



GPU A+ Server AS -2145GH-TNMR-LCC

2U Liquid Cooled 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,

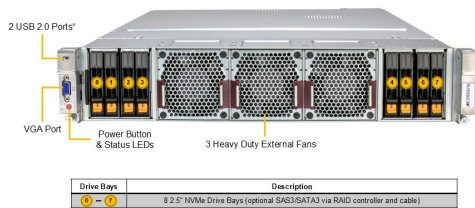
Key Features

- Quad AMD Instinct™ MI300A processors;
- Onboard 512GB HBM3 unified memory;
- Optional PCIe configurations up to 6 PCIe x16 FHFL slots;
- Flexible networking options with 1 AIOM networking slots (OCP NIC 3.0 compatible);
- Default 8 2.5" NVMe drive bays or Optional 8 2.5" SAS3/SATA3 drive bays via storage add-on card
- 2 Internal NVMe/SATA M.2 slots;
- 3 heavy duty fans w/ Liquid Cooled;
- 4x 2700W redundant Titanium level power supplies;



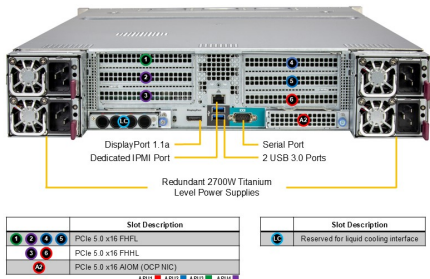
Form Factor	2U Rackmount Enclosure: 438.4 x 88 x 848.7mm (17.3" x 3.5" x 33.4") Package: 701 x 293 x 1183mm (27.6" x 11.53" x 46.57")
Processor	Quad Socket SH5 AMD Instinct™ MI300A Accelerated Processing Units (APUs)
GPU	Max GPU Count: 4 onboard GPUs GPU-GPU Interconnect: AMD Infinity Fabric™ Link
System Memory	Onboard Memory Up to 512GB ECC HBM3
Drive Bays Configuration	Default: Total 8 bays • 8 front fixed 2.5" NVMe drive bays Option A: Total 8 bays • 8 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 FHFL slots Option A* • 4 PCIe 5.0 x16 FHFL slots • 2 PCIe 5.0 x16 FHHL slots • 1 PCIe 5.0 x16 AIOM slot (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 VGA port 1 DisplayPort port Serial: 1 COM port(rear)

(Front View – System)



*USB ports under handle cover

(Rear View – System)



System Cooling	Fans: Up to 3 Heavy duty counter-rotating 8cm Fan(s) Liquid Cooling: Direct to Chip (D2C) Cold Plate
Power Supply	4x 2700W Redundant (3 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash
Management	SuperCloud Composer® (SCC); 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: 101.1 lbs (45.86 kg) Net Weight: 78 lbs (35.38 kg) Available Color: Silver
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-218H2TS+-R5K4AWP