

SKY-9234S3

2U4N Rackmount Server, Designed for Hyper-Converged and Storage Applications

OEM Business Only



Features

- Up to 4 hot-swappable CPU node boards with single Intel® Xeon® scalable processor
- Up to 8 DDR5 5600MHz RDIMM sockets (per node)
- Flexible I/O configuration with up to 2 x PCIe Gen5 x16 slots (half length, low profile) (per node) (depends on SKU)
- Supports 1 x PCIe Gen5 x16 OCP 3.0 mezzanine card (per node)
- Redundant M.2 storage devices & optional one U.2 SSD slot (per node)
- Up to 12 x 3.5" SATA storage slots
- Hot swappable and redundant AC PSU options
- Redundant FW images (Advantech BIOS and BMC)
- Onboard BMC (IPMIv2.0 compliant) with web Interface, KVM, and Redfish



Introduction

Advantech SKY-9234S3 is a 2U4N rackmount server, designed for hyper-converged Infrastructure and storage applications. The design creates the flexibility to set up different workloads independently and with shared infrastructure, like cooling and power supply, the total cost of ownership (TCO) is lower than four regular 1U servers. The SKY-9234S3 is designed with a single Intel® Xeon® scalable processors (code name : Sapphire Rapids/Emerald Rapids) and the latest DDR5 memory technology. Implementing the modularization design concept, there is one OCP mezzanine slot and up to two PCIe slots per node, providing various I/O options to optimize the system flexibility. In addition, the option of a 2.5" U.2 NVMe SSD hybrid node design can use a cache/tiring/meta-data function to improve the storage system's performance. The redundant (dual-rotor) and hot-swappable fan option also enhances product stability and serviceability compared to a single fan design.

Specifications

System (Model name: SKY-9234S3)

Physical Characteristics	Form Factor	2U rackmount
	Dimension (W x H x D)	438 x 87.5 x 810 mm
	Motherboard	4 x hot-swappable MIC-8330 CPU nodes
	Net Weight	30 kg
Front Panel	Buttons	Power button UID button
	LED	Power status LED (integrated in power button) HDD activity/status LED Network activity LEDs UID LED (integrated in UID button) Information LED
Front External Drive Bay	Type/Quantity	12 x hot-swappable 3.5" HDD trays (3 x HDD trays per node)
	Interface	6Gb/s SATA
System Cooling	Fan	4 x 8 cm (8076) hot-swappable dual-rotor PWM fans with fan speed control
Power Supply*	Type/Quantity	2 x redundant (1+1) PSU with PMBus
	Input Range	AC capability (200 - 264Vac)
	Efficiency	80 Plus Titanium
	Output Watts	2000 / 2200W (depends on SKU)
Operating Environment	Operating Temperature / Humidity	5 ~ 35°C (41 ~ 95°F) / 5% to 95% @ 35°C (non-condensing)
	Non-operating Temperature/ Humidity	-40 ~ 60°C / 5% to 95% @ 60°C (non-condensing)
Regulation	CE/FCC	Class A
	UL/cUL/CB	Class A
RoHS	RoHS 6/6 Complaint	Yes

Mainboard for CPU Node (Model name: MIC-8330)

Processor	Supported CPU Series	Single Intel® 4th/5th Xeon® Scalable Processors (4677 socket)
	Thermal Design Power (TDP)	Up to 165W ^{*1}
Chipset	Supported Chipset Series	Intel® C620 series
Memory	Support DIMM Quantity	8 x DIMM slots
	DIMM Type/Speed	DDR5 ECC RDIMM up to 5600MHz
	Capacity	Up to 2TB ECC RDIMM per node ^{*1}
	Memory Channel	8 channels
I/O	PCIe Slots	SKU A: 1 x PCIe Gen5 x16 (half height, half length) SKU B: 2 x PCIe Gen5 x16 (half height, half length)
	OCP3.0 Mezzanine Slot	1 x PCIe Gen5 x16
	Console Port	Micro USB
	Management Port	1x RJ-45 connector
	Display	Mini DisplayPort
	USB	1 x USB 3.0 Type-A
Node Storage	2.5" Device	SKU A: PCIe Gen5 x4 SSD, up to 15 mm height
	M.2 Device	2 x PCIe Gen3 x4 M.2 SSD 2280
TPM	TPM module	On-board TPM 2.0
Server Management	Solution	Onboard ASPEED AST2600 IPMI 2.0 based on Advantech IPMI Core
BIOS	Solution	Redundant AMI 32MB SPI Flash

*1. Depends on the system configuration.

*2. Please contact your local Advantech sales representative for other SKU demands

Ordering Information

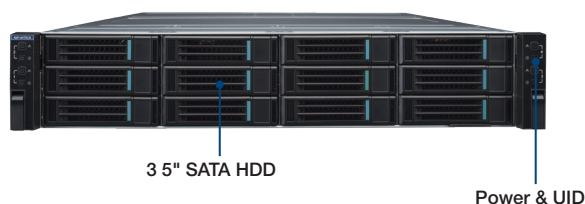
Part Number	Description
SKY-9234S3-L6A00	SKY-9234S Barebone, 4 x MIC-8330A00 CPU nodes, 2 x AC 2000W PSUs, 12 x 3.5" SATA HDD slot.
SKY-9234S3-L6B00	SKY-9234S Barebone, 4 x MIC-8330B00 CPU nodes, 2 x AC 2200W PSUs, 12 x 3.5" SATA HDD slots

Optional Accessories

Part Number	Description
SKY-9234S3-RCSSF	SKY-9234S3 FRU chassis
SKY-9240-2000W	SKY-9234S3 FRU PSU
SKY-9234S3-RFAN	SKY-9234S3 FRU fan module
SKY-9234S3-RAIL	SKY-9234S3 Slide Rail
SKY-9232D3-HT3	SKY-9234S3 3.5" HDD Carrier
98928330000	MIC-8330 CPU node
MIC-8330-BRIDGEA	MIC-8330 Bridge board for 3.5" SKU
98928330301	MIC-8330RSL Board A101-2
MIC-8330-HT2	MIC-8330 2.5" HDD Carrier
MIC-8320-DUMMY	MIC-8330 node filler

NOTE: Please contact your local Advantech sales representative for more information of system configurations.

Front View



Rear View

