

SCB-1911

Performance Network System

AEWIN Technologies Co., Ltd.

1U Rack-Mount Intel® Haswell-EP Xeon E5-2600V3 Series Processor and Intel® C612 PCH Network System, support DDR4 up to 256GB, 4 PCIe x8 slot for expansion NIC module, 1 PCIe x8 slot for further PCIe card, 2 USB, 2 GbE, 1 Console, CF, SATA DOM, Redundant PSU



Features

- Intel® Haswell-EP processor, E5-2600 V3 Series processor, LGA 2011-3
- Four-channel DDR4 Registered 1866/2133 MHz memory, max support 256GB
- Max support 8 x PCIe x8 slots for expansion LAN module, up to 64 GbE Copper / Fiber ports
- 2 x 2.5" or 1 x 2.5" & 1 x 3.5" HDD/SSD tray support
- 1 x Riser card for PCIe slot expansion
- 1 x CF Card & 1 x SATA DOM
- 1U Redundant power



Introduction

The SCB-1911 is 1U Rack-Mount high-performance networking system which is based on Intel® Haswell-EP platform with Xeon E5-2600 V3 family and the Intel® C612 series chipset (codenamed Wellsburg). This new generation platform provides highly CPU computing power that CPU cores up to 18 cores, supporting 45MB cache and total with 40 PCIe lanes for flexible both network interface modules expansion and additional encryption/decryption cards.

The SCB-1911 is enhancement in computing performance, system responsiveness with Intel® E5-2600 V3 processor, supporting eight DDR4 ECC RDIMM/LRDIMM (up to 2133 MHz) and maximum memory capacity is up to 256 GB. With 40 PCIe Express lanes, the SCB-1911 is able to support up to 4 NIC modules with multiple Ethernet module bays for flexible port configuration; such as 40G QSFP+, 10G SFP+, GbE SFP and GbE Gne. 3 BYPASS function support. The system is capable to support up to 32 GbE ports at maximum.

The strong IO elements of SCB-1911 include two management Ethernet ports (one for management, another for option IPMI function), a console port, two USB ports, a LCD module with 5 functional button keypad, LEDs for power/HDD/2x GPO. In addition, the SCB-1911 supports two 2.5" SATA or one 3.5" & one 2.5" HDDs/SSDs, onboard CompactFlash™ slot and SATA DOM connector for basic network storage application.

Processor System

CPU	Single Intel® Haswell-EP E5-2600V3 Series, LGA 2011-3
Chipset	Intel® Wellsburg C612 PCH
System Bus	N/A
BIOS	AMI® 64Mb SPI BIOS

Memory

Technology	Total 8 DIMMs (Four channels per CPU, 2 DIMMs per channel) 1.ECC/ Registered DDR4 2133 MHz memory, up to 32GB per DIMM 2.LRDIMM : DDR4 2133 MHz, up to 32GB per DIMM.
Capacity	ECC UDIMM/ RDIMM : up to 256GB

Expansion

Onboard Expansion Slots	1.One SO-DIMM slot for IPMI card with VGA support 2.One Gen.3 PCIe x4 in PCIe x8 slot
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I/O

USB	Two external USB 2.0 port One internal USB 2.0 (5x2 pin header)
Serial	One RJ45 Console port (COM1) One internal 5x2 pin header (COM2)

Ethernet

GbE Ethernet	Two RJ45 GbE ports
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H/W Acceleration

Security Processor	Reserved 1 x PCIe x8 slot riser card for encryption/decryption card
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Storage

SATA	Support two 2.5" SATA HDD or solid state drives swappable
CompactFlash Socket	One CompactFlash™ Type II

Power Supply

Watt	1U Redundant 500W ATX Power Supply
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Packing List

- One SCB-1911 unit
- Two power cord
- 1 x CD (Manual, Quick Installation Guide, Utility Driver)

* Note : All specifications are subject to change without prior notice

Mechanical and Environment

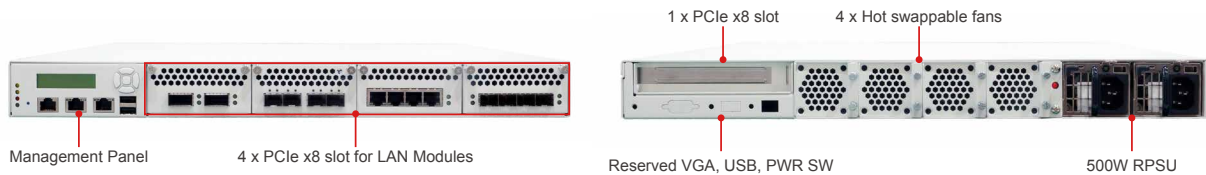
Form Factor	1U rack-mount
LED	One Power LED (Green) One HDD LED (Red) Two Status LED (Green/Yellow via programmable GPIO)
Dimension (W x D x H)	440mm (W) x 570mm (D) x 44mm (H) (17.2"W x 22.4"D x 1.73"H)
Operating Temperature	Operating: 0 ~ 40°C (32 ~ 104°F)
Storage Temperature	-20 ~ 75°C (-4 ~ 167°F)
Humidity	10 ~ 85% relative humidity, non-operating,
Weight	12 kg/26 lb
Certification	CE/FCC

Ordering Information

Standard	
SCB-1911A-A	1U Rack-Mount, Single Intel Haswell-EP Processor with C612 PCH, DDR4, 4 PCIe x8 slots for Expansion Module, Console, USB, 2GbE, SATA, CF, SATA DOM

Optional	
R303D	IPMI Card with VGA support for SCB-1911
R384A	Expansion module with 8 SFP GbE ports, Intel® 82580EB
R384B	Expansion module with 8 SFP GbE ports, Intel i350-AM4
R385A	Expansion module with 8 RJ45 GbE ports with two pairs Gen.3 bypass, Intel® 82580EB
R385B	Expansion module with 8 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
R387A	Expansion module with 2 QSFP+ 40 GbE ports, Intel® XL710-BM2 w/o re-driver
R405A	Expansion module with 4 SFP GbE ports, Intel® i350-AM4
R406A	Expansion module with 4 RJ45 GbE ports with two pairs Gen.3 bypass, Intel® i350-AM4
R408A	Expansion module with 4 RJ45 10G ports, Intel® X540-BT2
R408B	Expansion module with 2 RJ45 10G ports, Intel® X540-BT2
DK002	Cable development kit: 46L-CO5204-00 Cross over 2M 46L-DB9200-01 Null modem cable, 2M 46L-EC5200-00 Ethernet cat.5 cable, 2M 46L-IPS200-00 KB/MS cable, 15CM 46L-IUSB2B-00 USB Cable, 25CM 46L-IVGA01-00 VGA Cable, 20CM 46L-RJDB91-00 RJ-45 to DB-9 Cable, 2M

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Dimensions

