

# UP SuperServer SYS-520P-WTR

2U WIO with 8 hot-swap 3.5" SAS/SATA bays and up to 5 PCIe 4.0 slots



More details here

## 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® 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;



<b>Form Factor</b>	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")
<b>Processor</b>	Single Socket P+ (LGA-4189) Intel® Xeon® Scalable Processors Up to 40C/80T; Up to 60MB Cache
<b>GPU</b>	Max GPU Count: Up to 1 double-width or 1 single-width GPU(s) Supported GPU: NVIDIA PCIe: T400, T1000, RTX A4000, RTX A2000 CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect
<b>System Memory</b>	Slot Count: 8 DIMM slots Max Memory (1DPC): Up to 2TB 3200MT/s ECC DDR4 RDIMM/LRDIMM Supports Intel® Optane™ persistent memory 200 series
<b>Drive Bays Configuration</b>	Default: Total 8 bay(s) <ul style="list-style-type: none"> <li>• 8 front hot-swap 3.5" SAS*/SATA drive bay(s)</li> </ul> Option A: Total 10 bay(s) <ul style="list-style-type: none"> <li>• 8 front hot-swap 3.5" SAS*/SATA drive bay(s)</li> <li>• 2 rear hot-swap 2.5" PCIe 4.0 NVMe*/SAS*/SATA drive bay(s)</li> </ul> (*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(s) (M-key 2280/22110; VROC required for RAID)
<b>Expansion Slots</b>	Default <ul style="list-style-type: none"> <li>• 2 PCIe 4.0 x16 FHFL slot(s)</li> <li>• 2 PCIe 4.0 x8 LP slot(s)</li> </ul> Option A* <ul style="list-style-type: none"> <li>• 1 PCIe 4.0 x16 FHFL double-width slot(s)</li> <li>• 2 PCIe 4.0 x8 FHFL slot(s)</li> <li>• 2 PCIe 4.0 x8 LP slot(s)</li> </ul> Option B* <ul style="list-style-type: none"> <li>• 4 PCIe 4.0 x8 FHFL slot(s)</li> <li>• 2 PCIe 4.0 x8 LP slot(s)</li> </ul>
<b>On-Board Devices</b>	SATA: SATA (6Gbps) ; RAID 0/1/5/10 support NVMe: NVMe; RAID 0/1 support(Intel® VROC RAID key required) Chipset: Intel® C621A Network Connectivity: 2 RJ45 10GbE with Intel® X550
<b>Input / Output</b>	LAN: 2 RJ45 1 GbE LAN port(s) 1 RJ45 1 GbE Dedicated IPMI LAN port(s) (IPMI shared on LAN port 1) USB: 2 USB 2.0 port(s) (header) 2 USB 3.2 Gen1 Type-A port(s) (rear) 2 USB 2.0 Type-A port(s) (rear)

2 USB 3.2 Gen1 port(s) (Header)

1 USB 3.2 Gen1 Type-A port(s)

Video: 1 VGA 2.0 port(s)

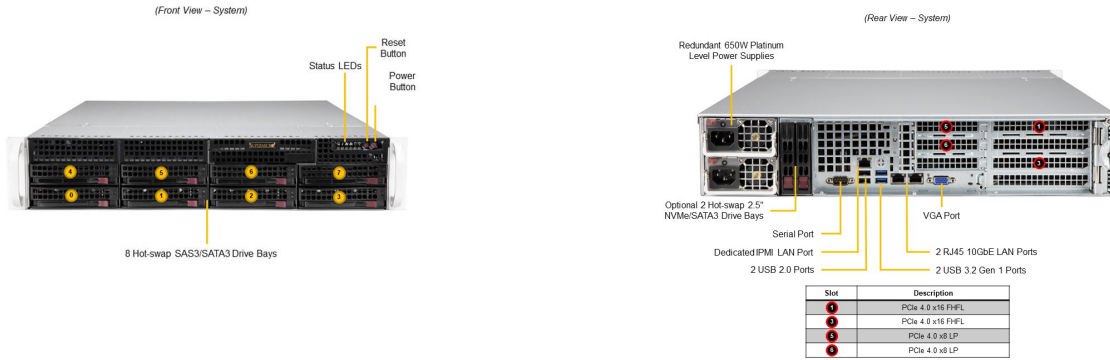
Serial: 1 COM port(s) (Rear)

1 COM port(s) (Header)

DOM: 2 SuperDOM (Disk on Module) port(s) with built-in power

TPM: 1 TPM header

---



System Cooling	Fans: 3 heavy duty PWM 80x80x38mm Fan(s)
Power Supply	2x 650W 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: 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	Weight: Gross Weight: 59 lbs (26.76 kg) Net Weight: 34 lbs (15.42 kg) 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	<a href="#">Super X12SPW-TF</a>
Chassis	<b>CSE-825BTS-R609WP</b>