



GrandTwin SuperServer AS -2116GT-HNTF

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

Key Applications

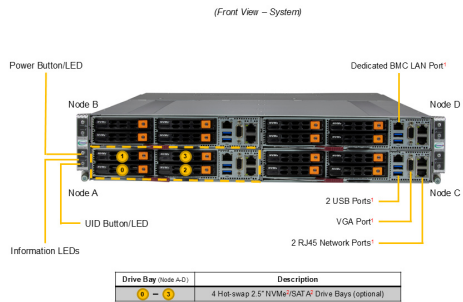
HPC, Cloud Gaming, Telco Edge, MEC (Multi-Access Edge Computing), Multi-Purpose CDN, EDA (Electric Design Automation),

Key Features

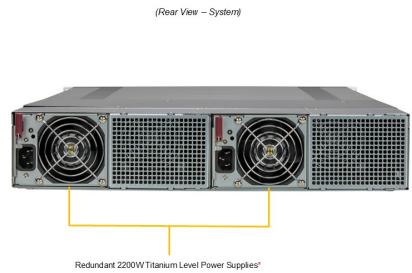
- Four **hot-pluggable** systems (nodes) in a 2U form factor. Each node supports the following;;
- Single Socket SP5 AMD EPYC™ 9005/9004 Series Processors;
- Up to 16 DIMMs, 5200 MT/s 2TB DDR5 memory in 1DPC (Please check System Memory Section for detail);
- Flexible networking with AIOM support;
- Total of 4 front hot-swap 2.5" NVMe/SATA drive bays
*NVMe/SATA support requires additional parts from the optional parts list;
- Dual 2200W Redundant (1 + 1) Titanium Level (96%) power supplies;
- (Power supply full redundancy based on configuration and application load);



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 processor(s) AMD EPYC™ 9005/9004 Series Processors Up to 192C/384T; Up to 384MB Cache
System Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 2TB 5200MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor) Max Memory (2DPC): Up to 4TB 4400MT/s ECC DDR5 1R RDIMM (AMD EPYC™ 9005 Series Processor) Max Memory (2DPC): Up to 4TB 4000MT/s ECC DDR5 2R RDIMM (AMD EPYC™ 9005 Series Processor) Max Memory (1DPC): Up to 2TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor) Max Memory (2DPC): Up to 4TB 4000MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor)
Drive Bays Configuration	Default: Total 4 bays • 4 front hot-swap 2.5" NVMe/SATA drive bays M.2: 2 M.2 NVMe/SATA slots (M-key)
Expansion Slots	PCI-Express (PCIe) Configuration: Option A • 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) M.2: 2 M.2 NVMe/SATA slots (M-key 2280/22110)
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



¹Supported by Grandtitan I/O Module
²NVMe/SATA functionality depends on configuration chosen. Additional parts are required



³Full redundancy based on configuration and application load

System Cooling	Fans: Up to 2x 17.6K RPM Heavy Duty 8cm Fan(s) Air Shroud: 1 per node Air Shroud
Power Supply	2x 2200W Redundant (1 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 64MB SPI Flash EEPROM
Management	SuperCloud Composer®; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	FAN: Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control Temperature: Monitoring for CPU and chassis environment Voltage: Voltage, VBAT, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, VRM temperature, CPU thermal trip support, 1.8V standby
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 H14SST-G
Chassis	CSE-GT214BF-R2K21BP