GIGABYTE™

G494-SB0-AAP2

HPC/AI Server - Intel® Xeon® 6700/6500-Series Processors - 4U DP 8 x PCIe Gen5 GPUs

Key Features

- Supports up to 8 x dual-slot Gen5 GPUs
  - 8 x NVIDIA H200 NVL PCIe GPUs with 4-way NVLink bridges
  - 8 x NVIDIA RTX PRO™ 6000 Blackwell Server Edition
- Dual Intel® Xeon® 6700/6500-Series Processors
- 8-Channel DDR5 RDIMM/MRDIMM per CPU with 32 x DIMMs
- 2 x 10 Gb/s LAN ports via Intel® X710-AT2
- 8 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
- 1 x FHHL PCIe x16 slot with Gen5 x8 lanes on the front side
- Quad 3000 W 80 PLUS Titanium redundant power supplies

Specification

Dimensions	4U (W448 x H176 x D880 mm) (W448 x H176 x D1000.5 mm with optional fan kit)
Motherboard	MSB4-G40
CPU	Intel® Xeon® 6 Processors - Intel® Xeon® 6700-Series Processors - Intel® Xeon® 6500-Series Processors Dual processors, TDP up to 350 W
OS Compatibility	OS Support List
Socket	2 x LGA 4710 (Socket E2)
Chipset	System on Chip
Memory	8-Channel DDR5 RDIMM/MRDIMM, 32 x DIMMs [RDIMM] Up to 6400 MT/s (1DPC), 6000 MT/s (2DPC) [MRDIMM] Up to 8000 MT/s [1] [1] MRDIMMs are supported only on select Intel® Xeon® 6 processors with P-cores and only in a 1DPC configuration.
LAN	2 x 10 Gb/s LAN (1 x Intel® X710-AT2), Support NCSI 1 x 10/100/1000 Mb/s Management LAN
Video	Integrated in ASPEED® AST2600 - 1 x VGA port
Storage	**Front hot-swap:** 8 x 2.5" Gen5 NVMe**/SATA/SAS-4** [1] 4 x 2.5" **SATA/SAS-4** [1] [1] Storage card is required to support SATA and SAS drives.
PCIe Expansion Slots	**Rear:** 8 x FHFL x16 (Gen5 x16), for GPUs **Front:** 1 x FHHL x16 (Gen5 x8) *The system supports up to 8 x 600 W GPUs with an **optional fan kit**. GPU video output ports are not available. *The system supports 8 x **NVIDIA H200 NVL** PCIe GPUs at 25°C ambient, arranged as two 4-GPU sets, each with a 4-way NVLink bridge. *The system supports 8 x **NVIDIA RTX PRO™ 6000 Blackwell Server Edition** GPUs at 25°C ambient.
I/O Ports	**Front:** 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 1 x PRoT connector (only enabled on RoT SKU)
Power Supply	Quad 3000 W 80 PLUS Titanium redundant power supplies AC Input: 100-240 V *The system power supply requires C19 power cord.
System Fans	12 x 60x60x56mm
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)
Packaging Content	1 x G494-SB0-AAP2 2 x CPU fansinks 8 x GPU power cables (16-pin, 150mm) 4 x Carriers 1 x L-shape Rail kit
Ordering Part Numbers	6NG494SB0DR000AAP2*
Optional Parts	- 8080 fan kit for 600 W GPUs: 6NG494SBXK002AFN001** (packaging dimensions: L441 x W242 x H272 mm)

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

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