

SCB-1836

Mainstream Network Appliance

AEWIN Technologies Co., Ltd.

1U Rackmount with Intel Alder Lake CPU with R680E FCH, 4x DDR5 UDIMM, 2x USB2.0, 3x SATA III, 1x mSATA, 1x mPCIe, OTQ04B pin header, TPM 2.0 (optional), IPMI slot (R492A with dying gasp, optional), 4 x NIC module & BP003A + 300W redundant PSU



Features

- Support Intel Alder Lake CPU (12th Gen Core™ Processors), LGA1700
- 4x DDR5 UDIMM memory up to 4800MHz, up to 128GB
- 2x RJ45 1GbE ports, one Console port, 4x Expansion Module bays (2x Gen5 PCIe x8 signal in PCIe x8 slot & 2x Gen4 x4 signal in PCIe x8 slot)
- 3x SATA 3.0 socket, 1x mSATA, 1x mPCIe
- Support TPM & IPMI features

Description

The SCB-1836 is a 1 U Rack-Mount high-performance networking system, supporting 12th Gen core processors (Alder Lake-S) with increased CPU cores and threads (up to 16 cores/24 threads) for outstanding performance. Also, it is with increased L2 & L3 cache with up to 30MB Intel Smart cache which is 50% growth compared to Comet Lake one.

SCB-1836 supports total four DDR5 DIMM (two channels and 2 DIMM per channel), up to 4800MHz and 128GB to enable faster computing. As for the expansion slots, it supports the latest PCIe Gen 5 for superior performance. Combining with PCIe Gen 4 slots to have total 4x expansion slots (2x PCIe Gen 5 & 2x PCIe Gen 4 lots), the system can build the exact configurations required per cases effortlessly as it is also compatible with AEWIN various NIC cards for 1/10/25/40/100 Gigabit fiber or copper with optional Bypass function.

In addition to the great capability and function mentioned, SCB-1836 supports DPDK to accelerate packet processing to benefit the system with higher efficiency. Furthermore, it is featured with IPMI for monitoring and better managing the system intelligently. To ensure the networking security, the system is with TPM to protect its start-up process. With all the features mentioned, SCB-1836 is no doubt perfect as a performant network appliance for diverse applications.

Specifications

▼ Processor System

CPU	Support Intel Alder Lake & Raptor Lake CPU
Chipset	R680E
BIOS	AMI UEFI BIOS

▼ Memory

Technology	4 x UDIMM, DDR5 4800MHz memory
Capacity	Up to 128GB

▼ Ethernet

GbE Ethernet	2x RJ45 GbE ports
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▼ Expansion

Onboard Expansion Slots	2x PCIe Gen5 x8 slots + 2x PCIe Gen4 x8 slots
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▼ I/O

USB	2 x USB 2.0 connector + 2 x USB 3.0 pin header
Serial	1x RJ45 Console port (COM1)

▼ Storage

SATA	Support 2 x 2.5" HDD or SSD
mSATA	1x mSATA

▼ Power Supply

Watt	300W redundant PSU
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▼ Mechanical and Environment

Form Factor	1U 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 44mm(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	12 kg
Certification	CE/FCC

▼ Packing List

- 1x SCB-1836 unit
- 2x power cord
- 1x CD (Manual, Quick Installation Guide, Utilities & Drivers)

Ordering Information

SCB-1836A 1U Network System with Intel Alder Lake CPU with R680E FCH, 4 x DDR5 UDIMM, 2 x USB3.0, 3 x SATA III, 1 x mSATA, 1 x mPCIe, TPM 2.0 (optional), IPMI slot (R492A with dying gasp, optional), 4 x NIC module & BP003A + 300W redundant PSU

I/O

