Intel Xeon (X13) | Mini-1U | Server

Supermicro SYS-511R-ML

Intel Xeon (X13) · Mini-1U Server

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Form Factor
Mini-1U

CPU
Intel® Xeon® 6300-series/E-2400/Pentium® G7400/G7400T processors

Memory
Max Memory (1DPC): Up to 64GB 4400MT/s ECC DDR5 UDIMM

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
Platform	Intel Xeon (X13)
CPU	Single V0 (LGA-1700) Intel® Xeon® 6300-series/E-2400/Pentium® G7400/G7400T processors
Memory	Slot Count: 4 DIMM slots/2 Channels Max Memory (1DPC): Up to 64GB 4400MT/s ECC DDR5 UDIMM
Drive Bays	Default: Total 1 bay1 internal fixed 3.5" SATA drive bay
Fans	Up to 2 counter-rotation PWM 40x40x56mm Fan(s)
Power Supply	1x 350W Platinum Level (93%) power supply

Full Specifications — SYS-511R-ML

Product SKUs

Part numbers	SYS-511R-ML

Motherboard

Motherboard	Super X13SCH-SYS

Processor

CPU	Single V0 (LGA-1700) Intel® Xeon® 6300-series/E-2400/Pentium® G7400/G7400T processors
Core Count	Up to 12C/24T; Up to 36MB Cache
Note	Supports up to 95W TDP CPUs (Air Cooled)

System Memory

Memory	Slot Count: 4 DIMM slots/2 Channels Max Memory (1DPC): Up to 64GB 4400MT/s ECC DDR5 UDIMM Max Memory (2DPC): Up to 128GB 4000MT/s ECC DDR5 UDIMM View Memory Options
Memory Voltage	1.1V

On-Board Devices

SATA	SATA (6Gbps) ; RAID 0/1/5/10 support
Chipset	Intel® C266
Network Connectivity	2 RJ45 1GbE with Intel® I210 View AOC Options

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 (header) 1 COM port (rear)
TPM	1 TPM header

System BIOS

BIOS Type	AMI 32MB SPI Flash EEPROM

Management

Software	SuperCloud Composer® (SCC) 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!
Power configurations	ACPI/APM Power Management

Security

Hardware	Trusted Platform Module (TPM) 2.0
Features	Cryptographically Signed Firmware Secure Boot Secure Firmware Updates Automatic Firmware Recovery Supply Chain Security: Remote Attestation Runtime BMC Protections System Lockdown

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

Certifications

Operating Systems	Oracle Linux 9.2, RHEL 9.2, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix

Chassis

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

Dimensions and Weight

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

Front Panel

Buttons	Power On/Off button System Reset button
LED	Fan Fail/System Over Heat LED HDD activity LED Network Activity LEDs Power status LED

Expansion Slots

PCI-Express (PCIe) Configuration	Default1 PCIe 5.0 x16 FHHL slot 1 PCIe 5.0 x16 FHHL slot View AOC Options

Drive Bays / Storage

Drive Bays Configuration	Default: Total 1 bay1 internal fixed 3.5" SATA drive bay 1 internal fixed 3.5" SATA drive bay Option A: Total 2 bays2 internal fixed 3.5" SATA* drive bays 2 internal fixed 3.5" SATA* drive bays Option B: Total 3 bays3 internal fixed 2.5" SATA* drive 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) View M.2 Options

System Cooling

Fans	Up to 2 counter-rotation PWM 40x40x56mm Fan(s)
Air Shroud	1 Air Shroud

Power Supply

1x 350W Platinum Level (93%) power supply

Dimension (WxHxL)	100 x 40 x 180 mm
Input	350W: 100-240Vac / 50-60Hz
+12V	Max: 29A / Min: 0.5A (100Vac-240Vac)
5V SB	Max: 3A / Min: 0A
Output Type	24pin ATX
Certification	Platinum Level [Test Report]

Operating Environment

Environmental Spec.	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)