

SCB-1826

Mainstream Network System

AEWIN Technologies Co., Ltd.

1U Rack-mount single 10th Generation Intel® Core™ processor (Comet Lake S) networking System, support DDR4 2933MHz up to 128GB, 4x PCIe slots for Network Expansion Module, 2x USB2.0, 2x 1GbE, 1x Console, 1x M.2 2280/2242 or 1x CF, IPMI or mPCIe, PCIe x16 slot, Redundant / Single PSU



Features

- Support Intel® Comet Lake Series Processor, LGA1200
- 2-channel DDR4 ECC 2933MHz Memory, max support 128GB
- Support TPM/trust secure boot (BIOS recovery) & IPMI with Dying Gasp feature



Introduction

The SCB-1826 is a 1U Rack-Mount high-performance networking system, that supports a single 10th Generation Intel® Core™ processor for IoT applications. It is based on Intel's new 14nm Comet Lake architecture to deliver breakthrough computing performance. CPU up to 10 cores / 20 Threads, 20MB cache, and maximum turbo frequency of 4.8GHz.

The SCB-1826 supports 4x DDR4 ECC DIMM (up to 2933MHz) in dual channels and maximum memory capacity up to 128GB. With total 24 PCI Express lanes, the SCB-1826 can support up to 4 NIC modules, support multiple Ethernet module bays for flexible port configuration, such as 1/10/25/40/100Gigabit fiber or copper with optional Bypass function. The maximum capable Ethernet port is up to 32x 1GbE ports. SCB-1826 supports standard FHHL PCIe slot for RAID or others PCIe device usage in rear.

The strong IO elements of SCB-1826 include two management Ethernet port (one for management, another for optional IPMI function), a console port, two USB 2.0 ports, a Graphic LCD module with keypad (5 key), LEDs for power/ HDD/ 2 x GPIO. In addition, the SCB-1826 also supports one 3.5" or two 2.5" SATA HDDs/SSDs, onboard one M.2 M key 2280/2242 slots for basic network storage application.

Specifications

▼ Processor System

CPU	Intel Comet Lake up to 95W
Chipset	W480
System Bus	DMI 3.0 x 4
BIOS	AMI UEFI

▼ Memory

Technology	DDR4 2933 ECC/non-ECC
Capacity	128GB (4x DIMM)

▼ Ethernet

GbE Ethernet	2x 1GbE RJ45
LAN Bypass	-

▼ Storage

SATA	1x 3.5" or 2x 2.5" HDD/SSD
M.2	1x M Key 2242/2280 (SCB-1826A only)
CompactFlash Socket	1x (SCB-1826B only)

▼ Expansion Slots

Front side	4x AEWIN Network Expansion Module (2x PCIe Gen3 x8 & 2x PCIe Gen3 x4)
Rear side	1x PCIe x8 slot (x4 signal)
Inside	1x mPCIe (SCB-1826B only)

▼ I/O

USB	2x USB 2.0
Serial	1x console & 1x LCM

▼ Power Supply

Watt	300W Redundant ATX PSU (SCB-1826A) 250W Flex ATX PSU (SCB-1826B)
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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 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	9 kg
Certification	CE / FCC / LVD

▼ Packing List

- 1x SCB-1826 unit
- 1x power cord

Optional

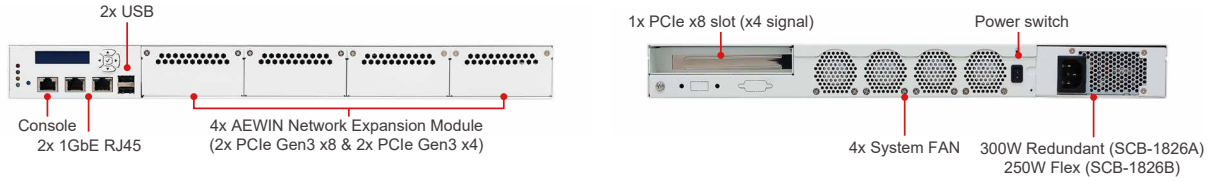
Module	
OT004A	Trusted Secure Boot to restore defected M/B BIOS
R492A	IPMI module with dying gasp
AEWIN NIC	All AEWIN Expansion Module series

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

Order information

Standard	
SCB-1826A	1U Rack-Mount, Intel Comet lake-S processor with W480 PCH, 4xDDR4, 2xRJ45 1GbE, Console, USB, 4xSATA, M.2 M Key 2242/2280,IPMI slot, 2x USB2.0, 4xPCIEslots for Network Expansion Module, 1xPCIEx4 slot for add-on card
SCB-1826B	1U Rack-Mount, Intel Comet lake-S processor with W480 PCH, 4xDDR4, 2xRJ45 1GbE, Console, USB, 4xSATA, CF,mPCle, 2x USB2.0, 4xPCIEslots for Network Expansion Module, 1xPCIEx4 slot for add-on card

I/O



Dimension

