SAU5041I and SAU5081I-4X
Cloud Server

Product Overview

The SAU5041I and SAU5081I-4X are a flexible, high-density compute hardware platforms designed for cloud data centers. The systems are based on a standard Intel® Xeon® x86 hardware platform in a 1RU full-width chassis configuration. Besides operating as a cloud server, both models are ideal as a Unified Threat Management (UTM) gateway, SDN controller, or cloud appliance hardware platform.

The SAU5041I supports dual sockets with each socket supporting Intel® Xeon® E5-2600 V3/V4 series processors up to 14 cores (28 threads), and each socket includes 4 DDR4 DIMM slots of up to 128 GB memory (32G*4). The storage options include one M.2 SSD and four SATA III high-speed SSDs. The SAU5041I provides quad 10 Gbps SFP+ network ports for high-bandwidth connections to the network.

The SAU5081I-4X supports two nodes in a 1RU full-width chassis design. Each node supports dual sockets. Each socket supports Intel® Xeon® E5-2600 V3/V4 series processors of up to 14 cores (28 threads) with 4 DDR4 DIMM slots of up to 128 GB memory per socket. The storage options include five M.2 high-speed SSDs. The SAU5081I-4X provides quad 10 Gbps SFP+ network ports for high-bandwidth connections to the network.
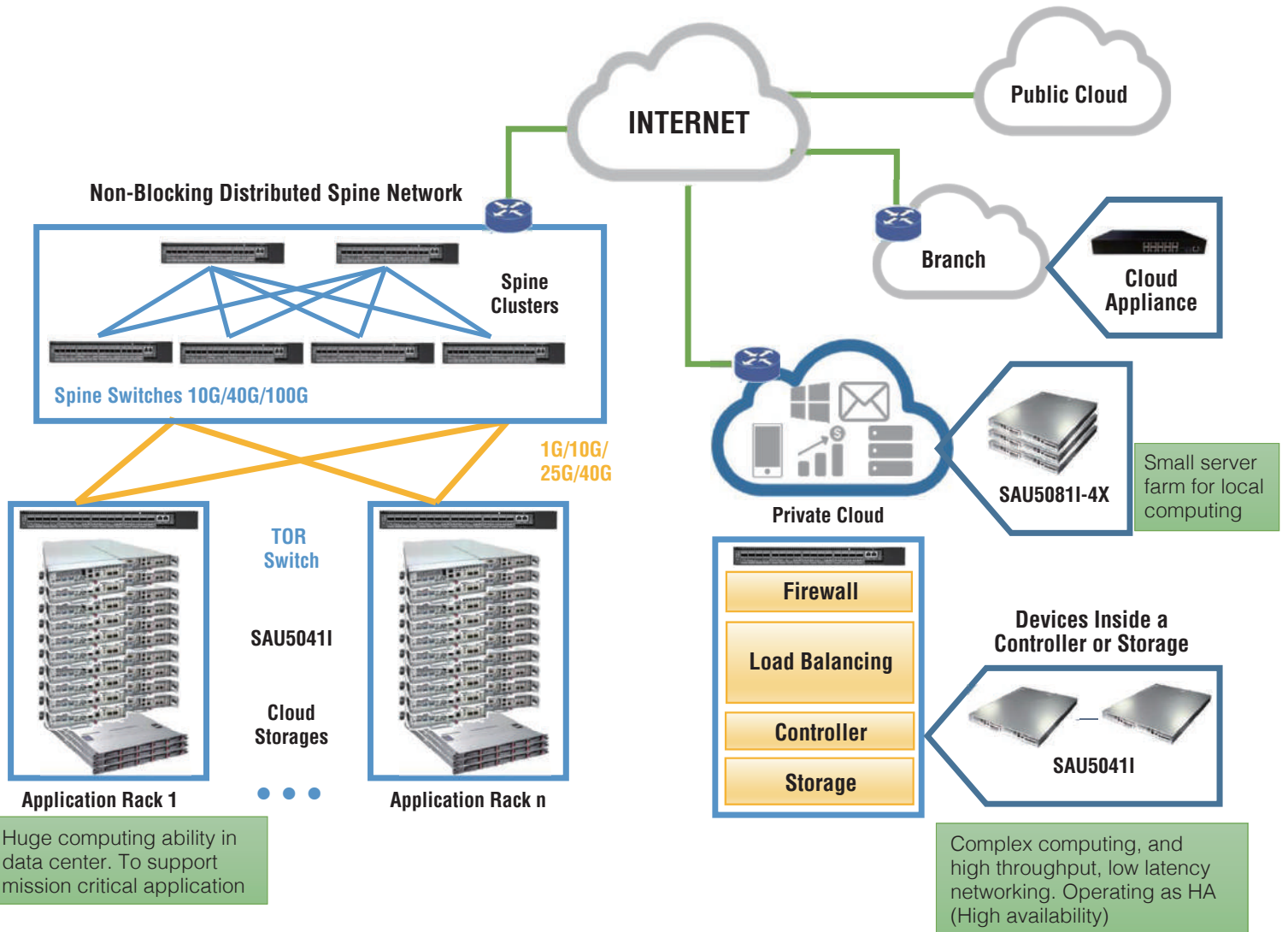
Product Applications
- Data Center Cloud Server
- Server Virtualization
- Network Function Virtualization
- UTM Gateway
- SDN Controller
- Cloud Appliance

Key Features
- CPU
  - Dual sockets per node, multi-core Intel E5-2600 v3/v4 series processor (Haswell EP, 22nm /Broadwell EP, 14nm, 6 to 14 cores). (The SAU5081I-4X supports two nodes.)
- Memory
  - Each CPU has two memory channels, supporting 2400/2666 MHz ECC Registered DIMM via 4x DIMM slots.
  - The maximum capacity (dual sockets/node): 256 GB
- 10Gb SFP+
  - Quad 10Gb SFP+ by Intel XL710-AM1
- M.2 and SATAIII SSD HDD
  - 5 x M.2 2242 or 2280 SSD (B, M key) (SAU5081I-4X)
  - 1 x M.2 2242 or 2280 SSD (B, M key) + 4 x 2.5" swappable SATAIII HDD (SAU5041I)
- AMI Aptio BIOS
- 2 x USB 3.0 Type-A ports on front panel
- System Form Factor: 1RU-high, supports rack-mounting
- One PCI Express Gen3 x8 expansion slot with x8 width riser card for low-profile add-in card.
- Baseboard Management Controller (BMC) module for remote management
- Dual power supplies with redundant feature (SAU5041I only)
- 4 hotswap 2.5" disk bays, support both SATA III HDD and SSD (SAU5041I only)
- Trusted Platform Module (TPM) v1.2 for security

Application

Non-Blocking Distributed Spine Network

INTERNET

Public Cloud

Spine Clusters

Spine Switches 10G/40G/100G

1G/10G/25G/40G

Branch

Cloud Appliance

TOR Switch

SAU5041I

Cloud Storages

Private Cloud

SAU5081I-4X

Small server farm for local computing

Application Rack 1

Application Rack n

Firewall

Load Balancing

Controller

Storage

Devices Inside a Controller or Storage

SAU5041I

Huge computing ability in data center. To support mission critical application

Complex computing, and high throughput, low latency networking. Operating as HA (High availability)

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Features

Product Model		SAU5041I	SAU5081I-4X
Product Image			
Mechanical Platform		Full-rack width	Full-rack width, 2 nodes in 1RU
Processor System	Processor Type	2 (LGA2011)	2 (LGA2011) per node
	Max Speed	3.0 GHz	3.0 GHz
	Cores/Virtual CPUs	14 cores, 28 threads max. per socket (Default: E5-2603 V4 x 1)	14 cores, 28 threads max. per socket (Default: E5-2603 V4 x 1)
Chipset		Intel® C612 Chipset	Intel® C612 Chipset
System Memory	Memory Sockets	4 x 288-pin DIMM slots per CPU, total 8 DIMM slots	4 x 288-pin DIMM slots per CPU, total 8 DIMM slots
	Type/Capacity	DDR4 1866/2133/2400/2666MHz ECC Registered DIMM Max 128GB per CPU, 256GB per node (Default: 16GB x 1)	DDR4 1866/2133/2400/2666MHz ECC Registered DIMM Max 128GB per CPU, 256GB per node (Default: 8GB x 1)
Boot Loader		AMI ApitoV UEFI BIOS	AMI ApitoV UEFI BIOS
Ethernet Ports	GbE RJ-45	2 x GbE RJ-45 (one BMC port)	2 x GbE RJ-45 (one BMC port)
	10G SFP+	Quad 10Gb SFP+ by Intel XL710-AM1	Quad 10Gb SFP+ by Intel XL710-AM1
Acceleration	Co-processor	Built-in AES-NI for improving encryption/decryption Built-in Intel® AVX 2.0 Technology Intel® vPro Technology Intel VT-x, VT-d, EPT Virtualization Technology Intel DPDK technology supported	Built-in AES-NI for improving encryption/decryption Built-in Intel® AVX 2.0 Technology Intel® vPro Technology Intel VT-x, VT-d, EPT Virtualization Technology Intel DPDK technology supported
Local Storage	Storage Interface	M.2/SATAIII	M.2
		1 x M.2 SSD sockets+ 4 x 2.5" swappable HDD (Default: M.2 512GB SSD x 1)	5 x M.2 SSD sockets (Default: M.2 1TB SSD x 1)
I/O Interface	Interfaces (per node)	2 x USB 3.0 1 x RJ-45 serial console port	2 x USB 3.0 1 x RJ-45 serial console port
Expansion	Type (per node)	1 x PCIe socket, Half Length/Half Height add-in card	1 x PCIe socket, Half Length/Half Height add-in card
Trusted Platform Module (TPM)		TPM 1.2	TPM 1.2
Power	Type/Watts	1+1 650 W redundant power supply	One PSU per node, 650 W per PSU
	Input	110 to 240 VAC @ 50/60 Hz	110 to 240 VAC @ 50/60 Hz
Fans (per node)		3 fans supporting speed control	3 fans supporting speed control
Software	OS Support	Red Hat Enterprise Linux 7 Ubuntu Linux 14.04 VMWare vSphere 5.5 Update 2	Red Hat Enterprise Linux 7 Ubuntu Linux 14.04 VMWare vSphere 5.5 Update 2
	Applications	Support for Intel DPDK	Support for Intel DPDK
Physical	Dimensions	610 x 460 x 44 mm	610 x 460 x 44 mm
	Weight	15.5 kg	17.0 kg
Environment	Operating	Temperature: 0 to 40ºC, Humidity: 5%~90% RH	Temperature: 0 to 40ºC, Humidity: 5% - 90% RH
	Storage	Temperature: -20 to 70ºC, Humidity: 5%~95% RH	Temperature: -20 to 70ºC, Humidity: 5% - 95% RH
Compliances	EMC/Safety	CE, FCC, LVD	CE, FCC, LVD
	RoHS	RoHS 2.0	RoHS 2.0
Packing List		SAU5041I x 1 Power cord x 2 Console cable x 1 Rack-mount kit x 1	SAU5081I-4X x 1 Power cord x 2 Console cable x 1 Rack-mount kit x 1

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Features

Warranty

Please check www.edge-core.com for the warranty terms in your country.

For More Information

To find out more about Edgecore Networks Corporation products and solutions, visit www.edge-core.com.

About Edgecore Networks Corporation

Edgecore Networks Corporation is in the business of providing innovative network solutions. In the service provider network, in the data center or in the cloud, Edgecore Networks Corporation delivers the software and systems that transform the way the world connects. Edgecore Networks Corporation serves customers and partners worldwide. Additional information can be found at www.edge-core.com.

Edgecore Networks Corporation is a subsidiary of Accton Technology Corporation, the leading network ODM company. The Edgecore data center switches are developed and manufactured by Accton.

To purchase Edgecore Networks solutions, please contact your Edgecore Networks Corporation representatives at +886 3 563 8888 (HQ) or+1 (949)-336-6801 or authorized resellers.

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