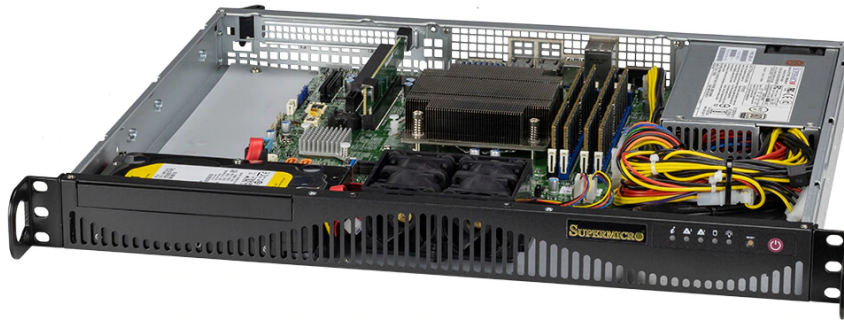


UP SuperServer SYS-510T-ML

NEW

Key Applications

- General Purpose
- Front-end, Web Hosting
- Entry Appliance

Key Features

1. Single Socket H5 (LGA-1200) supports Intel® Xeon® E-2300 series, Intel® Pentium® processors
2. 4 DIMMs; Up to 128GB of DDR4 ECC UDIMM memory with speeds of up to 3200MHz
3. 1 PCI-E 4.0 x8 (in x16 FHHL)
4. Intel® Ethernet Controller i210 2x 1GbE RJ45
5. 1 Fixed 3.5" drive support (default); Up to 2 Fixed 3.5" drives or 3 Fixed 2.5" drives (opt.); Onboard 1x NVMe M.2
6. Single Platinum 350W Power Supply

Specifications

Product SKUs

SYS-510T-ML	▪ SuperServer SYS-510T-ML (Black)
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Motherboard

Super X12STL-F

Processor

CPU	▪ Single Socket H5 (LGA 1200) ▪ Support Intel® Xeon® E-2300 series Processors and 10th Gen. Pentium® Processors ▪ Support CPU TDP 95W
Cores	▪ Up to 8C/16T; Up to 16MB Cache

System Memory

Memory	▪ Memory Capacity: 4 DIMM slots ▪ Up to 128GB: 4x 32 GB DRAM ▪ Memory Type: 3200/2933/2666MHz ECC DDR4 UDIMM
Memory Voltage	▪ 1.2 V
Error Detection	▪ Yes

On-Board Devices

SATA	▪ SATA3 (6Gbps); RAID 0/1/5/10 support
Chipset	▪ Intel® C252
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	▪ 6 SATA (6Gbps) port(s)
LAN	▪ 1 RJ45 Dedicated IPMI LAN port ▪ 2 RJ45 1GbE LAN ports
USB	▪ 4 USB 2.0 port(s) (2 headers; 2 rear) ▪ 5 USB 3.2 Gen 1 port(s) (2 headers; 2 rear; 1 Type A)
Video	▪ 1 VGA port(s)
Serial Port	▪ 2 COM Port(s) (1 header; 1 rear)
DOM	▪ 2 SuperDOM (Disk on Module) port with built-in power

System BIOS

BIOS Type	▪ AMI 32MB SPI Flash EEPROM
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Chassis

Form Factor	▪ Mini-1U
Model	▪ CSE-512F-350B1

Dimensions and Weight

Height	▪ 1.7" (43mm)
Width	▪ 17.2" (437mm)
Depth	▪ 14.5" (368mm)
Package	▪ 6.3" (H) x 22" (W) x 20" (D)
Weight	▪ Net Weight: 11 lbs (4.99 kg) ▪ Gross Weight: 14 lbs (6.35 kg)
Available Color	▪ Black

Front Panel

Buttons	▪ Power On/Off ▪ System Reset
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 x8 (in x16 FHHL) (Pentium CPUs provide PCI-e 3.0 only.)
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Drive Bays / Storage

Drive Bays	▪ 2x 3.5" SATA drive bays
M.2	▪ 1x PCI-E 3.0 x 4 ▪ M-key, 2280, 22110

System Cooling

Fans	▪ 2 counter-rotation PWM 40x40x56mm Fan(s)
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Power Supply

1U 350W Multi-output, Platinum level, W100xL180xH40mm,RoHS/REACH	
Total Output Power	▪ 350W
Dimension (W x H x L)	▪ 100 x 40 x 180 mm
AC Input	▪ 350W: 100-240Vac / 2.5A-5A / 50-60Hz
+12V	▪ Max: 29A / Min: 0.5A
5V SB	▪ Max: 3A / Min: 0A

Management

Software	■ IPMI2.0 ■ Redfish API ■ SSM ■ SPM ■ KVM with dedicated LAN ■ SUM ■ NMI
Power Configurations	■ ACPI/APM Power Management

PC Health Monitoring

CPU	■ 6 + 1 Phase-switching voltage regulator ■ Monitors for CPU Cores, Chipset Voltages, Memory
FAN	■ Fans with tachometer monitoring ■ Pulse Width Modulated (PWM) fan connectors ■ Status monitor for speed control
Temperature	■ Monitoring for CPU and chassis environment ■ Thermal Control for fan connectors

Certification		Platinum Level
[Test Report]		
Operating Environment		
Environmental Spec.	■ 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)	

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X12STL-F	1	Super X12STL-F Motherboard
	CSE-512F-350B1	1	Mini-1U Chassis
Rear Window	MCP-240-00091-0N	2	1U universal riser card bracket for standard chassis,HF,RoHS/REACH,PBF
Manual	MNL-2420-QRG	1	510T-ML Quick Reference Guide
Riser Card	RSC-S-6G4	1	1U LHS Standard riser card with one PCI-E 4.0 x16 slot,HF,Ro
Software	SFT-OOB-LIC	1	License key for enabling OOB BIOS management
Heatsink / Retention	SNK-P0049P	1	1U Passive Enhanced Performance CPU Heat Sink for Intel Socket H Series Processors
*Power Supply	PWS-350-1H	1	1U Single AC-DC 350W Platinum Level, multiple output power supply (180mm)
*Cable 1	CBL-0156L	1	ROUND 16PIN TO 16PIN FP CABLE,40CM, PB FREE
*Cable 2	CBL-0260L	1	US POWER CORD 18 AWG, PBF
*Cable 3	CBL-0261L	1	40CM 7PIN SATA CABLE S-RA, PBF
*Cable 4	CBL-0262L	1	4PIN TO 1xSATA(RA)+1x4PIN(RA)+1xFPD PWS EXT. CBL
*FAN 1	FAN-0087L4	2	40x56,4 Pin PWM Fan
*Parts	MCP-260-00024-0N	1	1U I/O shield for X8 server MB (3rd LAN + 4xLAN)
*Parts	MCP-260-00078-0N	1	1U I/O shield for X10 and X9 Server MB with 5X5mm vent hole and EMI Gasket,RoHS/REACH,PBF
*Front Panel	MCP-280-51201-0N	1	Front control board (FP512) for SC512 (surface-mounted LED)
*Parts	MCP-290-00005-01	2	Black chassis handle for SC512F-520
*Peripheral Drive1	MCP-290-00006-01	1	Black DVD dummy cover for SC512, RoHS
*Fan Holder	MCP-320-00003-01	1	Fan holder of two 40x40x56mm fans for SC512F-280

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

	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
Cable for internal HDD	CBI-0211L	1	4PIN-TO-3X SATA POWER CABLE
	CBL-0483L • eStore	-	29cm 30AWG SATA straight to straight cable
DVD-ROM / DVD-RW	DVM-PLDS-DVDRW-SBT5	1	PHILIPS slim DVD-RW SATA drive
	DVM-TEAC-DVD-SBT5	1	TEAC slim DVD-ROM SATA drive
DVD-ROM Accessory	MCP-220-51202-0N	1	Slim SATA DVD mounting kit
Internal 2.5" HDD Tray	MCP-220-00051-0N • eStore	-	Single 2.5" fixed HDD bracket
	MCP-220-00044-0N • eStore	-	Dual 2.5" fixed HDD bracket
Rail Kit	MCP-290-00055-0N • eStore	1	Quick-release rail set (25.6" ~ 33.05")
Software	<u>SFT-DCMS-Single</u>	1	DataCenter Management Package (per node license)

TPM	AOM-TPM-9671V-O	1	TPM 1.2, vertical form factor
	AOM-TPM-9670V-O	1	TPM 2.0, vertical form factor