

# SCB-1928

Performance Network Appliance

## AEWIN Technologies Co., Ltd.

High-End 2U Rack-mount Dual Intel® Skylake SP / Cascade Lake SP Xeon® scalable series Processor with Intel® C621 PCH Networking System, support DDR4 up to 768TB(per CPU), 8x PCIe x8 slot for Expansion Lan Modules, 1x PCIe x16 Rear Expansion Slot, 2x USB2.0, 2xGbE, 1x Console, m-SATA, 2x 2.5" Hot-swap HDD/SSD, redundant PSU



### Features

- Dual Intel® Skylake SP / Cascade Lake SP Xeon® scalable series Processor,LGA3647
- 8-channel DDR4 ECC/Registered 2933 MHz memory, Max up to 768TB(per CPU)
- Support Intel® QAT (by SKU)
- 8x PCIe x8 slot for Expansion Lan Modules (A Sku Only)
- 2x 2.5" Hot-swap HDD/SSD, 1x m-SATA
- Support BMC on board

### Description

The SCB-1928 is a 2U Rack-Mount networking system. Supporting Dual Intel® Purley platform with efficient performance processor Xeon®scalable series and Intel® C621 PCH (codenamed Lewisburg). The new generation platform provides high performance, CPU cores up to 28cores, supports AVX-512 instructions, Ultra Path Interconnect (UPI) up to 10.4 GT/s.

The SCB-1928 supports 8 channels DDR4 register ECC DIMM (up to 2933MHz) and maximum memory capacity is up to 768TB(per CPU). With 96 PCIExpress lanes, the SCB-1928 can support up to 8 NIC modules, support multiple Ethernet module bays for flexible port configuration; such as1/10/40 Gigabit fiber, Gigabit copper with BYPASS function or not.

The strong IO elements of SCB-1928 include two management Ethernet port (one for management, another for option IPMI function), a consoleport, two USB 2.0 ports, LEDs for PWR / HDD / 2x GPO. In addition, the SCB-1928 also supports two of 2x 2.5" Hot-swap HDD/SSD and onboard m-SATA slot for basic network storage application.

### Specifications

#### ▼ Processor System

CPU	Support Dual Intel® Skylake-SP / Cascade Lake SP Xeon® scalable Series Processor, Socket P, LGA3647
Chipset	Intel® Lewisburg C621 PCH
System Bus	UPI up to 10.4 GT/s
BIOS	AMI 64Mb SPI BIOS

#### ▼ Memory

Technology	Total 16 DIMMs (8 memory channels per CPU, 2 DIMMs per channes, 16 DIMMs per CPU) ECC & Registered : DDR4 2933MHz memory
Capacity	Max Up to 768TB Validated up to 256GB(using 16GB 3200 DIMMs)

#### ▼ Expansion

Onboard Expansion Slots	A Sku: 8x PCIe(x8) slots for NIC module 1x PCIe(x16) slot for Rear Expansion Slot B Sku: 2x PCIe(x16) slot for GPU 4x PCIe(x8) slots for NIC module
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#### ▼ I/O

USB	2x external USB 2.0 port(Front x 2) 1x USB3.0 on the rear side
Serial	1x RJ45 Console port (COM1) 1x internal 5x2 pin header (COM2) 1x internal 1x4 + 1x5 pin header for LCM module

#### ▼ Ethernet

GbE Ethernet	2x RJ45 1GbE ports (MGHT/IPMI port)
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#### ▼ Storage

SATA	2x 2.5" Hot-swap HDD/SSD
mSATA	1x m-SATA socket

#### ▼ Power Supply

Watt	Redundant 800/850W Power
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#### ▼ Mechanical and Environment

Form Factor	2U rack-mount
LED	A Sku: 1x PWR LED, 1x HDD LED, 2x GPO LED B Sku: 1x GPIO LED, 1x HDD LED, 1x PWR LED
Dimension (W x D x H)	440mm(W) x 600 mm(D) x 88.9mm(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-1928 unit
- 2x power cord

## Ordering Information

- SCB-1928A High-End 2U Rack-mount Dual Intel® Skylake SP / Cascade Lake SP Xeon® scalable series Processor and Intel® C621 PCH Networking System, support DDR4 up to 768TB(per CPU), 8x PCIe x8 slot for Expansion Lan Modules, 1x PCIe x16 Rear Expansion Slot, 2x USB2.0, 2 GbE, 1x Console, m-SATA, 2x 2.5" Hot-swap HDD/SSD, redundant PSU
- SCB-1928B High-End 2U Rack-mount Dual Intel® Skylake SP / Cascade Lake SP Xeon® scalable series Processor and Intel® C621 PCH Networking System, support DDR4 up to 768TB(per CPU), 2x PCIe x16 slot for GPU, 4x PCIe x8 slot for Expansion Lan Moudles, 2x USB2.0, 2 GbE, 1x Console, m-SATA, 2x 2.5" Hot-swap HDD/SSD, redundant PSU

## Optional

R384B	Expansion module with 8 SFP GbE ports, Intel i350-AM4	R405A	Expansion module with 4 SFP GbE ports, Intel® i350-AM4
R385C	Expansion module with 8 RJ45 GbE ports, Intel Intel® I350-AM4	R406A	Expansion module with 4 RJ45 GbE ports with two pairs Gen.3 bypass, Intel® i350-AM4
R386A	Expansion module with 4 SFP+ 10 GbE ports, Intel XL710-BM1 w/o re-driver	R445B	Expansion module with 2 SFP+ 10GbE ports, Intel® X710-BM2 w/o Re-driver
R387A	Expansion module with 2 QSFP+ 40 GbE ports, Intel XL710-BM2 w/o re-driver	R471D	Expansion module with 8 RJ45 GbE ports with two pairs Gen.3 bypass, Intel® I350-AM4

## I/O

