FatTwin SuperServer SYS-F521E3-RTB

4U 4-Node FatTwin with 8 hot-swap 3.5" NVMe/SAS/SATA drives per node
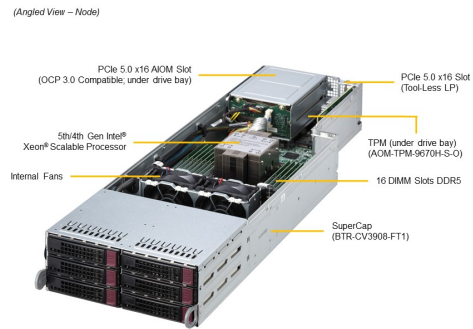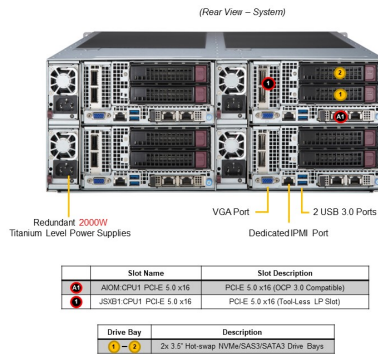
More details here

Key Applications

Hyperscale / Hyperconverged, HPC and Big Data, Data Center Enterprise
Applications, Telco Data Center,

Key Features

- Four hot-pluggable systems (nodes) in a 4U form factor. Each node supports the following:;
- Single Socket E (LGA-4677) Supports 4th/5th Gen Intel® Xeon® Scalable Processors;
- C741 Chipset;
- 2 internal M.2 drives;
- NVMe/SATA/SAS options;
- AIOM and M.2 support; single AIOM card support (PCIe 5.0);
- Up to 8 hot-swap 3.5" SAS/SATA drives, or up to 6 hot-swap 2.5" NVMe drives + 2 hot-swap 3.5" SAS/SATA 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")
Processor	Single Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors Up to 60C/120T; Up to 112.5MB Cache
System Memory	Slot Count: 16 DIMM slots Max Memory (2DPC): Up to 4TB 5600MT/s ECC DDR5
Drive Bays Configuration	Default: Total 8 bays • 2 rear hot-swap 3.5" NVMe/SAS/SATA drive bays • 6 front hot-swap 3.5" NVMe*/SAS*/SATA drive bays (*NVMe/SAS support may require additional storage controller and/or cables) M.2: 2 M.2 PCIe 3.0 x2 NVMe/SATA slots (M-key 2280/22110)
Expansion Slots	Default • 1 PCIe 5.0 x16 LP slot • 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)
On-Board Devices	Chipset: Intel® C741 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)

PCIe 5.0 x16 AIOM Slot
(OCP 3.0 Compatible; under drive bay)

PCIe 5.0 x16 Slot
(Tool-Less LP)

5th/4th Gen Intel®
Xeon® Scalable Processor

TPM (under drive bay)
(AOM-TPM-9670H-S-O)

Internal Fans

16 DIMM Slots DDR5

SuperCap
(BTR-CV3908-FT1)

Redundant 2000W
Titanium Level Power Supplies

VGA Port

2 USB 3.0 Ports

Dedicated IPMI Port

	Slot Name	Slot Description
A1	AIOM:CPU1 PCI-E 5.0 x16	PCI-E 5.0 x16 (OCP 3.0 Compatible)
1	JSXB1:CPU1 PCI-E 5.0 x16	PCI-E 5.0 x16 (Tool-Less LP Slot)

Drive Bay	Description
1 – 2	2x 3.5" Hot-swap NVMe/SAS3/SATA3 Drive Bays

System Cooling	Fans: Up to 2x 8cm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	1x 2000W 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	FAN: Fans with tachometer monitoring
	  Status monitor for speed control
	  Pulse Width Modulated (PWM) fan connectors
	  2 80 mm Heavy Duty Fans per Node
	Temperature: Monitoring for CPU and chassis environment
	CPU: Monitors for CPU Cores, Chipset Voltages, Memory.
	  8+1 Phase-switching voltage regulator

Dimensions and Weight	Weight: Gross Weight: 200 lbs (90.71 kg) Net Weight: 150 lbs (68.04 kg) Available Color: Silver
Operating Environment	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: 8% to 90% () Non-operating Relative Humidity: 5% to 95% ()
Motherboard	**Super X13SEFR-A**
Chassis	**CSE-F424AS4-R2K08BP**