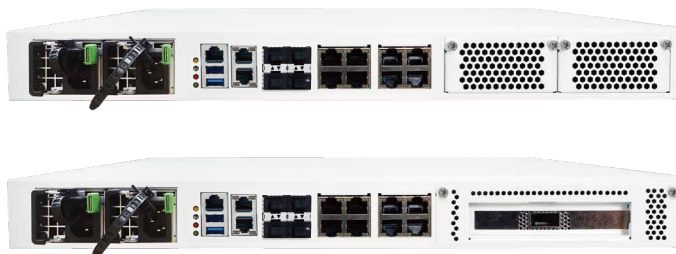


# SCB-1830

MEC System

## AEWIN Technologies Co., Ltd.

1U Rack-Mount Network Appliance featuring Intel Xeon D-2100 (Skylake-D) Series Processor, 4x DDR4 memory slots, Console port, 2x USB 3.0, 2x 1GbE RJ45 (Intel i210-AT), 8x 1GbE RJ45 (Intel i350-AM4), 4x 10GbE SFP+ (Inphi CS4223), 2x half-height PCIe x8 (for 2x T4) or 1x full-height PCIe x16 front access expansion slots, 2x 2.5" SATA drives, 1x mSATA, 1x M.2, 1x Mini PCIe



### Features

- Support Intel Xeon D-2100 (Skylake-D) processors
- Support 2400/2666 MHz System Memory
- 2x PCIe x8 or 1x PCIe x16 for NIC, GPU or FPGA
- Support Intel® QAT (by SKU)

## Introduction

The SCB-1830 is a 1U rack-mounted hardware platform designed for network service applications. Built with Intel® Embedded IA components with warranty of longevity, the SCB-1830 support single Intel® 14nm Skylake-D Xeon D-2100 Series processors. The platform supports four un-buffered and non-ECC DDR4 2400/2666MHz DIMM sockets with max capacity up to 128 GB. In order to provide the best network performance and best utilization, the powerful storage interfaces include two 2.5" SATA drives and one mSATA. The SCB-1830 is designed with multiple network connection ports as well as dedicated slots for installing 2x HHHH T4 GPU or FPGA accelerators, or optionally 1x PCIe x16 full-height slot. The front panel also has one USB 3.0 ports, one RJ-45 console port and LED indicators that monitor power and storage device activities for local system management, maintenance and diagnostics. In addition, the SCB-1830 is RoHS, FCC and CE compliant.

## Specifications

### ▼ Processor System

CPU	Intel® Skylake-D Xeon® D-2100 Series, FCBGA2518
Chipset	SoC integrated
BIOS	AMI® 64Mb SPI BIOS

### ▼ Memory

Technology	4x channel, DDR4 2400/2666 MHZ ECC, un-buffered memory or none ECC UDIMM
Capacity	Max up to 128GB

### ▼ Expansion

Onboard	-2x half-height PCIe x8 (for 2x T4) or
Expansion Slots	1x full-height PCIe x16 -1x PCI-E x8 slot for standard PCI-E slot (Option)

### ▼ Ethernet

GbE Ethernet	10x 1GbE RJ45 ports 4x 10GbE SPF+ ports
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### ▼ Storage

SATA	2x 2.5" SATA HDD
CompactFlash / mSATA Socket	1x mSATA(Reserve CF socket design, Option)

### ▼ I/O

USB	2x external USB 3.0 port(Front Side) 1x internal USB 3.0(Rear Side)
Serial	1x RJ45 Console port (COM1)

### ▼ Power Supply

Watt	1U Redundant 300W ATX Power Supply
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### ▼ Mechanical and Environmental

Form Factor	1U rack-mount
LCD Module	16 x 2 LCM
Keypad	5 x buttons keypad
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 450mm (D) x 44mm (H) (17.3"W x 17.7"D x 1.7"H)
Operating Temperature	Operating: -5 ~ 50°C ( 23 ~ 122°F )
Storage Temperature	-20 ~ 75°C (-4 ~ 167°F)
Humidity	5 ~ 95% relative humidity, non-operating, non-condensing
Weight	10kg
Certification	CE/FCC

#### ▼ Packing List

- 1x SCB-1930 unit
- 2x power cord
- 1x CD (Manual, Quick Installation Guide, Utility Driver)

## I/O Mechanical Layout

