

UP SuperServer SYS-110T-M



Form Factor

1U Rackmount
Enclosure: 437 x 43 x 507mm (17.2" x 1.7" x 19.98")
Package: 609.6 x 215.9 x 749.3mm (24" x 8.5" x 29.5")

Processor

Support Intel® Xeon® E-2300 series Processors and 10th Gen. Pentium® Processors
Single Socket LGA 1200 (Socket H5) supported
TDP up to 95W;

System Memory

4 DIMM slots
ECC UDIMM, DDR4-3200MHz

Drive Bays

8x 2.5" SATA drive bays;

Expansion Slots

Slot 1: PCIe 4.0 x16 or x8 (FHHL)
Slot 2: PCIe 4.0 x0 or x8 (LP) [Auto Switch with Slot 1]
Slot 3: Dedicated Internal HBA Slot
(Pentium CPUs provide PCI-e 3.0 only.)

On-Board Devices

SATA: SATA3 (6Gbps); RAID 0/1/5/10 support (Port 0-5)
Chipset: Intel® C256
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: 8 SATA (6Gbps) port(s)
LAN: 2 RJ45 1GbE LAN ports
1 RJ45 Dedicated IPMI LAN port
USB: 6 USB 2.0 port(s) (2 rear; 4 headers)
5 USB 3.2 Gen 1 port(s) (2 rear; 2 headers; 1 Type A)
Video: 1 VGA port(s)
Serial Port: 2 COM Port(s) (1 header; 1 rear)

Key Applications

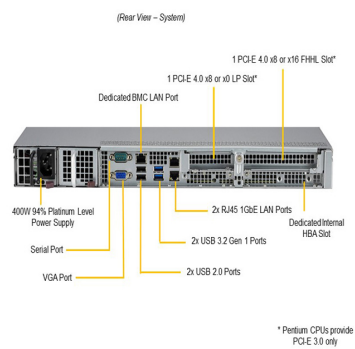
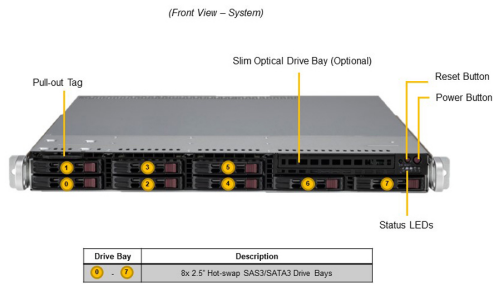
Web/Hosting Application
Database Processing and Storage
Encoding Decoding

Key Features

- Single Socket H5 (LGA-1200) supports Intel® Xeon® E-2300 series, Intel® Pentium® processors;
- 4 DIMMs; Up to 128GB of DDR4 ECC UDIMM memory with speeds of up to 3200MHz;
- 1 PCI-E 4.0 x16 or 2 PCI-E 4.0 x8 (FHHL); 1 Dedicated Internal HBA slot;
- Intel® Ethernet Controller i210 2x 1GbE RJ45;
- 8x Hot-swap 2.5" SATA3 drive bays, SAS3 w/ additional SAS controller card; Onboard 1x NVMe M.2;
- Default single Platinum 400W Power Supply; Optional redundant power by adding 1x Power Supply Module;

[More details here](#)





Cooling System	4x (4cm x 4cm x 2.8cm) heavy duty fan(s) 4x (4cm x 4cm x 2.8cm) heavy duty fan(s)
Power Supply	AC and DC 240V Input, 400W, Platinum Level, Redundancy power supply meet PMBus Revision 1.2 requirement,RoHS/REACH Dimension (W x H x L): 54.5 x 40.25 x 220 mm Output Type: Gold Finger Connector
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	NMI; SUM; KVM with dedicated LAN; SPM; Intel® Node Manager; SSM; Redfish API; IPMI2.0
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory 6 + 2 + 1 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: 19.98" (507 mm) Gross Weight: 30.4 lbs (13.8 kg) Net Weight: 17.6 lbs (8 kg) Packaging: 8.5" (H) x 24" (W) x 29.5" (D) Available Color: Black
Operating Environment	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)
Motherboard	Super X12STH-SYS
Chassis	CSE-113MFTS-407RCBP-1P

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X12STH-SYS	1	Super X12STH-SYS Motherboard
	CSE-113MFTS-407RCBP-1P	1	1U Chassis
Backplane	BPN-SAS3-113A-N2	1	8-port 1U SAS3 12Gbps Hybrid backplane, support up to 6x2.5-inch SAS3/SATA3 HDD/SSD and 2x SAS3/SATA3 Storage Devices
Cable 1	CBL-0296L	1	9" 4 PIN FAN PWS EXTENSION CORD, PBF
Cable 2	CBL-SAST-0568	1	Internal Mini-SAS HD to Mini-SAS HD 35cm,30AWG,12Gb/s
Cable 3	CBL-SAST-0631	1	Cross-over Mini SAS HD to 4 SATA w/SB, S. 55cm. 30AWG
Air Shroud	MCP-310-81307-0B	1	Mylar Air Shroud for SC813MF2/SC113MF_RCB with X12STH
Manual	MNL-2421-QRG	1	110T-M Quick Reference Guide
Riser Card	Proprietary Riser Card	1	1U RHS Standard Riser card with one PCI-E 4.0 X16 and one PC
Software	SFT-OOB-LIC	1	License key for enabling OOB BIOS management
Heatsink / Retention	Proprietary Heatsink	1	Proprietary 1U Passive CPU HS, Rocket Lake (SKT-H5 LGA-1200)
*Power Supply	PWS-407P-1R	1	AC and DC 240V Input, 400W, Platinum Level, Redundancy power supply meet PMBus Revision 1.2 requirement,RoHS/REACH
*Power Distributor	PDB-PT813M-S2424	1	Power distributor with shorter 24pin for SC813M chassis
*Cable 4	CBL-0335L	1	FRONT CTL CABLE 20 PIN TO 20 PIN W/TUBE,70CM,PBF
*Cable 5	CBL-PWCD-0160-IS	1	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,16AWG,RoHS/REACH
*FAN 1	FAN-0154L4	4	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan,RoHS/REACH
*Front Panel	FPB-FP112	1	Front control board for SC113,113M (U/C share
*Drive Tray(s)	MCP-220-00047-0B	8	Black gen 3rd hot-swap 2.5inch HDD tray
*Rear Window	MCP-240-00195-0N	1	Non-C Rear window Assy for SC813MF2/SC113MF_RCB redundant PWS
*Power Supply	MCP-250-00016-0V	1	Redundant Silver plastic PDB cover for SC813M,113M
*Power Supply	MCP-250-00018-0N	1	PWS dummy cover for 1U redundant power supply w/ handle (54.5mm wide)
*Peripheral Drive1	MCP-290-00036-0B	1	Black DVD dummy tray support 1x2.5 HDD for SC113,815,825,836
*Parts	MCP-290-00037-0N	1	SC113 Control panel module (w/o DVD)
*Rail Set	MCP-290-00102-0N	1	Outer rail, quick-release type, 25.6\ to 33.05"
*Rail Set	MCP-290-00108-0N	1 set	Inner rail, front, short, quick-release type
*Rail Set	MCP-290-00110-0N	1	Inner rail, extension (quick) for 1U 17.2
*Fan Holder	MCP-320-00060-0N	1	Slim Fan tray for six 40x28 fans in SC813M (for X11DPL-i 12"x10.15")
*Parts	MCP-340-00001-01	2	Dummy fan 40x28mm

- 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-CV3108-U1 + MCP-240-81305-0N (For S3108)	1	CacheVault for Broadcom 3108 with SuperCap mounting bracket for internal fixed location
	BTR-L3-00099-02 + MCP-240-81305-0N (For S3908)	1	CacheVault for Broadcom 3908 with SuperCap mounting bracket for internal fixed location
Cooling Fan(s)	FAN-0154L4 •eStore	-	40x40x28 mm, 22.5K RPM, Middle Cooling Fan
DVD-ROM / DVD-RW	DVM-TEAC-DVD-SBT5	1	TEAC slim DVD-ROM SATA drive
	DVM-TEAC-DVDRW-SBT5	1	PHILIPS slim DVD-RW SATA drive
DVD-ROM Accessory	CDM-USATA-G + 1x CBL-0341L	1	Slim SATA DVD USB adapter & USB Cable
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
Power Supply	PWS-407P-1R •eStore	1	Optional redundant power supply
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)
Storage Control Card and Cable(s)	<u>AOC-S3108L-H8iR-16DD</u> + 1x CBL-SAST-0568 •eStore	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> + 1x CBL-SAST-0568 •eStore	1	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 63HDD; RAID 0, 1, 10
	AOC-S3908L-H8iR-16DD + 1x CBL-SAST-1264-100	1	Standard LP, 8 internal ports (12Gb/s) PCI-E 4.0 x8, 16HDD; RAID 0, 1, 5, 6, 10, 50, 60
Storage Control Card and Cable(s) (HBA)	<u>AOC-S3008L-L8E</u> + 1x CBL-SAST-0568 •eStore	1	Standard LP, 8 internal ports (12Gb/s) PCI-E 3.0 x8, 122HDD; HBA
	<u>AOC-S3808L-L8IT</u> + 1x CBL-SAST-1264-100	1	Standard LP, 8 internal ports (12Gb/s) PCI-E 4.0 x8, 122HDD; HBA
TPM	AOM-TPM-9671H-O	1	TPM 1.2, horizontal form factor
	AOM-TPM-9670H-O	1	TPM 2.0, horizontal form factor