

Datasheet

2U AMD single-CPU RA1208-AIEPN server

[Ver. 2.1]

Highlights at a glance:

- Incl. 1x AMD EPYC 9124, can be equipped with a CPU (AMD EPYC 9004 (Genoa)) up to 128 cores
- Incl. 16 GB RAM, upgradable to 1.125TB RAM, (12 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 5 LP/ HL/ FL add-on card(s), 3x PCIe 5.0 x16 2x PCIe 5.0 x8
- Energy-efficient power supply 80 PLUS Titanium (>96%) red. NT
- Integrated IPMI (dedicated NIC)



Mainboards

Manufacturer	Supermicro
Mainboards	H13SSL-NT
Chipset	AMD System on Chip
Socket	AMD SP5
Processor	AMD EPYC 9004 (Genoa)
Main Memory	12 DIMMs 1.125 TB DDR5 4800 RDIMM
LAN Onboard	2x 10 Gbit/s LAN (RJ-45)
LAN chipset	Broadcom BCM57416

LAN Onboard (dedicated IPMI)	1
Onboard graphic	1x VGA ASPEED AST2600 BMC
Additional card (optional)	PNY NVIDIA Quadro T1000 (4GB)
Onboard Input/Output	USB (no PS2 ports!) 1x TPM 2.0 header 1x COM Port (header)
USB ports	4x USB (rear) (USB 3.0) (USB 3.0) 0x USB on board (type A)

## Extension-slots for additional cards

Available slots in the chassis	5x Low profile/Half Length/Full Length
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## Onboard ports

SATA-3 (6 Gb/s)	8x SATA-3 (6 Gbit/s) AMD SoC No integrated RAID function
M.2	2 x M.2 PCIe 3.0 x4, SATA
M.2 form factor	2280, 22110
NVMe	6x 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.