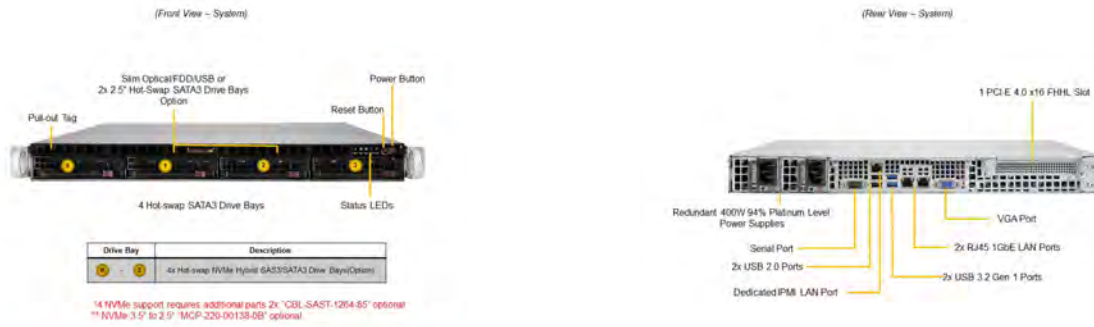# UP SuperServer SYS-510P-MR

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® 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;

Form Factor	1U Rackmount Enclosure: 437 x 43 x 507mm (17.2" x 1.7" x 19.98") Package: 609.6 x 215.9 x 749.3mm (24" x 8.5" x 29.5")
Processor	Support Intel® 3rd Gen Xeon® Scalable Processors Single Socket LGA 4189 (Socket P+) supported TDP up to 220W;
System Memory	8 DIMM slots ECC RDIMM, DDR4-3200MHz ECC LRDIMM, DDR4-3200MHz Intel® DCPMM, DDR4-3200MHz
Drive Bays	4x 3.5" NVMe/SATA drive bays (4x 3.5" NVMe hybrid) 2x PCIe 3.0 x 4 and SATA M-key, 2280, 22110
Expansion Slots	1 PCIe 4.0 x16 FHHL 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 1GbE BaseT with Intel® i350 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: 1 RJ45 Dedicated IPMI LAN port
	    2 RJ45 1GbE LAN ports
	USB: 6 USB 2.0 port(s) (2 rear; 4 headers)
	    5 USB 3.2 Gen 1 port(s) (2 rear; 2 headers; 1 Type A)
	Video: 1 VGA 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	4x (4cm x 4cm x 2.8cm) heavy duty fan(s) 4x (4cm x 4cm x 2.8cm) heavy duty fan(s)
Power Supply	AC and DC 240V Input, 400W, Platinum Level, Redundancy power supply meet PMBus Revision 1.2 requirement,RoHS/REACH Dimension (W x H x L): 54.5 x 40.25 x 220 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: 19.98" (507 mm) Gross Weight: 30.4 lbs (13.8 kg) Net Weight: 17.6 lbs (8 kg) Packaging: 8.5" (H) x 24" (W) x 29.5" (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 X12SPO-F
Chassis	CSE-813MF2TS-R407CBP2