G493-ZB4-AAP1

GPU Server - 4U DP NVIDIA OVX™ 8 x PCIe Gen5 GPUs

Features

- NVIDIA-Certified Systems™ - OVX Servers
- Optimized for NVIDIA OVX™ L40S Server with 8 GPUs configuration
- Dual AMD EPYC™ 9004 Series Processors (with AMD 3D V-Cache™ Technology)
- 12-Channel RDIMM DDR5, 48 x DIMMs
- Dual ROM Architecture
- 2 x 1Gb/s LAN ports via Intel® I350-AM2
- 12 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swappable bays
- 8 x FHHL PCIe Gen5 x16 slots for GPUs
- 4 x LP PCIe Gen5 x16 slots
- 3+1 3000W 80 PLUS Titanium redundant power supplies

Specification

Dimensions

<table>
<thead>
<tr>
<th>Specification</th>
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<td>4U (W448 x H176 x D880 mm)</td>
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Motherboard

- MZB3-G41

CPU

- AMD EPYC™ 9004 Series Processors
- AMD EPYC™ 9004 Series Processors with AMD 3D V-Cache™
- Dual processor, 5nm technology
- cTDP up to 300W at ambient 35°C
- NVIDIA OVX Specifications: 2 x AMD EPYC™ 9554

Socket

- 2 x LGA 6096 (Socket SP5)

Chipset

- System on Chip

Memory

- 12-Channel DDR5 memory, 48 x DIMM slots
- RDIMM up to 96GB supported; 3DS RDIMM up to 256GB supported
- Memory speed: Up to 4800 MT/s (1DPC), 3600 MT/s (2DPC)
- NVIDIA OVX Specifications: Min 768GB DDR5 ECC (1 DIMM per slot)

LAN

- 2 x 1Gb/s LAN ports (1 x Intel® I350-AM2) - Supported NCSI
- 1 x 10/100/1000 Mbps Management LAN

Storage

- 12 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swappable bays
- "SAS card is required to support SAS drives.
- NVIDIA OVX Specifications:
  - 1 x 1TB NVMe Host Boot Drive, 2 x 4TB NVMe Host Storage

RAID

- Require RAID add-in cards

Expansion Slots

- 8 x PCIe Gen5 x16 FHFL slots for GPUs
- 2 x PCIe Gen5 x16 FHHL slots
- 4 x PCIe Gen5 x16 low-profile slots
- 2 x M.2 slot (M-key, PCIe Gen3 x4, supports 2280/22110)
- NVIDIA OVX Specifications:
  - 8 x NVIDIA L40S, 1 x BlueField-3 (B3220), 4 x ConnectX-7

Video

- ASPEED® AST2600 Integrated 2D Graphic Adapter

I/O Ports

- Front: 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN
- Internal: 1 x TPM header

Backplane Board

- PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s

TPM

- 1 x TPM header with SPI interface (Optional TPM2.0 kit: CTM10)

Power Supply

- 3+1 3000W 80 PLUS Titanium redundant power supplies
- AC Input: 100-240V (The system PSU requires C19 power cord)

System Management

- ASPEED® AST2600 management controller
- GIGABYTE Management Console (AMI MegaRAC SP-X)

System Fans

- 12 x 60x60x38mm (23,000rpm)

Operating Properties

- Operating temperature: 10°C to 35°C
- Operating humidity: 8-80% (non-condensing)
- Non-operating temperature: -40°C to 60°C
- Non-operating humidity: 20%-95% (non-condensing)

Packaging Content

- 1 x G493-ZB4-AAP1
- 2 x CPU fansinks
- 8 x GPU power cables (12VHPWR to 12VHPWR, 150mm)
- 1 x L-shape Rail kit

Reference Numbers

- Barebone package: 6NG493ZB4DR000AAP1*
  - L-shape Rail kit: 25HB2-A96100-K0R
  - CPU fansink: 25ST0-0Z6003-3CR/25ST0-0Z6004-3CR
  - GPU power cable: 25CRI-150004-Y4R
  - Power supply: 25EP0-23000C-00R
  - C19 power cord 125V/15A (US): 25CP1-018000-Q0R (optional)
  - C19 power cord 250V/16A (EU): 25CP3-01830H-Q0R (optional)
  - C19 power cord 125V/15A (JP): 25CPA-01830B-Q0R (optional)

Learn more about GIGABYTE server at https://www.gigabyte.com/Enterprise

* All specifications are subject to change without notice. Please visit our website for the latest information.

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