GIGABYTE™

G293-Z43-AAP1 (Rev. 1.x)

HPC/AI Server - AMD EPYC™ 9004 Server Processors - 2U, DP, 16 x PCIe Gen5 GPUs (with PCIe switches)



Key Features

- Supports up to 16 x single-slot PCIe Gen5 GPUs
- Dual AMD EPYC™ 9004 Server processors
- 12-Channel DDR5 RDIMM per CPU with 24 x DIMMs
- 2 x 10 Gb/s LAN ports via Broadcom® BCM57416
- 4 x 2.5" Gen5 NVMe/SATA/SAS hot-swap bays
- 4 x 2.5" SATA/SAS hot-swap bays
- 16 x FHFL PCIe x16 slots with Gen5 x16 lanes for GPUs
- 2 x LP PCIe x16 slots with Gen5 x16 lanes for add-in cards
- Dual 3000 W 80 PLUS Titanium redundant power supplies

Specification

Dimensions	2U (W448 x H87.5 x D800 mm)
Motherboard	MZ43-G20
CPU	AMD EPYC™ 9004 Server processors Dual processors, TDP up to 210 W - At 30°C ambient, cTDP up to 240 W
OS Compatibility	OS Support List
Socket	2 x LGA 6096 (Socket SP5)
Chipset	System on Chip
Memory	12-Channel DDR5 RDIMM, 24 x DIMMs Up to 4800 MT/s
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:** 4 x 2.5" Gen5 NVMe/SATA/**SAS** [1] 4 x 2.5" SATA/**SAS** [1] [1] SAS card is required to support SAS drives.
RAID	Require RAID add-in cards
PCIe Expansion Slots	16 x FHFL x16 (Gen5 x16), for GPUs 2 x LP x16 (Gen5 x16), for add-in cards
I/O Ports	**Rear:** 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN
Backplane Board	PCIe Gen5 x4 or SATA 6 Gb/s or SAS 12 Gb/s
TPM	1 x TPM header (SPI), Optional TPM 2.0 kit: CTM010
Power Supply	Dual 3000 W 80 PLUS Titanium redundant power supplies AC Input: 100-240 V *The system power supply requires C19 power cord.
System Management	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface
System Fans	8 x 80x80x38mm
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)
Packaging Content	1 x G293-Z43-AAP1 2 x CPU heatsinks 1 x L-shape Rail kit
Ordering Part Numbers	6NG293Z43DR000AAP1*

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

* All specifications are subject to change without notice. Please visit our website for the latest information.
* All trademarks and logos are the properties of their respective holders.
© 2026 Giga Computing Technology Co., Ltd. All rights reserved.

Last updated: Nov 23, 2026

Designed by GIGA COMPUTING