

Datasheet

1U Intel dual-CPU RI2104-SMXS server

[Ver. 1.0]

Highlights at a glance:

- Optimized complete package for small law firms with 15-20 users
- Suitable for Datev PRO
- 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)
- 4x 3.5" / 2.5" (Hot-swap) up to 88 TB, SSDs: 30.72 TB
- Expandable with 1 FP/LP/ HL additional card(s)
- 10GBase-T dual-port on board LAN (optional)
- Energy-efficient power supply 80 PLUS Titanium (>96%) 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

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
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	1x Full profile/Low profile/Half Length	1x Full profile/Low profile/Half Length
Possible Riser cards	1x PCI-E (x16) riser card	1x PCI-E (x16) riser card

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)	4x 3.5" / 2.5" (Hot-swap)	
Backplane	SATA / SAS-3 (12 Gb/s)	
Max. capacity HDD (SAS)	88 TB	
Max. capacity HDD (SATA)	88 TB	
Max. capacity SSD (SATA)	30.72 TB	
Max. capacity SSD (SATA)	30.72 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	1U
Dimensions	43 mm (H), 437 mm (W), 650 mm (D),
drives (in scope of delivery)	not contained, optional available
Drives (optional)	1x Slim CD/DVD/DVD-R External USB-drives
Fan (center)	40x40x56mm (12000rpm, 56dBA)
Silent blowerkit option	no

Power supply

Power supply unit	2x 500 Watt redundantes, Hot Swap Netzteil (80plus Platinum)
energy efficiency	91%
PMBus support	Yes, Ver.1.2

Rack Assembly

Assembly rails	contained in the scope of supply
rail length	645 - 845 mm mm
Total length server front to end of assembly rail	830 mm
Max. extraction length	690 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.