

G294-Z42-AAP1

HPC/AI Server - AMD EPYC™ 9005/9004 Server Processors -
2U DP 8 x PCIe Gen5 GPUs



Key Features

- Supports up to 8 x dual-slot Gen5 GPUs
- Supports 8 x AMD Radeon™ AI PRO R9700S
- Dual AMD EPYC™ 9005/9004 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-4 hot-swap bays
- 4 x 2.5" SATA/SAS-4 hot-swap bays
- 8 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

Applications

AI Platform, AI Training Server, AI Inference Server, Visual Computing, High-Performance Computing Server...

Specification

Dimensions	2U (W448 x H87.5 x D850 mm)	RAID	Require RAID add-in cards
Motherboard	MZ43-G20	PCIe Expansion Slots	8 x FHFL x16 (Gen5 x16), for GPUs 2 x LP x16 (Gen5 x16), for add-in cards
CPU	AMD EPYC™ 9005 Server Processors AMD EPYC™ 9004 Server Processors Dual processor, cTDP up to 240 W - At 30°C ambient, cTDP up to 300 W	I/O Ports	Rear: 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN
OS Compatibility	OS Support List	TPM	1 x TPM header (SPI), Optional TPM 2.0 kit: CTM012
Socket	2 x LGA 6096 (Socket SP5)	Power Supply	Dual 3000 W 80 PLUS Titanium redundant power supplies AC Input: 100-240 V *The system power supply requires C19 power cord.
Chipset	System on Chip	System Fans	2 x 80x80x38mm 6 x 80x80x80mm
Memory	12-Channel DDR5 RDIMM, 24 x DIMMs [EPYC 9005] Up to 6400 MT/s [EPYC 9004] Up to 4800 MT/s	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)
LAN	2 x 10 Gb/s LAN (1 x Broadcom® BCM57416), Support NCSI 1 x 10/100/1000 Mb/s Management LAN	Packaging Content	1 x G294-Z42-AAP1 2 x CPU heatsinks 4 x GPU power cables (16-pin, 250mm) 4 x GPU power cables (16-pin, 280mm) 1 x L-shape Rail kit
Video	Integrated in ASPEED® AST2600 - 1 x VGA port	Ordering Part Numbers	6NG294Z42DR000ACP1*
Storage	Front hot-swap: 4 x 2.5" Gen5 NVMe/SATA/SAS-4 [1] 4 x 2.5" SATA/SAS-4 [1] [1] SAS card is required to support SAS drives.		



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Last updated: May 22, 2026