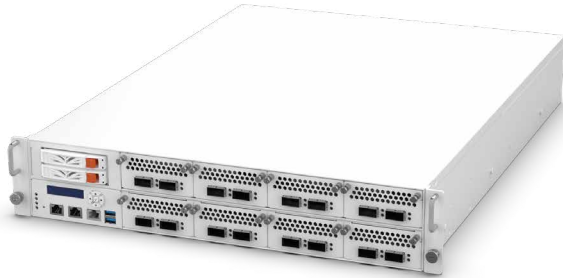


SCB-1946

Performance Network Appliance

AEWIN Technologies Co., Ltd.

2U Rackmount Dual AMD EPYC 9005/9004 Series Processors (Turin/Bergamo/Genoa) Network System, support DDR5 RDIMM up to 2TB, 8x PCIe Gen5 x8 Network Module Bays, 2x 2.5", SATA HDD hot-swappable, IPMI, USB 3.0, 2x 1GbE, 1x Console, 1x mSATA/miniPCI-E, 2x M.2, Redundant PSU



Features

- Dual AMD EPYC 9005/9004 Series Processors (Turin/Bergamo/Genoa)
- Support up to 2TB DDR5 RDIMM 6000MHz
- 8x PCIe Gen5 x8 Expansion Module bays or 2x Dual Width PCIe Gen5 slots (GPU/FPGA) + 4x PCIe Gen5 x8 Expansion Module bays
- 2x 2.5" SATA, 2x M.2 M Key, 1x mSATA
- IPMI v2.0

Description

The SCB-1946 is a 2U Rack-Mount Network Appliance supporting Dual AMD EPYC 9005/9004 Series Processors (Turin/Bergamo/Genoa) with breakthrough computing performance. It is with increased CPU cores up to 128 cores per Turin Zen5 processor.

The SCB-1946 supports 16x channels DDR5 RDIMM (up to 6000 MHz) and 16x PCIe Gen5 x8 for Network Expansion Modules. Multiple different ethernet modules are available for flexible port configuration, such as 1/10/40/100/200 Gigabit fiber and Gigabit Copper/Fiber with or without BYPASS function. And the expansion bay can flexibly support 2x 2.5" U.2 NVMe SSD tray, and GPU/FPGA add-on card trays. SCB-1946C is an ideal computing server for Edge and AI workloads.

The strong IO elements of SCB-1946 include 2x management port (one for management, another for onboard BMC/IPMI function), a console port, 1x USB3.0, 2x USB 2.0, and a graphic LCM kit. In addition, the SCB-1946 also supports 2x 2.5" hot-swappable SATA HDDs/SSDs, onboard mSATA/miniPCI-E socket, and 2x M.2 slots for diverse storage options.

Specifications

▼ Processor System

CPU	Support Dual AMD EPYC 9005/9004 Series Processors (Turin/Bergamo/Genoa) SCB-1946A/C: TDP-300W SCB-1946E: TDP-400W
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System Bus xGMI up to 32Gbp/s

BIOS AMI® UEFI BIOS

▼ Memory

Technology 6000 MHz R-DIMM slots

Capacity RDIMM up to total 2TB

▼ Expansion

Onboard	SCB-1946A: 8x PCIe Gen5 x8 slots for NIC modules
Expansion Slots	SCB-1946C/E: 2x dual width PCIe Gen5 x16 + 4x PCIe Gen5 x8 slots for NIC modules

▼ I/O

USB	2x USB 2.0 ports (Front) 1x USB 3.0 port (Rear) 1x Internal USB3.0 pin header
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Serial	1x RJ45 Console port (COM1) 2x internal pin header (COM2 & COM3)
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▼ Ethernet

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

SATA	Support 2x 2.5" SATA HDD or SSD
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mSATA/mPCIe	1x socket (co-layout)
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M.2	2x M.2 2280
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▼ Power Supply

Watt	1+1 CPRS 1200W/1300W/1600W AC/DC Redundant power supply
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▼ Mechanical and Environment

Form Factor	2U/4U Rackmount
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LED	1x Power LED (Green) 1x HDD LED (Red) 2x Status LED (Green/Amber via programmable GPIO)
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Dimension (W x D x H)	SCB-1946A/C: 440mm (W) x 600mm (D) x 88mm (H) SCB-1946E: 440mm (W) x 680mm (D) x 88mm (H)
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Operating Temperature	Operating: 0 ~ 40°C (32 ~ 104°F)
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Storage Temperature	-20 ~ 75°C (-4 ~ 167°F)
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Humidity	10 ~ 85% relative humidity, non-operating, non-condensing
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Weight	21 kg
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Certification	CE/FCC
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▼ Packing List

- 1x SCB-1946 unit
- 2x power cord
- 1x CD (Manual, Quick Installation Guide, Utilities & Drivers)

Ordering Information

SCB-1946A	2U Rack-Mount, dual SP5 AMD Genoa/Bergamo/Turin processor family, DDR5, 8 PCIe x8 slot, 1 PCIe x16 slot for rear add-on card, Console, USB2.0, US 3.0, 2 GbE, 2x 2.5" HDD, mSATA /CF, mini-PCIe, 2x M.2 2280	SCB-1946D	4U Rack-Mount, dual SP5 AMD Genoa/Bergamo/Turin processor family, DDR5, 16 PCIe x8 slot, USB2.0, USB 3.0, 2 GbE, LCM, mini-PCIe, 2x M.2 2280
SCB-1946B	2U Rack-Mount, dual SP5 AMD Genoa/Bergamo/Turin processor family, DDR5, 4 PCIe x8 slot, 2 PCIe x16 slot for 2nd layer Single Width L/P PCIe card, Console, USB2.0, USB 3.0, 2 GbE, LCM, mini-PCIe, 2x M.2 2280	SCB-1946E	2U Rack-Mount, dual SP5 AMD Genoa/Bergamo/Turin processor family, DDR5, 4 PCIe x8 slot, 2 PCIe x16 slot for 2nd layer Dual Width FHFL GPU card, USB2.0, USB 3.0, 2 GbE, LCM, mini-PCIe, 2x M.2 2280

Optional

BP009A	CRPS Power Distribution Board for 2U system	RS054A	5 pin Fan card for FAN module 180D Male connector
BP013A	Backplane with HDD Active LED and HDD Fault LED support 2 2.5", SATA HDD Tray with hot-swappable	RS055A	5 pin Fan card for FAN module 180D Female connector
R594A	TPM 2.0 module via SPI pin header, Temp -20~85degree	RS058A	Riser Card with 4x PCI-E x8 slot to 4x SlimSAS 8i for 3U Layer LAN Module
R642A	I/O card with Console, LAN, USB, 4xLEDs	RS065A	Riser card with high-speed CONN (ExaMax) to 2x SlimSAS 8i connectors
RS041A	Riser card with 2 SlimSAS x8 to 1 PCIe x16 Slot for rear standard PCIe add-on card	RS066A	Riser card with 2x SlimSAS 8i connectors to 1x PCI-E x16 slot
RS042A	Riser card with mSATA CONN to CF socket	ZRS059A	2 PCIe x8 Golden Finger to 1 PCIe x16 Slot with re-driver IC DS80PCI810NJY

I/O

