UP SuperServer SYS-520P-WTR

Key Applications

Data Center Optimized, Database Processing and Storage, Network Appliance,
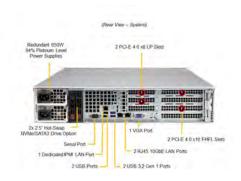
Key Features

- 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, 2 PCIe 4.0 x8 (LP) slots;
- Intel® Ethernet Controller X550 2x 10GbE RJ45;
- 8x hot-swap 3.5'' SATA3 drive bays, SAS3 with additional SAS controller card, Optional 2x 2.5'' Gen4 NVMe drives at rear; Onboard 1x NVMe/SATA M.2;
- Redundant Platinum 650W Power Supply;

Form Factor	2U Rackmount Enclosure: 437 x 89 x 647mm (17.2" x 3.5" x 25.5") Package: 673.1 x 279.4 x 863.6mm (26.5" x 11" x 34")
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	8x 3.5" SATA drive bays (2x 2.5" NVMe dedicated) 1x PCIe 3.0 x 4 and SATA M-key, 2280, 22110
Expansion Slots	2 PCIe 4.0 x16 FHFL slot(s) 2 PCIe 4.0 x8 LP slot(s)
On-Board Devices	SATA: SATA3 (6Gbps); RAID 0/1/5/10 support NVMe: NVMe; RAID 0/1 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: 2 USB 2.0 port(s) (2 rear)
	    4 USB 3.2 Gen 1 port(s) (2 rear; 2 headers)
	    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	3x (8cm x 8cm x 3.8cm) heavy duty fan(s)
Power Supply	Platinum efficiency, 600W/650W, AC input: 100-127/200-240Vac. Dimension (W x H x L): 76 x 40 x 360 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: 3.5" (89 mm) Width: 17.2" (437 mm) Depth: 25.5" (647 mm) Gross Weight: 59 lbs (26.76 kg) Net Weight: 34 lbs (15.42 kg) Packaging: 11" (H) x 26.5" (W) x 34" (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-825BTS-R609WP