Intel Xeon (X13) | 2U Rackmount | Server

Supermicro SYS-521E-WR

Intel Xeon (X13) · 2U Rackmount Server

Specifications reproduced from the official Supermicro product page, as of 17 Nov 2026. Taknet Systems (Thailand) is a Supermicro Authorized Distributor.



Form Factor	CPU
2U Rackmount	**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
- 8x front hot-swap 3.5" SATA3 drive bays (Optional 4 hybrid Gen5 NVMe), SAS3 with additional SAS controller card
- Redundant Now Titanium 1000W Power Supplies

Form Factor	2U Rackmount
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, NVIDIA RTX PRO 2000 Blackwell, RTX 2000 Ada, RTX 4500 Ada, RTX 5000 Ada, RTX A2000, RTX A4000, RTX A4500, RTX A5000, RTX A6000, T400
Memory	Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 8 bays8 front hot-swap 3.5" SAS*/SATA drive bays
Fans	Up to 3 heavy duty PWM 80x80x38mm Fan(s)
Power Supply	2x 1000W Redundant (1 + 1) Titanium Level (96%) power supplies

Full Specifications — SYS-521E-WR

Product SKUs

Part numbers	SYS-521E-WR

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, NVIDIA RTX PRO 2000 Blackwell, RTX 2000 Ada, RTX 4500 Ada, RTX 5000 Ada, RTX A2000, RTX A4000, RTX A4500, RTX A5000, RTX A6000, T400 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
NVMe	NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required) View NVMe Options
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	Oracle Linux 9.0, RHEL 9.0, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	2U Rackmount
Model	CSE-825B2TS-R0WNP

Dimensions and Weight

Height	3.5" (89 mm)
Width	17.2" (437 mm)
Depth	25.5" (647 mm)
Package	11" (H) x 26.5" (W) x 34" (D)
Weight	Gross Weight: 59 lbs (26.76 kg) Net Weight: 34 lbs (15.42 kg)
Available Color	Black

Front Panel

Buttons	Power On/Off System Reset
LED	Device Activity LAN 1 Activity LAN 2 Activity Power Failure LED Power status System information

Expansion Slots

PCI-Express (PCIe) Configuration	Default2 PCIe 5.0 x16 FHFL double-width slots 2 PCIe 5.0 x8 LP slots 2 PCIe 5.0 x16 FHFL double-width slots 2 PCIe 5.0 x8 LP slots Option A*1 PCIe 5.0 x16 FHFL double-width slot 2 PCIe 5.0 x8 FHFL slots 2 PCIe 5.0 x8 LP slots 1 PCIe 5.0 x16 FHFL double-width slot 2 PCIe 5.0 x8 FHFL slots 2 PCIe 5.0 x8 LP slots (*Requires additional parts, please see the optional parts list for details. For more details on PCIe slot configuration options, please refer to the system callout images above.) View AOC Options

Drive Bays / Storage

Drive Bays Configuration	Default: Total 8 bays8 front hot-swap 3.5" SAS*/SATA drive bays 8 front hot-swap 3.5" SAS*/SATA drive bays Option A: Total 8 bays4 front hot-swap 3.5" PCIe 5.0 x4 NVMe* drive bays 4 front hot-swap 3.5" SAS*/SATA drive bays 4 front hot-swap 3.5" PCIe 5.0 x4 NVMe* drive bays 4 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) View NVMe Options 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" bays (optional)

System Cooling

Fans	Up to 3 heavy duty PWM 80x80x38mm Fan(s)
Air Shroud	1 Air Shroud

Power Supply

2x 1000W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	76 x 40 x 336 mm
Input	800W: 100-127Vac / 50-60Hz 1000W: 200-240Vac / 50-60Hz 1000W: 200-240Vdc / 50-60Hz
+12V	Max: 66.7A / Min: 0A (100Vac-127Vac) Max: 83A / Min: 0A (200Vac-240Vac) Max: 83A / 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)