

Datasheet

2U AMD single-CPU RA1212-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)
- 12x 3.5" / 2.5" drives (hot-swap)
– SATA/SAS/NVMe depending on backplane selection
- 2 x 2.5"(Rear, hot-swap)
- Expandable with 5 LP/ HL 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
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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)	12x 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)	264 TB
Max. capacity HDD (SATA)	264 TB
Max. capacity SSD (SATA)	92.16 TB
Max. capacity SSD (SATA)	92.16 TB
Max. capacity SSD (U.2 NVMe)	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 (www.thomas-krenn.com/ipmi-sensoren)

Chassis

Unit	2U
Dimensions	88 mm (H), 430 mm (W), 680 mm (D),
drives (in scope of delivery)	not contained, optional available
Drives (optional)	External USB-drives
Fan (center)	3x 80x38mm Hot-swap (,)
Silent blowerkit option	no
Front USB ports	1

Power supply

Power supply unit	2x 1300 Watt redundantes Hot Swap Netzteil (80 plus Titanium)
energy efficiency	96%

Rack Assembly

Assembly rails	contained in the scope of supply
rail length	420 - 620 mm
Total length server front to end of assembly rail	630 mm
Max. extraction length	550 mm

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.