SCB-1921

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

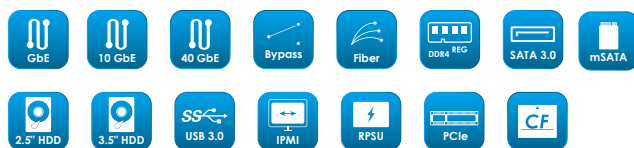# SCB-1921 Performance Network System

AEWIN Technologies Co., Ltd.

2U Rack-Mount with Dual 2nd Generation Intel® Xeon® Scalable Processors with Intel® C624 PCH Network System, support DDR4 up to 768GB, 8x PCIe x8 slot for expansion LAN module, 2x 2.5'' SATA HDD/SSD with Hot-Plugging, IPMI, 2x USB 3.0, 2x GbE, Console, CF, mSATA, M.2, PCIe x16 slot, Redundant PSU

■ Features

- Support Dual 2nd Generation Intel® Xeon® Scalable Processors, LGA3647
- Support Max 768GB DDR4 2400/2666MHz System Memory
- Max support 8x PCIe x8 slots for expansion LAN modules, up to 64 GbE Copper / Fiber ports
- Support IPMI card with VGA (Optional)

[Icons: GbE | 10 GbE | 40 GbE | Bypass | Fiber | DDR4 REG | SATA 3.0 | mSATA]
[Icons: 2.5" HDD | 3.5" HDD | USB 3.0 | IPMI | RPSU | PCIe | CF]

Introduction

The SCB-1921 is a 2U Rack-Mount high-performance networking system. Support 2nd Generation Intel® Xeon® Scalable Processors included Skylake & Cascade Lake Processor with Intel® C624 PCH (codenamed Lewisburg). The new generation platform provides highly performance, CPU cores up to 28 cores, supports AVX-512 instructions, Ultra Path Interconnect (UPI) up to 10.4 GT/s.

The SCB-1921 supports 12 channels DDR4 register ECC DIMM (up to 2666MHz) and maximum memory capacity is up to 768GB. With 64 PCI Express lanes, the SCB-1921 can support up to 8 NIC modules, support multiple Ethernet module bays for flexible port configuration; such as 1/10/40 Gigabit fiber, Gigabit copper with BYPASS function or not. The maximum capable Ethernet port is up to 64GbE ports.

The strong IO elements of SCB-1921 include two management Ethernet port (one for management, another for option IPMI function), a console port, 2x USB 3.0 ports, LEDs for power/ HDD/ 2x GPO. In addition, the SCB-1921 also supports 2x 2.5" SATA HDD/SSD with Hot-Plugging and onboard CompactFlashTM/ m-SATA/ M.2 slot for basic network storage application.

Specifications

▼ Processor System

CPU	Support Dual 2nd Generation Intel® Xeon® Scalable Processors, Socket P, LGA3647
Chipset	Intel® Lewisburg C624 PCH
System Bus	UPI up to 10.4 GT/s
BIOS	AMI® UEFI BIOS

▼ Memory

Technology	Total 24 DIMMs (6x channels per CPU, 2x DIMMper channel, 12x DIMMs per CPU) 1.ECC & Registered： DDR4 2133/2400/2666 MHz memory, up to 32GB per DIMM 2.LRDIMM： DDR4 2133/2400/2666 MHz, up to 32GB per DIMM
Capacity	ECC RDIMM：up to 768GB LRDIMM：up to 768GB

▼ Expansion

Expansion Slots	1x SO-DIMM slot for IPMI card with VGA support 8x PCIe(x8) slots for NIC module 1x PCIe(x8) slot for Standard PCIe card

▼ I/O

USB	2x external USB 3.0 port 1x internal USB 3.0 pin header
Serial	1x RJ45 Console port (COM1) 1x internal 5x2 pin header (COM2)

▼ Ethernet

GbE Ethernet	2x RJ45 GbE ports
10GbE Ethernet	4x SFP+ 10GbE ports

▼ Storage

SATA	Support 2x 2.5" SATA HDD or SSD
mSATA	1x m-SATA socket
CompactFlash Socket	1x CompactFlashTM Type II (Optional)
M.2	1x M.2 2280 socket

▼ Power Supply

Watt	Redundant 800W Power Supply

▼ Mechanical and Environment

Form Factor	2U rack-mount
LED	1x Power LED (Green) 1x HDD LED (Red) 1x Status LED (Green/Yellow via programmable GPIO)
Dimension (W x D x H)	440mm (W) x 708mm (D) x 88mm (H) (17.3"W x 27.8"D x 3.4"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	19kg/41.9lbs
Certification	CE/FCC

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SCB-1921

Performance | Network System

Mainstream | Network System

Entry | Network System

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Industrial DIN-Rail Box PC

▼ **Packing List**

- 1x SCB-1921 unit
- 2x power cord
- 1x CD (Manual, Quick Installation Guide, Utility Driver)

▼ **Ordering Information**

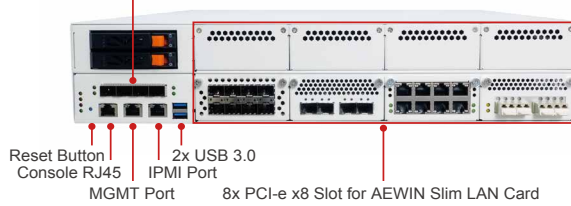| Standard	
SCB-1921A-A	2U Rack-Mount, Intel Skylake-SP processor with C624 PCH, DDR4, 12x PCIe(x8) slots for Expansion Module, PCIe slot, Console, USB3.0, 4x10GbE, 2GbE, 2x 2.5 SATA, m-SATA, M.2 2280

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
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
R385D	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 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 with two pairs Gen.3 bypass, Intel® i350-AM4
R434A	Expansion module with 4 RJ45 GbE and 4 SFP GbE ports, two pairs Gen3 bypass, Intel 82580EB
R434B	Expansion module with 4 RJ45 GbE and 4 SFP GbE ports, two pairs Gen3 bypass, Intel I350-AM4
R455A	Expansion module with 2 SFP+ 10 GbE ports, Intel 82599ES w/o re-driver
R455B	Expansion module with 2 SFP+ 10 GbE ports, Intel X710-AM2 w/o re-driver
R479A	Expansion module with 4 SFP+ 10G ports, Intel 82599ES with PCIe Switch PLX PEX8624
R406A	Expansion module with 4 RJ45 GbE ports, Intel I350-AM4
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, Intel82599ES
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 PEX8624
R519A	Expansion module with 4 SFP+ 10GbE ports, two pair Gen3 bypass, Intel XL710-BM1

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

4x KR 10G LAN card (R521A)

PWR Button

Reset Button
Console RJ45
MGMT Port
IPMI Port
2x USB 3.0
8x PCI-e x8 Slot for AEWIN Slim LAN Card

4x System Fan   2U 1+1ATX 800W Redundant PSU

■ **Dimensions**