R283-Z97-AAL1 (Rev. 1.x)

Rack Server - AMD EPYC™ 9004 -
2U DP 12+4-Bay Gen5 NVMe/SATA/SAS-4 2700 W Titanium

AMD EPYC | Windows Server 2025 Certified | Graid | 80 PLUS TITANIUM

Key Features

- Supports up to 2 x Dual slot Gen5 GPUs
- Dual AMD EPYC™ 9004 Series Processors
- 12-Channel DDR5 RDIMM, 24 x DIMMs
- 2 x 1Gb/s LAN ports via Intel® I350-AM2
- 8 x 3.5"/2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 4 x 3.5"/2.5" SATA/SAS-4 hot-swap bays
- 4 x 2.5" SATA/SAS-4 hot-swap bays on the rear side
- 2 x FHFL PCIe Gen5 x16 for GPUs
- 2 x FHHL PCIe Gen5 x16
- 2 x OCP NIC 3.0 PCIe Gen5 x16
- Compatible with SupremeRAID™ by Graid Technology
- 1+1 2700 W 80 PLUS Titanium redundant power supplies

Specification

Dimensions	2U (W438 x H87.5 x D815 mm)	**PCIe Expansion Slots**	2 x FHFL PCIe Gen5 x16, for GPUs 2 x FHHL PCIe Gen5 x16 2 x OCP NIC 3.0 PCIe Gen5 x16, Support NCSI
Motherboard	MZ93-FS1		
CPU	AMD EPYC™ 9005 Series Processors AMD EPYC™ 9004 Series Processors Dual processor, cTDP up to 240 W [1] [1] The EPYC 9005 series processors with a cTDP of 240 W are supported only under ambient temperatures of 25°C.	**I/O Ports**	**Front:** 2 x USB 3.2 Gen1 **Rear:** 2 x USB 3.2 Gen1, 1 x Mini-DP, 2 x RJ45, 1 x MLAN
		Backplane Board	**Front - CBP20C7:** PCIe Gen5 x4 or SATA 6 Gb/s or SAS-4 24 Gb/s **Rear - CBP2025:** SATA 6 Gb/s or SAS-4 24 Gb/s
OS Compatibility	OS Support List	**TPM**	1 x TPM header (SPI), Optional TPM 2.0 kit: CTM010
Socket	2 x LGA 6096 (Socket SP5)	**Power Supply**	1+1 2700 W 80 PLUS Titanium redundant power supplies AC Input: 100-240 V *The system power supply requires C19 power cord.
Chipset	System on Chip		
Memory	12-Channel DDR5 RDIMM, 24 x DIMMs Up to 4800 MT/s		
LAN	2 x 1 Gb/s LAN (1 x Intel® I350-AM2), Support NCSI 1 x 10/100/1000 Mb/s Management LAN	**System Management**	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface
Video	Integrated in ASPEED® AST2600 - 1 x Mini-DP	**System Fans**	4 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)
Storage	**Front hot-swap:** 8 x 3.5"/2.5" Gen5 NVMe/SATA/**SAS-4** [1] 4 x 3.5"/2.5" SATA/**SAS-4** [1] **Rear hot-swap:** 4 x 2.5" SATA/**SAS-4** [1] [1] SAS card is required to support SAS drives.	**Packaging Content**	1 x R283-Z97-AAL1 2 x CPU heatsinks 1 x Mini-DP to D-Sub cable 2 x GPU power cables (CPU 8pin, 350mm) 1 x 2-Section Rail kit
		Ordering Part Numbers	6NR283Z97DR000ABL1*
RAID	Require RAID add-in cards **Optional compatible RAID Cards:** NVMe RAID Cards with SupremeRAID™ by Graid Technology RAID Card models: SR-1000-ED12 Support RAID 0/1/5/6/10	**Optional Parts**	- RAID card (SR-1000-ED12): 25FC1-SRBUN3-AFS - 3-Section Rail kit (Supports CMA): 25HB2-A56121-K0R - Cable Management Arm: 25HB1-R18300-K0R

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

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