

# GPU A+ Server AS -8125GS-TNMR2

DP AMD 8U System with AMD Instinct™ MI300X 8-GPU



More details here

## Key Applications

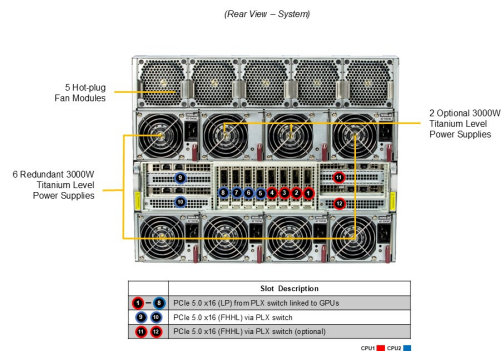
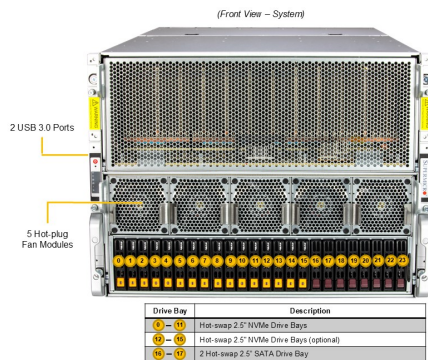
High Performance Computing, AI/Deep Learning Training, Industrial Automation, Climate and Weather Modeling,

## Key Features

- 8x NIC for GPU direct RDMA (1:1 GPU Ratio)  
High density 8U system with AMD Instinct MI300X 8-GPU;
- Supports up to 24 DIMMs Slots; 6000 MT/s 6TB DDR5 memory (Please check System Memory Section for detail);
- 8x PCIe 5.0 x16 LP + up to 4 PCIe 5.0 X16 FHFL slots;
- Flexible networking options;
- Total of 2 Hot-swap 2.5" SATA drive bays  
Single M.2 NVMe for boot drive only  
Up to 16 hot-swap 2.5" NVMe drive bays (12 default + 4 optional);
- 10 heavy duty fans with optimal fan speed control;
- Total of 6x (3+3) 3000W Redundant Titanium Level Power Supplies (Power supply full redundancy based on configuration and application load);



|                          |                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor              | 8U Rackmount<br>Enclosure: 437 x 355.6 x 843.28mm (17.2" x 14" x 33.2")<br>Package: 698 x 750 x 1300mm (27.5" x 29.5" x 51.2")                                                                                                                                                                                                                                                |
| Processor                | Dual processor(s)<br>AMD EPYC™ 9004/9005 Series Processors<br>(* AMD EPYC™ 9005 Series drop-in support requires board revision 2.x)                                                                                                                                                                                                                                           |
| GPU                      | Max GPU Count: 8 onboard GPUs<br>Supported GPU: AMD: Instinct™ MI300X Accelerators<br>CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect<br>GPU-GPU Interconnect: AMD Infinity Fabric™ Link                                                                                                                                                                           |
| System Memory            | Slot Count: 24 DIMM slots<br>Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor)<br>Max Memory (1DPC): Up to 6TB 6000MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)                                                                                                                                                                 |
| Drive Bays Configuration | Default: Total 18 bays <ul style="list-style-type: none"> <li>• 12 front hot-swap 2.5" NVMe drive bays</li> <li>• 2 front hot-swap 2.5" SATA drive bays</li> <li>• 4 front hot-swap 2.5" NVMe* drive bays</li> </ul> (*NVMe support may require additional storage controller and/or cables, please see the optional parts list for details)<br>M.2: 2 M.2 NVMe slots (M-key) |
| Expansion Slots          | Default <ul style="list-style-type: none"> <li>• 8 PCIe 5.0 x16 LP slots</li> <li>• 2 PCIe 5.0 x16 FHFL slots</li> </ul> Option A <ul style="list-style-type: none"> <li>• 8 PCIe 5.0 x16 LP slots</li> <li>• 4 PCIe 5.0 x16 FHFL slots</li> </ul>                                                                                                                            |
| Input / Output           | 1 VGA port                                                                                                                                                                                                                                                                                                                                                                    |



|                       |                                                                                                                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | Fans: N/A                                                                                                                                                                                                                                                                    |
| Power Supply          | 6x 3000W Redundant (3 + 3) Titanium Level (96%) power supplies                                                                                                                                                                                                               |
| System BIOS           | BIOS Type: AMI 32MB SPI Flash EEPROM                                                                                                                                                                                                                                         |
| Management            | SuperCloud Composer® (SCC); 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: 7 +1 Phase-switching voltage regulator<br>Monitors for CPU Cores, Chipset Voltages, Memory<br>Fan: Fans with tachometer monitoring<br>Status monitor for speed control<br>Temperature: Monitoring for CPU and chassis environment<br>Thermal Control for fan connectors |
| Dimensions and Weight | Weight: Gross Weight: 225 lbs (102.1 kg)<br>Net Weight: 166 lbs (75.3 kg)<br>Available Color: Black front & silver body                                                                                                                                                      |
| Operating Environment | Operating Temperature: 10°C to 35°C (50°F to 95°F)<br>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br>Operating Relative Humidity: 8% to 90% (non-condensing)<br>Non-operating Relative Humidity: 5% to 95% (non-condensing)                                    |
| Motherboard           | <a href="#">Super H13DSG-OM</a>                                                                                                                                                                                                                                              |
| Chassis               | CSE-GP801TS                                                                                                                                                                                                                                                                  |