

# UP SuperServer SYS-511E-WR



More details here

## Key Applications

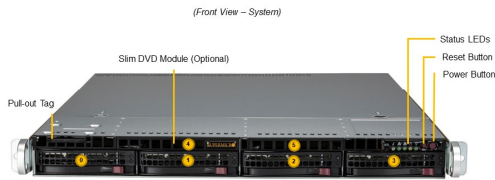
Virtualization, Cloud Computing, Data Center Optimized, Entry GPU server, Value IaaS,

## 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; 1 PCIe 5.0 x8(in x16) LP; 1 PCIe 3.0 x2 NVMe M.2;
- Onboard 1G LAN ports (Intel® i210), 1 dedicated IPMI LAN;
- 4x front hot-swap 3.5" SATA3 drive bays, SAS3 with additional SAS controller card;
- Redundant Now Titanium 860W Power Supplies;

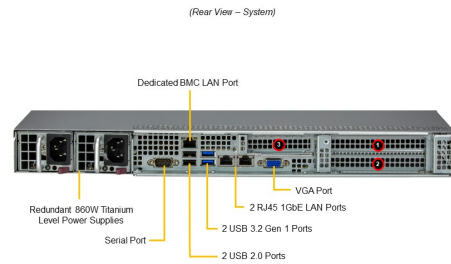


<b>Form Factor</b>	1U Rackmount Enclosure: 437 x 43 x 650mm (17.2" x 1.7" x 25.6") Package: 597 x 216 x 856mm (23.5" x 8.5" x 33.7")
<b>Processor</b>	Single Socket E (LGA-4677) 5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors Up to 52C/104T; Up to 300MB Cache
<b>GPU</b>	Max GPU Count: Up to 1 double-width or 2 single-width GPU(s) Supported GPU: NVIDIA PCIe: L4,A10,RTX A4000,A2 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: PCIe
<b>System Memory</b>	Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 4800MT/s ECC DDR5 RDIMM
<b>Drive Bays</b>	4x 3.5" SATA/SAS drive bays 1x PCIe 3.0 x2 M-key, 2280, 22110
<b>Expansion Slots</b>	2 PCIe 5.0 x16 FHFL slot(s) 1 PCIe 5.0 x8 (in x16) LP slot(s) Note: Acronyms: (FH = Full Height, LP = Low Profile, FL = Full Length, HL = Half Length)
<b>On-Board Devices</b>	SATA: SATA3 (6Gbps); RAID 0/1/5/10 support 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
<b>Input / Output</b>	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)



Drive Bay	Description
0 - 3	3.5" Hot-swap SAS/SATA Drive Bays
4 - 5	2.5" 7mm SAS/SATA Drive Bays** (optional)

\*SAS3 support requires additional parts from the optional parts list  
 \*\* Drive bay 4 or 5 requires additional parts from the optional parts list



Slot	Description
1	PCIe 5.0 x16 FHFL
2	PCIe 5.0 x16 FHFL
3	PCIe 5.0 x8 (m x16) LP

System Cooling	Fans: 1 AOC cooling Fan(s) (optional) 5 middle cooling PWM 40x40x56mm Fan(s)
Power Supply	2x 860W 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: 1.7" (43 mm) Width: 17.2" (437 mm) Depth: 25.6" (650 mm) Gross Weight: 34.5 lbs (15.46 kg) Net Weight: 21.5 lbs (9.75 kg) Packaging: 8.5" (H) x 23.5" (W) x 33.7" (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	<a href="#">Super X13SEW-F</a>
Chassis	CSE-815BTS-R000WNP

## Parts List

### Standard Parts (Parts Included)

#### Motherboard / Chassis

Part Number	MBD-X13SEW-F	CSE-815BTS-R000WNP
Qty	1	1
Description	Super X13SEW-F Motherboard	1U Chassis

#### Backplane

Part Number	BPN-SAS3-815TQ
Qty	1
Description	1U 4-Port 12Gbps Backplane Support 4x3.5

#### Cable

Part Number	CBL-SAST-1275A-100	CBL-0335L	CBL-PWCD-0160-IS
Qty	1	1	2
Description	Slimline x8 (STR) to 4x SATA, P1 75cm, P2 75cm, P3 90cm	FRONT CTL CABLE 20 PIN TO 20 PIN W/TUBE,70CM,PBF	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH

#### Fan

Part Number	FAN-0163L4
Qty	5
Description	40x40x56 mm, 23.3K-20.3K RPM, Counter-rotating Fan

#### Air Shroud

Part Number	MCP-310-81505-0N	MCP-310-81506-0B
Qty	1	1
Description	SC815B/SC116B CPU Plastic Air Shroud for X13SEW	Air block for 1U WIO SC815B with X13SEW

#### Manual

Part Number	MNL-2491-QRG
Qty	1
Description	511E-WR Quick Reference Guide

#### Power Supply

Part Number	PWS-861A-1R	MCP-250-81502-0N
Qty	2	1
Description	1U redundant 800/860W Titanium AC power supply 54.5x40x322mm	SC815 Redundant Power Distributor Cover

#### Riser Card

Part Number	RSC-W-66G5	RSC-WR-6G5
Qty	1	1
Description	1U LHS WIO Riser card with two PCIe 5.0 X16 slots,HF,R	1U RHS WIO Riser card with one PCIe 5.0 X16 slot,HF,Ro

#### Software

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

#### Heatsink / Retention

Part Number	SNK-P0087P
Qty	1
Description	1U Passive CPU HS for X13 Intel Eagle Stream Platform

#### \* Power Distributor

Part Number	PDB-PT116-SL8824
Qty	1
Description	Based on PDB-PT116-L8824 to optimize 24Pin etc cable lengths

#### \* Fan Holder

Part Number	CSE-PT0135	MCP-340-00035-0B
Qty	1	2
Description	FAN HOLDER FOR SIX 40X56MM COUNTER ROTATING FANS	Dummy fan 40x56mm for 40x56 counter-rotating fan (cost-effective)

#### \* Peripheral Drive

Part Number	CSE-PT93L-B
Qty	1
Description	Black DVD dummy cover for SC813, 813M, 815, PBF-RoHS

#### \* Front Panel

Part Number	FPB-FP815U
Qty	1
Description	815 UIO front control board (U)

#### \* Drive Tray(s)

Part Number	MCP-220-00075-0B
Qty	4
Description	Black gen 5.5 hot-swap 3.5" HDD tray

#### \* Rear Window

Part Number	MCP-240-00202-0N
Qty	1
Description	1U WIO rear window to support top-load riser bracket for SC815B,SC116B

#### \* Rail Set

Part Number	MCP-290-00016-0N	MCP-290-00054-0N
Qty	1	1set
Description	1U open rack bracket set for CSE-PTS1L,MCP-290-00054-0N	Rail set, quick/quick, optional for 1U 17.2

#### Notes:

- Parts with \* are inside the chassis
- 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

#### 3.5" to 2.5" Converter Tray(s)

Part Number	MCP-220-00043-0N <a href="https://store.supermicro.com/mcp-220-00043-0n.html">Store (https://store.supermicro.com/mcp-220-00043-0n.html)</a>	
Qty	-	
Description	Hot-swap Gen-4 3.5" to 2.5" HDD tray, Black	
<b>CacheVault</b>		
Part Number	BTR-CV3916-1U1 (For S3908)	BTR-CVPM05 + MCP-240-00203-0N (For S3908)
Qty	1	1
Description	SuperCap kit mounting in 1U 40x56 fan tray	SuperCap mounting bracket for PCIe location
<b>Cooling Fan</b>		
Part Number	FAN-0163L4 <a href="https://store.supermicro.com/40mm-fan-0163l4.html">Store (https://store.supermicro.com/40mm-fan-0163l4.html)</a>	
Qty	1	
Description	40x40x56 mm, 23.3K-20.3K RPM, Counter-rotating Fan	
<b>DVD-ROM / DVD-RW</b>		
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
<b>DVD-ROM Accessory</b>		
Part Number	MCP-220-81502-0N <a href="https://store.supermicro.com/dvd-mounting-kit-mcp-220-81502-0n.html">Store (https://store.supermicro.com/dvd-mounting-kit-mcp-220-81502-0n.html)</a>	
Qty	1	
Description	Slim SATA DVD mounting kit	
<b>Front Bezel</b>		
Part Number	CSE-PTFB-813-02B	CSE-PTFB-813LB
Qty	1	1
Description	Black Front Bezel w/ Round Venting Holes	Black Front Bezel
<b>Hot-swap 2.5" kit (DVD slot)</b>		
Part Number	MCP-220-81506-0N <a href="https://store.supermicro.com/mcp-220-81506-0n-drive-kit.html">Store (https://store.supermicro.com/mcp-220-81506-0n-drive-kit.html)</a>	
Qty	1	
Description	Single 2.5" SAS3 (12Gb/s) hot swap in slim DVD form factor	
<b>Hot-swap 2.5" kit (FDD slot)</b>		
Part Number	MCP-220-81504-0N <a href="https://store.supermicro.com/mcp-220-81504-0n-drive-kit.html">Store (https://store.supermicro.com/mcp-220-81504-0n-drive-kit.html)</a>	
Qty	1	
Description	Single 2.5" SAS3 (12Gb/s) hot swap in slim FDD form factor	
<b>Inlet Thermal Sensor</b>		
Part Number	MCP-280-00033-0N	
Qty	1	
Description	Inlet Thermal sensor kit with 80cm I2C cable	
<b>Intel VROC RAID Key for NVMe</b>		
Part Number	<a href="https://store.supermicro.com/supermicro-vroc-premium-module.html">AOC-VROCPREMOD (https://store.supermicro.com/supermicro-vroc-premium-module.html)</a>	<a href="https://store.supermicro.com/supermicro-vroc-standard-module-1.html">AOC-VROCSTNMOD (https://store.supermicro.com/supermicro-vroc-standard-module-1.html)</a>
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
<b>Software</b>		
Part Number	SFT-DCMS-Single	
Qty	1	
Description	DataCenter Management Package (per node license)	
<b>Storage Control Card and Cable(s)</b>		
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	
<b>Storage Control Card and Cable(s) (HBA)</b>		
Part Number	<a href="https://store.supermicro.com/aoc-s3808l-l8it">AOC-S3808L-L8IT (https://store.supermicro.com/aoc-s3808l-l8it)</a>	
Qty	1	
Description	Standard LP, 8 internal ports (12Gb/s) PCIe 4.0 x8, 122HDD; HBA	
<b>TPM</b>		
Part Number	AOM-TPM-9670V-S-O	
Qty	1	
Description	TPM 2.0, vertical form factor, provisioned for server	

