SCB-1820

Performance
Network System | Mainstream
Network System | Entry
Network System | Desktop
Network System | Industrial
DIN-Rail Box PC

SCB-1820 Mainstream Network System

AEWIN Technologies Co., Ltd.

2U Rack-Mount, Intel® Coffeelake-S processor with C246 PCH, 4x DDR4, 2x RJ45 GbE, Console, USB, 4x SATA, CF, mSATA, 2x USB2.0, 8x PCIe(x8) slots for LAN card, 1x PCIe(x4) slot for VPN card, Redundant PSU

■ Features

- Support Intel® Xeon® processor E3-1200 V6 & 8th Core i7/i5/i3 Series processor, LGA 1151
- 2-channel DDR4 ECC/Non-ECC 2133 MHz memory, max support 64GB
- Max support 8x PCIe(x8) slots for expansion LAN module, up to 64 GbE Copper / Fiber ports
- 2x 2.5" or 3.5" HDD/ SSD
- Support 2U ATX Redundant Power Supply

GbE | 10 GbE | 40 GbE | Bypass | Fiber | DDR4 | DDR4 ECC | CF

SATA 3.0 | mSATA | USB 3.0 | USB 2.0 | 3.5" HDD | 2.5" HDD | HDMI

Introduction

The SCB-1820 is 2U Rack-Mount hardware networking system for fit all networking solutions by using New Intel® 14nm micro-architecture Coffee-Lake-S platform with efficient performance processor Xeon E3-1200 V6 family / 8th Core i7/i5/i3 and the Intel® C246 series chipse. With the next generation 3-D tri-gate design, the adoption of the 8th generation Intel® Core™ processor comes with the promise to enhance processor performance, while lowering the TDP. A new socket type, LGA 1151, has also been released for the die-shrinking architecture.

The SCB-1820 is enhancement in computing performance; system responsiveness with Intel® E3-1200 V6 processor, supporting Four DDR4 Non-ECC/ECC DIMM slots (up to 2666 MHz) and maximum memory capacity is up to 64 GB. The SCB-1820 can support up to 8 NIC modules, supporting multiple Ethernet module bays for flexible port configuration; such as 10Gigabit SFP+, Gigabit copper with LAN BYPASS function or not and Gigabit fiber ports. The maximum capable Ethernet port is up to 64GbE ports.

The strong IO elements of SCB-1820 include two management Ethernet ports, a console port, two USB ports, LEDs for power/ HDD/ 2x GPO. In addition, the SCB-1820 also supports inside 2x 2.5" SATA HDDs/SSDs & 1x 3.5" HDD swappable and onboard m-SATA slot & CF for basic network storage application.

▼ Processor System

CPU	Support Single Intel® Coffee-Lake-S E3-1200 V6 Series and 8th Core i7/i5/i3 processors, LGA 1511
Chipset	Intel® C246 PCH
DMI	Up to 8GT/s
BIOS	AMI® UEFI BIOS

▼ Memory

Technology	Dual-channel, ECC/Non-ECC, un-buffered, DDR4 2666MHz memory per DIMM
Capacity	UP to 64GB with 4 DIMM socket

▼ Expansion

Onboard Expansion Slots	-8x PCI-E(x8) slot for expansion NIC module -1x PCI-E(x8) slot for standard PCI-E slot (Option)

▼ I/O

USB	2x external USB 2.0 port 1x internal USB 2.0 pin header 1x internal USB3.0 pin header
Serial	1x RJ45 Console port (COM1) 1x internal 5x2 pin header (COM2)

▼ Ethernet

GbE Ethernet	2x RJ45 GbE ports

▼ Storage

SATA	1x 3.5" & 2x 2.5" SATA HDD or SSD
Compact Flash	1x CF socket
m-SATA	1x m-SATA socket

▼ Power Supply

Watt	2U Redundant 300W ATX Power Supply

▼ Mechanical and Environment

Form Factor	2U rack-mount
LED	1x Power LED (Green) 1x HDD LED (Red) 2x Status LED (Green/Yellow via programmable GPIO)
Dimension (W x D x H)	426mm (W) x 510mm (D) x 89mm (H) (16.8"W x 20.1"D x 3.5"H)
Operating Temperature	Operating: 0 ~ 40°C (32 ~ 104°F)
Storage Temperature	-45 ~ 75°C (-49 ~ 167°F)
Humidity	10 ~ 85% relative humidity, non-operating, non-condensing
Weight	20 kg/44 lb
Certification	CE/FCC

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

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▼ Packing List
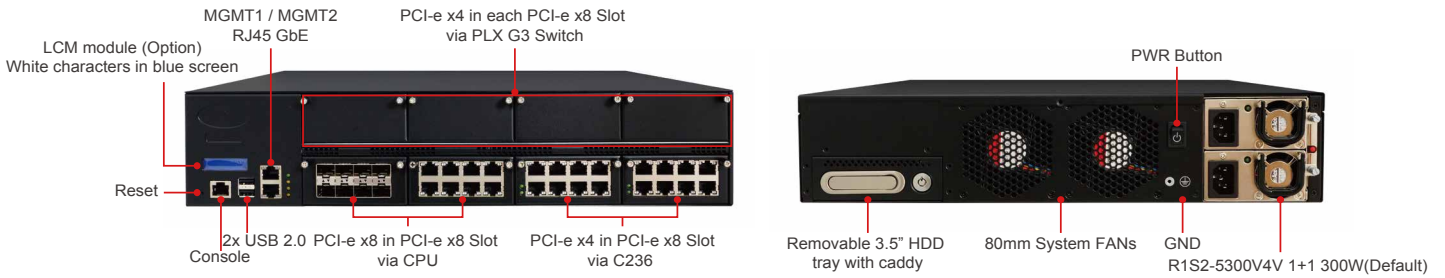- 1x SCB-1820 unit
- 2x power cord
- 1x CD (Manual, Quick Installation Guide, Utility Driver)

▼ Ordering Information

Standard	
SCB-1820A	2U Rack-Mount, Intel Coffee-lake-S processor with C246 PCH, 4x DDR4, 2x RJ45 GbE, Console, 4x SATA, CF, m-SATA, 2x USB2.0, 8x PCIe(x8) slots for LAN card, 1x PCIe(x4) slot for VPN card, Redundant PSU

Optional	
R386A	Expansion module with 4 SFP+ 10 GbE ports, Intel XL710-BM1 w/o re-driver
R387A	Expansion module with 2 QSFP+ 40 GbE ports, Intel XL710-BM2 w/o re-driver
R405A	Expansion module with 4 SFP GbE ports, Intel I350-AM4
R406A	Expansion module with 4 RJ45 GbE ports, two pairs Gen3 bypass, Intel I350-AM4
R445A	Expansion module with 2 SFP+ 10 GbE ports, Intel 82599ES w/o re-driver
R445B	Expansion module with 2 SFP+ 10 GbE ports, Intel X710-BM2 w/o re-driver
R471D	Expansion module with 8 RJ45 GbE ports, four pairs Gen 3 bypass, Intel I350-AM4, with PCIe switch IDT89HPES16T4AG2
R472B	Expansion module with 8 SFP GbE ports, Intel I350-AM4, with PCIe switch IDT89HPES16T4AG2
R479A	Expansion module with 4 SFP+ 10G ports, Intel 82599ES with PCIe Switch PLX PEX8642
R498A	Expansion module with 4 x SFP ports and 4 x RJ45 GbE ports, two pairs G3 bypass, Intel i350-AM4 & IDT89HPES16T4AG2 Switch
R514A	Expansion module with 4 SFP GbE ports, two pair Gen3 bypass, Intel i350-AM4
R516A	Expansion module with 2 SFP+ 10GbE ports, one pair Gen3 bypass, Intel 82599ES
R516B	Expansion module with 2 SFP+ 10GbE ports, one pair Gen3 bypass, Intel X710-BM2
R518A	Expansion module with 4 SFP+ 10GbE ports, two pair Gen3 bypass, Intel 82599ES with PCIe Switch PLX PEX8642
R519A	Expansion module with 4 SFP+ 10GbE ports, two pair Gen3 bypass, Intel XL710-BM1

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MGMT1 / MGMT2 RJ45 GbE

PCI-e x4 in each PCI-e x8 Slot via PLX G3 Switch

LCM module (Option) White characters in blue screen

PWR Button

Reset

2x USB 2.0
Console

PCI-e x8 in PCI-e x8 Slot via CPU

PCI-e x4 in PCI-e x8 Slot via C236

Removable 3.5" HDD tray with caddy

80mm System FANs

GND
R1S2-5300V4V 1+1 300W(Default)

■ Dimensions