FatTwin SuperServer SYS-F610P2-RTN

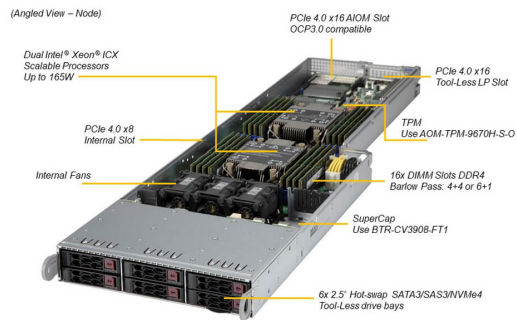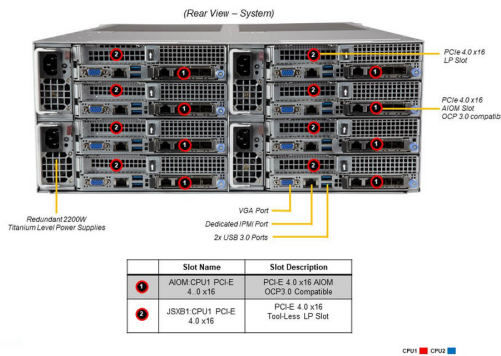4U 8-node FatTwin with 6 2.5" NVMe/SAS/SATA bays per node

Key Applications

Hyperscale / Hyperconverged, HPC and Big Data, Data Center Enterprise Applications, Scale-Out Storage, Virtualization Server, Telco Data Center,

Key Features

- Eight hot-pluggable systems (nodes) in a 4U form factor. Each node supports the following:;
- Socket P+(LGA 4189) Supports 3rd Generation Intel® Scalable Processors (Dual Socket);
- Two M.2 Internal Drives;
- NVMe/SATA/SAS options;
- AIOM and M.2 support; 1 AIOM card support (PCIe 4.0);
- Front access node for better serviceability; 6x 2.5" hot-swap HDDs per node Up to 6x SAS/SATA/NVMe Hot Swap 2.5" Drives;

Form Factor	4U Rackmount Enclosure: 448 x 177 x 737mm (17.63" x 6.96" x 29") Package: (28.3" x 15" x 42.4")
Processor	Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 36C/72T; Up to 54MB Cache per CPU
System Memory	Slot Count: 16 DIMM slots Max Memory (2DPC): Up to 2TB non-ECC DDR4 Supports Intel® Optane™ persistent memory 200 series
Drive Bays Configuration	Default: Total 6 bays • 6 front hot-swap 2.5" NVMe/SAS/SATA drive bays
Expansion Slots	Default • 1 PCIe 4.0 x16 LP slot • 1 PCIe 4.0 x16 AIOM slot (OCP 3.0 compatible)
On-Board Devices	Chipset: Intel® C621A Network Connectivity: 1 RJ45 1GbE
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 ports(rear) Video: 1 VGA port

(Rear View – System)

(Angled View – Node)

Diagram labels (Rear View – System):
- PCIe 4.0 x16 LP Slot
- PCIe 4.0 x16 AIOM Slot OCP 3.0 compatib
- Redundant 2200W Titanium Level Power Supplies
- VGA Port
- Dedicated IPMI Port
- 2x USB 3.0 Ports
- PCIe 4.0 x16 AIOM Slot OCP 3.0 compatib

Diagram labels (Angled View – Node):
- PCIe 4.0 x16 AIOM Slot OCP3.0 compatible
- Dual Intel® Xeon® ICX Scalable Processors Up to 165W
- PCIe 4.0 x16 Tool-Less LP Slot
- PCIe 4.0 x8 Internal Slot
- TPM Use AOM-TPM-9670H-S-O
- Internal Fans
- 16x DIMM Slots DDR4 Barlow Pass: 4+4 or 6+1
- SuperCap Use BTR-CV3908-FT1
- 6x 2.5" Hot-swap SATA3/SAS3/NVMe4 Tool-Less drive bays

	Slot Name	Slot Description
1	AIOM:CPU1 PCI-E 4.0 x16	PCI-E 4.0 x16 AIOM OCP3.0 Compatible
2	JSXB1:CPU1 PCI-E 4.0 x16	PCI-E 4.0 x16 Tool-Less LP Slot

CPU1 ■ CPU2 ■

System Cooling	Fans: Up to 3x 4cm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	1x 2200W Redundant Titanium Level (96%) power supply
System BIOS	BIOS Type: AMI 32MB SPI FLASH ROM
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: 4+1 Phase-switching voltage regulator
	    Monitors for CPU Cores, Chipset Voltages, Memory.
	FAN: Fans with tachometer monitoring
	    Status monitor for speed control
	    Pulse Width Modulated (PWM) fan connectors
	Temperature: Monitoring for CPU and chassis environment

Dimensions and Weight	Weight: Gross Weight: 200 lbs (90.71 kg) Net Weight: 150 lbs (68.04 kg) Available Color: Silver
Operating Environment	RoHS Compliant Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 5% to 95% (8) Non-operating Relative Humidity: 90% to 5% (95)
Motherboard	**Super X12DPFR-AN6**
Chassis	**CSE-F418BC3-R2K20BP**