

G383-R80-AAP1

HPC/AI Server - 3U AMD Instinct™ MI300A APU



Features

- Supports up to 4 x Dual slot Gen5 GPUs
- 4 x AMD Instinct™ MI300A APU
- 128GB HBM3 per APU
- Dual ROM Architecture
- 2 x 10Gb/s BASE-T LAN ports
- 1 x M.2 slot with PCIe Gen5 x4 interface
- 8 x 2.5" Gen5 NVMe hot-swappable bays
- 4 x FHFL PCIe Gen5 x16 slots for GPUs
- 4 x FHFL PCIe Gen5 x16 slots
- 3+1 3000W 80 PLUS Titanium redundant power supplies

AMD Instinct™ MI300A APU

228 AMD CDNA™ 3 GPU compute units and 24 AMD “Zen 4” x86 CPU cores

AMD Instinct MI300A accelerated processing units (APUs) combine the power of AMD Instinct accelerators and AMD EPYC™ processors with shared memory to enable enhanced efficiency, flexibility, and programmability. They are designed to accelerate the convergence of AI and HPC, helping advance research and propel new discoveries.

128GB HBM3

with 5.3 TB/s peak memory bandwidth

Up to 122.6 TFLOPS

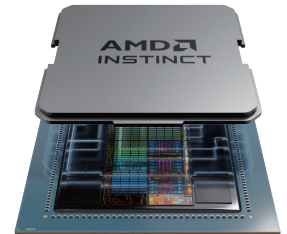
peak theoretical single precision (FP32) HPC performance

Up to 61.3 TFLOPS

peak theoretical double precision (FP64) HPC performance

Up to 3.9 PFLOPS

peak theoretical 8-bit precision (FP8) with sparsity for AI performance



G383-R80-AAP1 Specification

Dimensions	3U (W447 x H132 x D930 mm)	Front I/O	2 x USB 3.2 Gen1 1 x VGA 2 x RJ45 1 x MLAN
APU	4 x AMD Instinct™ MI300A APUs - 24 x Zen4 CPU cores per APU - 228 x CDNA3 compute units per APU - TDP up to 550W (CPU + GPU + memory)	Rear I/O	N/A
Socket	4 x Socket SH5	Backplane I/O	PCIe Gen5 x4
Chipset	System on Chip	TPM	1 x TPM header with SPI interface (Optional TPM2.0 kit: CTM010)
Memory	128GB HBM3 unified memory; memory bandwidth 5.3TB/s	Power Supply	3+1 3000W 80 PLUS Titanium redundant power supplies
LAN	2 x 10Gb/s BASE-T LAN ports (1 x Broadcom® BCM57416) Support NCSI function 1 x 10/100/1000 Mbps Management LAN	System Management	ASPEED® AST2600 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
Video	Integrated in ASPEED® AST2600 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp	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)
Storage	8 x 2.5" Gen5 NVMe hot-swappable bays	Packaging Content	1 x G383-R80 4 x APU heatsinks 1 x L-shape Rail kit
Expansion Slots	4 x PCIe x16 (Gen5 x16) FHFL slots, for GPUs 4 x PCIe x16 (Gen5 x16) FHFL slots 1 x M.2 slot (M-key, PCIe Gen5 x4, support 2280/22110 cards)	Part Numbers	Barebone package: 6NG383R80DR000AAP1*



Learn more about GIGABYTE server, visit <https://www.gigacomputing.com>

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