

MP SuperServer SYS-242B-NR

2U 4-socket system with 64 DIMMs and 24 NVMe/SAS/SATA 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 270W with air cooling;
- Support for up to 2 double-width PCIe GPU accelerator cards;
- Up to 64 DIMMs supporting up to 8TB 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 24 front hot-swap 2.5" NVMe/SATA/SAS drive bays;
- 4 Redundant 2700W Titanium Level power supplies;



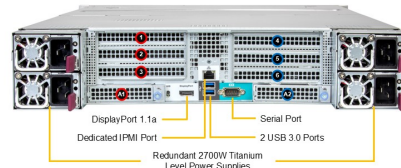
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|---------------------------------|---|
| Form Factor | 2U Rackmount Enclosure: 438.4 x 88 x 848.7mm (17.3" x 3.5" x 33.4") Package: 672 x 250 x 1100mm (26.5" x 9.75" x 43.5") |
| Processor | Quad E2 (LGA-4710) Intel® Xeon® 6700 series processors with P-cores (4S/8S) Up to 32C/64T; Up to 144MB Cache per CPU |
| GPU | Max GPU Count: Up to 2 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 4TB 6400MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 8TB 5200MT/s ECC DDR5 RDIMM |
| Drive Bays Configuration | Default: Total 24 bays <ul style="list-style-type: none"> • 24 front hot-swap 2.5" 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"> • 2 PCIe 5.0 x8 FHHL slots • 4 PCIe 5.0 x16 FHHL slots • 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible) Option A* <ul style="list-style-type: none"> • 2 PCIe 5.0 x16 FHFL double-width slots • 2 PCIe 5.0 x16 FHHL slots • 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible) |
| On-Board Devices | 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)



| Drive Bay | Description |
|-----------|---|
| 0 - 23 | 24 Hot-swap 2.5" NVMe/SAS/SATA Hybrid Drive Bays (SAS/SATA requires optional RAID controller) |

(Rear View – System)



| Slot Description | |
|------------------|-----------------------------|
| 1 | PCIe 5.0 x8 (m x16) FHFL* |
| 2 | PCIe 5.0 x16 FHFL* |
| 3 | PCIe 5.0 x16 FHFL* |
| 4 | PCIe 5.0 x16 A1OM (OCP 3.0) |

*Supports FHFL with lower TDP CPUs

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|-----------------------|---|
| System Cooling | Fans: Up to 4 Direct to Chip (D2C) Cold Plate Fan(s) (optional) Up to 6 Heavy duty counter-rotating 6cm Fan(s) Air Shroud: 4 Air Shrouds |
| Power Supply | 4x 2700W Redundant (2 + 2) 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: 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 | Super X14QBH+ |
| Chassis | CSE-218HTS-R5K4AWP |