

UP SuperServer SYS-510P-WTR

1U WIO with 4 hot-swap 3.5" NVMe/SAS/SATA bays and 3 PCIe 4.0 x16 slots



More details here

Key Applications

Virtualization, Cloud Computing, Enterprise Server, Data Center Optimized,

Key Features

- Single Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors. Up to 270W TDP.;
- 8 DIMMs; Supports 3DS DDR4-3200: RDIMM/LRDIMM/Intel® Intel® DCPMM;
- 2 PCIe 4.0 x16 (FHFL) slots, 1 PCIe 4.0 x16 (LP) slot;
- Intel® Ethernet Controller X550 2x 10GbE RJ45;
- 4x hot-swap 3.5" Hybrid SATA3/NVMe drive bays, SAS3 with additional SAS controller card; Onboard 1x NVMe/SATA M.2;
- Redundant Platinum 500W Power Supply;

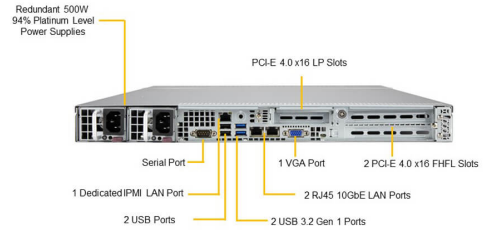


Form Factor	1U Rackmount Enclosure: 437 x 43 x 650mm (17.2" x 1.7" x 25.6") Package: 596.9 x 215.9 x 855.98mm (23.5" x 8.5" x 33.7")
Processor	Single Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 40C/80T; Up to 60MB Cache
GPU	Max GPU Count: Up to 1 single-width GPU Supported GPU: NVIDIA PCIe: A2, T1000, T400 CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect
System Memory	Slot Count: 8 DIMM slots Max Memory (1DPC): Up to 2TB 3200MT/s ECC DDR4 RDIMM/LRDIMM Supports Intel® Optane™ persistent memory 200 series
Drive Bays Configuration	Default: Total 4 bays <ul style="list-style-type: none"> • 4 front hot-swap 3.5" PCIe 4.0 NVMe*/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 x4 NVMe/SATA slot (M-key 2280/22110) Peripheral Bays: 2 slim bays (optional)
Expansion Slots	Default <ul style="list-style-type: none"> • 2 PCIe 4.0 x16 FHFL slots • 1 PCIe 4.0 x16 LP slot
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) Network Connectivity: 2 RJ45 10GbE with Intel® X550
Input / Output	LAN: 2 RJ45 10 GbE LAN ports (Intel® X550) 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 3.2 Gen1 Type-A port 1 USB 2.0 port(Header) Video: 1 VGA 2 port Serial: 1 COM port(Rear) 1 COM port(Header) DOM: 2 SuperDOM (Disk on Module) portswith built-in power TPM: 1 TPM header

(Front View – System)



(Rear View – System)



System Cooling

Fans: Up to 5 counter-rotation PWM 40x40x56mm Fan(s)
 Up to 1 AOC cooling Fan(s) (optional)
 Air Shroud: 1 Air Shroud

Power Supply

2x 500W Redundant (1 + 1) Platinum Level (94%) 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: 7+1 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: 48 lbs (21.77 kg)
 Net Weight: 24 lbs (10.89 kg)
 Available Color: Black

Operating Environment

Operating Temperature: 10°C to 35°C (50°F to 95°F)
 Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)
 Operating Relative Humidity: 8% to 90% (non-condensing)
 Non-operating Relative Humidity: 5% to 95% (non-condensing)

Motherboard

[Super X12SPW-TF](#)

Chassis

CSE-815TS-R504WBP6