

GPU SuperServer SYS-821GE-TNHR

DP Intel 8U system with NVIDIA HGX H100/H200
8-GPU and rear I/O

Key applications

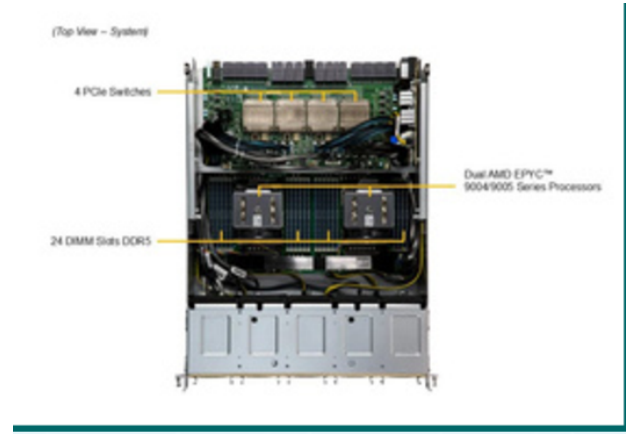
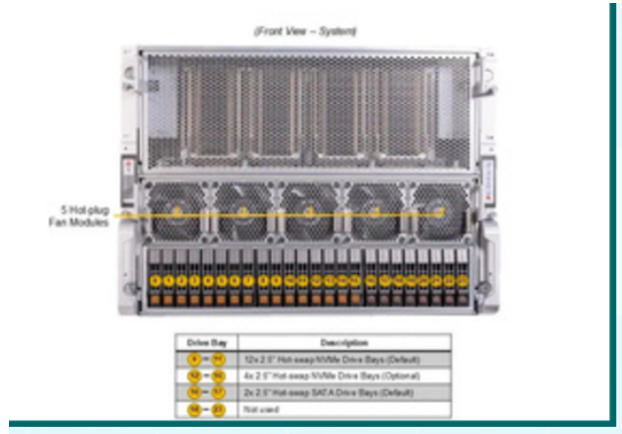
High performance computing, AI/deep learning training, industrial automation, retail, healthcare, conversational AI, business intelligence and analytics, drug discovery, climate and weather modelling, finance and economics.

Key features

- 5th/4th Gen Intel® Xeon® Scalable processor support
- 32 DIMM slots, up to 8TB: 32x 256GB DRAM, 5600MT/s ECC DDR5
- 8 PCIe Gen 5.0 x16 LP slots; 2 PCIe Gen 5.0 x16 FHHL slots (2 optional)
- Flexible networking options
- 2 M.2 NVMe for boot drive only; 16x 2.5" hot-swap NVMe drive bays (12 by default, 4 optional); 3x 2.5" hot-swap SATA bays; optional 8x 2.5" hot-swap SATA
- 10 heavy-duty fans with optimal fan speed control
- Optional 8x 3000W (4+4) redundant Titanium Level power supplies; 6x 3000W (4+2) redundant Titanium Level



Available from SuperServer.ai — delivered in 4 to 5 weeks



SuperServer.ai delivers this system to the UK and Europe in 4 to 5 weeks, against an industry norm of two months or more. Every order starts with a personal consultation to align configuration, lead time and price with your workload.

Technical specifications

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 Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors Up to 64C/128T; up to 320MB cache per CPU
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 GPU-GPU interconnect: NVIDIA® NVLink® with NVSwitch™
System memory	Slot count: 32 DIMM slots Max memory (1DPC): up to 4TB 5600MT/s ECC DDR5 RDIMM Max memory (2DPC): up to 8TB 4400MT/s ECC DDR5 RDIMM
Drive bays	Default: total 15 bays — 12 front hot-swap 2.5" NVMe, 3 front hot-swap 2.5" SATA Option A: total 19 bays — 12 front hot-swap 2.5" NVMe, 4 front hot-swap 2.5" NVMe*, 3 front hot-swap 2.5" SATA (*NVMe support may require additional storage controller and/or cables) M.2: 2 M.2 NVMe slots (M-key)
Expansion slots	Default: 8 PCIe 5.0 x16 LP slots, 2 PCIe 5.0 x16 FHHL slots
On-board devices	Chipset: Intel® C741 Network: 2 RJ45 10GbE with Intel® X550-AT2 (optional); 2 SFP28 25GbE with Broadcom® BCM57414 (optional); 2 RJ45 10GbE with Intel® X710-AT2 (optional)
Input / output	1 VGA port
System cooling	Fans: 10 heavy-duty fans with optimal fan speed control
Power supply	6x 3000W redundant (3+3) 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)
PC health monitoring	CPU: monitors for CPU cores, chipset voltages, memory; 8+4 phase-switching voltage regulator Fan: fans with tachometer monitoring; status monitor for speed control; PWM fan connectors Temperature: monitoring for CPU and chassis environment; thermal control for fan connectors
Dimensions and weight	Gross weight: 225 lbs (102.1 kg); net weight: 166 lbs (75.3 kg) Available colour: black front and silver body

Operating environment	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 X13DEG-OAD
Chassis	CSE-GP801TS