

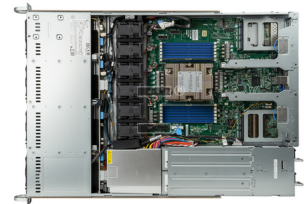
Datasheet

1U AMD single-CPU RA1104-SMEPN server

[Ver. 1.0]

Highlights at a glance:

- Incl. 1x AMD EPYC 9124, can be equipped with a CPU (AMD EPYC 9004 (Genoa)) up to 32 cores
- Incl. 16 GB RAM, upgradeable up to 1.152TB RAM, (12 DIMMs)
- 4x 3.5" / 2.5" drives (Hot-swap), capacities up to 61.44 TB (NVMe)
- 2x 10 Gbit/s LAN (RJ-45)
- Expandable with 0x LP/HL, 2x FP/HL and 1x OCP 3.0 add-on card(s)
- Energy-efficient power supply 80 PLUS Titanium (>96%) red. NT
- Integrated IPMI (dedicated NIC)



Mainboards

Manufacturer	Supermicro
Mainboards	Supermicro H13SSW
Chipset	AMD System on Chip
Socket	AMD SP5
Processor	AMD EPYC 9004 (Genoa)
Main Memory	12 DIMMs 1.125 TiB DDR5 4800/5600 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
Onboard Input/Output	USB (no PS2 ports!) 1x TPM 2.0 header
USB ports	2x USB (rear) 3.0 0x USB on board (type A)

Extension-slots for additional cards

Available slots in the chassis	2x Half Length/Full profile/Low profile
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Onboard ports

SATA-3 (6 Gb/s)	4x SATA-3 (6 Gbit/s) AMD SoC No integrated RAID function
mSATA	0x mSATA
M.2	2 x M.2 PCIe 3.0 x4
M.2 form factor	2280, 22110
NVMe	4x NVMe onboard

Drives / storage capacity

Drive slots (total)	4x 3.5" / 2.5" (Hot-swap) 0x 2.5"
SAS / SATA slots	4x SAS / SATA
NVMe / SAS / SATA hybrid slots	4x NVMe / SAS / SATA (hybrid)
Backplane	SATA / SAS-3 / NVMe (12 Gb/s)
Max. capacity HDD (SAS)	122.88 TB
Max. capacity HDD (SATA)	96 TB
Max. capacity SSD (SATA)	30.72 TB
Max. capacity SSD (SATA)	122.88 TB
Max. capacity SSD (U.2 NVMe)	61.44 TB

Server management

Management software	Supermicro SuperDoctor 5
Remote management	Integrated IPMI (dedicated NIC)
Features	<p>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</p>
IPMI-sensors	<p>CPU-temperature (OK / warning) CPU Thermal Margin (Grad Celsius) system-temperature (Celsius degree) RAM-temperature (celsius degree) Electronic voltage (volt) Electric performance (watt) Cooler speed (RPM) Power supply status (OK / warning) Chassis-intrusion (OK / warning)</p>

Chassis

Unit	1U
Dimensions	43 mm (H), 437 mm (W), 650 mm (D)
drives (in scope of delivery)	not contained, optional available
Drives (optional)	External USB-drives
Fan (center)	6 Hot-swap (,)
Silent blowerkit option	no

Power supply

Power supply unit	2x 860 Watt redundantes Netzteil (80plus Titanium)
energy efficiency	96%

Rack Assembly

Assembly rails	contained in the scope of supply
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environment-requirements

Recommended ambient temperature	10 - 35 °C
Recommended humidity	10 - 90% (noncondensing)
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.