

# Datasheet

## 2U Intel dual-CPU RI2212-SMXS server

[Ver. 2]

### Highlights at a glance:

- Incl. 1x Intel Xeon Silver 4309Y, can be expanded to up to 2x CPUs of the 3rd Scalable generation (8 - 8 cores)
- Incl. 16 GB RAM, upgradeable up to 1.024TB RAM, (16 DIMMs)
- 12x 3.5" / 2.5" (Hot-swap) up to 368.64 TB, SSDs: 368.64 TB
- Optional additional drives: 2x 2.5"
- Expandable with 6 LP/ FL 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
Mainboards	X12DPi-NT6
Chipset	Intel C621A
Socket	Intel LGA 4189
Processor	Intel Xeon Scalable 3rd Gen
Main Memory	16 DIMMs 1 TiB DDR4 3200 RDIMM
LAN Onboard	2x 10 Gbit/s LAN (RJ-45)

LAN chipset	Intel X550
LAN Onboard (dedicated IPMI)	1x RJ45 Dedicated IPMI LAN port
Onboard graphic	1x VGA ASPEED AST2600 BMC
Additional card (optional)	PNY NVIDIA RTX A1000 (8GB)
Onboard Input/Output	USB (no PS2 ports!) 1x TPM Header 2x COM Ports (1 rear, 1 header)
USB ports	4x USB (rear)  1x USB on board (type A)

## Extension-slots for additional cards

PCI slots (mainboard)	4x PCIe 4.0 x16 2x PCIe 4.0 x8
Available slots in the chassis	6x Full Length/Low profile

## Onboard ports

SATA-3 (6 Gb/s)	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
M.2	1 x M.2 PCIe 3.0 x4
M.2 form factor	2260, 2280, 22110
NVMe	4x NVMe onboard

## Drives / storage capacity

Drive slots (total)	12x 3.5" / 2.5" (Hot-swap) 2x 2.5"
Backplane	SATA / SAS-3 (12 Gb/s) expander backplane
Max. capacity HDD (SAS)	368.64 TB
Max. capacity HDD (SATA)	288 TB
Max. capacity SSD (SATA)	92.16 TB
Max. capacity SSD (SATA)	368.64 TB

## Server management

Management software	Supermicro SuperDoctor 5
Remote management	Integrated IPMI (dedicated NIC)
Features	<p>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 &amp; RMCP + Protocols  Fan Speed Control  Dedicated 3. network interface card</p>
IPMI-sensors	<p>CPU-temperature (OK / warning)  system-temperature (Celsius degree)  Electronic voltage (volt)  Cooler speed (RPM)  Additional model-dependent sensors (<a href="http://www.thomas-krenn.com/ipmi-sensoren">www.thomas-krenn.com/ipmi-sensoren</a>)</p>

## Chassis

Unit	2U
Dimensions	89 mm (H), 437 mm (W), 647 mm (D),
drives (in scope of delivery)	not contained, optional available
Drives (optional)	External USB-drives
Fan (center)	3 80x80x38mm Hot-swap (10500rpm, 60dBA)
Silent blowerkit option	no

## Power supply

Power supply unit	2x 920 Watt redundantes Hot Swap Netzteil (80plus Platinum)
energy efficiency	94.27%
PMBus support	Yes, Ver.1.2

## 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

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Recommended ambient temperature 20 - 22 degree

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Recommended humidity max. 40%

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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.

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