

# SCB-9550 NEW

**2U Rack-Mount Intel® TBG-36D, Dual Xeon® LGA1366 Network System, DDR3, GbE, 10 x GbE, 4 SATA, CF, LCM, Redundant PS**



## Features

- Support Dual Intel® 45nm Xeon® (Nehalem) processor
- Support max 24GB DDR3 1333/1066/800MHz system memory
- Max 24 GbE ports via four PCI-E x8
- Support 10GbE (Intel® 82599) SFP+
- Cryptographic hardware acceleration

## Introduction

The SCB-9550, an Intel® server grade chipset 5520 base platform, is a hardware platform developed for network service appliance for OEMs and ISVs. The Intel® 5520 chipset supports Intel® QuickPath Interconnects at 6.4 GT/s, 5.86 GT/s, and 4.8 GT/s speeds which can combine with Intel® Xeon® Processor 5500 Series (Nehalem Core) in their respective two sockets. This platform is the first single processing platform that introduces the Intel QuickPath Interconnect. Intel QuickPath Interconnect is Intel's new generation point-to-point system interconnect interface and replaces the Front Side Bus. Additionally, this chipset delivers up to 32 lanes Express 2.0 interface.

SCB-9550 performs outstanding computing performance from entire system design. In addition to dual Nehalem core Xeon processors; SCB-9550 can give 12 (total six channels, three channels per CPU) 1333/1066/800Mhz DDR3 system memory slots which support ECC and parity protection mechanisms to protect internal data paths.

Positioning to an enterprise level product, which is required redundancy and flexibility design to maintain better platform availability and serviceability. SCB-9550 provides as like of 1+1 high efficient redundant power supply, hot swappable HDD trays and system fan module to address server grade requirement. Another most required specification on network service appliance, SCB-9550 offers many different types of Ethernet ports connectivity modules for custom flexible pre-installation; such as 10Gigabit SFP+, Gigabit copper (by-pass function for option), Gigabit fiber (by-pass function for option) and combo ports. The max capacity can provide 24 GbE ports.

In order to enhance network security performance, SCB-9550 solders max four Cavium Nitrox-PX 16xx on system to give hardware level cryptographic acceleration which can leave more CPU computing power for higher layer packet processing.

For storage subsystem, SCB-9550 designs in one CompactFlash socket and four hot swappable SATA trays which can support 0, 1, 5, 10 software RAID supported by Intel® system chipset; or hardware RAID supported by extra RAID card plugged onto SCB-9550 PCI-e expansion slot.



Dual Nehalem Core Xeon CPUs (2-6 cores per CPU)



Four Hot-Pluggable HDD Tray support RAID



Redundant Power Supply



Security Hardware Acceleration option

Processor System	
<b>CPU</b>	Dual Intel® 45nm Xeon® (Nehalem) processors, LGA1366
<b>Chipset</b>	Intel® 5520 + ICH10R
<b>QPI</b>	4.8GT/s, 5.86GT/s, 6.4GT/s
<b>BIOS</b>	AMI® BIOS
<b>Channels</b>	6 (3 channels per CPU)

Memory	
<b>Technology</b>	DDR3 1333/1066/800MHz memory
<b>Capacity</b>	Up to 24GB with 12 DIMM sockets

Expansion	
<b>Onboard Expansion Slots</b>	Four PCI-E x8 slot for expansion module One PCI-E x4 slot for expansion module One proprietary slot for front I/O module

Ethernet	
<b>GbE Ethernet</b>	Flexible Ethernet Modules for Option: R148: Four RJ45 GbE ports with two pairs bypass, Intel® 82576 PCI-E x4 R149: Four SFP GbE ports, Intel® 82576 PCI-E x4 R150: Two 10GbE SFP+ ports, Intel® 82599 PCI-E x8

Ethernet	
<b>GbE Ethernet</b>	R156: Eight RJ45 GbE ports with two pairs bypass, Intel® 82574 PCI-E x1 R157: Four GbE Combo ports, Intel® 82576 PCI-E x4
<b>LAN Bypass</b>	Optional

Hardware Acceleration Module	
<b>Cryptographic</b>	Optional R158: Four Cavium Nitrox PX CN16xx Cryptographic Hardware Acceleration

Storage	
<b>SATA</b>	Max four Hot swappable 3.5" SATA HDDs
<b>RAID</b>	Optional, support Hardware RAID 0,1,5
<b>CompactFlash Socket</b>	One CompactFlash™ type II

I/O	
<b>USB</b>	Two external USB 2.0
<b>Console Port</b>	One RJ45 Console port (COM1, RS232)
<b>Management Port</b>	One GbE port, Intel® 82574L PCI-E x1 Second GbE port, Intel® 82574L PCI-E x1 (optional)
<b>Display Port</b>	One DB15 VGA connector, SMI SM750 PCI-E x1 (optional)

## Power Supply

<b>Watt</b>	2U ATX redundant power supply
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## Mechanical and Environment

<b>Form Factor</b>	2U rack-mount
<b>LCD Module</b>	One 16x2 LCM
<b>Keypad</b>	Four buttons keypad
<b>LED</b>	One Power LED (Green) One HDD LED (Yellow) One Status LED (Green/Yellow via programmable GPIO)
<b>Dimension (W x D x H)</b>	440mm (W) x 530mm (D) x 88mm (H) (17.3"W x 20.9"D x 3.5"H)
<b>Operating Temperature</b>	0 ~ 40°C ( 32 ~ 104°F )
<b>Storage Temperature</b>	-20 ~ 75°C (-4 ~ 167°F)
<b>Humidity</b>	5 ~ 95% relative humidity, non-operating, non-condensing
<b>Weight</b>	1pc/CTN, 19.5kgs, 66cm(W) x 59cm(D) x 28cm(H)
<b>Certification</b>	CE/FCC

## Packing List

- 1 x SCB-9550 unit
- 2 x power cord
- 1 x CD (Manual, Quick installation guide, Utility driver)

## Ordering Information

Standard	
<b>SCB-9550A-A</b>	2U rack-mount Intel® 5520 platform, Dual Xeon® (Nehalem Core), LGA1366, DDR3, CompactFlash, 12 RJ45 GbE, 4 SATA HDD tray, LCM, Redundant PS (CB-9550A + R148A x 3)
<b>SCB-9550A-B</b>	2U rack-mount Intel® 5520 platform, Dual Xeon® (Nehalem Core), LGA1366, DDR3, CompactFlash, 8 RJ45 GbE, 4 SFP GbE, 4 SATA HDD tray, LCM, Redundant PS (CB-9550A + R148A x 2 + R149A x 1)

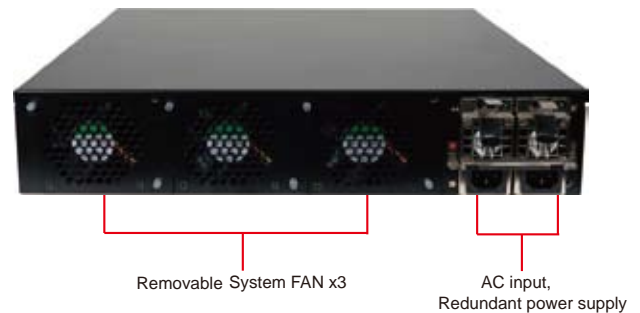
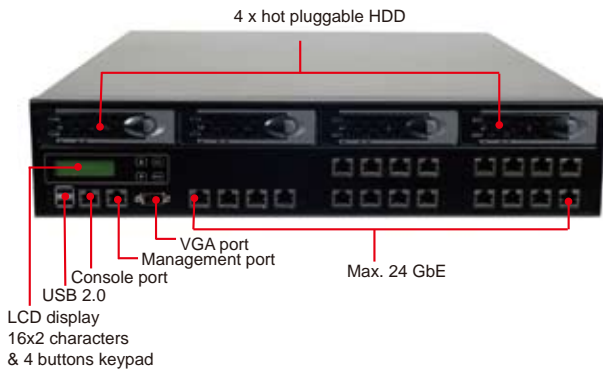
## Ordering Information

Standard	
<b>SCB-9550A-C</b>	2U rack-mount Intel® 5520 platform, Dual Xeon® (Nehalem Core), LGA1366, DDR3, CompactFlash, two 10 GbE, 4 RJ45 GbE, 4 SFP, 4 SATA HDD tray, LCM, Redundant PS (CB-9550A + R150A x 1+ R148A x 1+ R149A x 1)
<b>SCB-9550A-D</b>	2U rack-mount Intel® 5520 platform, Dual Xeon® (Nehalem Core), LGA1366, DDR3, CompactFlash, 24 RJ45 GbE, 4 SATA HDD tray, LCM, Redundant PS (CB-9550A + R156A x 3)

## Optional

<b>R148A</b>	Expansion module with 4 RJ45 GbE ports, Intel® 82576, support two pairs bypass function (optional)
<b>R149A</b>	Expansion module with 4 SFP GbE ports, Intel® 82576
<b>R150A</b>	Expansion module with 2 SFP + 10 GbE ports, Intel® 82599
<b>R156A</b>	Expansion module with 8 RJ45 GbE ports, Intel® 82574L, support two pairs bypass function (optional)
<b>R158A</b>	Expansion module with 2 Cavium Nitrox PX CN16xx Cryptographic Hardware Acceleration
<b>R-160A</b>	PCI-E x4 Riser card
<b>DK001</b>	Cable development kit: 46L-CO5204-00 Cross over cable, 2M 46L-DB9200-01 Null modem cable, 2M 46L-EC5200-00 Ethernet Cat.5 cable, 2M 46L-IPS200-00 KB/MS cable, 15CM 46L-IUSB01-00 USB cable, 25CM 46L-IVGA01-00 VGA cable, 20CM 46L-RJDB91-00 RJ45 to DB9 cable, 2M

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



## Dimensions

