DATA SHEET

GigaIO™ SuperNODE™ - MI300X

IMMENSE INFERENCING PERFORMANCE

Breaks traditional server limits by consolidating up to 32 GPUs, simplifying scalability for demanding processing tasks

INNOVATIVE AI MEMORY FABRIC

Optimizes AI applications with a memory-centric infrastructure, aggregating resources for faster, low-latency data transfer

EMPOWERING LARGE MODEL PROCESSING

Vast GPU memory pool handles large model inference, reducing data transfers and boosting performance

SIMPLIFIED AI DEPLOYMENT

By minimizing the complexity of AI and HPC infrastructure, organizations can quickly get their LLMs and applications up and running, without the usual delays associated with InfiniBand infrastructure setup

READY TO GET STARTED?

Contact a GigaIO authorized representative today.

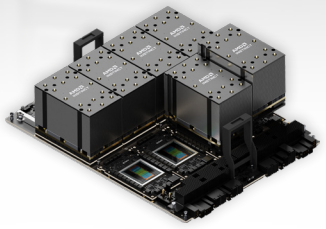
info@gigaio.com

The GigaIO SuperNODE seamlessly presents all accelerators to a single server in an easy, scale-up configuration, enabling expansion without infrastructure complexity.

This scale-up architecture minimizes latency, enhances performance, and reduces power consumption by allowing models to efficiently utilize all GPUs as if locally connected, ensuring rapid scaling of AI workloads with minimal operational overhead.

Specifications

Accelerators	32x AMD Instinct™ MI300X OAM GPUs
Data rate (each direction)	512Gb/s (Accelerator-to-Accelerator)
FP64	2.61 PFLOPS
FP8	83.52 PFLOPS
GPU memory	6.14TB HBM3
Failover[1]	Primary and secondary servers
CPU cores[2]	64 AMD EPYC™ "Genoa" 9534
System memory[2]	3.0 TB
Storage[2]	2x 15.3TB NVMe-U.2 (30TB total)
Boot drive[2]	2x 960GB NVMe-M.2
Network[2]	1x 400G QSFP112-DD 2x 25G/10G SFP28
Rack Units[3]	42U
Rack Power[3]	36.5kW
Weight[3]	1,131 lbs (513.2 kgs)
Cooling	Air cooled, airflow front-to-rear (rack handle to power side)
Environmental	Operating Temperature: 10°C to 35°C (50°F to 95°F)



AMD INSTINCT MI300X

[1] Dual head node servers configured indentically provide failover standby to maintain up-time
[2] Each server, based on max spec head nodes with 3.0 TB memory, 64 cores, 30 TB storage
[3] Does not include available top of the rack Ethernet switches, rack and PDU(s)