Datasheet

2U Intel dual-CPU RI2212-SMXS 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 - 40 cores)

- Incl. 16 GB RAM, upgradable to 2TB RAM, (16 DIMMs)

- 12x 3.5" / 2.5" (Hot-swap) up to 264 TB, SSDs: 92.16 TB

- Optional additional drives: 2x 2.5" (Rear, hot-swap)

- Expandable with 6 LP add-on card(s), 4x PCIe 4.0 x16 2x PCIe 4.0 x8

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

- Energy-efficient power supply 80 PLUS Platinum (>94%) red. NT

- Integrated IPMI (dedicated NIC)

Mainboards

Manufacturer	Supermicro	Supermicro
Mainboards	X12DPi-N6	X12DPi-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	16 DIMMs 2 TB DDR4 3200 RDIMM	16 DIMMs 2 TB DDR4 3200 RDIMM
LAN Onboard	2 x 1 GBit/s LAN (RJ-45)	2x 10 Gbit/s LAN (RJ-45)
LAN chipset	Intel I350	Intel X550

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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 2x COM Ports (1 rear, 1 header)	USB (no PS2 ports!) 1x TPM Header 2x COM Ports (1 rear, 1 header)
USB ports	4x USB (rear)	4x 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 2x PCIe 4.0 x8	4x PCIe 4.0 x16 2x PCIe 4.0 x8
Available slots in the chassis	6x Low profile/Full Length	6x Low profile/Full Length

Onboard ports

SATA-3 (6 Gb/s)	14x SATA-3 (6 Gbit/s) Intel C621A RAID 0, 1, 10, 5, Software-Raid	14x SATA-3 (6 Gbit/s) Intel C621A RAID 0, 1, 10, 5, Software-Raid
Port distribution	8x Intel PCH 4x Intel SCU 2x SuperDOM support	8x Intel PCH 4x Intel SCU 2x SuperDOM support
M.2	1 x M.2 PCIe 3.0 x4	1 x M.2 PCIe 3.0 x4
M.2 form factor	2260, 2280, 22110	2260, 2280, 22110
NVMe	4x NVMe onboard	4x NVMe onboard

Drives / storage capacity

Drive slots (total)	12x 3.5" / 2.5" (Hot-swap) 2x 2.5" (Rear, hot-swap)
Backplane	SATA / SAS-3 (12 Gb/s) expander backplane
Max. capacity HDD (SAS)	264 TB
Max. capacity HDD (SATA)	264 TB
Max. capacity SSD (SATA)	92.16 TB
Max. capacity SSD (SATA)	92.16 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), 648 mm (D),
drives (in scope of delivery)	not contained, optional available
Drives (optional)	External USB-drives
Fan (center)	3x 80x80x38mm Hot-swap (7000rpm, 53.5dBA)
Silent blowerkit option	no

Power supply

Power supply unit	2HE Supermicro Chassis SC826BE1C-R920LPB
energy efficiency	94.27%
PMBus support	Yes, Ver.1.1No

Rack Assembly

Assembly rails	contained in the scope of supply
rail length	675 - 880 mm mm
Total length server front to end of assembly rail	820 mm
Max. extraction length	670 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.