

# Datasheet

## Open-E RA1112 (All-NVMe)

[Ver. 3]

### Highlights at a glance:

- Optimized hardware for use with Open-E JovianDSS
- Incl. Open-E JovianDSS pre-installation (optional in the mirror)
- Incl. 1x AMD EPYC 9015, upgradeable with a CPU (AMD EPYC 9004 (Genoa), AMD EPYC 9005 (Turin)) up to 128 cores
- Incl. 16 GB RAM, upgradeable up to 384GB RAM, (12 DIMMs)
- 12 drives (Hot-swap), capacity up to 168.96 TB (SSD), 153.6 TB (NVMe)
- 2x 10 Gbit/s LAN (RJ-45)
- Expandable with 2 / HLLP add-on card(s), 1x PCIe 5.0 x16 1x PCIe 5.0 x8
- Energy-efficient power supply 80 PLUS Titanium (>96%) red. NT



## Mainboards

Manufacturer	Thomas-Krenn.AG
Mainboards	TKEP-SP-A4
Chipset	AMD System on Chip
Socket	AMD SP5
Processor	AMD EPYC 9004 (Genoa), AMD EPYC 9005 (Turin)
Main Memory	12 DIMMs 384 GiB DDR5 4800/5600/6400 RDIMM

LAN Onboard	2x 10 Gbit/s LAN (RJ-45)
LAN Onboard (dedicated IPMI)	1x Management LAN
USB ports	USB 3.2 Gen 1 USB 3.2 Gen 1

## Extension-slots for additional cards

Available slots in the chassis	2x Low profile
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## Onboard ports

M.2	1 x M.2 PCIe 3.0 x4
M.2 form factor	2280

## Drives / storage capacity

Drive slots (total)	12 (Hot-swap)
SAS / SATA slots	8x SAS / SATA
NVMe slots	10x  NVMe
NVMe / SAS / SATA hybrid slots	8x NVMe / SAS / SATA (hybrid)
Backplane	SATA / SAS-3 / NVMe (12 Gb/s)
Max. capacity HDD (SATA)	61.44 TB
Max. capacity SSD (SATA)	61.44 TB
Max. capacity SSD (U.2 NVMe)	153.6 TB

## Chassis

Unit	1U
Dimensions	43 mm (H), 439 mm (W), 770 mm (D)
drives (in scope of delivery)	not contained, optional available
Drives (optional)	External USB-drives

## Power supply

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