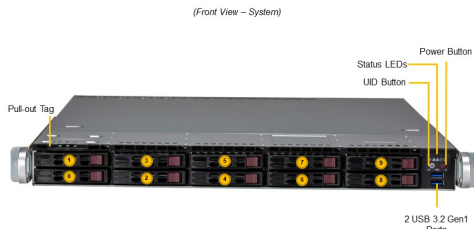# UP SuperServer SYS-111E-WR

Key Applications

Virtualization, Cloud Computing, Data Center Optimized, 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; 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;
- 10x front hot-swap 2.5" SATA3 drive bays (Optional all 10 hybrid Gen5 NVMe), SAS3 with additional SAS controller card;
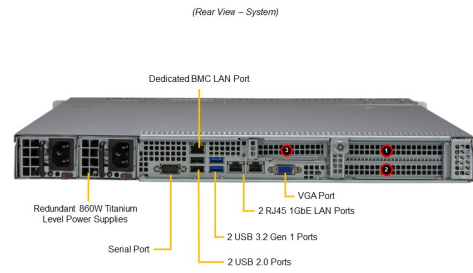- Redundant Now Titanium 860W Power Supplies;

Form Factor	1U Rackmount Enclosure: 437 x 43 x 597mm (17.2" x 1.7" x 23.5") Package: 597 x 197 x 800mm (23.5" x 7.75" x 31.5")
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: L4,A10,RTX A4000,A2 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	10x 2.5" NVMe/SATA/SAS drive bays (10x 2.5" NVMe hybrid) 1x PCIe 3.0 x 2 M-key, 2280, 22110
Expansion Slots	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)
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: 4 USB 3.2 Gen 1 port(s) (2 front; 2 rear) 　　　3 USB 2.0 port(s) (2 rear; 1 Type A) Video: 1 VGA port(s) Serial Port: 2 COM Port(s) (1 header; 1 rear)

(Front View – System)

Pull-out Tag

Status LEDs
Power Button
UID Button

2 USB 3.2 Gen1 Ports

Drive Bay	Description
❶ - ❾	2.5" Hot-swap PCIe 5.0 NVMe*/SAS3*/SATA3 Drive Bays

* NVMe or SAS3 support requires additional parts from the optional parts list

(Rear View – System)

Dedicated BMC LAN Port

Redundant 860W Titanium
Level Power Supplies

Serial Port

VGA Port
2 RJ45 1GbE LAN Ports
2 USB 3.2 Gen 1 Ports
2 USB 2.0 Ports

Slot Description	
❶	PCIe 5.0 x16 FHFL
❷	PCIe 5.0 x16 FHFL
❸	PCIe 5.0 x8 (in 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: 23.5" (597 mm)
Gross Weight: 33.5 lbs (15.2 kg)
Net Weight: 21 lbs (9.53 kg)
Packaging: 7.75" (H) x 23.5" (W) x 31.5" (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-116BTS-R000WNP

Parts List

Standard Parts (Parts Included)

Motherboard / Chassis

Part Number	MBD-X13SEW-F	CSE-116BTS-R000WNP
Qty	1	1
Description	Super X13SEW-F Motherboard	1U Chassis

Backplane

Part Number	BPN-NVME5-LB16A-S10
Qty	1
Description	1U 10-port backplane, 10x SAS3/SATA3/NVME5 for X13 CloudDC

Cable

Part Number	CBL-PWEX-1071	CBL-SAST-1234A-100	CBL-SAST-1261-100	CBL-0335L	CBL-PWCD-0160-IS
Qty	1	1	1	1	2
Description	PWEX,2X4M/P4.2 TO 2X2F/P4.2 x2,BLK*4,YEL*4,15/30CM,16AWG,RoH	SlimSAS x4 (STR) to 4x SATA,65CM,100 OHM,RoHS	Slimline x8 (STR) to 2x Slimline x4 (STR),60/60CM,100 O	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-310-11606-0B
Qty	1	1
Description	SC815B/SC116B CPU Plastic Air Shroud for X13SEW	Air block for 1U WIO SC116B with X13SEW

Manual

Part Number	MNL-2490-QRG
Qty	1
Description	111E-WR Quick Reference Guide

Power Supply

Part Number	PWS-861A-1R	MCP-250-00009-0N
Qty	2	1
Description	1U redundant 800/860W Titanium AC power supply 54.5x40x322mm	SC113 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

*Front Panel

Part Number	FPB-FP116-DU3
Qty	1
Description	Front control board with two USB 3.0 for SC116/SC119X

*Drive Tray(s)

Part Number	MCP-220-00047-0B
Qty	10
Description	Black gen 3rd hot-swap 2.5inch 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-290-00063-0N	MCP-290-00102-0N	MCP-290-00108-0N	MCP-290-00112-0N
Qty	1	1set	1 set	1 set	1 set
Description	1U open rack bracket set for CSE-PT51L,MCP-290-00054-0N	Rail set, quick/quick, default for 1U 17.2"W for SC113/SC116,RoHS/REACH	Outer rail, quick-release type, 25.6	Inner rail, front, short, quick-release type	Inner rail, extension, long (quick) for 1U 17.2W chassis

*Fan Holder

Part Number	MCP-320-00027-0B	MCP-320-00028-0B	MCP-340-00035-0B
Qty	24	1	2
Description	Plastic pin for 40x28, 40x56 fan	Fan holder for 6pcs 40x56 fan, assemble-able for SC819/SC119/SC818/SC116	Dummy fan 40x56mm for 40x56 counter-rotating fan (cost-effective)

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

CacheVault

Part Number	BTR-CV3916-1U1 (For S3908/S3916)	BTR-CVPM05 + MCP-240-00203-0N (For S3908/S3916)
Qty	1	1
Description	SuperCap kit mounting in 1U 40x56 fan tray	SuperCap mounting bracket for PCIe location

Cooling Fan

Part Number	FAN-0163L4 • eStore (https://store.supermicro.com/40mm-fan-0163l4.html)
Qty	1
Description	40x40x56 mm, 23.3K-20.3K RPM, Counter-rotating Fan

Front Bezel

Part Number	MCP-210-11601-0B
Qty	1
Description	Black Front Bezel

Inlet Thermal Sensor

Part Number	MCP-280-00033-0N
Qty	1
Description	Inlet Thermal sensor kit with 80cm I2C cable

Intel VROC RAID Key for NVMe

Part Number	AOC-VROCSTNMOD (/products/accessories/addon/AOC-VROCxxxMOD.php) *e*Store (https://store.supermicro.com/supermicro-vroc-standard-module-1.html)	AOC-VROCPREMOD (/products/accessories/addon/AOC-VROCxxxMOD.php) *e*Store (https://store.supermicro.com/supermicro-vroc-premium-module.html)
Qty	1	1
Description	Standard Upgrade module (Intel + 3rd party Vendor SSD); RAID 0/1/10	Premium Upgrade module (Intel + 3rd party Vendor SSD); RAID 0/1/10/5

NVMe Cable (Drive Bay 0-1)

Part Number	CBL-MCIO-1265M5 *e*Store (https://store.supermicro.com/mciox8-str-to-mciox8-str-65cm-30awg-rohs.html)
Qty	1
Description	MCIO (x8 to x8) STR,65CM,85 OHM

NVMe Cable (Drive Bay 2-3)

Part Number	CBL-MCIO-1326M5 *e*Store (https://store.supermicro.com/mcio-x8-to-x8-str-26cm-g5-32awg-rohs-rohs.html)
Qty	1
Description	MCIO (x8 to x8) STR,26CM,85 OHM

NVMe Cable (Drive Bay 4-5)

Part Number	CBL-MCIO-1340M5-1 *e*Store (https://store.supermicro.com/cbl-mcio-1340m5-1-mcio-40cm-cable.html)
Qty	1
Description	MCIO (x8 to x8) STR,40CM,85 OHM

NVMe Cable (Drive Bay 6-9)

Part Number	CBL-MCIO-1240AM5-X *e*Store (https://store.supermicro.com/mcio-x8-to-x8-str-40cm-lnrv-85ohm-rohs.html)
Qty	2
Description	MCIO (x8 to x8) STR,40CM,LNRV,85 OHM

NVMe Drive Tray(s)

Part Number	MCP-220-00167-0B *e*Store (https://store.supermicro.com/mcp-220-00167-0b.html)
Qty	10
Description	Tool-less Hot-swap Gen-3 NVMe drive tray, Orange tab, Black

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	AOC-S3916L-H16iR-32DD + 1x CBL-SAST-1265F-100
Qty	1	1
Description	Standard LP, 8 internal ports (12Gb/s) PCIe 4.0 x8, 16HDD; RAID 0, 1, 5, 6, 10, 50, 60	Standard LP, 16 internal ports (12Gb/s) PCIe 4.0 x8, 32HDD; RAID 0, 1, 5, 6, 10, 50, 60

Storage Control Card and Cable(s) (HBA)

Part Number	AOC-S3816L-L16iT + 1x CBL-SAST-1265F-100	AOC-S3808L-L8iT (/products/accessories/addon/AOC-S3816L-L16iT_S3808L-L8iT.php)
Qty	1	1
Description	Standard LP, 16 internal ports (12Gb/s) PCIe 4.0 x8, 122HDD; HBA	Standard LP, 8 internal ports (12Gb/s) PCIe 4.0 x8, 122HDD; HBA

TPM

Part Number	AOM-TPM-9670V-S-O
Qty	1
Description	TPM 2.0, vertical form factor, provisioned for server