

# G294-Z42-AAP1

HPC/AI Server - AMD EPYC™ 9005/9004 - 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 Series Processors
- 12-Channel DDR5 RDIMM, 24 x DIMMs
- 2 x 10Gb/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 Gen5 x16 for GPUs
- 2 x LP PCIe Gen5 x16 slots for add-in cards
- Dual 3000W 80 PLUS Titanium redundant power supply

## Applications

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

## Specification

<b>Dimensions</b>	2U (W448 x H87.5 x D850 mm)	<b>PCIe Expansion Slots</b>	8 x FHFL PCIe Gen5 x16, for GPUs 2 x LP PCIe Gen5 x16, for add-in cards
<b>Motherboard</b>	MZ43-G20	<b>I/O Ports</b>	<b>Rear:</b> 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN
<b>CPU</b>	AMD EPYC™ 9005 Series Processors AMD EPYC™ 9004 Series Processors Dual processor, cTDP up to 240W - At 30°C ambient, cTDP up to 300W	<b>Backplane Board</b>	PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s
<b>OS Compatibility</b>	<a href="#">OS Support List</a>	<b>TPM</b>	1 x TPM header (SPI), Optional TPM2.0 kit: CTM010
<b>Socket</b>	2 x LGA 6096 (Socket SP5)	<b>Power Supply</b>	Dual 3000W 80 PLUS Titanium redundant power supply AC Input: 100-240V  *The system power supply requires C19 power cord.
<b>Chipset</b>	System on Chip	<b>System Management</b>	ASPEED® AST2600 Baseboard Management Controller GIGABYTE Management Console web interface
<b>Memory</b>	12-Channel DDR5 RDIMM, 24 x DIMMs [EPYC 9005] Up to 6400 MT/s [EPYC 9004] Up to 4800 MT/s	<b>System Fans</b>	2 x 80x80x38mm 6 x 80x80x80mm
<b>LAN</b>	2 x 10Gb/s LAN (1 x Broadcom® BCM57416), Support NCSI 1 x 10/100/1000 Mbps Management LAN	<b>Operating Properties</b>	Operating: 10°C to 35°C, 8% to 80% (non-condensing) Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)
<b>Video</b>	Integrated in ASPEED® AST2600 - 1 x VGA port	<b>Packaging Content</b>	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
<b>Storage</b>	<b>Front hot-swap:</b> 4 x 2.5" Gen5 NVMe/SATA/SAS-4 <sup>[1]</sup> 4 x 2.5" SATA/SAS-4 <sup>[1]</sup>  <sup>[1]</sup> SAS card is required to support SAS drives.	<b>Ordering Part Numbers</b>	6NG294Z42DR000ACP1*
<b>RAID</b>	Require RAID add-in cards		



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

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