UP SuperServer SYS-110P-WTR
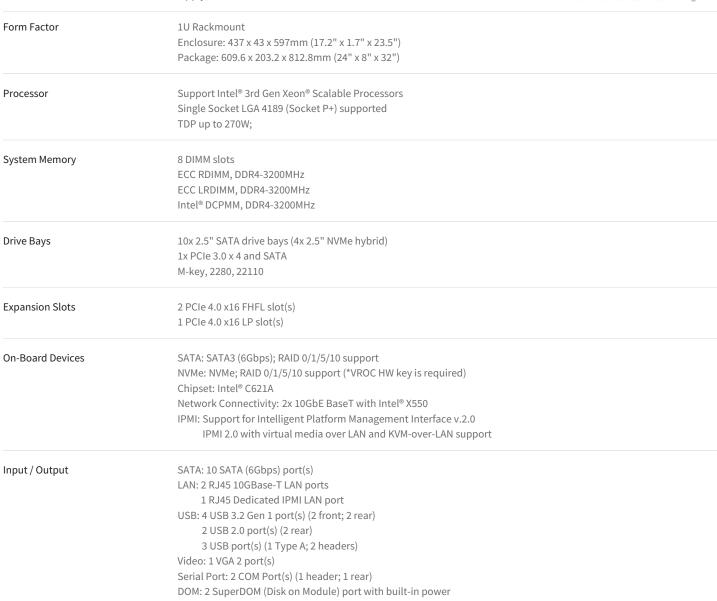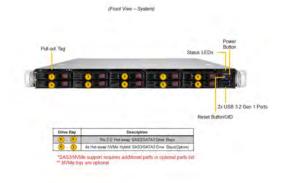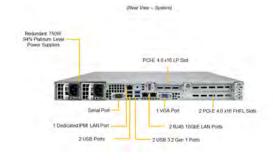
Key Applications

Virtualization, Cloud Computing, Enterprise Server, Data Center Optimized, Database Processing and Storage,

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® DCPMM;
- 2 PCIe 4.0 x16 (FHFL) slots, 1 PCIe 4.0 x16 (LP) slot;
- Intel® Ethernet Controller X550 2x 10GbE RJ45;
- 10x hot-swap 2.5'' SATA3 drive bays with 4 hybrid NVMe/SATA drive bays, SAS3 with additional SAS controller card; Onboard 1x NVMe/SATA M.2;
- Redundant Platinum 750W Power Supply;

Form Factor	1U Rackmount Enclosure: 437 x 43 x 597mm (17.2" x 1.7" x 23.5") Package: 609.6 x 203.2 x 812.8mm (24" x 8" x 32")
Processor	Support Intel® 3rd Gen Xeon® Scalable Processors Single Socket LGA 4189 (Socket P+) supported TDP up to 270W;
System Memory	8 DIMM slots ECC RDIMM, DDR4-3200MHz ECC LRDIMM, DDR4-3200MHz Intel® DCPMM, DDR4-3200MHz
Drive Bays	10x 2.5" SATA drive bays (4x 2.5" NVMe hybrid) 1x PCIe 3.0 x 4 and SATA M-key, 2280, 22110
Expansion Slots	2 PCIe 4.0 x16 FHFL slot(s) 1 PCIe 4.0 x16 LP slot(s)
On-Board Devices	SATA: SATA3 (6Gbps); RAID 0/1/5/10 support NVMe: NVMe; RAID 0/1/5/10 support (*VROC HW key is required) Chipset: Intel® C621A Network Connectivity: 2x 10GbE BaseT with Intel® X550 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 10GBase-T LAN ports
	     1 RJ45 Dedicated IPMI LAN port
	USB: 4 USB 3.2 Gen 1 port(s) (2 front; 2 rear)
	     2 USB 2.0 port(s) (2 rear)
	     3 USB port(s) (1 Type A; 2 headers)
	Video: 1 VGA 2 port(s)
	Serial Port: 2 COM Port(s) (1 header; 1 rear)
	DOM: 2 SuperDOM (Disk on Module) port with built-in power

| | System Cooling | 5x (4cm x 4cm x 5.6cm) heavy duty fan(s)
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Power Supply
1U 750W redundant power width 54.5mm
Dimension (W x H x L): 54.5 x 40.25 x 320 mm
Output Type: Gold Finger Connector

System BIOS
BIOS Type: AMI 32MB SPI Flash EEPROM

Management
NMI; SUM; KVM with dedicated LAN; SPM; Intel® Node Manager; SSM; Redfish API; IPMI2.0

PC Health Monitoring
CPU: Monitors for CPU Cores, Chipset Voltages, Memory
        7+1 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: 23.5" (597 mm)
Gross Weight: 38 lbs (17.24 kg)
Net Weight: 25 lbs (11.34 kg)
Packaging: 8" (H) x 24" (W) x 32" (D)
Available Color: Black

Operating Environment
Operating Temperature: 10°C ~ 35°C (50°F ~ 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-116TS-R706WBP4