GIGABYTE™

G295-D21-AP1

HPC/AI Server - AMD EPYC™ 9006 SP7 Server Processors - 2U UP 4 x PCIe Gen6 GPUs



Key Features

- Supports up to 4 x dual-slot Gen6 GPUs
- Single AMD EPYC™ 9006 SP7 Server processors
- 12-Channel DDR5 RDIMM/MRDIMM per CPU with 12 x DIMMs
- 2 x 10 Gb/s LAN ports via Broadcom® BCM57416
- 4 x **Optional** 2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 4 x **Optional** 2.5" SATA/SAS-4 hot-swap bays
- 1 x M.2 slot with PCIe Gen4 x2
- 4 x FHFL PCIe x16 slots with Gen6 x16 lanes for GPUs
- 2 x LP PCIe x16 slots with Gen6 x16 lanes for add-in cards
- 2 x 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 D800 mm)
Motherboard	MD25-G20
CPU	AMD EPYC™ 9006 SP7 Server processors Single processor, PPT up to 600 W
Socket	1 x LGA 7536 (Socket SP7)
Chipset	Integrated into SoC
Memory	12-Channel DDR5 RDIMM/MRDIMM, 12 x DIMMs [RDIMM] Up to 8000 MT/s [MRDIMM] Up to 12800 MT/s [1] [1] MRDIMMs are supported only on select CPU SKUs.
LAN	2 x 10 Gb/s LAN (1 x Broadcom® BCM57416), Support NCSI 1 x Management LAN
Video	Integrated in ASPEED® AST2700 - 1 x VGA port
Storage	**Front hot-swap:** [Optional] 4 x 2.5" **Gen5 NVMe/SATA/SAS-4** [1] [Optional] 4 x 2.5" **SATA/SAS-4** [1] **Internal M.2:** 1 x M.2 (2280/22110), PCIe Gen4 x2 [1] Storage card(s) required to support all drives.
PCIe Expansion Slots	4 x FHFL x16 (Gen6 x16), for GPUs 2 x LP x16 (Gen6 x16), for add-in cards
I/O Ports	**Rear:** 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN
TPM	1 x TPM header (SPI), Optional TPM 2.0 kit: CTM012
Power Supply	2 x 3000 W 80 PLUS Titanium redundant power supplies AC Input: 100-240 V *The system power supply requires C19 power cord.
System Fans	6 x 80x80x80mm
Operating Properties	Operating: 10°C to 25°C, 8% to 80% (non-condensing) Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)
Packaging Content	1 x G295-D21-AP1 1 x CPU heatsink 3 x GPU power cables (16-pin, 250mm) 1 x GPU power cable (16-pin, 280mm) 1 x L-shape Rail kit
Ordering Part Numbers	6NG295D21HR000AP1*

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

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