Mainstream SuperServer SYS-221P-C9R
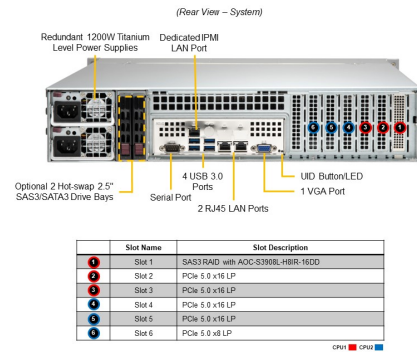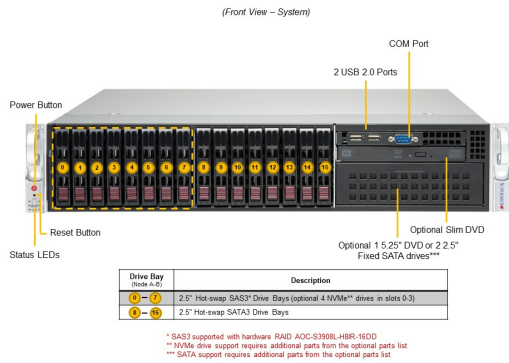
More details here

Key Applications

Virtualization, Enterprise Server, Application and data serving, Compute Intensive Applications,

Key Features

- Dual Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors,supports up to 300W TDP;
- 16 DIMM slots, Up to 4TB DDR5-5600MHZ/4800MHz ECC Registered RDIMM;
- 4 PCIe 5.0 x16 Low Profile (LP), 1 PCIe 5.0 x8 Low Profile (LP);
- 16 hotswap 2.5" drive bays with 8 SAS RAID (0, 1, 5, 6, 10, 50, 60) and 8 SATA drive support;
- 1200W Redundant Titanium level Power Supplies;

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 E (LGA-4677) 5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors
System Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM
Drive Bays	16x 2.5" hot-swap drive bays (8x SAS drive bays in the slot 0~7 via Broadcom® 3908 HW RAID and 8x SATA3 drive bays in the slot 8~15 via Intel® C741. Configurable option for 4x hot-swap NVMe in drive bay slot 0~3. NVMe or Additional SAS support requires additional parts. Please see the Optional Parts list) 2 M.2 NVMe
Expansion Slots	4 PCIe 5.0 x16 LP slot(s) 1 PCIe 5.0 x8 LP slot(s)
On-Board Devices	Chipset: Intel® C741 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 RJ45 Dedicated BMC 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)

(Rear View – System)

Drive Bay (Node A-B)	Description
0 — 7	2.5" Hot-swap SAS3* Drive Bays (optional 4 NVMe** drives in slots 0-3)
8 — 15	2.5" Hot-swap SATA3 Drive Bays

* SAS3 supported with hardware RAID AOC-S3908L-H8R-16DD
** NVMe drive support requires additional parts from the optional parts list
*** SATA support requires additional parts from the optional parts list

	Slot Name	Slot Description
1	Slot 1	SAS3 RAID with AOC-S3908L-H8IR-16DD
2	Slot 2	PCIe 5.0 x16 LP
3	Slot 3	PCIe 5.0 x16 LP
4	Slot 4	PCIe 5.0 x16 LP
5	Slot 5	PCIe 5.0 x16 LP
6	Slot 6	PCIe 5.0 x8 LP

CPU1 ▮ CPU2 ▮

System Cooling	Fans: 3x 8cm 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
	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: 24.8" (630 mm) Gross Weight: 63 lbs (28.8 kg) Net Weight: 38 lbs (17.4 kg) Packaging: 11" (H) x 29" (W) x 38.7" (D) Available Color: Black
Operating Environment	ROHS: RoHS Compliant Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating Temperature: -30°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 8% to 90% (non-condensing)
Motherboard	[Super X13DEI](#)
Chassis	CSE-213BTS-R1K23LPBP3-1

Parts List

Standard Parts (Parts Included)

Motherboard / Chassis

Part Number	MBD-X13DEI	CSE-213BTS-R1K23LPBP3-1
Qty	1	1
Description	Super X13DEI Motherboard	2U Chassis

Add-on Card / Module

Part Number	AOC-S3908L-H8IR-16DD-P
Qty	1
Description	8 int 12Gb/s ports, x8 Gen4, ROC - LP, 16 HDDw/ exp,RoHS

Backplane

Part Number	BPN-SAS4-213A-N8
Qty	1
Description	2U 16-slot SFF 2.5" SAS4 direct-attached backplane, 1st 8 slots also support NVMe Gen5.,RoHS

Cable

Part Number	CBL-PWEX-1109-10 CBL-PWEX-1069	CBL-SAST-1261-100	CBL-0071L	CBL-0217L	CBL-PWCD-0160-IS
Qty	2 3	2	1	1	2
Description	MicroFit,2x4,PH3.0,F to 2x BIG,1x4,PH5.08,M,10CM,10A/pin PWEX,FAN,1X4/P2.5 TO 1X4/P2.54,30CM,22AWG,5A/pin,RoHS	Slimline x8 (STR) to 2x Slimline x4 (STR),60/60CM,100 O	ROUND 16 TO 16 PIN RIBBON FP CABLE 30"L, LF	16PIN CNTL PANEL CONVERTER CBL FOR SC826,PBF	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH

Drive Tray(s)

Part Number	MCP-220-00007-01	MCP-220-00009-01	MCP-220-00023-01	MCP-220-00047-0B
Qty	1	1	1	16
Description	Black USB/COM port tray for SC825, 836	Black 5.25"; drive tray w/o rail (square pattern)	Black USB dummy tray support 1x 2.5" slim HDD for SC825, 836	Black gen 3rd hot-swap 2.5inch HDD tray

Parts

Part Number	MCP-260-00042-3N
Qty	1
Description	STD I/O shield for X13 server MB with venting holes

Manual

Part Number	MNL-2566-QRG
Qty	1
Description	221P-C9R(T) Quick Reference Guide

Software

Part Number	SFT-OOB-LIC
Qty	1
Description	License key for enabling OOB BIOS management

Heatsink / Retention

Part Number	SNK-P0088P
Qty	2
Description	2U Passive CPU HS for X13 Intel Eagle Stream Platform

*Power Supply

Part Number	PWS-1K23A-1R
Qty	2
Description	AC-DC 1200W, Titanium Level, Redundancy, 1U, PMBUS 1.2, +12V/+5Vsb, 336x76x40 mm,HF,RoHS/REACH

*Power Distributor

Part Number	PDB-PT829-S8824
Qty	1
Description	PDB with 23pairs input connectors for SC829B216B

*Fan

Part Number	FAN-0206L4
Qty	3
Description	80x80x38 mm, 13.5K RPM, Middle Cooling Fan for 2U and above Servers

*Front Panel

Part Number	FPB-FP826-D	FPB-TB826
Qty	1	1
Description	Front control board Dual color LED(FP826-D)forSC826,213,216,	16 pin Cable Adaptor Board for SC826

*Rear Window

Part Number	MCP-240-82608-0N
Qty	1
Description	216B/826B LP rear window,RoHS/REACH,PBF

*Peripheral Drive

Part Number	MCP-290-00007-01
Qty	1
Description	Black DVD dummy cover for SC825, 836

*Rail Set

Part Number	MCP-290-00053-0N	MCP-290-00060-0N
Qty	1	1
Description	Rail set, quick/quick, default for 2,3U 17.2"W	Threaded rail adapter default for round hole rack

*Air Shroud

Part Number	MCP-310-29001-0N
Qty	1
Description	SC825/826/216/213 Intel DP X9,X8 air shroud 13.68x13/12x13

Notes:
1. Parts with * are inside the chassis
2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.

Optional Parts List

Management Software	
Part Number	SFT-DCMS-Single
Qty	1
Description	DataCenter Management Package (per node license)

Optional 2x front fixed SATA drive Kit	
Part Number	1x MCP-220-00044-0N, 2xCBL-SAST-0624+1*CBL-0082L
Qty	1
Description	1x MCP-220-00044-0N can support 2x 2.5 inch fixed drives in 1x 5.25 inch drive bay

Optional 2x Rear hot-Swap SATA drive Kit	
Part Number	1x 1xMCP-220-82616-0N+1xCBL-0182L
Qty	1
Description	1x MCP-220-82616-0N can support 2x 2.5 inch fixed drives in Rear side

Optional 16-ports SAS Raid controller kit	
Part Number	1xAOC-S3916L-H16IR-32DD-O
Qty	1
Description	Standard LP, 8 internal ports (12Gb/s) Gen-4; RAID 0, 1, 5, 6, 10, 50, 60

Optional 2U Cable Management Arm Kit	
Part Number	1 x MCP-120-82503-0N+1 x MCP-290-00073-0N eStore (https://store.supermicro.com/2u-3u-4u-cable-management-arm-mcp-290-00073-0n-1.html)
Qty	1
Description	2U Cable Management Arm Kit

Optional 8-ports SAS Raid controller kit	
Part Number	1x AOC-S3908L-H8IR-16DD-O
Qty	1
Description	Standard LP, 8 internal ports (12Gb/s) Gen-4; RAID 0, 1, 5, 6, 10, 50, 60

Optional CacheVaults Kit	
Part Number	1xBTR-CVPM05+1x MCP-240-00203-0N
Qty	1
Description	CacheVault for Broadcom 3908/3916 with Supercap and PCI bracekt

Optional Front Hot-Swap NVMe Kit	
Part Number	1xCBL-MCIO-1260M5 for 2 U.2 NVMe Drives
Qty	1
Description	NVMe Kit for front hot-swap NVMe . Max. 4 NVMe support

Optional Front Slim ODD Kit	
Part Number	1xDVM-TEAC-DVD-SBT5+1x MCP-220-81502-0N eStore (https://store.supermicro.com/dvd-mounting-kit-mcp-220-81502-0n.html)
Qty	1
Description	BLACK TEAC SLIM DVD SATA DRIVE

Optional MCC CPU Carrier	
Part Number	1x SKT-1424L-001B-FXC
Qty	1
Description	CPU Carrier for Intel Socket-E (LGA4677) E1B MCC CPU

Optional Trusted Platform Module	
Part Number	1 x AOM-TPM-9670V-S-O
Qty	1
Description	SPI Vertical TPM 2.0 0 using SLB9670

Optional XCC CPU Carrier	
Part Number	1x SKT-1333L-0000-FXC
Qty	1
Description	CPU Carrier for Intel Socket-E (LGA4677) E1A XCC CPU