

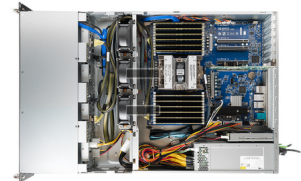
# Datasheet

## 2U AMD Single-CPU RA1212-AIEPN+ Server

[Ver. 3.0]

### Highlights at a glance:

- Incl. 1x AMD EPYC 9015, can be equipped with a CPU (AMD EPYC 9004 (Genoa), AMD EPYC 9005 (Turin)) up to 128 cores
- Incl. 16 GB RAM, upgradeable up to 1.536TB RAM, (24 DIMMs)
- 12x 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 4 LP/ HL add-on card(s), 4x PCIe 5.0 x16
- Energy-efficient power supply 80 PLUS Titanium (>96%) red. NT
- Integrated IPMI (dedicated NIC)



### Mainboards

Manufacturer	Gigabyte
Mainboards	Gigabyte MZ33-AR1
Chipset	AMD System on Chip
Socket	AMD SP5
Processor	AMD EPYC 9004 (Genoa), AMD EPYC 9005 (Turin)
Main Memory	24 DIMMs 1.5 TiB DDR5 4800/5200/5600/6400 RDIMM
LAN Onboard	2x 10 Gbit/s LAN (RJ-45)

LAN chipset	Broadcom BCM57416
LAN Onboard (dedicated IPMI)	1x Management LAN
Onboard graphic	1x VGA ASPEED AST2600 BMC
Additional card (optional)	Gravid SupremeRAID 1001 (8x NVMe)
USB ports	2x USB (rear) USB 3.2 Gen 1

## Extension-slots for additional cards

PCI slots (mainboard)	4x PCIe 5.0 x16
Available slots in the chassis	4x

## Onboard ports

SATA-3 (6 Gb/s)	8x SATA-3 (6 Gbit/s)
M.2	1 x M.2 PCIe 3.0 x4
M.2 form factor	2280, 22110
NVMe	12x 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)	368.64 TB
Max. capacity HDD (SATA)	288 TB
Max. capacity SSD (SATA)	92.16 TB
Max. capacity SSD (SATA)	368.64 TB
Max. capacity SSD (U.2 NVMe)	122.88 TB

## Server management

Management software	GIGABYTE Management Console
Remote management	Integrated IPMI (dedicated NIC)

## 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.