MP SuperServer SYS-440P-TNRT

4U 4-socket system with 48 DIMMs and 24 NVMe/SAS/SATA drive bays

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More details here

Key Applications

Artificial Intelligence (AI), Business Intelligence, ERP, CRM, Scientific Virtualization, In-Memory Database, HCI, SAP HANA,

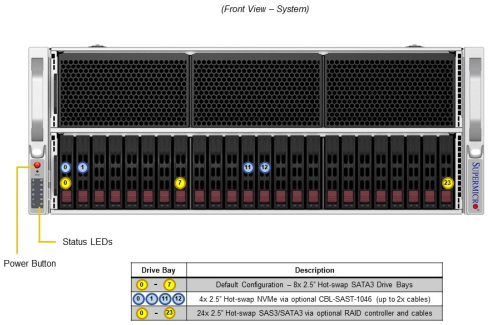
Key Features

- Quad Socket P+ (LGA-4189) 3rd Generation Intel® Xeon® Scalable processors;
- Intel® Ethernet Controller X710-TM4 2x 10G RJ45 + 2x 10G SFP+ port; ; (optional) AIOM up to 100G QSFP28;
- 8 heavy duty fans w/ optimal fan speed control;

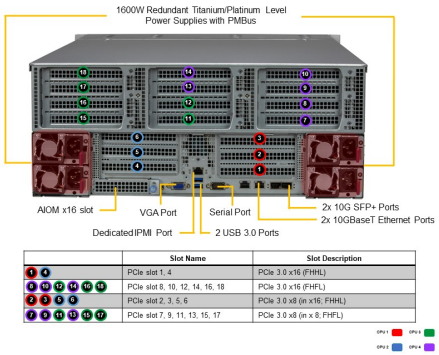


Form Factor	4U Rackmount Enclosure: 440.9 x 177 x 755.5mm (17.3" x 6.96" x 29.74") Package: 720 x 435 x 1080mm (28.34" x 17.12" x 42.5")
Processor	Quad Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 28C/56T; Up to 38.5MB Cache per CPU
GPU	Up to 6 double-width GPUs
System Memory	Slot Count: 48 DIMM slots Max Memory (2DPC): Up to 12TB 3200MT/s ECC DDR4 RDIMM/LRDIMM Supports Intel® Optane™ persistent memory 200 series
Drive Bays Configuration	Default: Total 24 bays • 24 front hot-swap 2.5" SAS/SATA drive bays Option A: Total 24 bays • 20 front hot-swap 2.5" SAS/SATA drive bays • 4 front hot-swap 2.5" NVMe/SAS/SATA drive bays M.2: 2 M.2 NVMe/SATA slots (M-key 2280/22110)
Expansion Slots	Default • 2 PCIe 3.0 x16 FHHL slots • 6 PCIe 3.0 x16 FHFL slots • 4 PCIe 3.0 x8 (in x16) FHHL slots • 6 PCIe 3.0 x8 FHFL slots • 1 PCIe 3.0 x16 (in x16) AIOM slot (OCP 3.0 compatible)
On-Board Devices	Chipset: Intel® C621 Network Connectivity: 2 RJ45 10GBASE-T with Intel® X710-TM4 2 SFP+ 10GbE with Intel® X710-TM4 1 QSFP28 100GbE with AIOM (optional)
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 10 GbE LAN ports 2 SFP+ 10 GbE LAN ports USB: 2 USB 3.0 ports(rear) Video: 1 VGA port Serial: 1 COM port(Rear)

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Drive Bay	Description
0 - 7	Default Configuration – 8x 2.5" Hot-swap SATA3 Drive Bays
0, 1, 11, 12	4x 2.5" Hot-swap NVMe via optional CBL-SAST-1046 (up to 2x cables)
0 - 23	24x 2.5" Hot-swap SAS3/SATA3 via optional RAID controller and cables



	Slot Name	Slot Description
1 4	PCIe slot 1, 4	PCIe 3.0 x16 (FHHL)
8 10 12 14 16 18	PCIe slot 8, 10, 12, 14, 16, 18	PCIe 3.0 x16 (FHFL)
2 3 5 6	PCIe slot 2, 3, 5, 6	PCIe 3.0 x8 (in x16; FHHL)
7 9 11 13 15 17	PCIe slot 7, 9, 11, 13, 15, 17	PCIe 3.0 x8 (in x 8; FHFL)

System Cooling	Fans: 8x 9cm heavy duty fans with optimal fan speed control Air Shroud: 1 Air Shroud
Power Supply	4x 1600W Redundant Titanium Level (96%) Hot-plug power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory 4+1 Phase-switching voltage regulator FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Weight: Gross Weight: 132.27 lbs (60 kg) Net Weight: 77.16 lbs (35 kg) Available Color: Black
Operating Environment	RoHS Compliant Operating Temperature: 10°C ~ 35°C (50°F ~ 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 X12QCH+**
Chassis	**CSE-418HTS-R3K3AWP**

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