GIGABYTE™

S453-Z30-AAV2 (Rev. 3.x)

Storage Server - AMD EPYC™ 9005/9004 Server Processors - 4U, UP, 36+2-Bay SATA/SAS

Key Features

- Single AMD EPYC™ 9005/9004 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)
Motherboard	MZ33-AR1
CPU	AMD EPYC™ 9005 Server processors AMD EPYC™ 9004 Server processors Single processor, cTDP up to 500 W
OS Compatibility	OS Support List
Socket	1 x LGA 6096 (Socket SP5)
Chipset	System on Chip
Memory	12-Channel DDR5 RDIMM, 24 x DIMMs [EPYC 9005] Up to 5200 MT/s (1DPC) Up to 4400 MT/s (1R 2DPC), 4000 MT/s (2R 2DPC) [EPYC 9004] Up to 4800 MT/s (1DPC), 3600 MT/s (2DPC)
LAN	2 x 10 Gb/s LAN (1 x Broadcom® BCM57416), Support NCSI 1 x 10/100/1000 Mb/s Management LAN
Video	Integrated in ASPEED® AST2600 - 1 x VGA port
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.

RAID	Require RAID add-in cards
PCIe Expansion Slots	4 x LP x16 (Gen5 x16)
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
Backplane Board	**Front - CBPD4O0:** 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
TPM	1 x TPM header (SPI), Optional TPM 2.0 kit: CTM012
Power Supply	Dual 1600 W 80 PLUS Titanium redundant power supplies AC Input: 100-240 V
System Fans	8 x 80x80x38mm
Operating Properties	Operating: 10°C to 30°C, 8% to 80% (non-condensing) Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)
Packaging Content	1 x S453-Z30-AAV2 1 x CPU heatsink 1 x 3-Section Rail kit
Ordering Part Numbers	6NS453Z30MR000ACV2*

Learn more at: https://www.gigabyte.com/Enterprise

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