

# Datasheet

## 4U Intel dual-CPU RI2424-AIXS server

[Ver. 2.0]

### Highlights at a glance:

- Incl. 1x Intel Xeon Silver 4309Y, can be expanded to up to 2x CPUs of the 3rd Scalable generation (8 - 8 cores)
- Incl. 16 GB RAM, upgradeable up to 1.024TB RAM, (16 DIMMs)
- 24x 3.5" / 2.5" (Hot-swap) up to 737.28 TB, SSDs: 737.28 TB
- Optional additional drives: 2x 2.5" (Rear, hot-swap)
- 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)
- SAS-3 (12Gbit/s) expander backplane
- Energy-efficient power supply 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

## 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)	24x 3.5" / 2.5" (Hot-swap) 2x 2.5" (Rear, hot-swap)
SAS / SATA slots	24x SAS / SATA
Backplane	SATA / SAS-3 (12 Gb/s) expander backplane
Max. capacity HDD (SAS)	737.28 TB
Max. capacity HDD (SATA)	576 TB
Max. capacity SSD (SATA)	184.32 TB
Max. capacity SSD (SATA)	737.28 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	4U
Dimensions	174.3 mm (H), 430 mm (W), 680 mm (D),
drives (in scope of delivery)	not contained, optional available
Drives (optional)	External USB-drives
Fan (center)	3 120x120x25mm Hot-swap (, )
Silent blowerkit option	no
Front USB ports	2

## Power supply

PMBus support	Yes, Ver.1.2
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## Rack Assembly

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

Recommended ambient temperature	20 - 22 degree
Recommended humidity	10 - 90% (noncondensing)
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.