Datasheet

4U AMD Single-CPU RA1424-AIEP+ Server

[Ver. 1.0]

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 64 cores
- Incl. 16 GB RAM, upgradeable up to 2.304TB RAM, (24 DIMMs)
- 24x 3.5" / 2.5" (Hot-swap) up to 576 TB, SSDs: 368.64 TB
- Optional additional drives: 2x 2.5" (Rear, hot-swap)
- SAS-3 (12Gbit/s) expander backplane
- 2x 10 Gbit/s LAN (RJ-45)
- Expandable with 4 LP/ FL add-on card(s), 4x PCIe 5.0 x16
- Energy-efficient power supply 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 2.25 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)	PNY NVIDIA RTX A1000 (8GB)
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)	12x 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)	24x 3.5" / 2.5" (Hot-swap) 2x 2.5" (Rear, hot-swap)
SAS / SATA slots	24x SAS / SATA
Backplane	SATA / SAS-3 (12 Gb/s) expander backplane
Max. capacity HDD (SAS)	576 TB
Max. capacity HDD (SATA)	576 TB
Max. capacity SSD (SATA)	184.32 TB
Max. capacity SSD (SATA)	368.64 TB

Server management

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

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)	3 120x120x25mm Hot-swap (,)
Silent blowerkit option	no
Front USB ports	2

Power supply

PMBus support	Yes, Ver.1.2

Rack Assembly

Assembly rails	contained in the scope of supply

environment-requirements

Recommended ambient temperature	20 - 22 degree
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.