

# UP SuperServer SYS-510P-MR

1U Mainstream with 4 hot-swap 3.5" NVMe/SAS/SATA bays, 1 PCIe 4.0 x16 slot and redundant PSUs



More details here

## Key Applications

Small Business, Web/Hosting Application, Email/Firewall/Print Server,

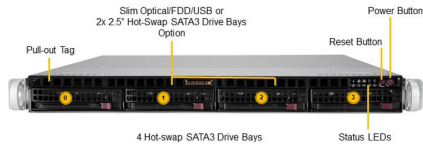
## Key Features

- Single Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 220W TDP.;
- 8 DIMMs; Supports 3DS DDR4-3200: RDIMM/LRDIMM/Intel® Intel® DCPMM;
- 1 PCIe 4.0 x16 (FHHL) slot;
- Intel® Ethernet Controller i350 2x 1GbE RJ45;
- 4x hot-swap 3.5" Hybrid SATA3/NVMe drive bays, SAS3 with additional SAS controller card; Onboard 2x NVMe/SATA M.2;
- Redundant Platinum 400W Power Supply;



<b>Form Factor</b>	<p>1U Rackmount</p> <p>Enclosure: 437 x 43 x 507mm (17.2" x 1.7" x 19.98")</p> <p>Package: 609.6 x 215.9 x 749.3mm (24" x 8.5" x 29.5")</p>
<b>Processor</b>	<p>Single Socket P+ (LGA-4189)</p> <p>3rd Gen Intel® Xeon® Scalable processors</p> <p>Up to 36C/72T; Up to 54MB Cache</p>
<b>GPU</b>	<p>Max GPU Count: Up to 1 single-width GPU(s)</p> <p>Supported GPU: NVIDIA PCIe: T400</p> <p>CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect</p>
<b>System Memory</b>	<p>Slot Count: 8 DIMM slots</p> <p>Max Memory (1DPC): Up to 2TB 3200MT/s ECC DDR4 RDIMM/LRDIMM</p> <p>Supports Intel® Optane™ persistent memory 200 series</p>
<b>Drive Bays Configuration</b>	<p>Default: Total 4 bay(s)</p> <ul style="list-style-type: none"> <li>• 4 front hot-swap 3.5" PCIe 4.0 NVMe*/SAS*/SATA drive bay(s)</li> </ul> <p>(*NVMe/SAS support may require additional storage controller and/or cables, please see the optional parts list for details)</p> <p>M.2: 2 M.2 PCIe 3.0 x4 NVMe/SATA slot(s) (M-key 2280/22110)</p> <p>Peripheral Bays: 2 2.5" bay(s) (optional)</p>
<b>Expansion Slots</b>	<p>Default</p> <ul style="list-style-type: none"> <li>• 1 PCIe 4.0 x16 FHHL slot(s)</li> </ul>
<b>On-Board Devices</b>	<p>SATA: SATA (6Gbps) ; RAID 0/1/5/10 support</p> <p>NVMe: NVMe; RAID 0/1/5/10 support(VROC HW key required)</p> <p>Chipset: Intel® C621A</p> <p>Network Connectivity: 2 RJ45 1GbE with Intel® I350</p>
<b>Input / Output</b>	<p>LAN: 2 RJ45 1 GbE LAN port(s)</p> <p>1 RJ45 1 GbE Dedicated BMC LAN port(s) (IPMI shared on LAN port 1)</p> <p>USB: 4 USB 2.0 port(s) (header)</p> <p>2 USB 3.2 Gen1 Type-A port(s) (rear)</p> <p>2 USB 2.0 Type-A port(s) (rear)</p> <p>2 USB 3.2 Gen1 port(s) (Header)</p> <p>1 USB 3.2 Gen1 Type-A port(s)</p> <p>Video: 1 VGA port(s)</p> <p>Serial: 1 COM port(s) (Rear)</p> <p>1 COM port(s) (Header)</p> <p>DOM: 2 SuperDOM (Disk on Module) port(s) with built-in power</p> <p>TPM: 1 TPM header</p>

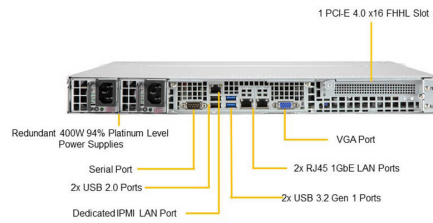
(Front View – System)



Drive Bay	Description
1 2	4x Hot-swap NVMe Hybrid SAS3/SATA3 Drive Bays(Optional)

\*4 NVMe support requires additional parts 2x "CBL-SAST-1264-85" optional  
 \*\* NVMe 3.5" to 2.5" "MCP-220-00138-0B" optional

(Rear View – System)



System Cooling	Fans: 4 middle cooling PWM 40x40x28mm Fan(s) 2 AOC cooling Fan(s) (optional)
Power Supply	2x 400W 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: 30.4 lbs (13.8 kg) Net Weight: 17.6 lbs (8 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="#"><u>Super X12SPO-F</u></a>
Chassis	CSE-813MF2TS-R407CBP2