GIGABYTE™

XV24-SU0-AAJ1

NVIDIA MGX™ Server - Intel® Xeon® 6700/6500-Series Processors R1S - 2U, UP, 4 x PCIe Gen5 GPUs

Key Features

- Supports up to 4 x dual-slot PCIe Gen5 GPUs
  - 4 x NVIDIA H200 NVL PCIe GPUs with 2-way NVLink bridges
  - 4 x NVIDIA RTX PRO™ 6000 Blackwell Server Edition GPUs
- NVIDIA MGX™ modular server design
- Single Intel® Xeon® 6700/6500-series processors with 136 PCIe lanes
- 8-Channel DDR5 RDIMM/MRDIMM per CPU with 16 x DIMMs
- 2 x 10 Gb/s LAN ports via Intel® X550-AT2
- 2 x 2.5" Gen5 NVMe hot-swap bays
- 2 x M.2 slots with PCIe Gen5 x4
- 4 x FHFL PCIe x16 (Gen5 x16) for GPUs
- 2 x FHFL PCIe x16 (Gen5 x16) for NVIDIA ConnectX®-7 NICs
- 1 x FHFL PCIe x16 (Gen5 x16) for NVIDIA® BlueField®-3 DPUs
- 3+1 2000 W 80 PLUS Titanium redundant power supplies

Specification

Dimensions	2U (W438 x H87 x D900 mm)
Motherboard	MSU4-MG0
CPU	Intel® Xeon® 6 processors - Intel® Xeon® 6700-series processors with 136 PCIe lanes - Intel® Xeon® 6500-series processors with 136 PCIe lanes Single processor, TDP up to 350 W
OS Compatibility	OS Support List
Socket	1 x LGA 4710 (Socket E2)
Chipset	Integrated into SoC
Memory	8-Channel DDR5 RDIMM/MRDIMM, 16 x DIMMs [1] **Intel Xeon 6 processors with P-cores:** [RDIMM] Up to 8000 MT/s (1DPC), 6000 MT/s (2DPC) [1] [MRDIMM] Up to 8000 MT/s **Intel Xeon 6 processors with E-cores:** [RDIMM] Up to 6400 MT/s (1DPC), 6000 MT/s (2DPC) [1] MRDIMMs and RDIMM-8000 are supported in a 1DPC configuration on select Intel® Xeon® 6 processors with P-cores.
LAN	2 x 10 Gb/s LAN (1 x Intel® X550-AT2), Support NCSI 1 x 10/100/1000 Mb/s Management LAN
Video	Integrated in ASPEED® AST2600 - 1 x Mini-DP
Storage	**Front hot-swap:** 2 x 2.5" Gen5 NVMe **Internal M.2:** 2 x M.2 (2242/2260/2280/22110), PCIe Gen5 x4

PCIe Expansion Slots	4 x FHFL x16 (Gen5 x16), for GPUs 2 x FHFL x16 (Gen5 x16), for NICs 1 x FHFL x16 (Gen5 x16), for DPUs *The system supports 4 x **NVIDIA H200 NVL** PCIe GPUs at 25°C ambient, arranged as two 2-GPU sets, each with a 2-way NVLink bridge. *The system supports 4 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 Mini-DP, 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	3+1 2000 W 80 PLUS Titanium redundant power supplies AC Input: 100-240 V
System Fans	2 x 60x60x56mm 4 x 80x80x80mm
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 XV24-SU0-AAJ1 2 x CPU heatsinks 1 x Mini-DP to D-Sub cable 2 x GPU power cables (16-pin, 450 mm) 2 x GPU power cables (16-pin, 550 mm) 1 x DPU power cable (2x PCIe 8pin, 520 mm) 2 x CPU carriers 1 x 3-Section Rail kit
Ordering Part Numbers	6NXV24SU0DR000AAJ1*
Optional Parts	- Chassis intrusion switch: 25HA1-R28390-U1R - Cable Management Arm: 25HB2-2AA700-K0R

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

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Last updated: Nov 13, 2026

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