

# Datasheet

## 2U Intel dual-CPU RI2208-AIXSN server

[Ver. 1.1]

### 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)
- 8x 3.5" / 2.5" drives (hot-swap)  
– SATA/SAS/NVMe depending on backplane selection
- 2 x 2.5"(Rear, hot-swap), optional 2 2.5" (rear of chassis, hot-swap)
- Expandable with 6 LP/ HL/ 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 Titanium (>96%) red. NT
- Integrated IPMI (dedicated NIC)
- Toolless design (drives, power supplies, fans, backplane)



### 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
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)  1x USB on board (type A)	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	4x PCIe 4.0 x16 2x PCIe 4.0 x8
Available slots in the chassis	6x Low profile/Half Length/Full Length	6x Low profile/Half Length/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)	8x 3.5" / 2.5" (Hot-swap) 2x 2.5" (Rear, hot-swap) 22.5" (rear of chassis, hot-swap)	
Backplane	SATA / SAS-3 / NVMe (12 Gb/s)	
Max. capacity HDD (SAS)	176 TB	
Max. capacity HDD (SATA)	176 TB	
Max. capacity SSD (SATA)	61.44 TB	
Max. capacity SSD (SATA)	61.44 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 ( <a href="http://www.thomas-krenn.com/ipmi-sensoren">www.thomas-krenn.com/ipmi-sensoren</a> )

## Chassis

Unit	2U
Dimensions	88 mm (H), 430 mm (W), 680 mm (D),
Drives (optional)	External USB-drives
Fan (center)	3 80x80x38mm Hot-swap (8600rpm, 62.5dBA)
Silent blowerkit option	no
Front USB ports	1

## Power supply

Power supply unit	2x 800 Watt redundantes Hot Swap Netzteil (80 plus Titanium)
energy efficiency	96%

## Rack Assembly

Assembly rails	contained in the scope of supply
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## environment-requirements

Recommended ambient temperature	0 - 40 °C
Recommended humidity	0 - 95% (non-condensing)
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.