

UP SuperServer SYS-521E-WR

2U UP WIO with 8 hot-swap 3.5" SAS/SATA (4 NVMe hybrid) bays and up to 5 PCIe 5.0 slots



More details here

Key Applications

Data Center Optimized, Network Appliance, Database/Storage, Entry GPU server,

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
Enclosure: 437 x 89 x 647mm (17.2" x 3.5" x 25.5")
Package: 673.1 x 279.4 x 863.6mm (26.5" x 11" x 34")

Processor

Single Socket E (LGA-4677)
5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
Up to 52C/104T; Up to 300MB Cache

GPU

Max GPU Count: Up to 1 double-width or 2 single-width GPUs
Supported GPU: NVIDIA PCIe: T400, RTX A6000, RTX A5000, RTX A4500, RTX A4000, RTX A2000
CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect

System Memory

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

Drive Bays Configuration

Default: Total 8 bays

- 4 front hot-swap 3.5" SAS*/SATA drive bays
- 4 front hot-swap 3.5" PCIe 5.0 NVMe*/SAS*/SATA drive bays

(*NVMe/SAS support may require additional storage controller and/or cables)
M.2: 1 M.2 PCIe 3.0 x2 NVMe slot (M-key 2280/22110)
Peripheral Bays: 2 2.5" bays (optional)

Expansion Slots

Default

- 2 PCIe 5.0 x16 FHFL double-width slots
- 2 PCIe 5.0 x8 LP slots

Option A*

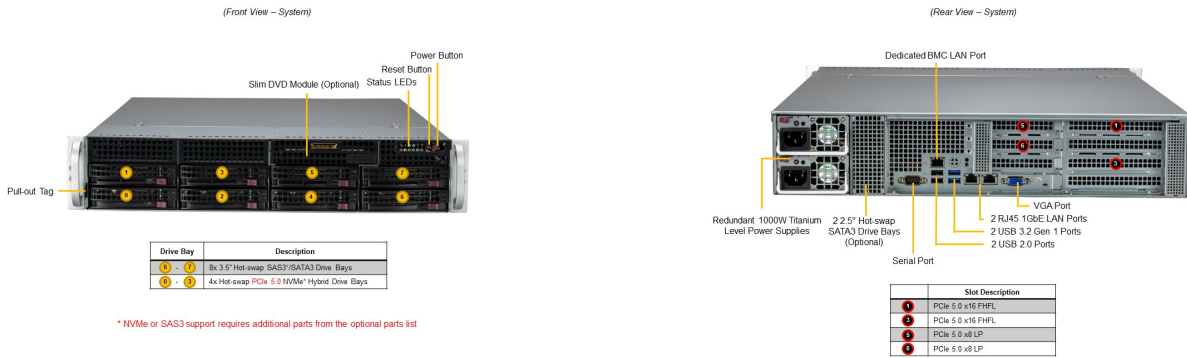
- 1 PCIe 5.0 x16 FHFL double-width slot
- 2 PCIe 5.0 x8 FHFL slots
- 2 PCIe 5.0 x8 LP slots

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)
Chipset: Intel® C741
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 3.2 Gen1 Type-A ports(rear)
2 USB 2.0 Type-A ports(rear)
1 USB 2.0 Type-A port(Header)
2 USB 3.2 Gen1 ports(Header)
Video: 1 VGA port
Serial: 1 COM port(Rear)
1 COM port(Header)
TPM: 1 TPM header



System Cooling	Fans: 3 heavy duty PWM 80x80x38mm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	2x 1000W Redundant (1 + 1) Titanium Level (96%) power supplies
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 8 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: 59 lbs (26.76 kg) Net Weight: 34 lbs (15.42 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 X13SEW-F
Chassis	CSE-825B2TS-R0WNP