2U SuperEdge

High-Density Computing and Flexibility at the Intelligent Edge

- 2U Short-depth, 3-Node System

- Single 3rd Gen Intel® Xeon® Scalable processor per node

- Memory: Up to 32 DIMMs, 8TB DRAM or 12TB DRAM (incl. Intel Optane™ PMem)

- 3 PCI-E 4.0 Slots Per Node

- Operating temperatures from -5ºC to 55ºC

X12 2U, Short-depth, 3-Node, AC

SYS-210SE-31A

Intel 3rd Gen Xeon Processor with 2000W redundant AC Power Supply

X12 2U, Short-depth, 3-Node, DC

SYS-210SE-31D

Intel 3rd Gen Xeon Processor with 2000W redundant DC Power Supply

Data Center Class Performance and Expandability at the Edge

Supermicro's SuperEdge is designed to handle increasing compute and I/O density requirements of modern edge applications. With 3 customizable nodes, each outfitted with a 3rd Gen Intel Xeon Scalable Processor, SuperEdge delivers high-class performance in a 2U, short-depth form factor. Each node is hot-swappable and offers front access I/O, making the system ideal for remote IoT, Edge, or Telco deployments.

Each node can accommodate three PCI-E 4.0 slots, enabling a wide range of add-on cards that allow the SuperEdge to be outfitted for networking, FPGA, DPU, eASIC, and TimeSync Options.

The SuperEdge features an optimized airflow, providing an operating temperate range of -5ºC to 55ºC. Combined with the ability to withstand a wide range of humidity and other environmental conditions, this allows the server to be deployed in harsh conditions outside of a traditional data center.

Key Applications

- Telecom
- ORAN
- IoT/ Intelligent Edge

MODEL	SYS-210SE-31A/D
Processor support	Single 3rd Gen Intel® Xeon® Scalable Processors (ICX SP), up to 205W per node
Key Applications	• Telecom / ORAN • Intelligent Edge
Outstanding Features	• Front hot-swappable nodes with single CPU socket and 8 DIMM design • Front access IO design, and tool less serviceability • Redundant power supply units • Supports carrier-grade operating conditions
Serverboard	X12SPED-F
Chipset	Intel C621A
System Memory (Max.)	8x DIMM slots, DDR4 3200MHz ECC RDIMM, 1 DPC per node Up to 8 TB per node, 12TB (including Intel Optane™ PMem)
Expansion Slots	2x PCI-E 4.0 x16 Full Height / Half Length Slots per node 1x PCI-E 4.0 x16 Half Height / Half Length Slots per node
Onboard Storage Controller	N/a
Connectivity	1x GbE Mgmt RJ45 Ports with I210, NCSI support (share NIC) 1x Console through KVM cable 1x UID, 1x Power button, 4x LED
VGA/Audio	1x VGA through KVM cable
Management	BMC Aspeed AST2600
Drive-Bays	2x Internal NVMe 2280/22110 M.2
Peripheral Bays	N/a
Power Supply	-A: AC/DC Output: 2000W 1+1 redundant power supplies -D: DC/DC Output: 2000W 1+1 redundant power supplies
Cooling System	4x Redundant dual rotor fans per node
Form Factor	2U Rackmount Enclosure: 449 x 88 x 430 mm (17.6" x 3.5" x 16.9")
Node/Sled	3x Hot-swappable 1U CPU node

For more information, visit www.supermicro.com/iot-edge

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