

GPU A+ Server AS -4145GH-TNMR

4U AMD quad APU system with 4 AMD Instinct™ MI300A accelerators



[More details here](#)

Key Applications

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

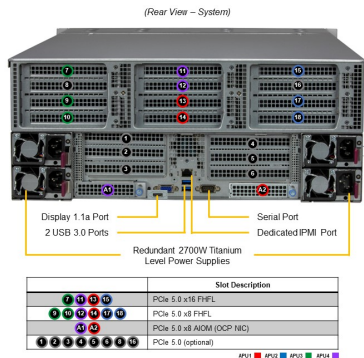
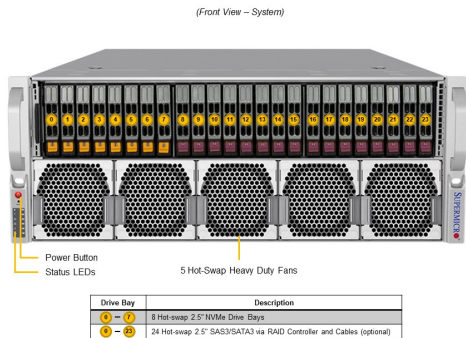
Key Features

- Quad AMD Instinct™ MI300A processors;
- Onboard 512GB HBM3 stacks 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 hot-swap 2.5" NVMe drive bays or Optional 24 hot-swap 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: 720 x 435 x 1080mm (28.34" x 17.12" x 42.5")
Processor	Quad Socket SH5 AMD Instinct™ MI300A Accelerated Processing Units (APUs)
GPU	Max GPU Count: Up to 4 onboard GPU(s) Supported GPU: AMD: Instinct MI300A APU GPU-GPU Interconnect: AMD Infinity Fabric™ Link
System Memory	Slot Count: Onboard Memory Max Memory: Up to 512GB non-ECC HBM3
Drive Bays Configuration	Default: Total 8 bay(s) • 8 front hot-swap 2.5" NVMe drive bay(s) Option A: Total 16 bay(s) • 16 front hot-swap 2.5" NVMe drive bay(s) Option B: Total 24 bay(s) • 24 front hot-swap 2.5" SAS*/SATA* drive bay(s) (*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 slot(s) (M-key)
Expansion Slots	Default • 4 PCIe 5.0 x16 FHFL slot(s) • 6 PCIe 5.0 x8 FHFL slot(s) • 2 PCIe 5.0 x8 AIOM slot(s) (OCP 3.0 compatible) Option A • 6 PCIe 5.0 x16 FHFL slot(s) • 1 PCIe 5.0 x16 FHHL slot(s) • 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option B • 12 PCIe 5.0 x8 FHFL slot(s) • 2 PCIe 5.0 x8 FHHL slot(s) • 2 PCIe 5.0 x8 AIOM slot(s) (OCP 3.0 compatible) Option C • 4 PCIe 5.0 x16 FHFL slot(s) • 2 PCIe 5.0 x8 FHFL slot(s) • 2 PCIe 5.0 x8 AIOM slot(s) (OCP 3.0 compatible)
On-Board Devices	Chipset: AMD SH5 Network Connectivity: Via AIOM

Input / Output	LAN: 1 RJ45 1 GbE Dedicated IPMI LAN port(s) USB: 2 USB 3.0 port(s) (rear) Video: 1 DisplayPort port(s) Serial: 1 COM port(s) (Rear)
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System Cooling	Fans: 10 Heavy duty counter-rotating 8cm Fan(s)
Power Supply	4x 2700W Redundant (3 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory 4+1 Phase-switching voltage regulator FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Weight: Gross Weight: 132.27 lbs (60 kg) Net Weight: 77.16 lbs (35 kg) Available Color: Black
Operating Environment	RoHS Compliant Operating Temperature: 10°C ~ 35°C (50°F ~ 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-R5K4AWP