Mainstream SuperServer SYS-620P-TR

2U Mainstream with 8 hot-swap SATA bays and 6 PCIe 4.0 slots
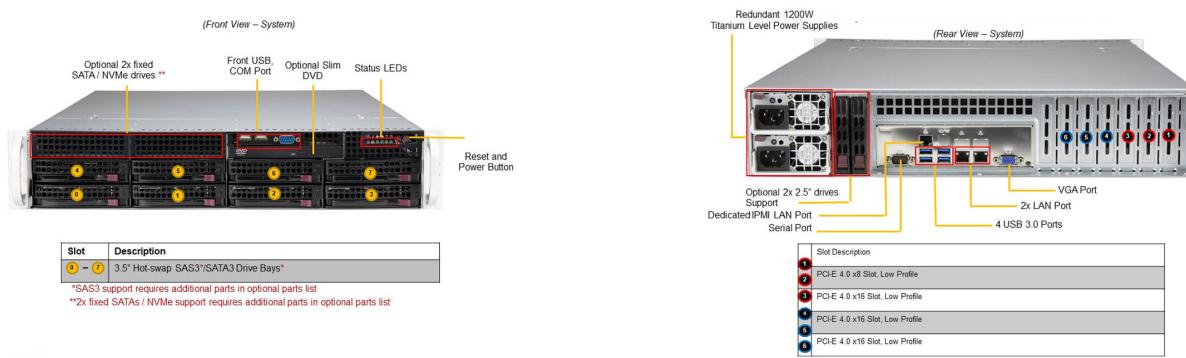
Key Applications

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;
- 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);
- Dual Gigabit LAN with Intel® i350 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 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
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 8 bay(s)
	  • 8 front hot-swap 3.5" SAS*/SATA drive bay(s)
	Option A: Total 10 bay(s)
	  • 8 front hot-swap 3.5" SAS*/SATA drive bay(s)
	  • 2 front fixed 3.5" NVMe*/SATA* drive bay(s)
	(*NVMe/SAS/SATA support may require additional storage controller and/or cables, please see the optional parts list for details)
	M.2: 1 M.2 NVMe slot(s) (M-key)
	Peripheral Bays: 1 slim DVD bay(s) (optional)

Expansion Slots	Default
	  • 2 PCIe 4.0 x8 LP slot(s)
	  • 4 PCIe 4.0 x16 LP slot(s)

On-Board Devices	Chipset: Intel® C621A Network Connectivity: 2 RJ45 1GbE 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 RJ45 1 GbE Dedicated BMC LAN port(s) USB: 2 USB 2.0 port(s) (front) 4 USB 3.0 port(s) (rear) Video: 1 VGA port(s) DOM: 2 SuperDOM (Disk on Module) port(s)

(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
PCI-E 4.0 x8 Slot, Low Profile
PCI-E 4.0 x16 Slot, Low Profile
PCI-E 4.0 x16 Slot, Low Profile
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	Weight: Gross Weight: 69 lbs (31.2 kg) 　　Net Weight: 36.38 lbs (16.5 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 X12DPi-N6**
Chassis	**CSE-825BTS-R1K23LPP1**