Datasheet

2U Intel Single-CPU RI1212+ Server Scalable

[Ver. 3.0]

Highlights at a glance:

- Incl. 1x Intel Xeon Bronze 3204, can be expanded to up to 1x CPUs (6 - 24 cores)

- Incl. 16 GB RAM, upgradable to 1TB RAM, (8 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 5 LP add-on card(s), 2x PCIe 3.0 x16 1x PCIe 3.0 x4 (in x8) 2x PCIe 3.0 x8

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

- Integrated IPMI (dedicated NIC)

Mainboards

Manufacturer	Supermicro
Mainboards	Supermicro X11SPi-TF
Chipset	Intel C622
Socket	Intel LGA 3647-0
Processor	Intel Xeon Scalable 2nd Gen (Cascade Lake)
Main Memory	8 DIMMs 1 TB DDR4 2133/2400/2666/2933 RDIMM
LAN Onboard	2x 10 Gbit/s LAN (RJ-45)
LAN chipset	Intel X557, Intel X722
LAN Onboard (dedicated IPMI)	1x Aspeed AST2500 (dedicated IPMI)

THOMAS KRENN®

Onboard graphic	1x VGA Aspeed AST2500 BMC
Additional card (optional)	PNY NVIDIA Quadro T1000 (4GB)
Onboard Input/Output	USB (no PS2 ports!) 1x TPM Header 2x COM Ports (1 rear, 1 header)
USB ports	4x USB (rear) (2x USB 2.0, 2x USB 3.0) (4x USB 2.0, 2x USB 3.0) 1x USB on board (type A) (USB 3.0)

Extension-slots for additional cards

PCI slots (mainboard)	2x PCIe 3.0 x16 1x PCIe 3.0 x4 (in x8) 2x PCIe 3.0 x8
Available slots in the chassis	5x Low profile/Full Length

Onboard ports

SATA-3 (6 Gb/s)	10x SATA-3 (6 Gbit/s) Intel C622 RAID 0, 1, 10, 5, Software-Raid
M.2	1 x M.2 PCIe 3.0 x4, SATA
M.2 form factor	2280, 22110

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.