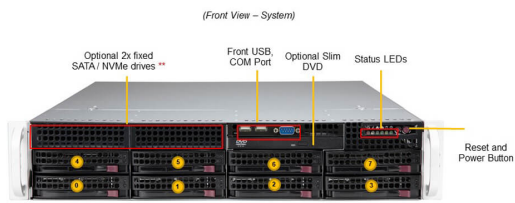# Mainstream SuperServer SYS-620P-TR

Key Applications

Virtualization, Enterprise Server, Data Center Optimized, Application and data serving, Model analysis, Compute Intensive Applications,

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;
- Intel® C621A Chipset ;SATA: Intel® C621A controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10;
- 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);
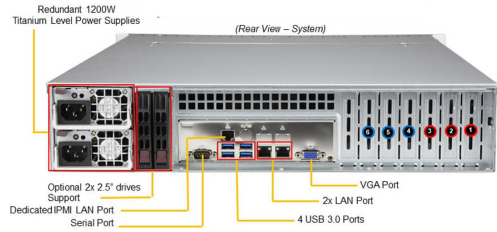- 4 PCIe 4.0 x16 Low Profile (LP);2 PCIe 4.0 x8 Low Profile (LP);

Form Factor	2U Rackmount Enclosure: 437 x 89 x 647mm (17.2" x 3.5" x 25.5") Package: 678 x 290 x 876mm (26.7" x 11.4" x 34.5")
Processor	Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 36C/72T; Up to 60MB Cache per CPU
Drive Bays	8x 3.5" hot-swap SATA3 drive bays (8x 3.5" hot-swap SATA drive bays can be converted to 8x SAS drive bays by adding 1x AOC-S3108L-H8IR or AOC-S3108L-H8IR-16DD + 2x CBL-SAST-0699) 1 M.2 NVMe
Expansion Slots	2 PCIe 4.0 x8 LP slot(s) 4 PCIe 4.0 x16 LP slot(s)
On-Board Devices	Chipset: Intel® C621A Network Connectivity: 2x 1GbE port(s) IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	LAN: 1 dedicated IPMI LAN port USB: 2 USB 2.0 port(s) (2 front) 4 USB 3.0 port(s) (4 rear) Video: 1 VGA port(s) Serial Port: 2 COM Port(s) (1 rear; 1 front) DOM: 2 SuperDOM (Disk on Module) port

(Front View – System)

Optional 2x fixed
SATA / NVMe drives **

Front USB,
COM Port

Optional Slim
DVD

Status LEDs

Reset and
Power Button

Slot	Description
0 – 7	3.5" Hot-swap SAS3*/SATA3 Drive Bays*

*SAS3 support requires additional parts in optional parts list
**2x fixed SATAs / NVMe support requires additional parts in optional parts list

Redundant 1200W
Titanium Level Power Supplies

(Rear View – System)

Optional 2x 2.5" drives
Support
Dedicated IPMI LAN Port
Serial Port

VGA Port
2x LAN Port
4 USB 3.0 Ports

	Slot Description
1	PCI-E 4.0 x8 Slot, Low Profile
2	PCI-E 4.0 x16 Slot, Low Profile
3	PCI-E 4.0 x16 Slot, Low Profile
6	PCI-E 4.0 x16 Slot, Low Profile

System Cooling	Fans: 3 heavy duty fans with optimal fan speed control
Power Supply	1200W Redundant Titanium Level power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Power Manager (SPM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; KVM with dedicated LAN ; IPMI 2.0
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	Height: 3.5" (89 mm) Width: 17.2" (437 mm) Depth: 25.5" (647 mm) Gross Weight: 69 lbs (31.2 kg) Net Weight: 36.38 lbs (16.5 kg) Packaging: 11.4" (H) x 26.7" (W) x 34.5" (D) Available Color: Black
Operating Environment	ROHS: 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 X12DPi-N6](#)
Chassis	CSE-825BTS-R1K23LPP1