Twin SuperServer SYS-120TP-DC9TR

1U 2-node TwinPro with 4 2.5" SAS/SATA drives per node and HW RAID

Key Applications

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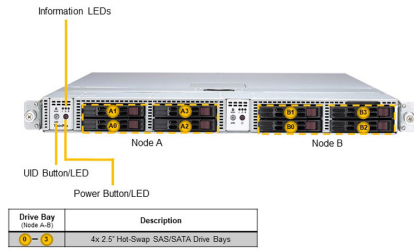
Key Features

- 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;
- 4x 2.5" hot-swap SATA/SAS drive bays;
- 6 counter-rotating 4cm PWM fans with optimal fan speed control (Per System);
- Two 1000W redundant power supplies with PMBus;
- ASPEED AST2600 BMC, 2 USB, VGA. RoT
  Broadcom® 3908 SAS (12Gbps); 4 slots per node; RAID 0, 1, 5, 6, 10 support.;
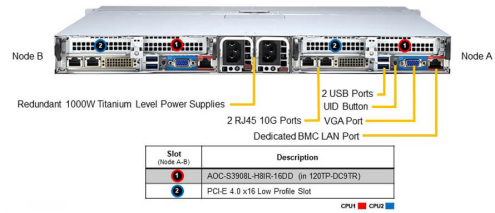- Two hot-pluggable systems (nodes) in a 1U form factor. Each node supports the following:;

Form Factor	1U Rackmount Enclosure: 438 x 43 x 718mm (17.25" x 1.7" x 28.25") Package: 752 x 203 x 975mm (29.6" x 8" x 38.4")
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 4 bay(s) • 4 front hot-swap 2.5" SAS/SATA drive bay(s)
Expansion Slots	Default • 1 PCIe 4.0 x16 LP slot(s)
On-Board Devices	Chipset: Intel® C621A Network Connectivity: 2 RJ45 10GBASE-T with Intel® X710-AT2
Input / Output	LAN: 1 RJ45 1 GbE Dedicated IPMI LAN port(s) USB: 2 USB 3.0 port(s) (rear) Video: 1 VGA port(s)

(Front View – System)

(Rear View – System)

Information LEDs

UID Button/LED

Power Button/LED

Node A   Node B

Drive Bay (Node A–B)	Description
0 — 3	4x 2.5" Hot-Swap SAS/SATA Drive Bays

Node B   Node A

Redundant 1000W Titanium Level Power Supplies

2 RJ45 10G Ports

Dedicated BMC LAN Port

2 USB Ports
UID Button
VGA Port

Slot (Node A–B)	Description
1	AOC-S3908L-H8IR-16DD (in 120TP-DC9TR)
2	PCI-E 4.0 x16 Low Profile Slot

CPU1 ■ CPU2 ■

System Cooling
Fans: 6x 4cm heavy duty fans with optimal fan speed control
Air Shroud: 2 Air Shroud(s)

Power Supply
1x 1000W 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: 48.1 lbs (21.9 kg)
        Net Weight: 33.5 lbs (15.2 kg)
Available Color: Black front & silver body

Operating Environment
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 X12DPT-PT6

Chassis
CSE-809H-R1K05P3