



More details here

# MP SuperServer SYS-242H-NR

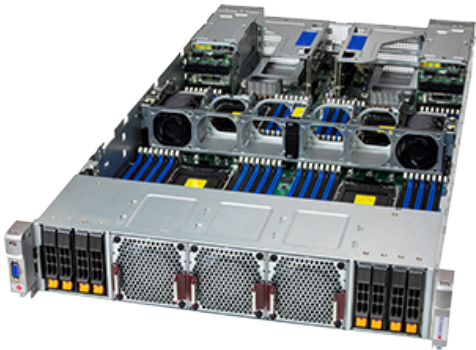
2U 4-socket system with 64 DIMMs and 8 NVMe drive bays

## Key Applications

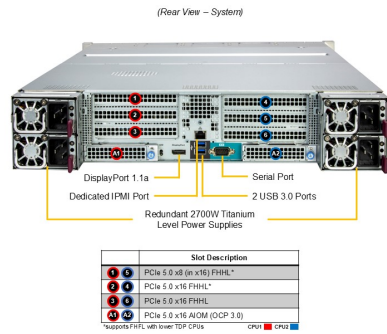
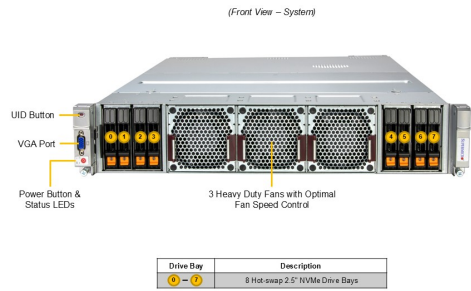
Business Intelligence, ERP, CRM, Scientific Virtualization, In-Memory Database, HCl, SAP HANA,

## Key Features

- Quad Intel® Xeon® 6700-Series Processors with P-cores up to 350W with air cooling;
- Support for up to 2 double-width PCIe 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 2 PCIe 5.0 x8 FHHL + 4 PCIe 5.0 x16 FHHL + 2 PCIe 5.0 x16 AIOM;
- Up to 8 front hot-swap 2.5" NVMe drive bays;
- 4 Redundant 2700W Titanium Level power supplies;



|                          |                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor              | 2U Rackmount<br>Enclosure: 438.4 x 88 x 848.7mm (17.3" x 3.5" x 33.4")<br>Package: 701 x 293 x 1183mm (27.6" x 11.53" x 46.57")                                                                                                                                                                                                                                                                  |
| Processor                | Quad E2 (LGA-4710)<br>Intel® Xeon® 6700 series processors with P-cores (4S/8S)<br>Up to 86C/172T; Up to 336MB Cache per CPU                                                                                                                                                                                                                                                                      |
| GPU                      | Max GPU Count: Up to 2 double-width GPUs<br>CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect<br>GPU-GPU Interconnect: PCIe                                                                                                                                                                                                                                                             |
| System Memory            | Slot Count: 64 DIMM slots<br>Max Memory (1DPC): Up to 8TB 6400MT/s ECC DDR5 RDIMM<br>Max Memory (2DPC): Up to 16TB 5200MT/s ECC DDR5 RDIMM                                                                                                                                                                                                                                                       |
| Drive Bays Configuration | Default: Total 8 bays <ul style="list-style-type: none"> <li>• 8 front hot-swap 2.5" NVMe drive bays</li> </ul> M.2: 1 M.2 PCIe 4.0 x4 NVMe slot (M-key 2280/22110; VROC required for RAID)<br>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"> <li>• 2 PCIe 5.0 x8 (in x16) FHHL slots</li> <li>• 4 PCIe 5.0 x16 FHHL slots</li> <li>• 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible)</li> </ul> Option A* <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 FHFL double-width slots</li> <li>• 2 PCIe 5.0 x16 FHHL slots</li> <li>• 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible)</li> </ul> |
| On-Board Devices         | Chipset: System on Chip<br>Network Connectivity: Via AIOM                                                                                                                                                                                                                                                                                                                                        |
| Input / Output           | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>USB: 2 USB 3.0 Type-A ports(Rear)<br>Video: 1 VGA port(Front)<br>1 DisplayPort port(Rear)<br>Serial: 1 COM port(rear)                                                                                                                                                                                                                                |



|                       |                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | <p>Fans: Up to 2 Internal Heavy duty counter-rotating 6cm Fan(s)<br/>Up to 3 Heavy duty counter-rotating 8cm Fan(s)<br/>Air Shroud: 4 Air Shrouds</p>                                                                                                                                                                                |
| Power Supply          | <p>4x 2700W Redundant (2 + 2) Titanium Level (96%) power supplies</p>                                                                                                                                                                                                                                                                |
| System BIOS           | <p>BIOS Type: AMI 32MB SPI Flash EEPROM</p>                                                                                                                                                                                                                                                                                          |
| Management            | <p>SuperCloud Composer®; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!</p>                                                                                                                                                      |
| PC Health Monitoring  | <p>CPU: 8 Phase-switching voltage regulator<br/>Monitors for CPU Cores, Chipset Voltages, Memory<br/>FAN: Fans with tachometer monitoring<br/>Pulse Width Modulated (PWM) fan connectors<br/>Status monitor for speed control<br/>Temperature: Monitoring for CPU and chassis environment<br/>Thermal Control for fan connectors</p> |
| Dimensions and Weight | <p>Weight: Gross Weight: 99.7 lbs (45.2 kg)<br/>Net Weight: 72.1 lbs (32.7 kg)<br/>Available Color: Silver</p>                                                                                                                                                                                                                       |
| Operating Environment | <p>RoHS Compliant<br/>Operating Temperature: 10°C to 35°C (50°F to 95°F)<br/>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br/>Operating Relative Humidity: 8% to 90% (Non-Condensing)<br/>Non-operating Relative Humidity: 5% to 95% (Non-Condensing)</p>                                                               |
| Motherboard           | <p><a href="#">Super X14QBH+</a></p>                                                                                                                                                                                                                                                                                                 |
| Chassis               | <p>CSE-218H2TS-R5K4AWP</p>                                                                                                                                                                                                                                                                                                           |