

# SCB-1932C

Performance Network Appliance

## AWIN Technologies Co., Ltd.

2U Rack-Mount Dual Intel® Ice Lake-SP Xeon® scalable series Processor and Intel® C621A PCH Network System, support DDR4 up to 2TB, 4 PCIe Gen4 x8 slot for expansion LAN module, 2x PCIe Gen4 x16 for Dual-width GPU Card, 2 x 2.5" SATA HDD swappable, IPMI, USB 3.0, 2 GbE, 1 Console, CF/mSATA/miniPCI-E, M.2, PCI-e, Redundant PSU



### Features

- Support Intel® Ice Lake-SP Xeon® scalable Processor, Socket P+ 4189pin
- Support Max 2TB DDR4 2933/3200MHz & Optime Memory
- Max support 8x PCIe Gen4 x8 slots for expansion Network Expansion Modules, up to 800GbE bandwidth total, or 4x PCIe Gen4 x8 slots + 2x standard PCIe x16 slots
- Support 2x PCI-E Gen4 x16 slots for 2x Dual-width GPU Card
- Support BMC/IPMI

### 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 PCH (codenamed Lewisburg). The new generation platform provides highly performance, CPU cores up to 38 cores, 3 Ultra Path Interconnect (UPI) links per CPU up to 11.2 GT/s

The SCB-1932 supports 8 channels DDR4 register ECC RDIMM (up to 3200 MHz), and maximum memory capacity is up to 1TB with 64 PCI Express lanes per CPU, the SCB-1932 can support up to 8x Network Expansion Modules (or 4x Network Expansion Modules + 2x PCIe x16 full-height, full-length PCIe slots). It can support multiple Ethernet module bays for flexible port configuration, such as 1/10/40/100 Gigabit fiber, Gigabit Copper/Fiber with BYPASS function or not. The maximum capable Ethernet bandwidth up to 800GbE. The SCB-1932C SKU support 2x high performance dual-width GPU card, such as NVIDIA® V100, A100, A30, T4 accelerators, along with 4x Network expansion modules.

The strong IO elements of SCB-1932 include two management Ethernet port (one for management, another for option IPMI function), a console port, USB ports, LEDs for power/ HDD/ 2x GPO. In addition, the SCB-1932 also supports two front-swappable 2.5" SATA HDDs/SSDs and onboard CompactFlash™/m-SATA/miniPCI-E, M.2 slot for network storage application.

### Specifications

#### ▼ Processor System

CPU	Support Dual Intel® Ice Lake-SP Xeon® scalable Series Processor, Socket P+, 4189pin
Chipset	Intel® Lewisburg C621A/C627A PCH (by SKUs)
System Bus	UPI up to 11.2GT/s
BIOS	AMI® UEFI BIOS

#### ▼ Memory

Technology	Total 16 DIMMs (8 channels per CPU, 2x DIMM per channel, 8 DIMMs per CPU) -- ECC & Registered RDIMM : DDR4 2933/3200 MHz memory, up to 128GB per DIMM -- LRDIMM : DDR4 2933/3200 MHz, up to 128GB per DIMM
Capacity	ECC RDIMM / LRDIMM up to 2TB

#### ▼ Expansion

Onboard Expansion Slots	4x PCIe Gen4 x8 slots for NIC module 2x PCIe Gen4 x16 slots for dual-width GPU card 2x M.2, 1x CF/mSATA/miniPCI-E, 2x SlimSAS 8i connector 1x PCIe x8 slot for Standard PCIe card
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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 RJ45 GbE ports by front system
LAN Bypass	Implement by LAN modules

#### ▼ Storage

SATA	Support 2x 2.5" SATA HDD or SSD
mSATA	2x M.2 2280 socket (M-Key)
Ext. Storage	Either for CompactFlash/mSATA/miniCPI-E (Co-Layout)

#### ▼ Power Supply

Watt	850W/1300W/1600W Redundant power supply (CRPS), 12V output / RoHS
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#### ▼ Mechanical and Environment

Form Factor	2U Rackmount
LED	1x Power LED (Green) 1x HDD LED (Red) 2x 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-1932C unit
- 2x power cord
- 1x Ethernet/Console cable
- Manual, Quick Installation Guide, Utilities & Drivers

## Ordering Information

SCB-1932A	2U Rack-Mount, Dual Intel ICX-SP processor with C621A PCH, DDR4, 8x PCIe x8 slots for NIC, Console, USB, 2x GbE, M.2 2280, BMC, 2x SlimSAS 8i 2x2.5 SATA, m-SATA	SCB-1932D	2U Rack-Mount, Dual Intel ICX-SP processor with C621A PCH, DDR4, 8x PCIe x8 slots for NIC, OCP 3.0, Console, USB, 2x GbE, M.2 2280, BMC, 2x SlimSAS 8i 2x2.5 SATA, m-SATA
SCB-1932B	2U Rack-Mount, Dual Intel ICX-SP processor with C621A PCH, DDR4, 4x PCIe x8 slots for NIC, PCIe16 slot for Standard PCIe Card or T4 GPU Card, Console, USB, 2x GbE, M.2 2280, BMC, 2x SlimSAS 8i 2x2.5 SATA, m-SATA	SCB-1932E	2U Rack-Mount, Dual Intel ICX-SP processor with C621A PCH, DDR4, 8x PCIe x8 slots for NIC, Console, USB, 2x GbE, M.2 2280, BMC, 2x SlimSAS 8i 2x2.5 SATA, m-SATA, Front PSU
SCB-1932C	2U Rack-Mount, Dual Intel ICX-SP processor with C621A PCH, DDR4, 4x PCIe x8 slots for NIC, PCIe16 slot for dual width GPU Card, Console, USB, 2x GbE, M.2 2280, BMC, 2x SlimSAS 8i 2x2.5 SATA, m-SATA	SCB-1932F	2U Rack-Mount, Dual Intel ICX-SP processor with C627A PCH, DDR4, 8x PCIe x8 slots for NIC, Console, USB, 2x GbE, M.2 2280, BMC, 2x SlimSAS 8i 2x2.5 SATA, m-SATA

## Optional

R380A	I/O card with Console, 2xLAN, USB, LEDs	ZRS042A	Riser card with mSATA CONN to CF socket
ZBP009A	CRPS Power Distribution Board for 2U system	RS044A	Riser card with 1 x16 lanes via high speed CONN to 1 PCIe x16 Slot for 2nd Layer Dual Width GPU card
ZBP013A	Backplane with HDD Active LED and HDD Fault LED support 2 2.5" SATA HDD Tray with hot-swappable	ZRS045A	Riser card with 1 x16 lanes via high speed CONN to 1 x16 lanes high speed CONN for RS040A
ZIO007A	I/O card with Console (COM1), 2 LAN, COM2/3, CF, LEDs	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	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	ZRS065A	Riser card with high speed CONN (ExaMax) to 2x SlimSAS 8i connectors
ZRS040A	Riser card with 1 x16 lanes via high speed CONN to 1 PCIe16 slot for 2 <sup>nd</sup> Layer standard PCIe x16 add-on card	ZRS066A	Riser card with 2x SlimSAS 8i connectors to 1x PCI-E x16 slot
ZRS041A	Riser card with 2 SlimSAS x8 to 1 PCIe x16 Slot for rear standard PCIe add-on card		

## I/O

