

# SCB-1830

Mainstream Network System

## AEWIN Technologies Co., Ltd.

1U Rack-Mount, Intel Skylake-D Xeon D-2100 Series Processor, 4x DDR4, 2 PCI-e x8 slots for Expansion Module , Console, 2x USB 3.0, 2x GbE RJ45(Intel i210-AT), 8x GbE RJ45(Intel i350-AM4), 4x 10G SFP+(Inphi CS4223), SATA HDD, mSATA, M.2, Mini PCI-e



### Features

- Support Intel® Xeon® D-2100(Skylake-DE) processors
- 4-channel DDR4 ECC/Registered 2400/2666 MHz memory, up to 128GB
- Support Intel® QAT(by SKU)
- 10x RJ45 GbE and 4x SFP+ ports, support 2x NIC expansion modules
- 1x riser card for PCIe x8 expansion slot to Rear
- 2x 2.5" HDD/SSD, 1x mSATA
- Support IPMI
- Support Dying GASP by BMC(IPMI Port)

### 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 DDR4 2400/2666 MHz Registered Buffer RDIMM or LRDIMM 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 HDD and one mSATA. The SCB-1830 also supports two PCIe x8 expansion slot and affords 2 GbE and max 30 GbE Ethernet ports on the front-panel. 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, Registered Buffer RDIMM or LRDIMM
Capacity	Max up to 128GB

#### ▼ Expansion

Onboard	1.On board IPMI with VGA support
Expansion Slots	2.2x PCIe x8 slot

#### ▼ Ethernet

GbE Ethernet	2x RJ45 GbE ports ( IPMI / MGMT Port ) 8x RJ45 Gbe 4x 10G SFP+
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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: 0 ~ 40°C ( 32 ~ 104°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-1830 unit
- 1x power cord
- 1x CD (Manual, Quick Installation Guide, Utility Driver)

▼ **Ordering Information**

Standard	
SCB-1830A	1U Rack-Mount, Intel Skylake-D Xeon D-2187NT Processor, 4x DDR4, 2 PCI-e x8 slots for Expansion Module , Console, 2x USB 3.0, 2x GbE RJ45 ( Intel i210-AT ) ,8x GbE RJ45 ( Intel i350-AM4 ) , 4x 10G SFP+ ( Inphi CS4223 ) , SATA HDD, mSATA, M.2, Mini PCI-e
SCB-1830B	1U Rack-Mount, Intel Skylake-D Xeon D-2166NT Processor, 4x DDR4, 2 PCI-e x8 slots for Expansion Module , Console, 2x USB 3.0, 2x GbE RJ45 ( Intel i210-AT ) ,8x GbE RJ45 ( Intel i350-AM4 ) , 4x 10G SFP+ ( Inphi CS4223 ) , SATA HDD, mSATA, M.2, Mini PCI-e
SCB-1830C	1U Rack-Mount, Intel Skylake-D Xeon D-2145NT Processor, 4x DDR4, 2 PCI-e x8 slots for Expansion Module , Console, 2x USB 3.0, 2x GbE RJ45 ( Intel i210-AT ) ,8x GbE RJ45 ( Intel i350-AM4 ) , 4x 10G SFP+ ( Inphi CS4223 ) , SATA HDD, mSATA, M.2, Mini PCI-e

Optional	
R384A	Expansion module with 8 SFP GbE ports, Intel 82580EB
R384B	Expansion module with 8 SFP GbE ports, Intel i350-AM4
R385A	Expansion module with 8 RJ45 GbE ports with two pairs Gen.3 bypass, Intel 82580EB-AM4
R385B	Expansion module with 8 RJ45 GbE ports, two pairs Gen 3 bypass, Intel I350-AM4
R385C	Expansion module with 8 RJ45 GbE ports, Intel i350-AM4
R588A	Expansion module with 8 RJ45 GbE ports, four pairs Gen 3 bypass, Intel 82580EB
R386A	Expansion module with 4 SFP+ 10 GbE ports, Intel XL710-BM1 w/o re-driver
R387A	Expansion module with 4 SFP+ 10 GbE ports, Intel XL710-BM1 w/o re-driver
DK002	Cable development kit: 46L-CO5204-00 Cross over 2M 46L-DB9200-01 Null modem cable 2M 46L-EC5200-00 Ethernet cat.5 cable 2M 46L-IPS200-00 KB/MS cable, 15CM 46L-IUSB2B-00 USB cable, 25CM 46L-IVGA01-00 VGA cable, 20CM 46L-RJDB91-00 RJ-45 to DB-9 cable 2M

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

## I/O Mechanical Layout

