Datasheet

Proxmox Backup Server (RA1212-AIEPN+)

[Ver. 4.0]

Highlights at a glance:

- Includes 1x AMD EPYC 9015 and 64 GB RAM
- Up to 64 cores and 1536 GB RAM possible
- Up to 180 TB gross or 60 TB net high-performance NVMe storage
- Expandable with 4 additional cards (4x PCI-E 5.0 x16) for extra NICs
- Custom network and switch configuration possible (1 Gbit/s – 100 Gbit/s)
- Initial installation and commissioning available as an optional extra

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
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 Low profile/Half Length

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)	12x 3.5" / 2.5" (Hot-swap) 2x 2.5" (Rear, hot-swap)
SAS / SATA slots	12x SAS / SATA
NVMe / SAS / SATA hybrid slots	12x NVMe / SAS / SATA (hybrid)
Backplane	SATA / SAS-3 / NVMe (12 Gb/s)
Max. capacity HDD (SATA)	288 TB
Max. capacity SSD (SATA)	92.16 TB
Max. capacity SSD (U.2 NVMe)	184.32 TB

Server management

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

Chassis

Unit	2U
Dimensions	87 mm (H), 438 mm (W), 905 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	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.