

S453-Z30-AAV1 (Rev. 1.x/3.x)

Storage Server - AMD EPYC™ 9004 Server Processors -
4U, UP, 36+2-Bay SATA/SAS



Key Features

- Single AMD EPYC™ 9004 Server processors
- 12-Channel DDR5 RDIMM per CPU with 24 x DIMMs
- 2 x 10 Gb/s LAN ports via Broadcom® BCM57416
- 24 x 3.5"/2.5" SATA/SAS hot-swap bays on the front side
- 12 x 3.5"/2.5" SATA/SAS hot-swap bays on the rear side
- 2 x 2.5" SATA/SAS bays on the rear side for boot drives
- SAS expander with 12 Gb/s transfer speed
- 1 x M.2 slot with PCIe Gen4 x4
- 4 x LP PCIe x16 slots with Gen5 x16 lanes
- Dual 1600 W 80 PLUS Titanium redundant power supplies

Applications

Storage Server, Networks Server...

Specification

Dimensions	4U (W448.5 x H174.3 x D625 mm)	RAID	Require RAID add-in cards
Motherboard	MZ33-AR0	PCIe Expansion Slots	4 x LP x16 (Gen5 x16)
CPU	AMD EPYC™ 9005 Server processors AMD EPYC™ 9004 Server processors Single processor, cTDP up to 300 W *cTDP supported up to 400 W under limited thermal conditions.	I/O Ports	Front: 2 x USB 3.2 Gen1 Rear: 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN
OS Compatibility	OS Support List	Backplane Board	Front- CBPD400: SATA 6 Gb/s or SAS 12 Gb/s Rear - CBP2021: SATA 6 Gb/s or SAS 12 Gb/s Rear - CBPD0C0: SATA 6 Gb/s or SAS 12 Gb/s
Socket	1 x LGA 6096 (Socket SP5)	TPM	1 x TPM header (SPI), Optional TPM 2.0 kit: CTM010
Chipset	System on Chip	Power Supply	Dual 1600 W 80 PLUS Titanium redundant power supplies AC Input: 100-240 V
Memory	12-Channel DDR5 RDIMM, 24 x DIMMs [EPYC 9005] Up to 4800 MT/s (1DPC), 4000 MT/s (1R 2DPC), 3600 MT/s (2R 2DPC) [EPYC 9004] Up to 4800 MT/s (1DPC), 3600 MT/s (2DPC)	System Management	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface
LAN	2 x 10 Gb/s LAN (1 x Broadcom® BCM57416), Support NCSI 1 x 10/100/1000 Mb/s Management LAN	System Fans	8 x 80x80x38mm
Video	Integrated in ASPEED® AST2600 - 1 x VGA port	Operating Properties	Operating: 10°C to 35°C, 8% to 80% (non-condensing) Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)
Storage	Front hot-swap: 24 x 3.5"/2.5" SATA/SAS [1] Rear hot-swap: 12 x 3.5"/2.5" SATA/SAS [1] Rear: 2 x 2.5" SATA/SAS [2], for boot drives Internal M.2: 1 x M.2 (2280/22110), PCIe Gen4 x4 [1] Storage card is required to enable SATA and SAS drives. - Broadcom SAS35x48 expander - Bandwidth: SATA 6 Gb/s or SAS 12 Gb/s per port [2] Additional SAS card is required for SAS support on boot drives.	Packaging Content	1 x S453-Z30-AAV1 1 x CPU heatsink 1 x 3-Section Rail kit
		Ordering Part Numbers	6NS453Z30MR000ACV1*

