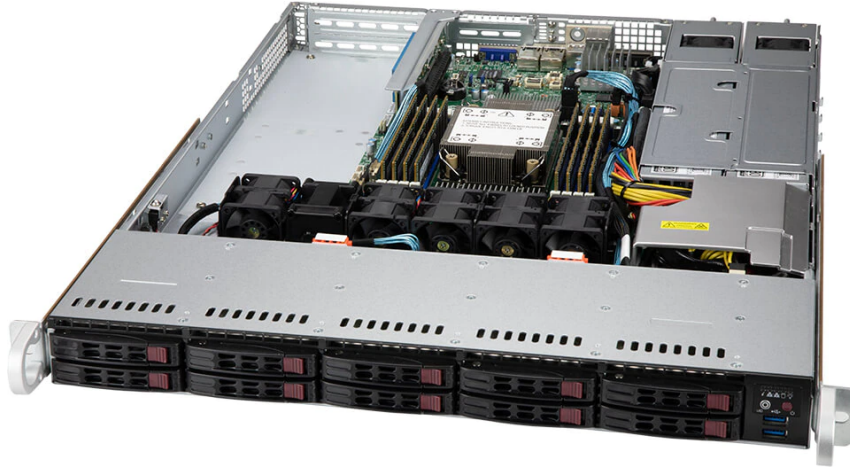


UP SuperServer SYS-110P-WTR

NEW



Key Applications

- Virtualization
- Cloud Computing
- Enterprise Server
- Data Center Optimized
- Database Processing and Storage



Key Features

1. Single Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors. Up to 270W TDP.
2. 8 DIMMs; Supports 3DS DDR4-3200: RDIMM/LRDIMM/Intel® DCPMM
3. 2 PCI-E 4.0 x16 (FHFL) slots, 1 PCI-E 4.0 x16 (LP) slot
4. Intel® Ethernet Controller X550 2x 10GbE RJ45
5. 10x hot-swap 2.5" SATA3 drive bays with 4 hybrid NVMe/SATA drive bays, SAS3 with additional SAS controller card; Onboard 1x NVMe/SATA M.2
6. Redundant Platinum 750W Power Supply

Specifications

Product SKUs

- SYS-110P-WTR** ■ SuperServer SYS-110P-WTR (Black)

Motherboard

Super X12SPW-TF

Processor

- CPU** ■ Single Socket P+ (LGA 4189)
 ■ Support Intel® 3rd Gen Xeon® Scalable Processors
 ■ Support CPU TDP 270W

- Cores** ■ Up to 36C/72T; Up to 60MB Cache

System Memory

- Memory** ■ Memory Capacity: 8 DIMM slots
 ■ Up to 2TB: 8x 256 GB DRAM
 ■ Up to 3TB: 4x 256 GB DRAM and 4x 512 GB PMem
 ■ Memory Type: 3200/2933/2666MHz ECC DDR4 RDIMM;LRDIMM
 ■ Intel® Optane™ persistent memory 200 series

- Memory Voltage** ■ 1.25 V

- Error Detection** ■ Yes

On-Board Devices

- NVMe** ■ NVMe; RAID 0/1/5/10 support

- SATA** ■ SATA3 (6Gbps); RAID 0/1/5/10 support

- Chipset** ■ Intel® C621A

- Network Connectivity** ■ 2x 10GbE BaseT with Intel® X550

- 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** ■ 1 RJ45 Dedicated IPMI LAN port
 ■ 2 RJ45 10GBase-T LAN ports

- USB** ■ 4 USB 3.2 Gen 1 port(s) (2 front; 2 rear)
 ■ 3 USB port(s) (2 headers; 1 Type A)
 ■ 2 USB 2.0 port(s) (2 rear)

- Video** ■ 1 VGA 2 port(s)

- Serial Port** ■ 2 COM Port(s) (1 header; 1 rear)

Chassis

- Form Factor** ■ 1U Rackmount

- Model** ■ CSE-116TS-R706WBP4

Dimensions and Weight

- Height** ■ 1.7" (43mm)

- Width** ■ 17.2" (437mm)

- Depth** ■ 23.5" (597mm)

- Package** ■ 8" (H) x 24" (W) x 32" (D)

- Weight** ■ Net Weight: 25 lbs (11.34 kg)
 ■ Gross Weight: 38 lbs (17.24 kg)

- Available Color** ■ Black

Front Panel

- Buttons** ■ Power On/Off
 ■ UID button

- LEDs** ■ Device Activity
 ■ LAN 1 Activity
 ■ LAN 2 Activity
 ■ Power status
 ■ System information

Expansion Slots

- PCI-Express (PCI-E)** ■ Slot 1: PCI-E 4.0 x16 FHFL
 ■ Slot 2: PCI-E 4.0 x16 FHFL
 ■ Slot 3: PCI-E 4.0 x16 LP

Drive Bays / Storage

- Drive Bays** ■ 10x 2.5" SATA drive bays (4x 2.5" NVMe hybrid)

- M.2** ■ 1x PCI-E 3.0 x 4 and SATA
 ■ M-key, 2280, 22110

System Cooling

- Fans** ■ 1 AOC cooling Fan(s) (optional)
 ■ 5 counter-rotation PWM 40x40x56mm Fan(s)

Power Supply

1U 750W redundant power width 54.5mm

- Total Output Power** ■ 750W

- Dimension (W x H x L)** ■ 54.5 x 40.25 x 320 mm

- AC Input** ■ 750W: 100-240Vac / 3.8A-8A / 50-60Hz

- +12V** ■ Max: 62A / Min: 0.5A

- 5V SB** ■ Max: 3A / Min: 0A

- Output Type** ■ Gold Finger Connector

DOM	<ul style="list-style-type: none"> ■ 2 SuperDOM (Disk on Module) port with built-in power
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System BIOS

BIOS Type	<ul style="list-style-type: none"> ■ AMI 32MB SPI Flash EEPROM
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Management

Software	<ul style="list-style-type: none"> ■ <u>IPMI2.0</u> ■ Redfish API ■ <u>SSM</u> ■ <u>SPM</u> ■ KVM with dedicated LAN ■ <u>SUM</u> ■ NMI
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Power Configurations	<ul style="list-style-type: none"> ■ ACPI/APM Power Management
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PC Health Monitoring

CPU	<ul style="list-style-type: none"> ■ 7+1 Phase-switching voltage regulator ■ Monitors for CPU Cores, Chipset Voltages, Memory
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FAN	<ul style="list-style-type: none"> ■ Fans with tachometer monitoring ■ Pulse Width Modulated (PWM) fan connectors ■ Status monitor for speed control
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Temperature	<ul style="list-style-type: none"> ■ Monitoring for CPU and chassis environment ■ Thermal Control for fan connectors
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Certification		Platinum Level
[Test Report]		

Operating Environment

Environmental Spec.	<ul style="list-style-type: none"> ■ Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) ■ Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) ■ Operating Relative Humidity: 8% to 90% (non-condensing) ■ Non-operating Relative Humidity: 5% to 95% (non-condensing)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X12SPW-TF	1	Super X12SPW-TF Motherboard
	CSE-116TS-R706WBP4	1	1U Chassis
Backplane	BPN-SAS3-LB16A-N10	1	1U 10-Slot SFF Hybrid Backplane Supports 10xSAS3/SATA3/NVMe4 Storage Devices with 1x(2x4) + 2x(1x4) + 1x(2x2) Power Connectors
Cable 1	CBL-SAST-1234A-100	1	SlimSAS x4 (STR) to 4x SATA,65CM,100 OHM,RoHS
Cable 2	CBL-SAST-1285-100	2	Slimline x4 (STR) to MiniSAS HD (STR) x4,85CM,100 OHM,R
FAN 1	FAN-0141L4	1	40x40x56 mm 20.5K RPM / 17.6K RPM Counter-rotating Fan
Manual	MNL-2265-QRG	1	110P-WTR Quick Reference Guide
Riser Card	RSC-W-66G4	1	1U LHS WIO Riser card with two PCI-E 4.0 x16 slots,HF,RoHS
Riser Card	RSC-WR-6	1	1U RHS WIO Riser card with one PCI-E 4.0 x16 slot,HF,RoHS
Software	SFT-OOB-LIC	1	License key for enabling OOB BIOS management
Heatsink / Retention	SNK-P0077P	1	1U Passive CPU Heat Sink for X12 Generation Intel Whitley and Cedar Island Platforms
*Power Supply	PWS-706P-1R	2	1U 750W redundant power width 54.5mm(Platinum),HF,RoHS/REACH,PBF
*Power Distributor	PDB-PT112-S2424	1	WIO X11 Support,PDB-PT112-S2424 is based on PDB-PT112-2424
*Cable 3	CBL-0160L	2	US POWER CORD 16AWG, PB FREE
*Cable 4	CBL-0335L	1	FRONT CTL CABLE 20 PIN TO 20 PIN W/TUBE,70CM,PBF
*FAN 2	FAN-0141L4	4	40x40x56 mm 20.5K RPM / 17.6K RPM Counter-rotating Fan
*Front Panel	FPB-FP116-DU3	1	Front control board with two USB 3.0 for SC116/SC119X
*Parts	MCP-120-00029-0N	2	Blank FH L bracket without SCSI cutout for SC815,823
*Parts	MCP-120-00030-0N	1	Blank LP L-bracket (1 raw of capsule hole)
*Drive Tray(s)	MCP-220-00047-0B	10	Black gen 3rd hot-swap 2.5inch HDD tray
*Rear Window	MCP-240-00098-0N	1	WIO rear window for SC113,SC116, SC815 Redundant PWS
*Power Supply	MCP-250-00009-0N	1	SC113 Redundant Power Distributor Cover
*Rail Set	MCP-290-00063-0N	1set	Rail set, quick/quick, default for 1U 17.2"W for SC113/SC116,RoHS/REACH
*Air Shroud	MCP-310-19002-0N	1	SC815/113/116 Intel DP X9, X8 PC air shroud, 12x13MB
*Fan Holder	MCP-320-00027-0B	24	Plastic pin for 40x28, 40x56 fan
*Fan Holder	MCP-320-00028-0B	1	Fan holder for 6pcs 40x56 fan, assemble-able for SC819/SC119/SC818/SC116
*Fan Holder	MCP-340-00035-0B	2	Dummy fan 40x56mm for 40x56 counter-rotating fan (cost-effective)

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

	Part Number	Qty	Description
Add-on Card for additional M.2	<u>AOC-SLG3-2H8M2</u>	-	Standard LP, PCI-E 3.0 x8, supports 2x NVMe/SATA M-Key M.2 Modules; RAID 0,1

CacheVault	BTR-TFM8G-LSICVM02 + BKT-BBU-BRACKET-05 (For S3108)	1	CacheVault for Broadcom 3108 with SuperCap mounting bracket for PCI-E location
	BTR-CVPM05 + BKT-BBU-BRACKET-05 (For S3908/S3916)	1	CacheVault for Broadcom 3908/3916 with SuperCap mounting bracket for PCI-E location
	BTR-CV3108-1U1 (For S3108)	1	CacheVault for Broadcom 3108 with SuperCap mounting in 1U 40x56 fan tray
Cooling Fan	FAN-0141L4 • <i>eStore</i>	1	40x40x56 mm, 20.5K RPM / 17.6K RPM, Counter-rotating Fan
Front Bezel	MCP-210-11601-0B	1	Black Front Bezel
Inlet Thermal Sensor	MCP-280-00033-0N	1	Universal Thermal sensor kit with 80cm I2C cable
Intel VROC RAID Key for NVMe	<u>AOC-VROCPREMOD</u>	1	Premium Upgrade module (Intel + 3rd party Vendor SSD); RAID 0/1/10/5
	<u>AOC-VROCSTNMOD</u>	1	Standard Upgrade module (Intel + 3rd party Vendor SSD); RAID 0/1/10
	<u>AOC-VROCINTMOD</u>	1	Intel SSD Only Upgrade module; RAID 0/1/10/5
NVMe Cable(s)	CBL-SAST-1231-85	-	Slimline x8 (STR) to Slimline x8 (STR),INT,30CM, 85 OHM
NVMe Drive Try(s)	MCP-220-00167-0B • <i>eStore</i>	-	Tool-less Hot-swap Gen-3 NVMe drive tray, Orange tab, Black
Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)
Storage Control Card and Cable(s)	AOC-S3916L-H16iR-32DD + 2x CBL-SAST-1261-100	1	Standard LP, 16 internal ports (12Gb/s) PCI-E 4.0 x8, 32HDD; RAID 0, 1, 5, 6, 10, 50, 60
	AOC-S3908L-H8iR-16DD + 1x CBL-SAST-1261-100	1	Standard LP, 8 internal ports (12Gb/s) PCI-E 4.0 x8, 16HDD; RAID 0, 1, 5, 6, 10, 50, 60
	<u>AOC-S3108L-H8iR-16DD</u>	1	Standard LP, 8 Internal ports (12Gb/s) PCI-E 3.0 x8, 16HDD; RAID 0, 1, 5, 6, 10, 50, 60
	<u>AOC-S3008L-L8I</u>	1	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 63HDD; RAID 0, 1, 10
Storage Control Card and Cable(s) (HBA)	AOC-S3816L-L16IT + 2x CBL-SAST-1261-100	1	Standard LP, 16 internal ports (12Gb/s) PCI-E 4.0 x8, 122HDD; HBA
	<u>AOC-S3808L-L8IT</u> + 1x CBL-SAST-1261-100	1	Standard LP, 8 internal ports (12Gb/s) PCI-E 4.0 x8, 122HDD; HBA
	<u>AOC-S3008L-L8E</u>	1	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 122HDD; HBA
TPM	AOM-TPM-9670V-O	1	TPM 2.0, vertical form factor, provisioned for server
	AOM-TPM-9671V-O	1	TPM 1.2, vertical form factor, provisioned for server