

GPU A+ Server AS -4145GH-TNMR

4U System with Quad AMD Instinct™ MI300A Accelerators (onsite service OSNBD is required)



Key Applications

Artificial Intelligence, Large Language Model (LLM), Cloud Solution Provider (CSP), High Performance Computing (HPC), Research Lab,

Key Features

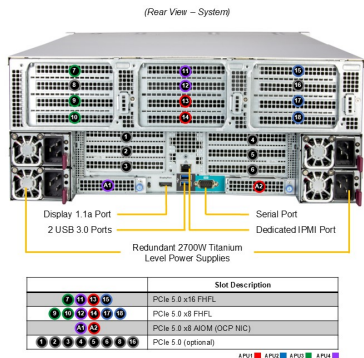
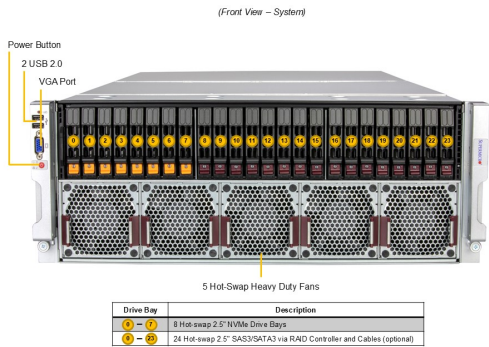
- Quad AMD Instinct™ MI300A processors;
- Onboard 512GB HBM3 unified memory;
- Optional PCIe configurations up to 8 PCIe x16 slots;
- Flexible networking options with 2 AIOM networking slot (OCP NIC 3.0 compatible);
- Default 8 2.5" NVMe drive bays or Optional 24 2.5" SAS3/SATA3 drive bays via storage add-on card
- 2 Internal NVMe/SATA M.2 slots;
- 10 heavy duty fans w/ optimal fan speed control;
- 4x 2700W redundant Titanium level power supplies;



Form Factor	4U Rackmount Enclosure: 438.4 x 177 x 848.7mm (17.3" x 7" x 33.4") Package: 694 x 405 x 1255mm (27.32" x 15.94" x 49.41")
Processor	Quad Socket SH5 AMD Instinct™ MI300A Accelerated Processing Units (APUs)
GPU	Max GPU Count: 4 onboard GPUs GPU-GPU Interconnect: AMD Infinity Fabric™ Link
System Memory	Slot Count: Onboard Memory Max Memory: Up to 512GB ECC HBM3
Drive Bays Configuration	Default: Total 8 bays • 8 front fixed 2.5" NVMe drive bays Option A: Total 16 bays • 16 front fixed 2.5" NVMe drive bays Option B: Total 24 bays • 24 front fixed 2.5" SAS*/SATA* drive bays (*SAS/SATA support may require additional storage controller and/or cables, please see the optional parts list for details) M.2: 2 M.2 NVMe slots (M-key 2280/22110)
Expansion Slots	Default • 4 PCIe 5.0 x16 FHHL slots • 2 PCIe 5.0 x8 FHHL slots Option A* • 4 PCIe 5.0 x16 FHHL slots • 6 PCIe 5.0 x8 FHHL slots • 2 PCIe 5.0 x8 AIOM slots (OCP 3.0 compatible) Option B* • 6 PCIe 5.0 x16 FHHL slots • 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible) Option C* • 14 PCIe 5.0 x8 FHHL slots • 2 PCIe 5.0 x8 AIOM slots (OCP 3.0 compatible) Option D* • 4 PCIe 5.0 x16 FHHL slots • 2 PCIe 5.0 x8 FHHL slots • 2 PCIe 5.0 x8 AIOM slots (OCP 3.0 compatible)
On-Board Devices	Chipset: AMD SH5 Network Connectivity: Via AIOM

Input / Output

LAN: 1 RJ45 1 GbE Dedicated BMC LAN port
USB: 2 USB 3.0 ports(rear)
2 USB 2.0 ports(front)
Video: 1 DisplayPort port
Serial: 1 COM port(rear)



System Cooling	Fans: Up to 10 Heavy duty counter-rotating 8cm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	4x 2700W Redundant (3 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash
Management	SuperCloud Composer®; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: 4+1 Phase-switching voltage regulator Monitors for CPU Cores, Chipset Voltages, Memory FAN: Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Weight: Gross Weight: 158.07 lbs (71.7 kg) Net Weight: 120.59 lbs (54.7 kg) Available Color: No Paint
Operating Environment	RoHS Compliant Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (Non-Condensing) Non-operating Relative Humidity: 5% to 95% (Non-Condensing)
Motherboard	Super H13QSH
Chassis	CSE-418H2TS-R0AWNDP