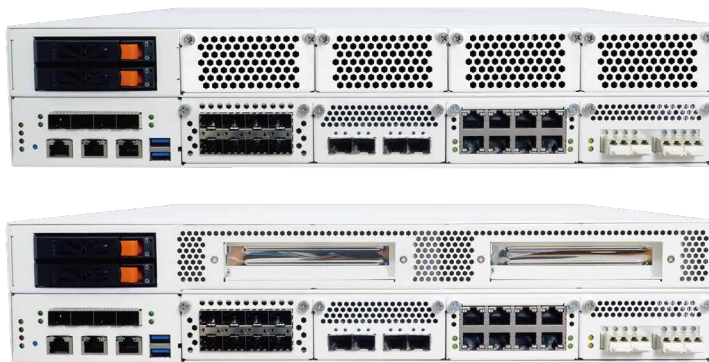# SCB-1921 Performance Network System

AEWIN Technologies Co., Ltd.

2U Rack-Mount Edge Computing Server featuring Dual 2nd Gen Intel Xeon Scalable Processors with Intel C620 series PCH. Supporting DDR4 memory up to 2933MHz, 4x half-heigh PCIe x8 (for 4x T4) or 2x full-height PCIe x16 front access expansion slots, 4x PCIe x8 Network Expansion Module, 2x 2.5'' SATA HDD/SSD with Hot-Plugging, IPMI, 2x USB 3.0, 2x 1GbE, 1x Console, 1x CF, 1x mSATA, 1x M.2, Redundant PSU

■ Features

- Support Dual 2nd Gen Intel Xeon Scalable Processors
- Support 2933MHz System Memory
- 4x PCIe x8 for Network Expansion Module, plus 4x PCIe x8 or 2x PCIe x16 for GPU or FPGA

Introduction

The SCB-1921 is a 2U Rack-Mount high-performance edge computing system, supporting 2x 2nd Gen Intel Xeon Scalable Processors including Skylake & Cascade Lake Processors with Intel® C624 PCH (codenamed Lewisburg). The new generation platform provides high performance with CPU up to 28 cores, AVX-512 instructions, and Ultra Path Interconnect (UPI) up to 10.4 GT/s.

The SCB-1921 supports total 12 channels DDR4 RDIMM (up to 2933MHz). With 64 PCI Express lanes, up to 4x NVIDIA T4 or other HHHL expansion cards can be installed or optionally 2x full-height PCIe x16 slots.

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 2666/2933MHz memory,up to 32GB per DIMM 2.LRDIMM：DDR4 2666/2933MHz, 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 -4x PCIe(x8) slots for NIC module -4x half-heigh PCIe x8 (for 4x T4) or 2x full-height PCIe x16 -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 1GbE RJ45 ports

▼ Storage

SATA	Support 2x 2.5" SATA HDD or SSD
mSATA	1x mSATA 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: -5 ~ 50°C (23 ~ 122°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

▼ **Packing List**

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

I/O Mechanical Layout

4x KR 10G LAN card (R521A)

PWR Button

Reset Button
Console RJ45   IPMI Port
2x USB 3.0

MGMT Port

4x half-heigh PCIe x8 (for 4x T4)
or 2x full-height PCIe x16

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