

IoT SuperServer SYS-422GB-NRT

DP Intel 4U Dual-Root PCIe GPU System with up to 8 GPUs



Key Applications

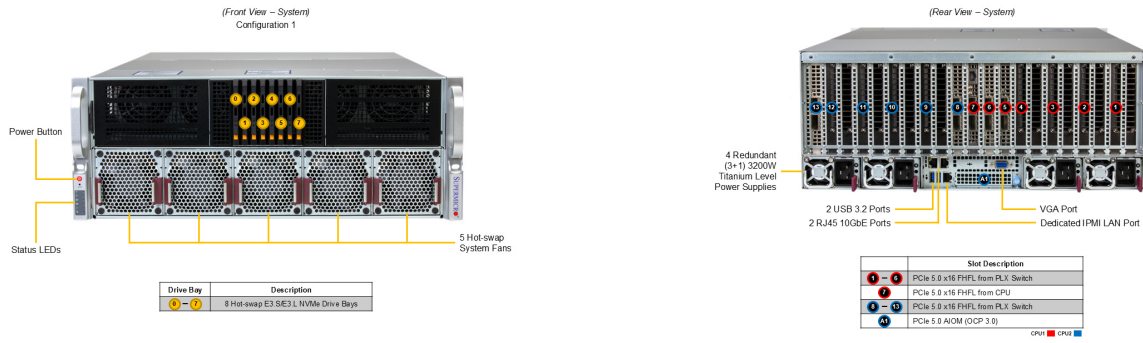
High Performance Computing, VDI, AI/Deep Learning Training, Media/Video Streaming, Cloud Gaming, Animation and Modeling, Design & Visualization, 3D Rendering, Diagnostic Imaging,

Key Features

- Dual Socket E2 (LGA-4710) Intel® Xeon® 6700/6500-series processors with P-cores up to 350W with air cooling;
- Support for up to 8 double-width PCIe GPU accelerator cards;
- Up to 32 DIMMs supporting 4TB DDR5-6400MT/s or 8000MT/s in 1DPC or 8TB DDR5-5200MT/s in 2DPC;
- Flexible networking with up to AIOM slots;
- Up to 13 PCIe 5.0 x16 FHFL slots;
- 4 Redundant 3200W Titanium Level power supplies;



Form Factor	4U Rackmount Enclosure: 437 x 178 x 737mm (17.2" x 7" x 29") Package: 685 x 675 x 1041mm (27" x 26.57" x 41")
Processor	Dual Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores Up to 128C/256T; Up to 504MB Cache per CPU
GPU	Max GPU Count: Up to 2 quad-width or 2 triple-width or 8 double-width or 10 single-width GPUs CPU-GPU Interconnect: PCIe 5.0 x16 Switch Dual-Root GPU-GPU Interconnect: NVIDIA® NVLink™ Bridge (optional)
System Memory	Slot Count: 32 DIMM slots Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM Max Memory (1DPC): Up to 4TB 8800MT/s ECC/non-ECC DDR5 MRDIMM (P-core only) Max Memory (2DPC): Up to 8TB 6000MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Option A: Total 8 bays <ul style="list-style-type: none"> • 8 front hot-swap E3.S 1T PCIe 5.0 x4 NVMe drive bays Option B: Total 8 bays <ul style="list-style-type: none"> • 8 front hot-swap E3.L 1T PCIe 5.0 x4 NVMe drive bays Option C: Total 8 bays <ul style="list-style-type: none"> • 8 front hot-swap 2.5" PCIe 5.0 x4 NVMe drive bays M.2: 2 M.2 NVMe slots (M-key)
Expansion Slots	PCI-Express (PCIe) Configuration: Default <ul style="list-style-type: none"> • 13 PCIe 5.0 x16 FHFL slots M.2: 2 M.2 PCIe 5.0 x4 NVMe slots (M-key)
On-Board Devices	2 RJ45 10GbE with Intel® X710-AT2
Input / Output	LAN: 2 RJ45 10 GbE LAN ports (Intel® X710) USB: 2 USB 3.0 Type-A ports(Rear) Video: 1 VGA port TPM: 1 TPM header



System Cooling	Fans: 10x 8cm heavy duty fans with optimal fan speed control Air Shroud: 4 Air Shrouds
Power Supply	4x 3200W Redundant (3 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer® (SCC); Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: 8+4 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: 100 lbs (45.3 kg) Net Weight: 65.5 lbs (29.7 kg) Available Color: Black Front & Silver Body
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 X14DBG-SP
Chassis	CSE-418G3TS-R6K40P