

UP SuperServer SYS-511R-ML

1U short-depth server with up to 3 internal 2.5" SATA bays and 1 PCIe 5.0 x16 slot



[More details here](#)

Key Applications

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

Key Features

- Single Socket V0 (LGA-1700) supports Intel® Xeon® 6300-series / E-2400 series, Intel® Pentium® processors;
- 4 DIMMs; Up to 128GB of DDR5 ECC UDIMM memory with speeds of up to 4400MHz;
- 1 PCIe 5.0 x16 (FHHL);
- Intel® Ethernet Controller i210 2x 1GbE RJ45;
- Single Platinum 350W Power Supply;

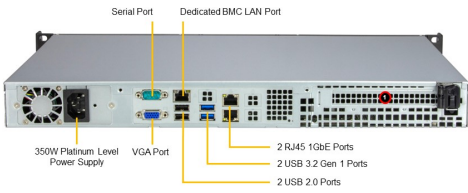


Form Factor	Mini-1U Enclosure: 437 x 43 x 368mm (17.2" x 1.7" x 14.5") Package: 559 x 160 x 508mm (22" x 6.3" x 20")
Processor	Single V0 (LGA-1700) Intel® Xeon® 6300-series/E-2400/Pentium® G7400/G7400T processors Up to 8C/16T; Up to 24MB Cache
System Memory	Slot Count: 4 DIMM slots/2 Channels Max Memory (2DPC): Up to 128GB 4400MT/s ECC DDR5 UDIMM
Drive Bays Configuration	Default: Total 1 bay • 1 internal fixed 3.5" SATA drive bay Option A: Total 2 bays • 2 internal fixed 3.5" SATA* drive bays Option B: Total 3 bays • 3 internal fixed 2.5" SATA* drive bays (*SATA support may require additional storage controller and/or cables, please see the optional parts list for details) M.2: 2 M.2 PCIe 4.0 x4 NVMe slots (M-key 2280/22110)
Expansion Slots	Default • 1 PCIe 5.0 x16 FHHL slot
On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1/5/10 support Chipset: Intel® C266 Network Connectivity: 2 RJ45 1GbE with Intel® I210
Input / Output	LAN: 2 RJ45 1 GbE LAN ports 1 RJ45 1 GbE Dedicated BMC LAN port (IPMI shared on LAN port 1) USB: 2 USB 2.0 ports(header) 2 USB 3.2 Gen1 Type-A ports(rear) 2 USB 2.0 Type-A ports(rear) 2 USB 3.2 Gen1 ports(Header) 1 USB 3.2 Gen1 Type-A port(Header) Video: 1 VGA port Serial: 1 COM port(Rear) 1 COM port(Header) TPM: 1 TPM header

(Front View – System)



(Rear View – System)



Slot Description	
	PCIe 5.0 x16 FHFL

System Cooling	Fans: 2 counter-rotation PWM 40x40x56mm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	1x 350W Platinum Level (93%) power supply
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer®; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory 6 + 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	Weight: Gross Weight: 14 lbs (6.35 kg) Net Weight: 11 lbs (4.99 kg) Available Color: Black
Operating Environment	Operating Temperature: 10°C to 35°C (50°F to 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 X13SCH-SYS
Chassis	CSE-512F-350B1

Parts List

Standard Parts (Parts Included)

Motherboard / Chassis					
Part Number	MBD-X13SCH-SYS	CSE-512F-350B1			
Qty	1	1			
Description	Super X13SCH-SYS Motherboard	Mini-1U Chassis			
Cable					
Part Number	CBL-SAST-1251-100	CBL-0156L	CBL-0260L	CBL-0261L	CBL-0262L
Qty	1	1	1	1	1
Description	Slimline x8 (STR) to 4x SATA,60/50/50/60CM,SB 5CM,100 OH	ROUND 16PIN TO 16PIN FP CABLE,40CM, PB FREE	US POWER CORD 18 AWG, PBF	7pin SATA (STR to RA), 40cm, PBF	4PIN TO 1xSATA(RA)+1x4PIN(RA)+1xFP PWS EXT. CBL
Rear Window					
Part Number	MCP-240-00091-0N				
Qty	2				
Description	1U universal riser card bracket for standard chassis,HF,RoHS/REACH,PBF				
Parts					
Part Number	MCP-260-00165-0N	MCP-260-00024-0N	MCP-260-00078-0N	MCP-290-00005-01	
Qty	1	1	1	2	
Description	1U I/O Shield for X12STH-F with EMI Gasket	1U I/O shield for X8 server MB (3rd LAN + 4xLAN)	1U I/O shield for X10 and X9 Server MB with 5X5mm vent hole and EMI Gasket,RoHS/REACH,PBF	Black chassis handle for SC512F-520	
Air Shroud					
Part Number	MCP-310-51207-0B				
Qty	1				
Description	Mylar air shroud for SC512F+X13SCH-SYS				
Manual					
Part Number	MNL-2601-QRG				
Qty	1				
Description	511R-ML Quick Reference Guide				
Riser Card					
Part Number	RSC-S-6G5				
Qty	1				
Description	1U LHS Standard Riser card with one PCIe 5.0 X16 slot.,H				
Software					
Part Number	SFT-OOB-LIC				
Qty	1				
Description	License key for enabling OOB BIOS management				
Heatsink / Retention					
Part Number	SNK-P0086P				
Qty	1				
Description	1U Passive HS for Intel Raptor Lake (Catlow) SocketV LGA1700				
*Power Supply					
Part Number	PWS-350-1H				
Qty	1				
Description	1U Single AC-DC 350W Platinum Level,multiple output power supply (180mm)				
*Fan					
Part Number	FAN-0087L4				
Qty	2				
Description	40x56,4 Pin PWM Fan				
*Front Panel					
Part Number	MCP-280-51201-0N				
Qty	1				

Description	Front control board (FP512) for SC512 (surface-mounted LED)
*Peripheral Drive	
Part Number	MCP-290-00006-01
Qty	1
Description	Black DVD dummy cover for SC512, RoHS
*Fan Holder	
Part Number	MCP-320-00003-01
Qty	1
Description	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

Cable for internal HDD		
Part Number	CBL-0211L	
Qty	1	
Description	4PIN-TO-3X SATA POWER CABLE	
DVD-ROM / DVD-RW		
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
DVD-ROM Accessory		
Part Number	CDM-USATA-G + 1x CBL-0470L	
Qty	1	
Description	Slim SATA DVD mounting kit	
Internal 2.5" HDD Tray		
Part Number	MCP-220-00044-0N	MCP-220-00051-0N
Qty	-	-
Description	Dual 2.5" fixed HDD bracket	Single 2.5" fixed HDD bracket
Rail Kit		
Part Number	MCP-290-00055-0N	
Qty	1	
Description	Quick-release rail set (25.6" ~ 33.05")	
Software		
Part Number	<u>SFT-DCMS-Single</u>	
Qty	1	
Description	DataCenter Management Package (per node license)	
TPM		
Part Number	AOM-TPM-9670H	<u>AOM-TPM-9672H</u> <u>(/products/accessories/addon/AOM-TPM-9672H.php).</u>
Qty	1	1
Description	TPM 2.0, horizontal form factor	TPM 2.0 with 10 pins SPI support, horizontal form factor

Certain products may not be available in your region