Twin SuperServer SYS-620TP-HC9TR

2U 4-node TwinPro with 3 3.5" SAS/SATA (HW RAID) drives per node and dual 10GbE

Key Applications

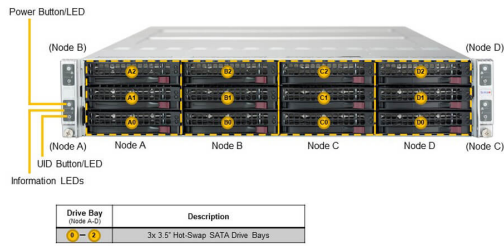High Performance Computing, Hyper-Converged Infrastructure, Big Data / Big Science,

Key Features

- Four hot-pluggable systems (nodes) in a 2U form factor. Each node supports the following:;
- Dual Socket P+ (LGA-4189) 3rd Generation Intel® Xeon® Scalable Processors;
- Intel® C621A Chipset;
- 16 DIMMs, Up to 4TB 3DS ECC DDR4-3200 LRDIMM/RDIMM;
- 1 PCIe 4.0 x16 (LP), 1 PCIe 4.0 x8 (with M.2 adapter installed for support 2 NVME up to 22x80 mm);
- Intel® X710 Dual port 10GBase-T LAN onboard;
- 3x 3.5" hot-swap SATA/SAS drive bays;
- 4 heavy duty 8cm PWM fans with optimal fan speed control (Per System);
- Two 2200W redundant power supplies with PMBus;
- ASPEED AST2600 BMC, 2 USB, VGA. RoT
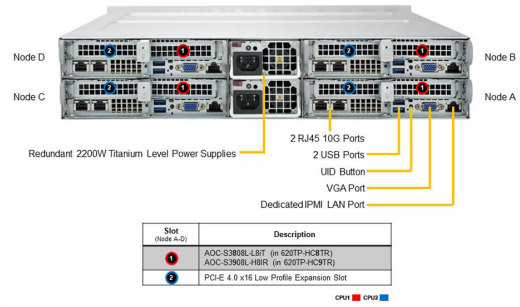 Broadcom® 3908 SAS (12Gbps); 3 slots per node; RAID 0, 1, 5 support.;

Form Factor	2U Rackmount Enclosure: 438 x 88 x 774mm (17.25" x 3.47" x 30.5") Package: 622 x 254 x 1143mm (24.5" x 10" x 45")
Processor	Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 32C/64T; Up to 48MB Cache per CPU
System Memory	Slot Count: 16 DIMM slots Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM
Drive Bays Configuration	Default: Total 3 bays • 3 front hot-swap 3.5" SATA drive bays
Expansion Slots	Default • 1 PCIe 4.0 x16 (in x16) LP slot
On-Board Devices	Chipset: Intel® C621A Network Connectivity: 2 RJ45 10GBASE-T with Intel® X710-AT2
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 ports(rear) Video: 1 VGA port

(Front View – System)

(Rear View – System)

Power Button/LED

(Node B)

(Node A)

UID Button/LED

Information LEDs

Node A   Node B   Node C   Node D

(Node C)

(Node D)

Node D

Node C

Redundant 2200W Titanium Level Power Supplies

Node B

Node A

2 RJ45 10G Ports

2 USB Ports

UID Button

VGA Port

Dedicated IPMI LAN Port

Drive Bay (Node A-D)	Description
0 — 2	3x 3.5" Hot-Swap SATA Drive Bays

Slot (Node A-D)	Description
1	AOC-S3808L-L8iT (in 620TP-HC8TR) / AOC-S3908L-H8iR (in 620TP-HC9TR)
2	PCI-E 4.0 x16 Low Profile Expansion Slot

CPU1 ■ CPU2 ■

System Cooling	Fans: 4x 8cm heavy duty fans with optimal fan speed control Air Shroud: 4 Air Shrouds
Power Supply	1x 2200W 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
	     5 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: 90 lbs (40.9 kg) Net Weight: 72 lbs (32.7 kg) Available Color: Black front & silver body
Operating Environment	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 X12DPT-PT6**
Chassis	**CSV-827HQ+-R2K20BP4**