

# G4L3-ZX1-LAX2

HPC/AI Server - 4U DP AMD Instinct™ MI325X DLC



### Key Features

- Liquid-cooled 8 x AMD Instinct™ MI325X OAM GPUs
- CPU+GPU direct liquid cooling solution with leak detection
- Dual AMD EPYC™ 9005/9004 Series Processors
- 12-Channel DDR5 RDIMM, 24 x DIMMs
- Dual ROM Architecture
- 2 x 10Gb/s LAN ports via Intel® X710-AT2
- 2 x M.2 slots with PCIe Gen3 x4 and x1 interface
- 8 x 2.5" Gen5 NVMe hot-swap bays
- 4 x FHHL dual-slot PCIe Gen5 x16 slots
- 8 x FHHL single-slot PCIe Gen5 x16 slots
- 4+4 3000W 80 PLUS Titanium redundant power supplies

### Applications

AI Platform, AI Training Server, AI Inference Server, High-Performance Computing Server...

### Specification

|                  |                                                                                                                                                                                                                                   |                       |                                                                                                                                                                                       |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions       | 4U (W447 x H175.3 x D920 mm)                                                                                                                                                                                                      | PCIe Expansion Slots  | 4 x FHHL dual-slot PCIe Gen5 x16<br>8 x FHHL single-slot PCIe Gen5 x16                                                                                                                |
| Motherboard      | MZB3-PE0                                                                                                                                                                                                                          | I/O Ports             | <b>Front:</b><br>2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN (default)<br><b>Rear:</b><br>1 x MLAN                                                                                  |
| CPU              | AMD EPYC™ 9005 Series Processors<br>AMD EPYC™ 9004 Series Processors<br>Dual processor, cTDP up to 500W <sup>[1]</sup><br><sup>[1]</sup> The ambient temperature is limited to 30°C when NVIDIA® BlueField®-3 DPUs are installed. | Backplane Board       | PCIe Gen5 x4                                                                                                                                                                          |
| OS Compatibility | <a href="#">OS Support List</a>                                                                                                                                                                                                   | TPM                   | 1 x TPM header (SPI), Optional TPM2.0 kit: CTM010                                                                                                                                     |
| Socket           | 2 x LGA 6096 (Socket SP5)                                                                                                                                                                                                         | Power Supply          | 4+4 3000W 80 PLUS Titanium redundant power supplies<br>AC Input: 115-240V<br>*The system power supply requires C19 power cord.                                                        |
| Chipset          | System on Chip                                                                                                                                                                                                                    | System Management     | ASPEED® AST2600 Baseboard Management Controller<br>GIGABYTE Management Console web interface                                                                                          |
| Memory           | 12-Channel DDR5 RDIMM, 24 x DIMMs<br>[EPYC 9005] Up to 6400 MT/s<br>[EPYC 9004] Up to 4800 MT/s                                                                                                                                   | System Fans           | Motherboard:<br>2 x 60x60x56mm (24,600/24,200rpm)<br>2 x 60x60x76mm (21,800/20,500rpm)<br>PCIe slots:<br>4 x 80x80x56mm (15,500/14,900rpm)<br>GPU tray:<br>4 x 60x60x38mm (23,000rpm) |
| LAN              | <b>Front:</b><br>2 x 10Gb/s LAN (1 x Intel® X710-AT2), Support NCSI<br>1 x 10/100/1000 Mbps Management LAN<br><b>Rear:</b><br>1 x 10/100/1000 Mbps Management LAN                                                                 | Operating Properties  | Operating: 10°C to 35°C, 8% to 80% (non-condensing)<br>Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)                                                                      |
| Video            | Integrated in ASPEED® AST2600<br>- 1 x VGA port                                                                                                                                                                                   | Packaging Content     | 1 x G4L3-ZX1-LAX2<br>1 x L-shape Rail kit                                                                                                                                             |
| Storage          | <b>Front hot-swap:</b><br>8 x 2.5" Gen5 NVMe<br><b>Internal M.2:</b><br>1 x M.2 (2280/22110), PCIe Gen3 x4<br>1 x M.2 (2280/22110), PCIe Gen3 x1                                                                                  | Ordering Part Numbers | 6NG4L3ZX1DR000LCX2*                                                                                                                                                                   |
| Modular GPU      | Liquid-cooled 8 x AMD Instinct™ MI325X OAM GPUs                                                                                                                                                                                   |                       |                                                                                                                                                                                       |



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

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