Intel Xeon (X13) | 1U | Server

Supermicro SYS-511E-WR

Intel Xeon (X13) · 1U Server

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Form Factor	CPU
1U	**5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors**
GPU	**Memory**
Up to 1 double-width or 2 single-width GPUs	**Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM**

Key Features

- Single Socket E (LGA-4677) 4th/5th Gen Intel® Xeon® Scalable processors. Up to 300W TDP
- Intel® C741 Chipset
- 8 DIMMs; Supports 3DS DDR5 RDIMM. Up to 5600 MHz
- Onboard 1G LAN ports (Intel® i210), 1 dedicated IPMI LAN
- 4x front hot-swap 3.5" SATA3 drive bays, SAS3 with additional SAS controller card
- Redundant Now Titanium 860W Power Supplies

Form Factor	1U
Platform	Intel Xeon (X13)
CPU	Single Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
Max GPU Count	Up to 1 double-width or 2 single-width GPUs
Supported GPU	NVIDIA PCIe: A1000, L4, NVIDIA RTX PRO™ 4000 Blackwell, RTX 4000 Ada Generation
Memory	Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 4 bays4 front hot-swap 3.5" SAS*/SATA drive bays
Fans	Up to 5 middle cooling PWM 40x40x56mm Fan(s)
Power Supply	2x 860W Redundant (1 + 1) Titanium Level (96%) power supplies

Full Specifications — SYS-511E-WR

Product SKUs

Part numbers	SYS-511E-WR SYS-511E-WR-01-G2 Gold Series version with pre-configured components

Motherboard

Motherboard	Super X13SEW-F

Processor

CPU	Single Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
Core Count	Up to 52C/104T; Up to 300MB Cache
Note	Supports up to 300W TDP CPUs (Air Cooled)

GPU

Max GPU Count	Up to 1 double-width or 2 single-width GPUs
Supported GPU	NVIDIA PCIe: A1000, L4, NVIDIA RTX PRO™ 4000 Blackwell, RTX 4000 Ada Generation NVIDIA: RTX A400 View GPU Options
CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect

System Memory

Memory	Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM View Memory Options
Memory Voltage	1.1V

On-Board Devices

SATA	SATA (6Gbps) ; RAID 0/1/5/10 support
Chipset	Intel® C741
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 3.2 Gen1 Type-A ports (rear) 2 USB 2.0 Type-A ports (rear) 2 USB 3.2 Gen1 ports (Header) 1 USB 2.0 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 Silicon Root of Trust (RoT) – NIST 800-193 Compliant
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	8 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	ESXi 7.0 U3, ESXi 8.0, Oracle Linux 9.0, RHEL 9.0, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix
Enterprise Solutions	Microsoft Azure Local

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 x16 FHFL slots 1 PCIe 5.0 x8 (in x16) LP slot 2 PCIe 5.0 x16 FHFL slots 1 PCIe 5.0 x8 (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 (*SAS support may require additional storage controller and/or cables, please see the optional parts list for details) View Drive Options

M.2	1 M.2 PCIe 3.0 x2 NVMe slot (M-key 2280/22110) View M.2 Options
Peripheral Bays	2 2.5" peripheral bays (optional)

System Cooling

Fans	Up to 5 middle cooling PWM 40x40x56mm Fan(s) Up to 1 AOC cooling Fan(s) (optional)
Air Shroud	1 Air Shroud

Power Supply

2x 860W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	54.5 x 40.25 x 322 mm
Input	800W: 100-127Vac / 50-60Hz 860W: 200-240Vac / 50-60Hz 860W: 240Vdc / 50-60Hz
+12V	Max: 66.67A / Min: 0A (100Vac-127Vac) Max: 71.67A / Min: 0A (Vdc-240Vdc) Max: 71.67A / Min: 0A (200Vac-240Vac)
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)

Environmental / Recycling

Recycle	Return Server-End of Life Product