

# MP SuperServer SYS-242H-NR

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

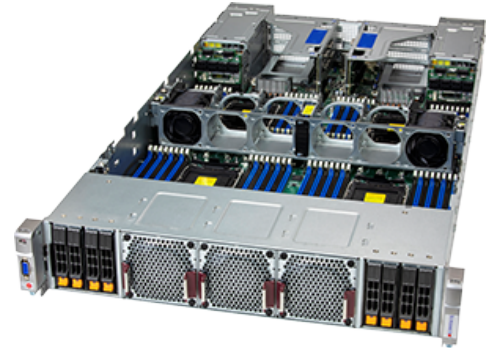


## Key Applications

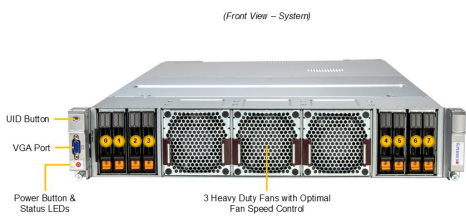
Business Intelligence, ERP, CRM, Scientific Virtualization, In-Memory Database, HCI, SAP HANA,

## Key Features

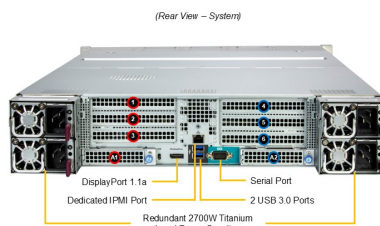
- Quad Intel® Xeon® 6700-Series Processors with P-cores up to 350W with air cooling;
- Support for up to 2 double-width PCIe GPU accelerator cards;
- Up to 64 DIMMs supporting up to 16TB DDR5 in 2DPC;
- Flexible networking with up to 2 OCP 3.0 compatible AIOM slots;
- Up to 2 PCIe 5.0 x8 FHHL + 4 PCIe 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;



<b>Form Factor</b>	2U Rackmount Enclosure: 438.4 x 88 x 848.7mm (17.3" x 3.5" x 33.4") Package: 701 x 293 x 1183mm (27.6" x 11.53" x 46.57")
<b>Processor</b>	Quad E2 (LGA-4710) Intel® Xeon® 6700 series processors with P-cores (4S/8S) Up to 86C/172T; Up to 336MB Cache per CPU
<b>GPU</b>	Max GPU Count: Up to 2 double-width GPUs CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: PCIe
<b>System Memory</b>	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
<b>Drive Bays Configuration</b>	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) 1 M.2 PCIe 4.0 x4 NVMe slot (M-key 22110)
<b>Expansion Slots</b>	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>
<b>On-Board Devices</b>	Via AIOM
<b>Input / Output</b>	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 Type-A ports(Rear) Video: 1 VGA port(Front) 1 DisplayPort port(Rear) Serial: 1 COM port(rear)



Drive Bay	Description
0 - 7	8 Hot-swap 2.5" NVMe Drive Bays



Slot Description	
1	PCIe 5.0 x8 (m x16) FHHL*
2	PCIe 5.0 x16 FHHL*
3	PCIe 5.0 x16 FHHL
4	PCIe 5.0 x16 AICM (OCP 3.0)

\*Supports FHTL with lower TDP CPUs

System Cooling	Fans: Up to 2 Internal Heavy duty counter-rotating 6cm Fan(s) Up to 3 Heavy duty counter-rotating 8cm Fan(s) Air Shroud: 4 Air Shrouds
Power Supply	4x 2700W Redundant (2 + 2) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer® (SCC); Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: 8 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: 99.7 lbs (45.2 kg) Net Weight: 72.1 lbs (32.7 kg) Available Color: Silver
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	<a href="#">Super X14QBH+</a>
Chassis	CSE-218H2TS-R5K4AWP