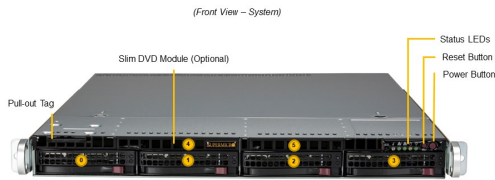# UP SuperServer SYS-511E-WR

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;
- 2 PCIe 5.0 x16 FHFL; 1 PCIe 5.0 x8(in x16) LP; 1 PCIe 3.0 x2 NVMe M.2;
- 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;
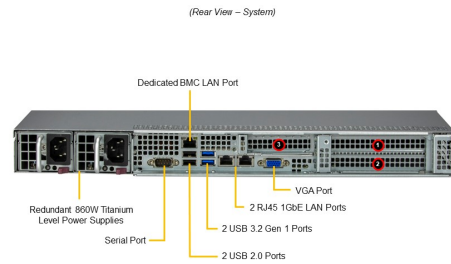- Redundant Now Titanium 860W Power Supplies;

Form Factor	1U Rackmount 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 GPU(s) Supported GPU: NVIDIA PCIe: RTX A4000,A2,L4,A10 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: PCIe
System Memory	Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 4800MT/s ECC DDR5 RDIMM
Drive Bays	4x 3.5" SATA/SAS drive bays 1x PCIe 3.0 x 2 M-key, 2280, 22110
Expansion Slots	2 PCIe 5.0 x16 FHFL slot(s) 1 PCIe 5.0 x8 (in x16) LP slot(s) Note: Acronyms: (FH = Full Height, LP = Low Profile, FL = Full Length, HL = Half Length)
On-Board Devices	SATA: SATA3 (6Gbps); RAID 0/1/5/10 support Chipset: Intel® C741 Network Connectivity: 2x 1GbE BaseT with Intel® i210 IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Input / Output	SATA: 10 SATA (6Gbps) port(s)
	LAN: 2 RJ45 1GbE LAN ports
	    1 RJ45 Dedicated IPMI LAN port
	USB: 3 USB 2.0 port(s) (2 rear; 1 Type A)
	    4 USB 3.2 Gen 1 port(s) (2 rear; 2 headers)
	Video: 1 VGA port(s)
	Serial Port: 2 COM Port(s) (1 header; 1 rear)

(Front View – System)

Status LEDs
Reset Button
Power Button

Slim DVD Module (Optional)

Pull-out Tag

Drive Bay		Description
0 - 3		3.5" Hot-swap SAS3/SATA3 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

(Rear View – System)

Dedicated BMC LAN Port

VGA Port
2 RJ45 1GbE LAN Ports
2 USB 3.2 Gen 1 Ports
2 USB 2.0 Ports

Redundant 860W Titanium
Level Power Supplies
Serial Port

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

System Cooling	Fans: 1 AOC cooling Fan(s) (optional) 5 middle cooling PWM 40x40x56mm Fan(s)
Power Supply	2x 860W Redundant Titanium Level power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Power Manager (SPM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; KVM with dedicated LAN ; IPMI 2.0
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	Height: 1.7" (43 mm) Width: 17.2" (437 mm) Depth: 25.6" (650 mm) Gross Weight: 34.5 lbs (15.46 kg) Net Weight: 21.5 lbs (9.75 kg) Packaging: 8.5" (H) x 23.5" (W) x 33.7" (D) Available Color: Black
Operating Environment	Operating Temperature: 10°C ~ 35°C (50°F ~ 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