## G294-S42-AAP2

HPC/AI Server - 2U DP 8 x PCle Gen5 GPUs







## **Key Features**

- Supports up to 8 x Dual slot Gen5 GPUs
- Supports 4 x NVIDIA H200 NVL PCIe GPUs with 2-way NVLink bridges
- Dual Intel<sup>®</sup> Xeon<sup>®</sup> 6700/6500-Series Processors
- 8-Channel DDR5 RDIMM / MRDIMM, 24 x DIMMs
- Dual ROM Architecture
- 2 x 10Gb/s LAN ports via Intel® X710-AT2
- 8 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 8 x FHFL PCIe Gen5 x16 slots for GPUs
- 2 x LP PCIe Gen5 x16 slots
- Dual 3000W 80 PLUS Titanium redundant power supply

## **Applications**

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

## Specification

Dimensions	2U (W448 x H87.5 x D850 mm)	PCIe Expansion Slots	8 x FHFL PCIe Gen5 x16, for GPUs 2 x LP PCIe Gen5 x16 *The system supports 4 x NVIDIA H200 NVL PCIe GPUs at 25°C ambient, arranged as two 2-GPU sets, each with a 2-way NVLink bridge. *The system is only validated with a uniform GPU model.
Motherboard	MS44-G20		
CPU	Intel® Xeon® 6 Processors  - Intel® Xeon® 6700-Series Processors  - Intel® Xeon® 6500-Series Processors  Dual processor, TDP up to 250W  - At 25°C ambient, TDP up to 350W [1]  [1] Supports Intel® Xeon® 6780E processors at 20°C ambient.		
		I/O Ports	<b>Rear:</b> 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN
		Backplane Board	PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s
OS Compatibility	OS Support List	TPM	1 x TPM header (SPI), Optional TPM2.0 kit: CTM012 1 x PRoT connector (only enabled on RoT SKU)
Socket	2 x LGA 4710 (Socket E2)	Power Supply  Dual 3000W 80 PLUS Titanium redundant power supply  AC Input: 100-240V  *The system power supply requires C19 power cord.	Dual 3000W 80 PLUS Titanium redundant power supply
Chipset	System on Chip		
Memory	8-Channel DDR5 RDIMM/MRDIMM, 24 x DIMMs [1] [RDIMM] Up to 6400 MT/s (1DPC), 5200 MT/s (2DPC) [MRDIMM] Up to 8000 MT/s [2] [1] Intel® Xeon® 6700E-Series Processors only support up to 16 x DIMMs. [2] MRDIMMs are only supported with Intel® Xeon® 6 Processors with P-cores and in a 1DPC configuration.	System	ASPEED® AST2600 Baseboard Management Controller
		Management	GIGABYTE Management Console web interface
		System Fans	6 x 80x80x80mm (17,500rpm/15,000rpm) 2 x 80x80x80mm (18,700rpm/15,100rpm)
LAN	2 x 10Gb/s LAN (1 x Intel® X710-AT2), Support NCSI 1 x 10/100/1000 Mbps Management LAN	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)
Video	Integrated in ASPEED <sup>®</sup> AST2600 - 1 x VGA port	Packaging Content	1 x G294-S42-AAP2 2 x CPU heatsinks 4 x GPU power cables (12VHPWR, 250mm) 4 x GPU power cables (12VHPWR, 280mm) 4 x Carriers 1 x L-shape Rail kit
Storage	Front hot-swap: 8 x 2.5" Gen5 NVMe/SATA/SAS-4 [1] [1] Storage card is required to support SATA and SAS drives.		
RAID	Require RAID add-in cards Onboard VROC key headers	Ordering Part Numbers	6NG294S42DR000AAP2*



