

Datasheet

4U AMD single-CPU RA1436-AIEP server

[Ver. 3.0]

Highlights at a glance:

- Incl. 1x AMD EPYC 9015, can be expanded to up to 1x CPUs (8 - 128 cores)
- Incl. 16 GB RAM, upgradeable up to 1.152TB RAM, (12 DIMMs)
- 36x 3.5" / 2.5" (Hot-swap) up to 1.10592 PB, SSDs: 1.10592 PB
- Optional additional drives: 2x 2.5" (Rear, hot-swap)
- SAS-3 (12Gbit/s) expander backplane
- 2x 1 Gbit/s LAN ports (RJ-45)
- Expandable with 5 LP/ FL additional cards, 3x PCIe 4.0 x16 and 2x PCIe 4.0 x8
- Energy-efficient power supply 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), AMD EPYC 9005 (Turin)
Main Memory	12 DIMMs 1.125 TiB DDR5 4800/5600/6400 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 RTX A1000 (8GB)
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

PCI slots (mainboard)	0x PCIe 3.0 x1 2x PCIe 5.0 x8 3x PCIe 5.0 x16
Available slots in the chassis	5x

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)	36x 3.5" / 2.5" (Hot-swap) 2x 2.5" (Rear, hot-swap)
SAS / SATA slots	36x SAS / SATA
Backplane	SATA / SAS-3 (12 Gb/s) expander backplane
Max. capacity HDD (SAS)	1.10592 PB
Max. capacity HDD (SATA)	864 TB
Max. capacity SSD (SATA)	276.48 TB
Max. capacity SSD (SATA)	1.10592 PB

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	4U
Dimensions	174.3 mm (H), 430 mm (W), 680 mm (D),
drives (in scope of delivery)	not contained, optional available
Drives (optional)	External USB-drives
Fan (center)	6 80x80x38mm Hot-swap (10500rpm, 60dBA)
Silent blowerkit option	no
Front USB ports	2

Power supply

PMBus support	Yes, Ver.1.2
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Rack Assembly

Assembly rails	contained in the scope of supply
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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.