

UP SuperServer SYS-521E-WR



More details here

Key Applications

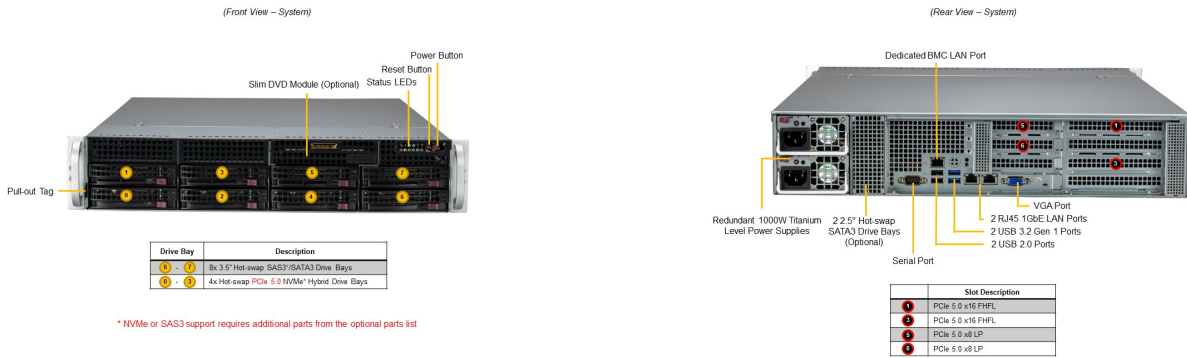
Data Center Optimized, Network Appliance, Database/Storage, Entry GPU server,

Key Features

- Single Socket E (LGA-4677) 4th/5th Gen Intel® Xeon® Scalable processors. Up to 300W TDP;
- Intel® C741 Chipset;
- 8 DIMMs; Supports 3DS DDR5 RDIMM. Up to 5600 MHz;
- 2 PCIe 5.0 x16 FHFL; 2 PCIe 5.0 x8 LP; 1 PCIe 3.0 x2 NVMe M.2;
- Onboard 1G LAN ports (Intel® i210), 1 dedicated IPMI LAN;
- 8x front hot-swap 3.5" SATA3 drive bays (Optional 4 hybrid Gen5 NVMe), SAS3 with additional SAS controller card;
- Redundant Now Titanium 1000W Power Supplies;



Form Factor	2U Rackmount Enclosure: 437 x 89 x 647mm (17.2" x 3.5" x 25.5") Package: 673.1 x 279.4 x 863.6mm (26.5" x 11" x 34")
Processor	Single Socket E (LGA-4677) 5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors Up to 52C/104T; Up to 300MB Cache
GPU	Max GPU Count: Up to 1 double-width or 2 single-width GPU(s) Supported GPU: NVIDIA PCIe: RTX A5000, RTX A4000, T400, RTX A4500, RTX A2000 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: PCIe
System Memory	Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 4800MT/s ECC DDR5 RDIMM
Drive Bays	8x 3.5" NVMe/SATA/SAS drive bays (4x 3.5" NVMe hybrid) 1x PCIe 3.0 x2 M-key, 2280, 22110
Expansion Slots	2 PCIe 5.0 x16 FHFL slot(s) 2 PCIe 5.0 x8 LP slot(s) Note: Default loadout. (For more configs, please contact sales) FH slots can be reconfigured with RSC-W2-688G5. Acronyms: (FH = Full Height, LP = Low Profile, FL = Full Length, HL = Half Length)
On-Board Devices	SATA: SATA3 (6Gbps); RAID 0/1/5/10 support NVMe: NVMe Chipset: Intel® C741 Network Connectivity: 2x 1GbE BaseT with Intel® i210 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	SATA: 10 SATA (6Gbps) port(s) LAN: 2 RJ45 1GbE LAN ports 1 RJ45 Dedicated IPMI LAN port USB: 3 USB 2.0 port(s) (2 rear; 1 Type A) 4 USB 3.2 Gen 1 port(s) (2 rear; 2 headers) Video: 1 VGA port(s) Serial Port: 2 COM Port(s) (1 header; 1 rear)



System Cooling	Fans: 3 heavy duty PWM 80x80x38mm Fan(s)
Power Supply	2x 1000W 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 8 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: 59 lbs (26.76 kg) Net Weight: 34 lbs (15.42 kg) Packaging: 11" (H) x 26.5" (W) x 34" (D) Available Color: Black
Operating Environment	Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating Temperature: -30°C to 60°C (-22°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 8% to 90% (non-condensing)
Motherboard	Super X13SEW-F
Chassis	CSE-825B2TS-R0WNP

Parts List

Standard Parts (Parts Included)

Motherboard / Chassis

Part Number	MBD-X13SEW-F	CSE-825B2TS-R0WNP
Qty	1	1
Description	Super X13SEW-F Motherboard	2U Chassis

Backplane

Part Number	BPN-SAS4-825A-N4
Qty	1
Description	8-Port Hybrid Backplane for 4xSAS4/SATA3 and 4xHybrid Device

Cable

Part Number	CBL-MCIO-1218M5-1	CBL-SAST-1261-100	CBL-0071L	CBL-PWCD-0160-IS	CBL-PWEX-1078
Qty	1	1	1	2	3
Description	MCIO x8 (STR to STR),18CM,85OHM,RoHS	Slimline x8 (STR) to 2x Slimline x4 (STR),60/60CM,100 O	ROUND 16 TO 16 PIN RIBBON FP CABLE 30"L, LF	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH	PWEX,FAN,1X4/P2.5 TO 1X4/P2.54,20CM,22AWG,5A/PIN,RoHS

Manual

Part Number	MNL-2492-QRG
Qty	1
Description	521E-WR Quick Reference Guide

Power Supply

Part Number	PWS-1K03A-1R
Qty	2
Description	1U 1000W Redundant Power Supply Titanium W/PMbus 76x40x336mm,RoHS/REACH

Riser Card

Part Number	RSC-W2-66G5	RSC-W2R-88G5
Qty	1	1
Description	2U LHS WIO Riser card with two PCIe 5.0 X16 slots,HF,Ro	2U RHS WIO Riser card with two PCIe 5.0 X8 slots,HF,Ro

Software

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

Heatsink / Retention

Part Number	SNK-P0088P
Qty	1
Description	2U Passive CPU HS for X13 Intel Eagle Stream Platform

* Power Distributor

Part Number	PDB-PT825-8824
Qty	1
Description	SC825 24PIN REDUNDANT POWER DISTRIBUTOR

* 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-FP836-D
Qty	1
Description	Front control board Dual color LED(FP836-D)forSC823M,825,825

* Drive Tray(s)

Part Number	MCP-220-00023-01	MCP-220-00075-0B	MCP-220-82502-0B	MCP-290-82607-0N
Qty	1	8	2	1
Description	Black USB dummy tray support 1x 2.5" slim HDD for SC825, 836	Black gen 5.5 hot-swap 3.5" HDD tray	Black fixed 3.5" HDD tray or FDD dummy tray	826B/216B rear dummy cover for 2 X 2.5

* Rear Window

Part Number	MCP-240-82516-0N
Qty	1
Description	SC825B2 WJO rear window for top load RSC bracket

* 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

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

2x 2.5" SATA/SAS Cage (Rear)

Part Number	MCP-220-82616-0N /products/accessories/drivekit/MCP-220-82616-0N.php . Store (https://store.supermicro.com/mcp-220-82616-0n-rear-drive-kit.html)
Qty	1
Description	Rear hot-swap 2x 2.5" SATA/SAS drive kit

3.5" to 2.5" Converter Tray(s)

Part Number	MCP-220-00043-0N eStore (https://store.supermicro.com/mcp-220-00043-0n.html).	
Qty	-	
Description	Hot-swap Gen-4 3.5" to 2.5" HDD tray, Black	
3.5" to 2.5" NVMe Drive Tray(s)		
Part Number	MCP-220-00138-0B eStore (https://store.supermicro.com/mcp-220-00138-0b.html).	
Qty	-	
Description	Tool-less Hot-swap Gen-5.5 NVMe 3.5" to 2.5" drive tray, Orange tab, Black	
CacheVault		
Part Number	BTR-CVPM05 + MCP-240-00127-0N (For S3908)	BTR-CVPM05 + MCP-240-00203-0N (For S3908)
Qty	1	1
Description	SuperCap mounting bracket for internal fixed bay	SuperCap mounting bracket for PCIe location
DVD-ROM / DVD-RW		
Part Number	DVM-TEAC-DVD-SBT5	DVM-TEAC-DVDRW-SBT5
Qty	1	1
Description	TEAC slim DVD-ROM SATA drive	PHILIPS slim DVD-RW SATA drive
DVD-ROM Accessory		
Part Number	MCP-220-81502-0N eStore (https://store.supermicro.com/dvd-mounting-kit-mcp-220-81502-0n.html).	
Qty	1	
Description	Slim SATA DVD mounting kit	
Front Bezel		
Part Number	MCP-210-82503-0B eStore (https://store.supermicro.com/front-bezel-mcp-210-82503-0b.html).	
Qty	1	
Description	Black Front Bezel	
Intel VROC RAID Key for NVMe		
Part Number	AOC-VROCPREMOD (https://store.supermicro.com/supermicro-vroc-premium-module.html).	AOC-VROCSTNMOD (https://store.supermicro.com/supermicro-vroc-standard-module-1.html).
Qty	1	1
Description	Premium Upgrade module (Intel + 3rd party Vendor SSD); RAID 0/1/10/5	Standard Upgrade module (Intel + 3rd party Vendor SSD); RAID 0/1/10
NVMe Cable (Drive Bay 0-1)		
Part Number	CBL-MCIO-1227M5 eStore (https://store.supermicro.com/mcio-x8-str-to-str-27cm-30awg-85ohm-rohs.html).	
Qty	1	
Description	MCIO (x8 to x8) STR,27CM,85 OHM	
NVMe Cable (Drive Bay 2-3)		
Part Number	CBL-MCIO-1260M5 eStore (https://store.supermicro.com/mcio-x8-str-to-x8-str-60cm-30awg-85ohm-rohs.html).	
Qty	1	
Description	MCIO (x8 to x8) STR,60CM,85 OHM	
Software		
Part Number	SFT-DCMS-Single	
Qty	1	
Description	DataCenter Management Package (per node license)	
Storage Control Card and Cable(s)		
Part Number	AOC-S3908L-H8IR-16DD	
Qty	1	
Description	Standard LP, 8 internal ports (12Gb/s) PCIe 4.0 x8, 16HDD; RAID 0, 1, 5, 6, 10, 50, 60	
Storage Control Card and Cable(s) (HBA)		
Part Number	AOC-S3808L-L8IT (https://store.supermicro.com/aoc-s3816L-L16iT_S3808L-L8IT.php).	
Qty	1	
Description	Standard LP, 8 internal ports (12Gb/s) PCIe 4.0 x8, 12HDD; HBA	
TPM		
Part Number	AOM-TPM-9670V-S-O	
Qty	1	
Description	TPM 2.0, vertical form factor, provisioned for server	
WIO Riser Card		
Part Number	RSC-W2-688G5	
Qty	1	
Description	2U LHS WIO Riser card with 1x (PCIe 5.0 x16) and 2x (PCIe 5.0 x8) slots	

