Datasheet

2U Intel dual-CPU RI2208-LCS Scalable

[Ver. 1.1]

Highlights at a glance:

- Complete package with innovative direct hot-water cooling
- Reduction of energy consumption with significantly increased power density
- Savings on heating and electricity costs through effective server cooling and waste heat utilization
- Including Intel 2x Xeon Cascade Lake CPUs (6 - 8 cores)
- Incl. 16 GB RAM, upgradable to 1TB RAM, (16 DIMMs)
- 8x 2.5" (hot-swap) up to 30.72
 TB
- Energy-efficient power supply 80 PLUS Titanium (>96%) red. NT
- Integrated IPMI (dedicated NIC)







Water cooling

Water inlet temperature	up to 53 °C
ASHRAE class	Water cooling: W5 (>45 °C, local waste heat utilization) Air cooling: A1 (15-32 °C, 8-80%)
Temperature difference	10 K
Volume flow	0.3l/min
Environmental conditions	20-22 °C, max. 40% Luftfeuchte



Water quality

pH value	79
Corrosion	Inhibitors necessary
Sulfides	<10 ppm
Sulphate	<100 ppm
Chloride	<50 ppm
Bacteria	<1000 CFUs/mL (Colony Forming Unit)
Water hardness (calcium carbonate)	<200 ppm
Evaporation residues	<500 ppm
Turbidity	<20 NTU (Nephelometric Turbidity Unit)

Mainboards

Manufacturer	Supermicro
Mainboards	Supermicro X11DPi-NT
Chipset	Intel C622
Socket	Intel LGA 3647-0
Processor	Intel Xeon Scalable (Skylake SP / Cascade Lake SP)
Main Memory	bis zu 1 TB DDR4 2400/2666 RDIMM (16 DIMMs)
LAN Onboard	2x 10 Gbit/s LAN (RJ-45)
LAN chipset	Intel X557
LAN chipset LAN Onboard (dedicated IPMI)	Intel X557 1x RJ45 Dedicated IPMI LAN port
LAN Onboard (dedicated	
LAN Onboard (dedicated IPMI)	1x RJ45 Dedicated IPMI LAN port

Onboard ports

SATA-3 (6 Gb/s)	14x SATA-3 (6 Gbit/s) Intel C622 RAID 0, 1, 10, 5, Software-Raid 8x Intel PCH 4x Intel SCU 2x SuperDOM support
SATA-3 port distribution	8x Intel PCH 4x Intel SCU 2x SuperDOM support
M.2	1 x M.2 PCle 3.0 x4
M.2 form factor	2260, 2280, 22110

Extension-slots for additional cards

PCI slots (mainboard) 4 x PCIe 3.0 x16

2 x PCle 3.0 x8

Available slots in the

chassis

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6 Low profile, Half Length, Full Length

Storage capacity

Possible number of HDDs	8x 3.5" / 2.5" (Hot-swap)
Backplane	SATA / SAS-3 (12 Gb/s)
Max. capacity SAS	61.44 TB
Max. capacity SATA	30.72 TB
Maximum capacity SSD	61.44 TB
Maximum capacity M.2	3.84 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

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Unit	2U
Dimensions	89 mm (H), 437 mm (W), 647 mm (D)
drives (in scope of delivery)	not contained, optional available
Drives (optional)	1x Slim CD/DVD/DVD-R External USB-drives
Fan (center)	3x 80x80x38mm Hot-swap (9400rpm, 53.5dBA)
Silent blowerkit option	no

Power supply

Power supply unit	2x 800 Watt redundantes Hot Swap Netzteil (80plus Titanium)
energy efficiency	96%
PMBus support	Yes, Ver.1.2

Rack Assembly

Assembly rails	contained in the scope of supply
rail length	675-880 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	
environment-temperature	20 - 22 degree
(appropriate BSI)	

Recommended air humidity (appropriate BSI)

max. 40%