

# UP SuperServer SYS-511E-WR

1U UP WIO with 4 hot-swap 3.5" SAS/SATA bays and 3 PCIe 5.0 slots



More details here

## Key Applications

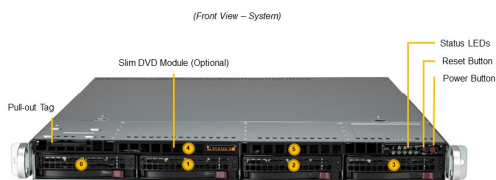
Virtualization, Cloud Computing, Data Center Optimized, Entry GPU server, Value IaaS,

## 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;

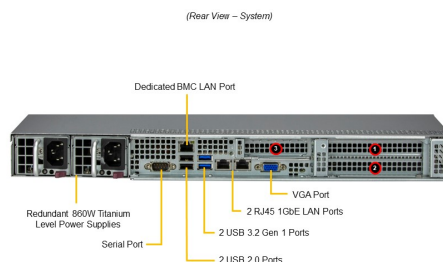


Form Factor	1U Enclosure: 437 x 43 x 650mm (17.2" x 1.7" x 25.6") Package: 597 x 216 x 856mm (23.5" x 8.5" x 33.7")
Processor	Single Socket E (LGA-4677) 5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors Up to 52C/104T; Up to 300MB Cache
GPU	Max GPU Count: Up to 1 double-width or 2 single-width GPUs Supported GPU: NVIDIA PCIe: A1000, L4, NVIDIA RTX PRO™ 4000 Blackwell, RTX 4000 Ada Generation NVIDIA: RTX A400 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 4 bays <ul style="list-style-type: none"> <li>• 4 front hot-swap 3.5" SAS*/SATA drive bays</li> </ul> (*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" peripheral bays (optional)
Expansion Slots	Default <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 FHFL slots</li> <li>• 1 PCIe 5.0 x8 (in x16) LP slot</li> </ul>
On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1/5/10 support 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



Drive Bay	Description
1 - 3	3.5" Hot-swap SAS/SATA Drive Bays
4 - 5	2.5" 7mm SAS/SATA Drive Bays** (optional)

\*SAS3 support requires additional parts from the optional parts list  
 \*\* Drive bay 4 or 5 requires additional parts from the optional parts list



Slot	Description
1	PCIe 5.0 x16 FHFL
2	PCIe 5.0 x16 FHFL
3	PCIe 5.0 x8 (m x16) LP

**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

**System BIOS**

BIOS Type: AMI 32MB SPI Flash EEPROM

**Management**

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!

**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: 34.5 lbs (15.46 kg)  
 Net Weight: 21.5 lbs (9.75 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-815BTS-R000WNP](#)