

S452-Z30 (Rev. 100/1T0)

Storage Server - AMD EPYC™ 7002/7001 Series Processors -
4U UP 42-Bay Gen3 NVMe/SATA/SAS

AMD
EPYC



Key Features

- Single AMD EPYC™ 7002/7001 Series processors
- 8-Channel DDR4 RDIMM/LRDIMM per CPU with 16 x DIMMs
- 2 x 1 Gb/s LAN ports via Intel® I350-AM2
- 36 x 3.5"/2.5" SATA/SAS hot-swap bays
- 4 x 2.5" Gen3 NVMe/SATA hot-swap bays on the rear side
- 2 x 2.5" SATA hot-swap bays on the rear side
- SAS expander with 12 Gb/s transfer speed
- 2 x M.2 slots with PCIe Gen3 x4
- 4 x LP PCIe Gen4 x16 and x8 slots
- 2 x LP PCIe Gen3 x16 and x8 slots
- 1+1 1200 W 80 PLUS Platinum redundant power supplies (-100)
- 1+1 1300 W 80 PLUS Platinum redundant power supplies (-101)
- 1+1 1300 W 80 PLUS Platinum redundant power supplies (-1Tx)

Applications

Storage Server...

Specification

Dimensions	4U (W482.6 x H177 x D625 mm)	RAID	Require RAID add-in cards
Motherboard	MZ32-AR0	PCIe Expansion Slots	3 x LP x16 (Gen4 x16) 1 x LP x16 (Gen4 x8) 1 x LP x16 (Gen3 x16 or x8) 1 x LP x8 (Gen3 x0 or x8)
CPU	AMD EPYC™ 7002 Series processors AMD EPYC™ 7001 Series processors Single processor, cTDP up to 180 W	I/O Ports	Front: 2 x USB 3.0 Rear: 3 x USB 3.0, 1 x VGA, 2 x RJ45, 1 x MLAN
Socket	1 x LGA 4094 (Socket SP3)	TPM	1 x TPM header (SPI), Optional TPM 2.0 kit: CTM010
Chipset	System on Chip	Power Supply	1+1 1200 W 80 PLUS Platinum redundant power supplies (-100) 1+1 1300 W 80 PLUS Platinum redundant power supplies (-101) 1+1 1300 W 80 PLUS Titanium redundant power supplies (-1Tx) AC Input: 100-240 V
Memory	8-Channel DDR4 RDIMM/LRDIMM, 16 x DIMMs Up to 3200/2933 MT/s	System Fans	8 x 80x80x38mm
LAN	2 x 1 Gb/s LAN (1 x Intel® I350-AM2), Support NCSI 1 x 10/100/1000 Mb/s Management LAN	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)
Video	Integrated in ASPEED® AST2500 - 1 x VGA port	Packaging Content	1 x S452-Z30 1 x CPU heatsink 1 x 3-Section Rail kit
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] 4 x 2.5" Gen3 NVMe/SATA ^[2] 2 x 2.5" SATA ^[2] Internal M.2: 2 x M.2 (2242/2260/2280), PCIe Gen3 x4	Ordering Part Numbers	6NS452Z30MR-00-1*

^[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] Rear side 2.5" bays only support Solid State Drives due to thermal consideration.



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

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