GIGABYTE™

S453-Z30-AAV1

Storage Servers - 4U UP 36+2-Bay SATA/SAS

AMD **EPYC**

Features

- AMD EPYC™ 9004 series processor family
- Single processor, 5nm technology
- 12-Channel RDIMM DDR5, 24 x DIMMs
- 2 x 10Gb/s LAN ports
- 1 x Dedicated management port
- 24 x 3.5"/2.5" SATA/SAS hot-swappable bays on front side
- 12 x 3.5"/2.5" SATA/SAS hot-swappable bays on rear side
- 2 x 2.5" SATA/SAS bays on rear side for boot drives
- SAS expander with 12Gb/s transfer speed
- 1 x M.2 slot with PCIe Gen4 x4 interface
- 4 x LP PCIe Gen5 x16 slots
- Dual 1600W (240V) 80 PLUS Titanium redundant power supply

Specification

Dimensions	4U (W482.6 x H177 x D625 mm)	**Backplane I/O**	Front side - CBPD4O0: SATA 6Gb/s or SAS 12Gb/s Rear side - CBP2021: SATA 6Gb/s or SAS 12Gb/s Rear side - CBPD0C0: SATA 6Gb/s or SAS 12Gb/s
Motherboard	MZ33-AR0		
CPU	AMD EPYC™ 9004 series processor Single processor, 5nm technology Up to 96-core, 192 threads per processor CPU TDP up to 400W	**TPM**	1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010
		Power Supply	1+1 1600W 80 PLUS Titanium redundant power supply AC Input: 100-240V
Chipset	System on Chip		
Memory	24 x DDR5 DIMM slots, 12-Channel memory architecture RDIMM modules up to 128GB supported 3DS RDIMM modules up to 256GB supported Memory speed: Up to 4800 MHz (1DPC), 3600 MHz (2DPC)	**System Management**	Aspeed® AST2600 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
		OS Compatibility	Windows Server 2019 / 2022 RHEL 8.6 / 8.7 / 9.0 / 9.1 (x64) SLES 15 SP4 (x64) Ubuntu 20.04.5 LTS / 22.04 LTS /22.04.1 LTS (x64) VMware ESXi 7.0 Update 3i / 8.0 Citrix Hypervisor 8.2.1
LAN	2 x 10Gb/s BASE-T LAN ports (1 x Broadcom® BCM57416) NCSI function supported 1 x 10/100/1000 management LAN		
Video	Integrated in Aspeed AST2600 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp, DDR4 SDRAM	**System Fans**	4 x 80x80x38mm (16,300rpm) 4 x 80x80x38mm (9,000rpm)
Storage	Front side: 24 x 3.5"/2.5" SATA/SAS hot-swappable bays Rear side: 12 x 3.5"/2.5" SATA/SAS hot-swappable bays 2 x 2.5" SATA/SAS bays for boot drives 1 x Broadcom SAS35x48 expanders SAS card is required to enable the drive bays	**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)
		Packaging Content	1 x S453-Z30, 1 x CPU heatsink 1 x Rail kit
Expansion Slots	4 x PCIe Gen5 x16 Low-profile slots 1 x M.2 slot (M-key, PCIe Gen4 x4, supports 2280/22100 cards)	**Reference Numbers**	Barebone package: 6NS453Z30MR000AAV1* - Motherboard: 9MZ33AR0NR-000 - Rail kit: 25HB2-3A6104-I0R - CPU heatsink: 25ST1-143100-A0R - Power supply: 25EP0-21600D-G1S
Front I/O	2 x USB 3.2 Gen1		
Rear I/O	2 x USB 3.2 Gen1, 1 x VGA, 1 x COM, 2 x RJ45, 1 x MLAN		

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