Datasheet

2U Intel dual-CPU RI2203-SMXSH server

[Ver. 1.0]

Highlights at a glance:

- Incl. 1x Intel Xeon Silver 4309Y, can be expanded to up to 2x CPUs of the 3rd Scalable generation (8 - 26 cores)

- Incl. 16 GB RAM, upgradable to 1TB RAM, (8 DIMMs)

- 3x 3.5" / 2.5" (Hot-swap) up to 66 TB, SSDs: 23.04 TB

- 2x 2,5" Hotswap HDDs (back)

- Expandable with 4 LP/ HL add-on card(s), 4x PCIe 4.0 x16

- 450 mm (D) installation depth saves space

- Redundant, energy-efficient power supply

- Integrated IPMI (dedicated NIC)

- 10GBase-T dual-port on board LAN (optional)

Mainboards

Manufacturer	Supermicro	Supermicro
Mainboards	X12DPL-i6	X12DPL-NT6
Chipset	Intel C621A	Intel C621A
Socket	Intel LGA 4189	Intel LGA 4189
Processor	Intel Xeon Scalable 3rd Gen	Intel Xeon Scalable 3rd Gen
Main Memory	8 DIMMs 1 TB DDR4 3200 RDIMM	8 DIMMs 1 TB DDR4 3200 RDIMM
LAN Onboard	2 x 1 GBit/s LAN (RJ-45)	2 x 1 GBit/s LAN (RJ-45) 2x 10 Gbit/s LAN (RJ-45)
LAN chipset	Intel i210	

LAN Onboard (dedicated IPMI)	1x RJ45 Dedicated IPMI LAN port	1x RJ45 Dedicated IPMI LAN port
Onboard graphic	1x VGA ASPEED AST2600 BMC	1x VGA ASPEED AST2600 BMC
Additional card (optional)	PNY NVIDIA Quadro T1000 (4GB)	PNY NVIDIA Quadro T1000 (4GB)
Onboard Input/Output	USB (no PS2 ports!) 1x TPM Header 1x COM Port (header)	USB (no PS2 ports!) 1x TPM Header 1x COM Port (header)
USB ports	2x USB (rear)	2x USB (rear)
	1x USB on board (type A)	1x USB on board (type A)

Extension-slots for additional cards

PCI slots (mainboard)	4x PCIe 4.0 x16	4x PCIe 4.0 x16
Available slots in the chassis	4x Low profile/Half Length	4x Low profile/Half Length

Onboard ports

SATA-3 (6 Gb/s)	12x SATA-3 (6 Gbit/s) Intel C621A RAID 0, 1, 10, 5, Software-Raid	12x SATA-3 (6 Gbit/s) Intel C621A RAID 0, 1, 10, 5, Software-Raid
Port distribution	2x SuperDOM support	2x SuperDOM support
M.2	2 x M.2 PCIe 3.0 x4	2 x M.2 PCIe 3.0 x4
M.2 form factor	2280	2280

Drives / storage capacity

Drive slots (total)	3x 3.5" / 2.5" (Hot-swap) 2x 2.5" (Rear, hot-swap) 22.5" (rear of chassis, hot-swap)
SAS / SATA slots	3x SAS / SATA
Backplane	SATA / SAS-3 (12 Gb/s)
Max. capacity HDD (SAS)	66 TB
Max. capacity HDD (SATA)	66 TB
Max. capacity SSD (SATA)	23.04 TB
Max. capacity SSD (SATA)	23.04 TB

Server management

Management software	Supermicro SuperDoctor 5
Remote management	Integrated IPMI (dedicated NIC)
Features	Managementsoftware IPMI View IPMI with KVM Over LAN Serial Over LAN (SOL) Virtual Media Over LAN (Virtual USB Floppy/CD and Drive Redirection) LAN Alert-SNMP Trap Event Log OS Independent Hardware Health Monitor Remote Power Control Support RMCP & RMCP + Protocols Fan Speed Control Dedicated 3. network interface card
IPMI-sensors	CPU-temperature (OK / warning) system-temperature (Celsius degree) Electronic voltage (volt) Cooler speed (RPM) Additional model-dependent sensors (www.thomas-krenn.com/ipmi-sensoren)

Chassis

Unit	2U
Dimensions	89 mm (H), 437 mm (W), 450 mm (D),
drives (in scope of delivery)	not contained, optional available
Drives (optional)	1x Slim CD/DVD/DVD-R External USB-drives
Fan (center)	4x 40x40x56mm Hot-swap (13000rpm, 61dBA)
Silent blowerkit option	no

Power supply

Power supply unit	2HE Supermicro Chassis SC825MBTQC-R802LPB
energy efficiency	96%
Redundant power supply (selectable option)	2x 800 watt
PMBus support	Yes, Ver.1.2PSU single: no, redundant PSU: Yes, Ver.1.2

Rack Assembly

Assembly rails	contained in the scope of supply
rail length	675 - 925 mm
Total length server front to end of assembly rail	715 mm
Max. extraction length	710 mm
Recommended maneuvering space	75 mm (minimum)

environment-requirements

Recommended ambient temperature	20 - 22 degree
Recommended humidity	max. 40%
Recommended deployment location	To ensure the optimal cooling of the system, we recommend running the server in an air conditioned server room and as part of a rack installation. The server is not ideal for use in an office environment due to its high noise levels.