SCB-1836 Mainstream Network Appliance

AEWIN Technologies Co., Ltd.

1U rack-mount system with 12th/13th Gen Intel® Core Processor (Alder Lake-S/ Raptor Lake-S) with R680E Chipset, 4x DDR5 UDIMM, 2x USB2.0, 3x SATA III, 1x mSATA, 1x mPCIe, TPM2.0, IPMI, 4x NIC module, 300W redundant PSU

UTM   ADC   MEC   NGFW

Features

- Supporting 12th/13th Gen Intel® Core™ Processor(Alder Lake), LGA1700
- 4x DDR5 UDIMM memory up to 5600MHz, max. 128GB
- 2x RJ45 1GbE ports, 1x Console port, 4x Expansion Module bays (2x Gen5 PCIe x8 signal in PCIe x8 slots & 2x Gen4 x4 signal in PCIe x8 slots)
- 1x 3.5" or 2x 2.5" HDD/SSD, 1x mSATA, 1x mPCIe
- Optional TPM2.0 & IPMI

Description

The SCB-1836 is a 1 U Rack-Mount high-performance networking system, supporting 12th/13th Gen Intel Core Processor (Alder Lake/Raptor Lake-S) with increased CPU cores and threads (up to 24 cores/32 threads) for outstanding performance. Also, it is with increased Intel Smart Cache (L3) of up to 36MB.
SCB-1836 supports total four DDR5 DIMM (two channels and 2 DIMM per channel), up to 5600MHz 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 slots), 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 optional IPMI with OT016 for monitoring and better managing the system intelligently. To ensure the networking security, the system is with optional TPM2.0 with OT004B to protect its start-up process. With all the features mentioned, SCB-1836 is perfect as a performant network appliance for diverse applications.

Specifications

▼ Processor System

CPU	12th/13th Gen Intel® Core™ Processor (Alder Lake), LGA1700
Chipset	R680E
BIOS	AMI UEFI BIOS

▼ Memory

Technology	4x DDR5 UDIMM memory, up to 5600MHz
Capacity	Up to 128GB

▼ Ethernet

GbE Ethernet	2x RJ45 GbE ports

▼ Expansion

Onboard Expansion Slots	2x PCIe Gen5 x8 slots + 2x PCIe Gen4 x8 slots (PCIe x4 signal) 1x PCIe Gen3 x8 slot (PCIe x4 signal) at rear
Expansion mPCIe	1x miniPCIe slot

▼ I/O

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

▼ Storage

SATA	1x 3.5" or 2x 2.5" HDD/SSD
mSATA	1x mSATA

▼ Power Supply

Watt	Single 350W or redundant 300W PSU

▼ 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/ Raptor Lake CPU with R680E FCH, 4x DDR5 UDIMM, 2x USB3.0, 3x SATA III, 1x mSATA, 1x mPCIe, TPM 2.0 (optional), IPMI slot(R492A with dying gasp, optional), 4 x NIC module & BP003A + 300W redundant PSU

I/O

Keypad

LCM Kit

1 Standard PCIe x16 slot

PWR/HDD/2xGPO LEDs

Console
MGMT
IPMI(Option)
2x USB 3.0

2x PCIe Gen5 x8 slots +
2x PCIe Gen4 x8 slots

4x System FANs

single 350W or
redundant 300W PSU