

UP SuperServer SYS-510T-WTR

1U UP WIO with 4 hot-swap 3.5" drive bays and 2 PCIe 4.0 slots



Key Applications

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

Key Features

- Single Socket H5 (LGA-1200) supports Intel® Xeon® E-2300 series, Intel® Pentium® processors;
- 4 DIMMs; Up to 128GB of DDR4 ECC UDIMM memory with speeds of up to 3200MHz;
- 1 PCIe 4.0 x16 or 2 PCIe 4.0 x8 (FHFL); 1 PCIe 3.0 x4 (in x8 LP);
- Intel® Ethernet Controller X550 2x 10GbE RJ45;
- 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 H5 (LGA-1200) Intel® Xeon® E-2300 series Processors and 10th Gen. Pentium® Processors Up to 8C/16T; Up to 16MB Cache
GPU	Max GPU Count: Up to 1 double-width or 1 single-width GPU Supported GPU: NVIDIA PCIe: RTX A2000, T4 CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect
System Memory	Slot Count: 4 DIMM slots Max Memory (2DPC): Up to 128GB 3200MT/s ECC DDR4 UDIMM
Drive Bays Configuration	Default: Total 4 bays • 4 front hot-swap 3.5" SAS*/SATA drive bays (*SAS support may require additional storage controller and/or cables, please see the optional parts list for details) M.2: 2 M.2 PCIe 4.0 x4 NVMe slots (M-key 2280/22110) Peripheral Bays: 2 2.5" bays
Expansion Slots	Default • 2 PCIe 4.0 x8 FHFL slots • 1 PCIe 3.0 x4 (in x8) LP slot Option A • 1 PCIe 4.0 x16 FHFL slot • 1 PCIe 3.0 x4 (in x8) LP slot
On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1/5/10 support Network Connectivity: 2 RJ45 10GbE with Intel® X550
Input / Output	LAN: 2 RJ45 10 GbE LAN ports 1 RJ45 1 GbE Dedicated BMC LAN port (IPMI shared on LAN port 1) USB: 4 USB 2.0 ports (header) 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 Gen2 Type-A port (Header)

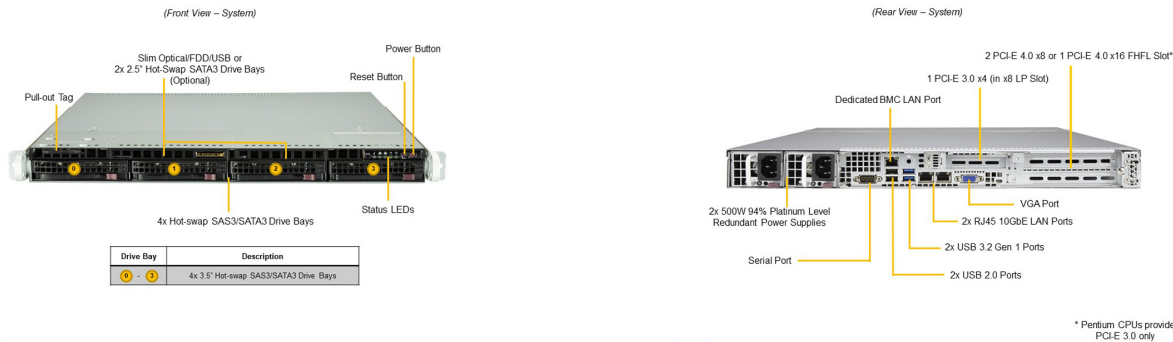
Video: 1 VGA port

Serial: 1 COM port (Rear)

1 COM port (Header)

DOM: 2 Super [DOM](#) (Disk on Module) ports with built-in power

TPM: 1 TPM header



System Cooling	Fans: Up to 4 counter-rotation PWM 40x40x56mm Fan(s) Up to 2 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® (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: 6 + 2 + 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 X12STW-TF
Chassis	CSE-815TS-R504WBP7