

Datasheet

2U AMD Single-CPU RA1212-AIEPN+ (ESXi)

[Ver. 1.0]

Highlights at a glance:

- Includes 1x AMD EPYC 9015 and 16 GB RAM
- Up to 128 cores and 2,304 TB of RAM possible
- 12x 3.5" / 2.5" storage drives (hot-swap) – SATA/SAS/NVMe
- Integrated IPMI (dedicated NIC)
- Expandable with 4 LP/HL expansion cards, 4x PCIe 5.0 x16
- Energy-efficient power supply, model NT



Mainboards	
Characteristic	
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

Characteristic		Mainboards	
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	
Characteristic		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	
Characteristic		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	
Characteristic		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 (SAS)	61.44 TB		
Max. capacity HDD (SATA)	61.44 TB		
Max. capacity SSD (SATA)	61.44 TB		
Max. capacity SSD (SATA)	61.44 TB		
Max. capacity SSD (U.2 NVMe)	184.32 TB		
		Server management	
Characteristic		Server management	
Management software	GIGABYTE Management Console		
Remote management	Integrated IPMI (dedicated NIC)		
		Chassis	
Characteristic		Chassis	
Unit	2U		
Dimensions	87 mm (H), 438 mm (W), 720 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	
Characteristic		Rack Assembly	
Assembly rails	contained in the scope of supply		

environment-requirements	
Characteristic	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.