

GrandTwin SuperServer SYS-212GT-HNR

2U 4-Node GrandTwin with up to 6 hot-swap 2.5" NVMe drives per node and rear I/O



More details here

Key Applications

Scale Out All-Flash NVMe Storage, Scale-Out Object Storage, Web Server, Firewall Application, Data Center Optimized, Value IaaS, Cloud Computing, Compact Server, Virtualization Server (VSAN), Software Defined Storage, Network Function Virtualization (NFV), General Purpose, Multi-Purpose CDN, Mission Critical Web Applications,

Key Features

- Four **hot-pluggable** systems (nodes) in a 2U form factor. Each node supports the following;
- Compact 2U 4-Node GrandTwin Rear IO with up to 6 hot-swap 2.5 NVMe drives and 2 OCP3.0 slots per node;
- Dense compute, storage and flexible networking configurations optimized for software-defined storage applications;
- Front access nodes for cold aisle serviceability;
- Single-Socket, Intel® Xeon® 6 6700 series processors;
- 16 DIMM Slots supporting up to 4TB of memory; ECC RDIMMs up to DDR5-6400;



Form Factor

2U Rackmount
 Enclosure: 449 x 88 x 711.2mm (17.67" x 3.46" x 28")
 Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")

Processor

Single Socket E2 (LGA-4710)
 Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores
 P-cores: Up to 86C/172T; Up to 336MB Cache
 E-cores: Up to 144C/144T; Up to 108MB Cache

System Memory

Slot Count: 16 DIMM slots/2 Channels
 Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM
 Max Memory (1DPC): Up to 512GB 8000MT/s ECC DDR5 MRDIMM
 Max Memory (2DPC): Up to 4TB 5200MT/s ECC DDR5 RDIMM

Drive Bays Configuration

Default: Total 6 bays
 • 6 front hot-swap 2.5" PCIe 5.0 x4 NVMe drive bays
 M.2: 2 M.2 PCIe 5.0 x4 NVMe slots (M-key 22110(default)/2280; VROC required for RAID)

Expansion Slots

Default
 • 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible)

On-Board Devices

Via IO Module

Input / Output

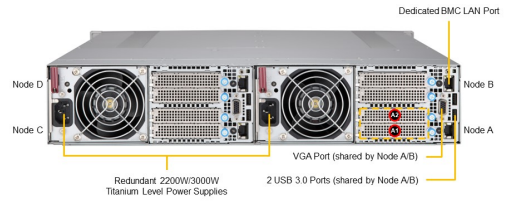
LAN: 1 RJ45 1 GbE Dedicated BMC LAN port
 USB: 2 USB 3.0 ports
 Video: 1 VGA port

(Front View – System)



Drive Bay (Node A-D)	Description
1 - 6	6 Hot-swap 2.5" NVMe Drive Bays

(Rear View – System)



Per Node (Node A-D)	Slot Description
1 - 2	PCIe 5.0 x16 A1OM (OCP 3.0)

System Cooling	Fans: Up to 2x 16K RPM Heavy Duty 8cm Fan(s)
Power Supply	2x 2200W Redundant (1 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 64MB Flash ROM
Management	SuperCloud Composer®; 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
Dimensions and Weight	Weight: Gross Weight: 88 lbs (39.9 kg) Net Weight: 68 lbs (30.8 kg) Available Color: Silver
Operating Environment	RoHS Compliant Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -30°C to 60°C (-22°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 8% to 90% (non-condensing)
Motherboard	Super X14SBT-G
Chassis	CSE-GT214BC-R2K21BP