

# Mainstream SuperServer SYS-220P-C9RT

2U Mainstream with 8 hot-swap SAS + 8 SATA bays and 5 PCIe 4.0 slots



More details here

## Key Applications

High Performance Computing, Enterprise Server, Data Center Optimized, Database Processing and High Density Storage, Application-Optimized Solutions,

## Key Features

- Dual sockets P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors; CPU TDP supports Up to 270W TDP; 3 UPI up to 11.2 GT/s;
- Up to 4TB 3DS ECC RDIMM, DDR4-3200MHz, Up to 4TB 3DS ECC LRDIMM, DDR4-3200MHz; - Up to 4TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 18 DIMM slots (P1-DIMMB2 and P2-DIMMB2 are reserved for Intel® Optane Persistent Memory 200 Series only);
- 4 PCIe 4.0 x16 Low Profile (LP); 1 PCIe 4.0 x8 Low Profile (LP); \* PCIe slot#1 is populated with 1x AOC-S3908L-H8IR-16DD-P to support 8x SAS drives;
- Dual 10GBase-T LAN with Intel® X550 Ethernet Controller;
- 3 heavy duty Hot-swappable 13.5K RPM Middle Cooling Fans with optimal fan speed control; 1 air shroud;
- 1200W Redundant Power Supplies Titanium level 100-240Vac and 200-240 Vdc;
- 1 rear VGA, 1 Type A port, 2 COM Ports (1 front; 1 rear) and 6 USB ports (2 front USB 2.0 and 4 rear USB 3.0);



### Form Factor

2U Rackmount  
Enclosure: 437 x 89 x 630mm (17.2" x 3.5" x 24.8")  
Package: 737 x 279 x 983mm (29" x 11" x 38.7")

### Processor

Dual Socket P+ (LGA-4189)  
3rd Gen Intel® Xeon® Scalable processors  
Up to 36C/72T; Up to 60MB Cache per CPU

### System Memory

Slot Count: 16 DIMM slots  
Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM/LRDIMM  
Supports Intel® Optane™ persistent memory 200 series

### Drive Bays Configuration

Default: Total 16 bays

- 8 front hot-swap 2.5" SAS drive bays
- 4 front hot-swap 2.5" SATA drive bays
- 4 front hot-swap 2.5" NVMe\*/SATA drive bays

(\*NVMe support may require additional storage controller and/or cables)  
M.2: 1 M.2 NVMe slot (M-key)  
Peripheral Bays: 1 5.25" DVD bay (optional)

### Expansion Slots

Default

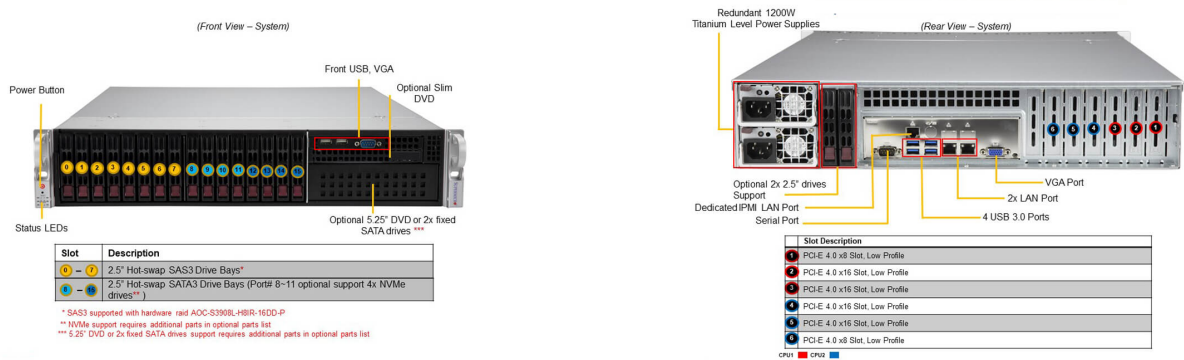
- 4 PCIe 4.0 x16 LP slots
- 1 PCIe 4.0 x8 LP slot

### On-Board Devices

Chipset: Intel® C621A  
Network Connectivity: 2 RJ45 10GbE

### Input / Output

LAN: 1 RJ45 1 GbE Dedicated BMC LAN port  
USB: 2 USB 2.0 ports(front)  
4 USB 3.0 ports(rear)  
Video: 1 VGA port  
DOM: 2 SuperDOM (Disk on Module) ports



System Cooling	Fans: Up to 3 heavy duty fans with optimal fan speed control
Power Supply	1x 1200W Redundant Titanium Level (96%) power supply
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: 63 lbs (28.8 kg) Net Weight: 38 lbs (17.4 kg) Available Color: Black
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 X12DPi-NT6</a>
Chassis	<b>CSE-213BTS-R1K23LPBP3-1</b>