

MP SuperServer SYS-442B-NR

4U 4-socket system with 64 DIMMs and 24 NVMe/SAS/SATA drive bays



More details here

Key Applications

Business Intelligence, ERP, CRM, Scientific Virtualization, In-Memory Database, HCI, SAP HANA,

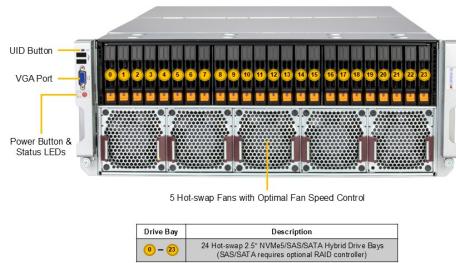
Key Features

- Quad E2 (LGA-4710) Intel® Xeon® 6700 series processors with P-cores (4S/8S) up to 350W with air cooling;
- Support for up to 4 double-width GPU accelerator cards;
- Up to 64 DIMMs supporting up to 16TB DDR5 in 2DPC;
- Flexible networking with up to 2 OCP 3.0 compatible AIOM slots;
- Up to 4 PCIe 5.0 x8 FHHL + 2 PCIe 5.0 x16 FHHL + 8 PCIe 5.0 x8 FHFL + 4 PCIe 5.0 x16 FHFL + 2 PCIe 5.0 x16 AIOM;
- Up to 24 front hot-swap 2.5" NVMe/SATA/SAS drive bays;
- 4 Redundant 2700W Titanium Level Hot-plug power supplies;

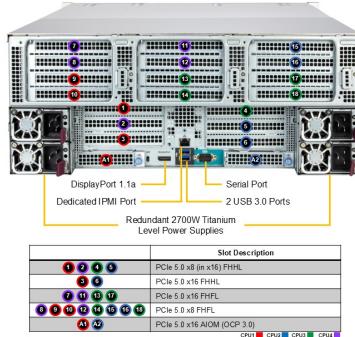


Form Factor	4U Rackmount Enclosure: 438.4 x 177 x 848.7mm (17.3" x 7" x 33.4") Package: 694 x 405 x 1255mm (27.32" x 15.94" x 49.41")
Processor	Quad E2 (LGA-4710) Intel® Xeon® 6700 series processors with P-cores (4S/8S) Up to 86C/172T; Up to 336MB Cache per CPU
GPU	Max GPU Count: Up to 6 double-width GPUs CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: PCIe
System Memory	Slot Count: 64 DIMM slots Max Memory (1DPC): Up to 8TB 6400MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 16TB 5200MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 24 bays <ul style="list-style-type: none"> • 24 front hot-swap 2.5" PCIe 5.0 NVMe*/SAS*/SATA* drive bays (*NVMe/SAS/SATA support may require additional storage controller and/or cables) M.2: 1 M.2 PCIe 4.0 x4 NVMe slot (M-key 2280/22110; VROC required for RAID) 1 M.2 PCIe 4.0 x4 NVMe slot (M-key 22110; VROC required for RAID)
Expansion Slots	Default <ul style="list-style-type: none"> • 4 PCIe 5.0 x8 FHHL slots • 2 PCIe 5.0 x16 FHHL slots • 8 PCIe 5.0 x8 FHFL slots • 4 PCIe 5.0 x16 FHFL slots • 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible)
On-Board Devices	Chipset: System on Chip Network Connectivity: Via AIOM
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 ports(rear) Video: 1 VGA port(Front) 1 DisplayPort port(Rear) Serial: 1 COM port(rear)

(Front View – System)



(Rear View – System)



System Cooling

Fans: 10 Heavy duty counter-rotating 8cm Fan(s)
Air Shroud: 5 Air Shrouds

Power Supply

4x 2700W Redundant (3 + 1) Titanium Level (96%) Hot-plug power supplies

System BIOS

BIOS Type: AMI 32MB 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

CPU: 7 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: 158.9 lbs (72.1 kg)
Net Weight: 120.4 lbs (54.6 kg)
Available Color: No Paint

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 X14QBH+](#)

Chassis

[CSE-418H2TS-R5K4AWP](#)