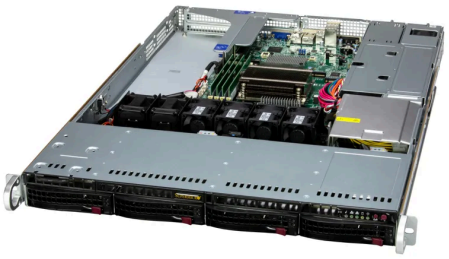
Intel Xeon (X13) | 1U | Server

Supermicro SYS-511R-W

Intel Xeon (X13) · 1U Server

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Form Factor	**1U**
CPU	**Intel® Xeon® 6300-series/E-2400/Pentium® G7400/G7400T processors**
GPU	**Up to 1 double-width or 1 single-width GPU**
Memory	**Max Memory (2DPC): Up to 128GB 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 or 2 PCIe 5.0 x8 (FHFL); 1 PCIe 4.0 x4 (in x16 LP)
- Intel® Ethernet Controller i210 2x 1GbE RJ45
- Default single Titanium 600W Power Supply; Optional redundant power by adding 1x Power Supply Module

Form Factor	1U
Platform	Intel Xeon (X13)
CPU	Single V0 (LGA-1700) Intel® Xeon® 6300-series/E-2400/Pentium® G7400/G7400T processors
Max GPU Count	Up to 1 double-width or 1 single-width GPU
Memory	Slot Count: 4 DIMM slots/2 Channels Max Memory (2DPC): Up to 128GB 4400MT/s ECC DDR5 UDIMM
Drive Bays	Default: Total 4 bays4 front hot-swap 3.5" SAS*/SATA drive bays
Fans	Up to 2 AOC cooling Fan(s) (optional)
Power Supply	1x 600W Redundant Titanium Level (96%) power supply

Full Specifications — SYS-511R-W

Product SKUs

Part numbers	SYS-511R-W

Motherboard

Motherboard	Super X13SCW-F

Processor

CPU	Single V0 (LGA-1700) Intel® Xeon® 6300-series/E-2400/Pentium® G7400/G7400T processors
Core Count	Up to 8C/16T; Up to 24MB Cache
Note	Supports up to 95W TDP CPUs (Air Cooled)

GPU

Max GPU Count	Up to 1 double-width or 1 single-width GPU
CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect

System Memory

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

On-Board Devices

SATA	SATA (6Gbps) ; RAID 0/1/5/10 support
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	4 USB 2.0 ports (header) 2 USB 2.0 Type-A ports (rear) 2 USB 3.2 Gen1 ports (Header) 2 USB 3.2 Gen2 Type-A ports (Rear) 1 USB 3.2 Gen2 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 9.0, RHEL 9.2, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	1U
Model	CSE-815BTS-R000WNP

Dimensions and Weight

Height	1.7" (43 mm)
Width	17.2" (437 mm)
Depth	25.6" (650 mm)
Package	8.5" (H) x 23.5" (W) x 33.7" (D)
Weight	Gross Weight: 34.5 lbs (15.46 kg) Net Weight: 21.5 lbs (9.75 kg)
Available Color	Black

Front Panel

Buttons	Power On/Off button System Reset button Unit Identification (UID) button
LED	Fan Fail/System Over Heat LED HDD activity LED Network Activity LEDs Power status LED Unit Identification (UID) LED

Expansion Slots

PCI-Express (PCIe) Configuration	Default2 PCIe 5.0 x8 FHFL slots 1 PCIe 4.0 x4 (in x16) LP slot 2 PCIe 5.0 x8 FHFL slots 1 PCIe 4.0 x4 (in x16) LP slot Option A1 PCIe 5.0 x16 FHFL double-width slot 1 PCIe 4.0 x4 (in x16) LP slot 1 PCIe 5.0 x16 FHFL double-width slot 1 PCIe 4.0 x4 (in x16) LP slot View AOC Options

Drive Bays / Storage

Drive Bays Configuration	Default: Total 4 bays4 front hot-swap 3.5" SAS*/SATA drive bays 4 front hot-swap 3.5" SAS*/SATA drive bays Option A: Total 4 bays2 front hot-swap 3.5" PCIe 4.0 NVMe*/SAS*/SATA drive bays 2 front hot-swap 3.5" SAS*/SATA drive bays 2 front hot-swap 3.5" PCIe 4.0 NVMe*/SAS*/SATA drive bays 2 front hot-swap 3.5" SAS*/SATA drive bays (*NVMe/SAS 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
Peripheral Bays	2 2.5" bays (optional)

System Cooling

Fans	Up to 2 AOC cooling Fan(s) (optional) Up to 4 counter-rotation PWM 40x40x56mm Fan(s)
Air Shroud	1 Air Shroud

Power Supply

1x 600W Redundant Titanium Level (96%) power supply

Dimension (WxHxL)	54.5 x 40.25 x 322 mm
Input	600W: 200-240Vac / 50-60Hz 600W: 100-127Vac / 50-60Hz 600W: 200-240Vdc / 50-60Hz
+12V	Max: 50A / Min: 0A (100Vac-127Vac) Max: 50A / Min: 0A (200Vac-240Vac) Max: 50A / Min: 0A (200Vdc-240Vdc)
5V SB	Max: 4A / Min: 0A
Output Type	Backplanes (gold finger)

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)