

SCB-1833

Mainstream Network System

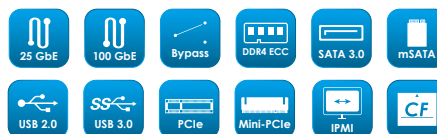
AEWIN Technologies Co., Ltd.

1U rack-mount system with AMD® Ryzen™ 3000 series CPU with X570 FCH, 4x DDR4 3200MHz DIMM, 2x USB2.0, 2x SATA III, 1x mSATA/CF, 1x mPCIe, TPM 2.0 / Trusted secure boot module (optional), IPMI with dying gasp (optional), 4x Network Expansion module



Features

- Support 3rd generation AMD® Ryzen™ processors
- Support 2x PCIe Gen4 Expansion Modules which support 128Gb bandwidth and 2x PCIe Gen3 Expansion Modules
- Support TPM/trusted secure boot (BIOS recovery) & IPMI with Dying Gasp feature



Introduction

The SCB-1833 is a 1U Rack-Mount high-performance networking system, that supports a single AMD® Ryzen™ 3000 series CPU with X570 FCH. It is based on 7nm Zen2 architecture to deliver breakthrough computing performance with support for CPU up to 8 cores / 16 Threads with PCIe Gen4 support.

The SCB-1833 supports 4x DDR4 ECC DIMM (up to 3200MHz) in dual channels and maximum memory capacity up to 128GB. The SCB-1833 can support up to 4 NIC modules, support multiple Ethernet module bays for flexible port configuration, such as 1/10/25/40/100 Gigabit fiber or copper with optional Bypass function. The maximum capable Ethernet port is up to 32x 1GbE ports. SCB-1833 supports standard FHHL PCIe slot for RAID or others PCIe device usage in rear.

The strong IO elements of SCB-1833 include two management Ethernet port (one for management, another for optional IPMI function), optional TPM2.0 or Trusted Secure Boot module, a console port, two USB 3.0 ports, a Graphic LCD module with keypad (5 key), LEDs for power/ HDD/ 2 x GPIO, and one miniPCIe slot for WiFi or other modules. In addition, the SCB-1833 also supports one 3.5" or two 2.5" SATA HDDs/SSDs, onboard one mSATA/CF slots for basic storage application.

Specifications

▼ Processor System

CPU	AMD® Ryzen™ 3600 / 3700X
Chipset	X570
BIOS	AMI UEFI

▼ Memory

Technology	DDR4 3200MHz ECC DIMM
Capacity	128GB (4x DIMM)

▼ Ethernet

GbE Ethernet	2x 1GbE RJ45
LAN Bypass	-

▼ Storage

SATA	1x 3.5" or 2x 2.5" HDD/SSD
mSATA	(CF co-lay mSATA)

▼ Expansion Slots

Front side	4x AEWIN Network Expansion Module (2x PCIe Gen4 x8 & 2x PCIe Gen3 x4)
Rear side	1x PCIe x8 slot (x4 signal)
Inside	1x mPCIe

▼ I/O

USB	2x USB 2.0 & 2x USB2.0 pin header & 2x USB 3.0 pin header
Serial	1x console & 1x LCM

▼ Power Supply

Watt	250W ATX
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▼ Mechanical and Environmental

Form Factor	1U Rack-mount
LED	2x Status LED(Green / Red via programmable GPIO) 1x Power LED (Yellow) 1x HDD LED (Green)
Dimension (W x D x H)	438mm (W) x 510mm (D) x 44m (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	9 kg
Certification	CE / FCC / LVD

▼ Packing List

- 1x SCB-1833 unit
- 1x power cord

Optional

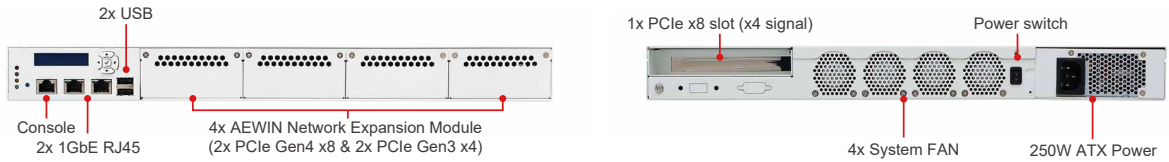
Module	
OT004A	Trusted Secure Boot to restore defected M/B BIOS
R492A	IPMI module with dying gasp
AEWIN NIC	All AEWIN Expansion Module series

* Note : All specifications are subject to change without prior notice

Order information

Standard	
SCB-1833A	1U rack-mount system with AMD Ryzen 3600 platform with X570 FCH, 4x DDR4, CF/mSATA, 1x mPCIe, 4xPCIe slots for Network Expansion Module and 1x PCIe x8 slot for add-on card
SCB-1833B	1U rack-mount system with AMD Ryzen 3700X platform with X570 FCH, 4x DDR4, CF/mSATA, 1x mPCIe, 4x PCIe slots for Network Expansion Module and 1x PCIe x8 slot for add-on card

I/O



Dimension

