SCB-1932

AEWIN Technologies Co., Ltd.

2U Rackmount Dual 3rd Gen Intel Xeon Scalable Processor (Ice Lake-SP) and Intel® C621A/C627A PCH Network System, support DDR4 RDIMM/LRDIMM and Intel Optane up to 6TB, 8x PCIe Gen4 x8 slots for Network Expansion Module, 2x easy-swappable 2.5" SATA HDDs/SSDs, IPMI, USB 3.0, 2x 1GbE, 1x Console, CF/mSATA/miniPCI-E, M.2, Redundant PSU.

Features

- Support 3rd Gen Intel Xeon Scalable Processor(Ice Lake-SP), Socket P+, 4189pin
- Support up to 6TB DDR4 RDIMM/LRDIMM 3200MHz & Intel® Optane™ Persistent Memory 200 series
- Max support 8x PCIe Gen4 x8 slots for Network Expansion Module
- Support BMC/IPMI& hardware One-Key Bypass function

Description

The SCB-1932 is a 2U Rack-Mount hardware networking system. Supporting Intel®Whitley/Ice Lake-SP with efficient performance processor Xeon® scalable series and Intel® C621A/C627A PCH (codenamed Lewisburg). The new generation platform provides higher performance and increased CPU cores up to 40 cores, 3 Ultra Path Interconnect (UPI) links up to 11.2 GT/s.

The SCB-1932 supports 8x channels DDR4 RDIMM/LRDIMM (up to 3200 MHz) and Intel Optane PMem to have Max. capacity of 6TB. With 64 PCI Express lanes per CPU, the SCB-1932 can support up to 8x 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 maximum ethernet bandwidth capacity is up to 1,000GbE.

The strong IO elements of SCB-1932 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-1932 also supports two front-access easy-swappable 2.5" SATA HDDs/SSDs and onboard CompactFlash/m-SATA/miniPCI-E, M.2 slot for network storage application.

Specifications

Processor System

- Support Dual 3rd Gen Intel Xeon Scalable Processor(Ice Lake-SP), Socket P+, 4189pin
- Intel® Lewisburg C621A/C627A PCH (by SKUs)
- UPI up to 11.2GT/s

BIOS

- AMI® UEFI BIOS

Memory

- Total 16 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, up to 512GB per DIMM

- RDIMM/ LRDIMM + DCPMM up to total 6TB

Expansion

- 8x PCIe Gen4 x8 slots for NIC module
- 2x M.2 \* one CF/mSATA/miniPCI-E, 2x internalSlimSAS 8i connector
- 1x rear PCIe x8 slot for Standard PCIe card (Optional)

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 RJ45 1GbE ports in system front

Storage

- Support 2x 2.5" SATA HOD or SSD
- mSATA 2x M.2 2280 socket (M-Key)

Power Supply

- 850W/1300W/1600W Redundant power supply (CRPS), 12V output / RoHS

Mechanical and Environment

- Form Factor 2U Rackmount
- LED 1x Power LED (Green)
- HD LED (Red)
- Status LED (Green/Yellow via programmable GPIO)

- Dimension (W x D x H) 440mm(W) x 600 mm(D) x 88mm(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 21 kg

Certification

- CE/FCC

Packing List

- 1x SCB-1932 unit
- 2x power cord
- 1x CD (Manual, Quick Installation Guide, Utilities & Drivers)
## Ordering Information

### SCB-1932A
- 2U Rackmount, Dual Intel ICX-SP processor with C621APCH, DDR4, 8x PCIe x8 slots for NIC, Console, USB, 2x GbE, M.2 2280, BMC, 2x SlimSAS 8i x2.5 SATA, m-SATA

### SCB-1932B
- 2U Rackmount Dual Intel ICX-SP processor with C621APCH, DDR4, 4x PCIe x8 slots for NIC, PCIe x16 slot for Standard PCIe Card or T4 GPU Card, Console, USB, 2x GbE, M.2 2280, BMC, 2x SlimSAS 8i x2.5 SATA, m-SATA

### SCB-1932C
- 2U Rackmount, Dual Intel ICX-SP processor with C621APCH, DDR4, 4x PCIe x8 slots for NIC, PCIe x16 slot for dual width GPU Card, Console, USB, 2x GbE, M.2 2280, BMC, 2x SlimSAS 8i x2.5 SATA, m-SATA

### SCB-1932D
- 2U Rackmount, Dual Intel ICX-SP processor with C621APCH, DDR4, 8x PCIe x8 slots for NIC, PCIe x16 slot for OCP 3.0, Console, USB, 2x GbE, M.2 2280, BMC, 2x SlimSAS 8i x2.5 SATA, m-SATA

### SCB-1932E
- 2U Rackmount, Dual Intel ICX-SP processor with C621APCH, DDR4, 8x PCIe x8 slots for NIC, Console, USB, 2x GbE, M.2 2280, BMC, 2x SlimSAS 8i x2.5 SATA, m-SATA, Front PSU

### SCB-1932F
- 2U Rackmount, Dual Intel ICX-SP processor with C621APCH, DDR4, 8x PCIe x8 slots for NIC, Console, USB, 2x GbE, M.2 2280, BMC, 2x SlimSAS 8i x2.5 SATA, m-SATA

## Optional

### RS054A
- 5 pin Fan card for FAN module 180D Male connector for SCB-1932A

### RS055A
- RS055A, 5 pin Fan card for FAN module 180D Female connector for SCB-1932A

### ZBP009A
- CRPS Power Distribution Board for 2U system

### ZBP013A
- Backplane with HDD Active LED and HDD Fault LED support 2 2.5" SATA HDD Tray with hot-swappable

### ZRS041A
- Riser card with 2 SlimSAS x8 to 1 PCIe x16 Slot for rear standard PCIe add-on card

### ZRS040A
- Riser card with 1 x16 lanes via high speed CONN to 1 PCIe x16 Slot for 2nd Layer standard PCIe x16 add-on card

### ZRS045A
- Riser card with 1 x16 lanes via high speed CONN to 1 x16 lanes high speed CONN for RS040A

### ZRS046A
- Riser card with 1 x16 lanes via high speed CONN to 1 x16 lanes high speed CONN for RS044A

### ZRS044A
- Riser card with 1 x16 lanes via high speed CONN to 1 PCIe x16 Slot for 2nd Layer Dual Width GPU card

### ZRS042A
- I/O card with Console, 2xLAN, USB, LEDs for SCB-1910

### ZRS042B
- Riser card with mSATA CONN to CF socket

## I/O

- 2x 2.5" HDD
- 8x PCIe x8 expansion modules
- 1x RJ45 console port
- 2x 1GbE RJ45 ports
- 2x USB 2.0
- PCIe x16 slot
- PWR button
- 4x system fan
- CRPS 850/1600W Power