FatTwin SuperServer SYS-F511E2-RT

4U 8-Node FatTwin with 6 hot-swap 2.5" NVMe/SAS/SATA drives per node
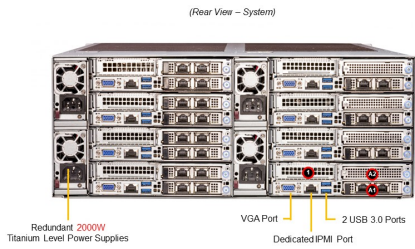
Key Applications

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

Key Features

- Single Socket E (LGA-4677) Supports 4th/5th Gen Intel® Xeon® Scalable Processor;
- C741 Chipset;
- Two M.2 Internal Drives;
- NVMe/SATA/SAS options;
- AIOM and M.2 support; 2 AIOM card support (PCIe 5.0);
- Up to 6x SAS/SATA/NVMe Hot Swap 2.5" Drives;
- Eight hot-pluggable systems (nodes) in a 4U form factor. Each node supports the following:;

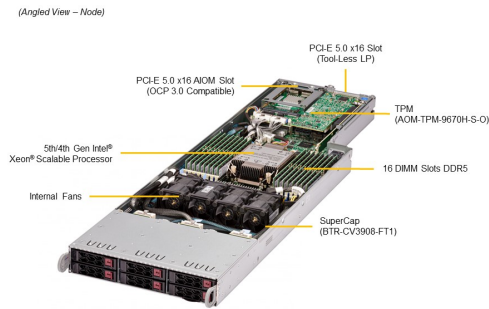|	
Form Factor	4U Rackmount Enclosure: 448 x 177 x 737mm (17.63" x 6.96" x 29") Package: (28.3" x 15" x 42.4")
Processor	Single Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors Up to 60C/120T; Up to 112.5MB Cache
System Memory	Slot Count: 16 DIMM slots Max Memory (2DPC): Up to 4TB 5600MT/s ECC DDR5
Drive Bays Configuration	Default: Total 6 bays • 6 front hot-swap 2.5" 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) • 1 PCIe 4.0 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)

Redundant 2000W
Titanium Level Power Supplies

VGA Port

2 USB 3.0 Ports

Dedicated IPMI Port

PCI-E 5.0 x16 Slot
(Tool-Less LP)

PCI-E 5.0 x16 AIOM Slot
(OCP 3.0 Compatible)

TPM
(AOM-TPM-9670H-S-O)

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

16 DIMM Slots DDR5

Internal Fans

SuperCap
(BTR-CV3908-FT1)

	Slot Name	Slot Description
1	SLOT1:CPU1 PCI-E 5.0 x16	PCI-E 5.0 x16 LP Tool-Less Slot
A1	P1-AIOM:CPU1 PCI-E 5.0 x16	PCI-E 5.0 x16 AIOM OCP 3.0 Compatible Slot
A2	AIOM:CPU1 PCI-E 4.0 x16 (In future: PCI-E 5.0 x16)	PCI-E 4.0 x16 AIOM OCP 3.0 Compatible Slot

CPU1

System Cooling

Fans: 4x 4cm Fan(s)

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
      4 40 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: °C ~ °C (°F ~ °F)
Non-operating Temperature: °C to °C (°F to °F)
Operating Relative Humidity: % to % ()
Non-operating Relative Humidity: % to % ()

Motherboard

Super X13SEFR-A

Chassis

CSE-F418BC4-R2K08BP