

# G494-SB4-AAP2

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



## Key Features

- Supports up to 8 x Dual slot Gen5 GPUs
- **Conditionally** supports
  - 8 x NVIDIA H200 NVL PCIe GPUs with 4-way NVLink bridges
  - 8 x NVIDIA RTX PRO™ 6000 Blackwell Server Edition GPUs
- Dual Intel® Xeon® 6700/6500-Series Processors
- 8-Channel DDR5 RDIMM / MRDIMM, 32 x DIMMs
- 2 x 10 Gb/s LAN ports via Intel® X710-AT2
- 12 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 8 x FHFL PCIe Gen5 x16 for GPUs
- 2 x FHHL PCIe Gen5 x16
- 3 x LP PCIe Gen5 x16
- 2 x FHHL PCIe Gen5 x16 on the front side
- Quad 3000 W 80 PLUS Titanium redundant power supply

## Specification

|                         |  |                              |   |
|-------------------------|--|------------------------------|---|
| <b>Dimensions</b>       | 4U (W448 x H176 x D880 mm)<br>(W448 x H176 x D1000.5 mm with optional fan kit)   | <b>PCIe Expansion Slots</b>  | <b>Rear:</b><br>8 x FHFL PCIe Gen5 x16, for GPUs<br>2 x FHHL PCIe Gen5 x16<br>3 x LP PCIe Gen5 x16<br><b>Front:</b><br>2 x FHHL PCIe Gen5 x16 |
| <b>Motherboard</b>      | MSB4-G40   | <b>I/O Ports</b>             | <b>Front:</b><br>2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN  |
| <b>CPU</b>              | Intel® Xeon® 6 Processors<br>- Intel® Xeon® 6700-Series Processors<br>- Intel® Xeon® 6500-Series Processors<br>Dual processor, TDP up to 350 W   | <b>TPM</b>                   | 1 x TPM header (SPI), Optional TPM 2.0 kit: CTM012<br>1 x ProT connector (only enabled on RoT SKU)  |
| <b>OS Compatibility</b> | <a href="#">OS Support List</a>  | <b>Power Supply</b>          | Quad 3000 W 80 PLUS Titanium redundant power supply<br>AC Input: 100-240 V<br><br>*The system power supply requires C19 power cord.           |
| <b>Socket</b>           | 2 x LGA 4710 (Socket E2)   | <b>System Fans</b>           | 2 x 40x40x28mm<br>12 x 60x60x56mm   |
| <b>Chipset</b>          | System on Chip   | <b>Operating Properties</b>  | Operating: 10°C to 35°C, 8% to 80% (non-condensing)<br>Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)                              |
| <b>Memory</b>           | 8-Channel DDR5 RDIMM/MRDIMM, 32 x DIMMs<br><b>[RDIMM]</b><br>Up to 6400 MT/s (1DPC), 5200 MT/s (2DPC)<br><b>[MRDIMM]</b><br>Up to 8000 MT/s <sup>[1]</sup><br><br><sup>[1]</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 G494-SB4-AAP2<br>2 x CPU fansinks<br>8 x GPU power cables (16-pin, 150mm)<br>4 x Carriers<br>1 x L-shape Rail kit                         |
| <b>LAN</b>              | 2 x 10 Gb/s LAN (1 x Intel® X710-AT2), Support NCSI<br>1 x 10/100/1000 Mb/s Management LAN   | <b>Ordering Part Numbers</b> | 6NG494SB4DR000AAP2*   |
| <b>Video</b>            | Integrated in ASPEED® AST2600<br>- 1 x VGA port  | <b>Optional Parts</b>        | - 8080 fan kit for 600 W GPUs: 6NG494SBXK002AFN001*<br>(packaging dimensions: L441 x W242 x H272 mm)  |
| <b>Storage</b>          | <b>Front hot-swap:</b><br>12 x 2.5" Gen5 NVMe/SATA/SAS-4 <sup>[1]</sup><br><br><sup>[1]</sup> Storage card is required to support SATA and SAS drives.   |                              |   |
| <b>RAID</b>             | Require RAID add-in cards<br>Onboard VROC key headers  |                              |   |



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

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