1U Edge Server with Intel® Atom® Grand Ridge Processor

SE110

Senao SE110 is a 1U compact edge server powered by Intel® Atom® Grand Ridge processors, designed for high-density networking, multi-access edge computing (MEC), and secure enterprise gateways. Featuring 8 x 2.5GbE, 4 x SFP+, and 4 x SFP28 ports, it provides exceptional 160 Gbps connectivity and high-speed uplinks. Equipped with an efficient smart fan cooling system and integrated TPM 2.0 / PFR 2.0 security, SE110 provides low-latency compute performance and robust infrastructure protection at the network edge.

Processor

Latest E-core Atom® Processor

Intel® Atom® Grand Ridge SoC with up to 24 cores delivers power-efficient performance for edge workloads

Connectivity

160 Gbps aggregate

8 x 2.5GbE, 4 x 10G SFP+, and 4 x 25G SFP28 ports

Expansion

PCIe Slots

1 x PCIe Gen4 x 16 and 1 x Gen3 x 8

Security

Hardware Root of Trust

TPM 2.0 with optional PFR 2.0 safeguards firmware integrity from power-on through runtime

Memory

DDR5 ECC

2 x DDR5 SO-DIMM slots with ECC

Management

Edge SCM

Optional Edge SCM with BMC and PFR

Storage

NVMe SSD

1 x M.2 2280 NVMe via riser card

Deployment

Compact Short-Depth Design

310 mm depth 1U chassis with 5 x smart fans and one 700W 80 PLUS Platinum PSU fits tight racks

Technical Specifications

Edge Server	
Model Name	1U Edge Server
Model Number	SE110
Form Factor	1U Rackmount
Processor	Intel® Atom® Grand Ridge P6962-3 (24C, 2.2 GHz) P6942-3 (16C, 2.2 GHz) P6922-3 (8C, 2.2 GHz)
GPU	N/A
Memory	2 x DDR5 SO-DIMM Slots
Storage	1 x PCIe Gen3 M.2 2280 Storage via riser
System Cooling	Air Cooling (5 x Smart Fans)
Expansion Slot	1 x PCIe Gen4 x 16 FHFL 1 x PCIe Gen3 x 8 FHFL
I/O Port	8 x 2.5GbE, 4 x SFP+, 4 x SFP28 1 x Micro USB 2 x USB 3.0 type A 1 x RJ45 MGMT Port 1 x Reset Button 1 x Power Button
Power Supply	1 x 700W AC Slim Power Supply, 80 PLUS Platinum
Security and Management	TPM 2.0 Edge SCM (Optional), Platform Firmware Resilience (PFR) 2.0
Dimensions (W x D x H)	438 x 310 x 44 mm

Hardware Overview

SE110 (1U Edge Server)

Front View

Rear View

Senao Networks

Product specifications, configurations, certifications, and availability are subject to change without notice and may vary by region and customer program. Final commitments are governed by the applicable quotation, statement of work, or executed agreement.