

# G294-S42-IAP1

HPC/AI Server - Intel® Xeon® 6700/6500 - 2U DP 8 x PCIe Gen5 GPUs Immersion



## Key Features

- Immersion Cooling Server
- Supports up to 8 x Dual slot Gen5 GPUs
- Dual Intel® Xeon® 6700/6500-Series Processors
- 8-Channel DDR5 RDIMM / MRDIMM, 24 x DIMMs
- 2 x 10Gb/s LAN ports via Intel® X710-AT2
- 8 x 2.5" Gen5 NVMe/SATA/SAS-4 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

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>RAID</b>	Require RAID add-in cards Onboard VROC key headers
<b>Motherboard</b>	MS44-G20	<b>PCIe Expansion Slots</b>	8 x FHFL PCIe Gen5 x16, for GPUs 2 x LP PCIe Gen5 x16  *The system is only validated with a uniform GPU model.
<b>CPU</b>	Intel® Xeon® 6 Processors - Intel® Xeon® 6700-Series Processors - Intel® Xeon® 6500-Series Processors Dual processor, TDP up to 350W	<b>I/O Ports</b>	<b>Top:</b> 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN
<b>OS Compatibility</b>	<a href="#">OS Support List</a>	<b>TPM</b>	1 x TPM header (SPI), Optional TPM2.0 kit: CTM012 1 x PRoT connector (only enabled on RoT SKU)
<b>Socket</b>	2 x LGA 4710 (Socket E2)	<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>Operating Properties</b>	Operating coolant temperature: 20°C to 35°C Non-operating temperature: -40°C to 60°C Non-operating humidity: 20% to 95% (non-condensing)
<b>Memory</b>	8-Channel DDR5 RDIMM/MRDIMM, 24 x DIMMs <sup>[1]</sup> [RDIMM] Up to 6400 MT/s (1DPC), 5200 MT/s (2DPC) [MRDIMM] Up to 8000 MT/s <sup>[2]</sup>  <sup>[1]</sup> Intel® Xeon® 6700E-Series Processors only support up to 16 x DIMMs. <sup>[2]</sup> MRDIMMs are supported only on select Intel® Xeon® 6 processors with P-cores and only in a 1DPC configuration.	<b>Packaging Content</b>	1 x G294-S42-IAP1 2 x CPU heatsinks 4 x GPU power cables (16-pin, 250mm) 4 x GPU power cables (16-pin, 280mm) 4 x Carriers
<b>LAN</b>	2 x 10Gb/s LAN (1 x Intel® X710-AT2), Support NCSI 1 x 10/100/1000 Mbps Management LAN	<b>Ordering Part Numbers</b>	6NG294S42DR000IAP1*
<b>Video</b>	Integrated in ASPEED® AST2600 - 1 x VGA port		
<b>Storage</b>	<b>Bottom:</b> 8 x 2.5" Gen5 NVMe/SATA/SAS-4 <sup>[1]</sup>  <sup>[1]</sup> Storage card is required to support SATA and SAS drives.		



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

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