

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



Key Applications

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

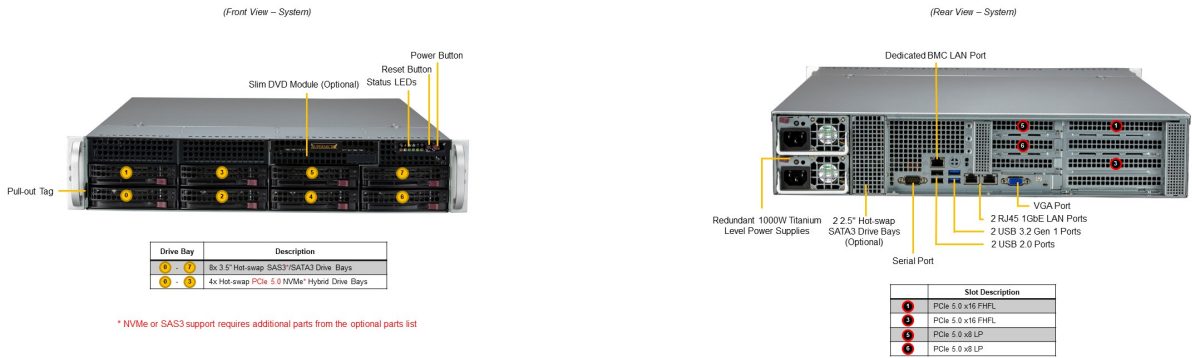
Key Features

- 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: RTX 4500 Ada, RTX 5000 Ada, RTX A2000, RTX A4000, RTX A4500, RTX A5000, RTX A6000, T400 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 • 8 front hot-swap 3.5" SAS*/SATA drive bays Option A: Total 8 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) 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) 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 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
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: 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
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