

S452-Z30

Storage Server - 4U UP 42-Bay



Features

- Single AMD EPYC™ 7003 Series processors
- 8-Channel RDIMM/LRDIMM DDR4, 16 x DIMMs
- 2 x 1Gb/s LAN ports (Intel® I350-AM2)
- 1 x dedicated management port
- 36 x 3.5" SATA/SAS hot-swap HDD/ SSD bays
- 2 x 2.5" SATA hot-swap SSD bays
- 4 x 2.5" SATA/NVMe hybrid hot-swap SSD bays
- SAS expander with 12Gb/s transfer speed
- 2 x Ultra-Fast M.2 with PCIe Gen3 x4 bandwidth
- Up to 5 x PCIe Gen4 slots and 2 x PCIe Gen3 low profile slots
- Aspeed® AST2500 remote management controller
- Dual 1200W (240V) 80 PLUS Platinum redundant power supply

Specification

Dimensions	4U (W482.6 x H177 x D625 mm)	Backplane I/O	3.5" HDD/SSD bays bandwidth: SATA 6Gb/s or SAS 12Gb/s 2.5" HDD/SSD bays bandwidth: SATA 6Gb/s or SAS 12Gb/s or NVMe PCIe x4 per port
Motherboard	MZ32-AR0 Rev. 3.0	TPM	1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010
CPU	AMD EPYC™ 7003 Series processors Single processor, 7nm technology, cTDP up to 180W Up to 64-core, 128 threads per processor Compatible with AMD EPYC™ 7002 Series processors	Power Supply	Dual 1200W (240V) 80 PLUS Platinum redundant power supply
Chipset	System on Chip	System Management	Aspeed® AST2500 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
Memory	8-Channel DDR4 memory, 16 x DIMM slots RDIMM/LRDIMM modules up to 128GB supported Memory speed: Up to 3200/2933 MHz	OS Compatibility	Windows Server 2016 / 2019 RHEL 8.3 (x64) or later SLES 12 SP5 (x64) / 15 SP2 (x64) or later Ubuntu 18.04.5 LTS (x64) / 20.04 LTS (x64) or later VMware ESXi 6.7 Update3 P03 / 7.0 Update1 or later Citrix Hypervisor 8.2.0 or later
LAN	2 x 1GbE LAN ports (1 x Intel® I350-AM2) 1 x 10/100/1000 management LAN	Weight	Net Weight: 30.18 kg / Gross Weight: 53.7 kg
Video	Integrated in Aspeed® AST2500 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp, DDR4 SDRAM	System Fans	8 x 80x80x38mm (16,300rpm)
Storage	Front: 24 x 3.5" or 2.5" SATA/SAS hot-swap HDD/SSD bays Rear: 12 x 3.5" or 2.5" SATA/SAS hot-swap HDD/SSD bays 2 x 2.5" SATA/SAS hot-swap SSD bays 4 x 2.5" SATA/SAS/NVMe hybrid hot-swap SSD bays Default supports 2 x SATA & 4 x SATA/NVMe devices in rear side SAS card is required to enable the drive bays Suggested 12Gb/s SAS cards: CRA4648, CSA4648 2 x M.2 slots (PCIe Gen3 x4, M-key)	Operating Properties	Operating temperature: 10°C to 35°C Operating humidity: 8-80% (non-condensing) Non-operating temperature: -40°C to 60°C Non-operating humidity: 20%-95% (non-condensing)
RAID	Depends on SAS add-on Card	Packaging Content	1 x S452-Z30 1 x CPU heatsink 1 x Rail kit
Expansion Slots	3 x PCIe x16 (Gen4 x16) slots, LPHL 1 x PCIe x16 (Gen4 x8) slot, LPHL 1 x PCIe x8 (Gen3 x8 or x0) slot, LPHL 1 x PCIe x8 (Gen3 x16 or x8) slot, LPHL 1 x OCP 2.0 mezzanine slot with PCIe Gen3 x16 bandwidth	Reference Numbers	Barebone package: 6NS452Z30MR-00 Rev. A00 - Motherboard: 9MZ32AR0NR-00 - Rail kit: 25HB2-3A6104-I0R - CPU heatsink: 25ST1-44320G-A0R - Back plane board_Front_24-port: 9CBPD400NR-00 - Back plane board_Rear_12-port: 9CBPDO0NR-00 - Back plane board_Rear_2*2.5"-port: 9CBP2021NR-00 - Back plane board_Rear_4*2.5"-port: 9COBPU43NR-00 - Fan module: 25ST2-883829-D0R - 1200W Power supply: 25EPO-212003-D0S
Front I/O	2 x USB 3.0		
Rear I/O	3 x USB 3.0, 1 x VGA, 1 x COM_1, 2 x RJ45, 1 x MLAN		

* All specifications are subject to change without notice. Please visit our website for the latest information.

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