X13 FatTwin®

Highly configurable 4U 8-node and 4-node systems

Optimized for Compute or Storage Density

- **Single socket 5th/4th Gen Intel® Xeon® Scalable processors per node**
- **16 DIMM slots per node supporting DDR5-5600MHz**
- **Front accessible service design for cold-aisle serviceability**
- **Hot-swappable drive bays – interchangeable NVMe, SAS or SATA**
- **Improved thermal management with new, optimized airflow designs**

Unified Platform for Compute and Storage

The X13 FatTwin's high-density design offers an advanced multi-node 4U twin architecture with 8 or 4 nodes (single processor per node). Front-accessibility allows cold-aisle servicing, with highly configurable systems optimized for data center infrastructure, optimized for compute or storage density. In addition, FatTwin supports all-hybrid hot-swappable NVMe/SAS/SATA drive bays with up to 6 drives per node (8-node) or up to 8 drives per node (4-node).

Optimized for HCI, Cloud and Virtualization Applications

Supermicro multi-node solutions are designed for applications that require a large number of servers with high-speed interconnects for networked or clustered operations. Providing ultimate flexibility and serviceability, these solutions are ideal for applications such as:

- Hyperscale/Hyperconverged
- Telco Data Center and ETSI certified
- Data Center Enterprise Applications
- HPC and Big Data

Front-Accessible Nodes

The X13 FatTwin architecture provides a front-accessible, hot-swappable node design allowing for cold-aisle serviceability. The system is highly configurable, supporting Supermicro AIOMs (OCP 3.0 compatible) to provide flexible networking options for multiple use cases.

Powered by 5th Gen Intel® Xeon® Processors

Get maximum compute power in a single-socket node, with up to 64 cores in the most advanced Intel Xeon processors ever. Several CPU models are available, with optimizations for storage, cloud or networking workloads as well as built-in accelerator engines. Intel's Data Streaming Accelerator (Intel DSA) offloads common data movement tasks to reduce overhead and increase CPU and memory workload performance, while Intel QuickAssist Technology (Intel QAT) offloads popular compression and cryptographic algorithms, increasing core workload capacity.

FatTwin	SYS-F511E2-RT	SYS-F521E3-RTB
Processor Support (node)	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 350W TDP (air cooled)†	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 350W TDP (air cooled)†
Memory Slots & Capacity (node)	16 DIMM slots; up to 4TB DDR5-5600MT/s	16 DIMM slots; up to 4TB DDR5-5600MT/s
I/O Ports (node)	1 1GbE RJ45 (BMC) ports 1 VGA port, Aspeed AST2600 BMC	1 1GbE RJ45 (BMC) ports 1 VGA port, Aspeed AST2600 BMC
Motherboard (node)	X13SEFR-A	X13SEFR-A
Form Factor	4U Rackmount 737mm/29" depth	4U Rackmount 737mm/29" depth
Expansion Slots (node)	2 AIOM slots 1 PCIe 5.0 x16 LP slot 2 M.2 slots	AIOM slots 1 PCIe 5.0 x16 LP slots 2 M.2 slots
Drive Bays (node)	6 hot-swap 2.5" NVMe/SATA/SAS drive bays;	8 hot-swap 3.5" NVMe/SATA/SAS drive bays;
Cooling (node)	4 heavy duty 4cm fans	2 heavy duty 8cm fans
Power	Redundant 2000W Titanium level (96%)	Redundant 2000W Titanium level (96%)

†CPUs with high TDP supported under specific conditions. Contact Technical Support for details.