN (SFF-8639)

I/O

2x 2.5" HDD   8x PCIe x8 expansion modules

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

PCIe x16 slot   PWR button

4x system fan   CRPS Power

Performance | Mainstream | Value | Entry | Industrial Firewall