



GPU A+ Server AS -8125GS-TNHR

DP AMD 8U System with NVIDIA HGX H100/H200 8-GPU



Key Applications

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

Key Features

- High density 8U system for NVIDIA® HGX™ H100/H200 8-GPU Highest GPU communication using NVIDIA® NVLINK™ + NVIDIA® NVSwitch™ 8 NIC for GPU direct RDMA (1:1 GPU Ratio);
- 24 DIMM slots DDR5; up to 6TB 4800MT/s ECC LRDIMM/RDIMM;
- Up to 8 PCIe 5.0 x16 LP + 4 PCIe 5.0 x16 FHFL slots;
- Flexible networking options;
- 12 Hot-swap 2.5" NVMe drive bays + 2 hot-swap 2.5" SATA drive bays + 4 hot-swap 2.5" NVMe drive bays (optional)
- 1 M.2 NVMe for boot drive only;
- 10 heavy duty fans with optimal fan speed control;
- 6x 3000W redundant Titanium level power supplies;

Available from Favortron

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| Form Factor | 8U Rackmount Enclosure: 437 x 355.6 x 843.28mm (17.2" x 14" x 33.2") Package: 698 x 750 x 1300mm (27.5" x 29.5" x 51.2") |
| Processor | Dual processor(s) AMD EPYC™ 9004/9005 Series Processors (* AMD EPYC™ 9005 Series drop-in support requires board revision 2.x) Up to 128C/256T |
| GPU | Max GPU Count: Up to 8 onboard GPUs Supported GPU: NVIDIA SXM: HGX H100 8-GPU (80GB), HGX H200 8-GPU (141GB) CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: NVIDIA® NVLink® with NVSwitch™ |
| System Memory | Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM |
| Drive Bays Configuration | Default: Total 18 bays <ul style="list-style-type: none"> • 2 front hot-swap 2.5" SATA drive bays • 4 front hot-swap 2.5" NVMe* drive bays • 12 front hot-swap 2.5" NVMe drive bays (*NVMe support may require additional storage controller and/or cables) M.2: 1 M.2 NVMe slot (M-key) |
| Expansion Slots | Default <ul style="list-style-type: none"> • 8 PCIe 5.0 x16 LP slots • 2 PCIe 5.0 x16 FHFL slots Option A <ul style="list-style-type: none"> • 8 PCIe 5.0 x16 LP slots • 4 PCIe 5.0 x16 FHFL slots |
| On-Board Devices | AMD SP5 |
| Input / Output | 1 VGA port |
| System Cooling | Fans: 10 heavy duty fans with optimal fan speed control |
| Power Supply | 6x 3000W Redundant Titanium Level (96%) power supplies |

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| System BIOS | 6x 3000W Redundant Titanium Level (96%) power supplies |
| 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 7 +1 Phase-switching voltage regulator FAN: Fans with tachometer monitoring Status monitor for speed control Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors |
| Dimensions and Weight | Weight: Gross Weight: 225 lbs (102.1 kg) Net Weight: 166 lbs (75.3 kg) Available Color: Black front & silver body |
| Operating Environment | 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 H13DSG-O-CPU-D |
| Chassis | CSE-GP801TS |

