

# SCB-1931

Performance Network Appliance

## AEWIN Technologies Co., Ltd.

1U Rackmount Single 3rd Gen Intel Xeon Scalable Processor (Ice Lake-SP) and Intel® C621A PCH Network Appliance, support DDR4 RDIMM/LRDIMM and Intel Optane up to 3TB, 4x PCIe Gen4 x8 slots for Network Expansion Module, 1x 2.5" SATA HDD/SSD, IPMI, USB 3.0, 2x 1GbE, 1x Console, CF/mSATA/miniPCI-E, M.2, Redundant 550W PSU



### Features

- Support 3rd Gen Intel Xeon® Scalable Processor(Ice Lake-SP), Socket P+, LGA4189
- Support up to 3TB DDR4 RDIMM/LRDIMM 3200MHz & Intel® Optane™ Persistent Memory 200 series
- Max support 4x PCIe Gen4 x8 slots for Network Expansion Module
- Support BMC/IPMI & hardware One-Key Bypass function

### Description

The SCB-1931 is a 1U Rack-Mount hardware networking system. Supporting Intel® Whitley/Ice Lake-SP with efficient performance processor Xeon® scalable series and Intel® C621A PCH (codenamed Lewisburg). The new generation platform provides higher performance and increased CPU cores up to 40 cores. The SCB-1931 supports 8x channels DDR4 RDIMM/LRDIMM (up to 3200 MHz) and Intel Optane PMem to have Max. capacity of 3TB. With 64 PCI Express lanes per CPU, the SCB-1931 can support up to 4x Network Expansion Modules. Multiple different ethernet modules are available for flexible port configuration, such as 1/10/40/100 Gigabit fiber and Gigabit Copper/Fiber with or without BYPASS function.

The strong IO elements of SCB-1931 include two management port (one for management, another for option IPMI function), a console port, USB ports, LEDs for power/ HDD/ 2x GPIO. In addition, the SCB-1931 also supports one 2.5" SATA HDD/SSD and onboard Compact Flash™/m-SATA/miniPCI-E, M.2 slot for network storage application.

### Specifications

#### ▼ Processor System

CPU	Support Single 3rd Gen Intel Xeon® Scalable Processor(Ice Lake-SP), Socket P+, LGA4189
Chipset	Intel® Lewisburg C621A PCH (by SKUs)
BIOS	AMI® UEFI BIOS

#### ▼ Memory

Technology	Total 8 DIMMs (8 channels per CPU, 1x DIMM per channel, 8 DIMMs per CPU) --DDR4 RDIMM/LRDIMM up to 3200 MHz, up to 256GB per DIMM --Intel® Optane™ DC Persistent Memory (DCPMM) 200 Series module, up to 512GB per DIMM
Capacity	RDIMM/ LRDIMM + DCPMM up to total 3TB

#### ▼ Expansion

Onboard Expansion Slots	- 4x PCIe Gen4 x8 slots for NIC module - 2x M.2, one CF/mSATA/miniPCI-E - 2x internal SlimSAS 4i connector - 1x rear PCIe x8 slot for Standard PCIe card (Optional)
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#### ▼ I/O

USB	2x external USB 2.0 port 1x internal USB 3.0 pin header
Serial	1x RJ45 Console port (COM1) 2x internal pin header (COM2 & COM3)

#### ▼ Ethernet

GbE Ethernet	2x 1GbE RJ45 ports in system front
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#### ▼ Storage

SATA	Support 1x 2.5" SATA HDD or SSD
M.2	2x M.2 2280 socket (M-Key)
Compact Flash Socket	Either for CompactFlash/mSATA/mini PCIe (Co-Layout)

#### ▼ Power Supply

Watt	550W Redundant power supply (CRPS), 12V output / RoHS
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#### ▼ Mechanical and Environment

Form Factor	1U Rackmount
LED	1x Power LED (Green) 1x HDD LED (Red) 2x Status LED (Green/Yellow via programmable GPIO)
Dimension (W x D x H)	438mm(W) x 548 mm(D) x 44mm(H)
Operating Temperature	Operating: 0 ~ 40°C ( 32 ~ 104°F )
Storage Temperature	-20 ~ 75°C (-4 ~ 167°F)
Humidity	10 ~ 85% relative humidity, non-operating, non-condensing
Weight	10 kg
Certification	CE/FCC

#### ▼ Packing List

- 1x SCB-1931 unit
- 2x power cord

## Ordering Information

SCB-1931A 1U Rack-Mount, Single Intel ICX-SP processor with C621A PCH, DDR4, 4x PCIe x8 slots for NIC, Console, USB, 2x GbE, M.2 2280, BMC, 1x2.5 SATA, m-SATA, 1x SlimSAS 4i

## Optional

RS054A	5 pin Fan card for FAN module 180D Male connector for SCB-1932A	ZIO007B	I/O card with Console(COM1), 2 LAN, COM2/3, mSATA, LEDs. You can choose one of IO007
RS055A	RS055A, 5 pin Fan card for FAN module 180D Female connector for SCB-1932A	ZIO007C	I/O card with Console(COM1), 2 LAN, COM2/3, miniPCI-E, LEDs. You can choose one of IO007
ZBP014A	CRPS Power Distribution Board for SCB-1931/1933	ZRS056A	Riser card with 1 SlimSAS x4 to 1 PCIe x8 Slot for rear standard PCIe add-on card
R380A	I/O card with Console, 2xLAN, USB, LEDs for SCB-1910	ZOT006A	Intel PFR Module
ZIO007A	I/O card with Console(COM1), 2 LAN, COM2/3, CF, LEDs You can choose one of IO007		