

# Edge-6250

Xeon-6 SOC CEB

Intel 2U Xeon-6 SOC MEC Server



## Overview

The EdgeNectar Edge-6250 is a 2U edge server powered by the latest 6th Gen Intel® Xeon® SoC, delivering high compute density and efficient performance for edge and MEC applications. Designed for reliability with redundant power and hot-swap cooling, the Edge-6250 ensures stable operation in demanding environments. It is ideal for vRAN, private 5G, AI inference, and industrial edge deployments.

## Key Features

- Single 6th Generation Intel® Xeon® SoC Processor (12C to 72C)
- DDR5 4800-6400 MT/s RDIMM Memory
  - HCC: 4 × DIMM Slots
  - XCC: 8 × DIMM Slots
- Onboard 8 × 25 Gb/s SFP28 Ports (via SoC built-in network controller)
- 2 × 1 Gb/s RJ45 Ethernet Copper Ports
- 6 × 3.5" SATA Hot-Swap Storage Bays
- 2 × M.2 2280 SATA Storage Bays, supporting RAID 0/1
- Configure 1: 1× PCIe 5.0 x16(Bandwidth x8) FHFL Singel-Slot + 1× PCIe 5.0 x8(Bandwidth x8) FHFL Dual-Slot
- Configure 2: 1× PCIe 5.0 x16(Bandwidth x16) FHFL Dual-Slot + 1× PCIe 4.0 x8(Bandwidth x8) HHFL Single-Slot

## Applications

- **Small Cell / vRAN Platform** – Supports distributed and centralized RAN (DU/CU) deployments.
- **MEC / Edge Cloud Node** – Provides low-latency compute for edge services such as IoT, video analytics, and AR/VR.
- **Private 5G** - Delivers high-performance compute for integrated 5G core and RAN functions in enterprise, campus, or industrial networks.
- **AI Inference & Edge Analytics** – Handles real-time processing for AI workloads and data-driven applications.

- **Industrial Edge / Smart Factory** – Supports automation, monitoring, and control systems in harsh environments.

### Product Appearance



### Technical Specifications

<b>Motherboard</b>	Xeon-6 SOC CEB
<b>System</b>	19" Standard Rack-Mountable, 2RU, Dimensions (Length x Width x Height): 450.0 mm x 447.0 mm x 87.0 mm
<b>CPU</b>	6th Generation Intel® Xeon® SOC Processor, supporting HCC (12C to 42C) and XCC (56C to 72C); supporting vRAN, QAT, and Media hardware accelerators
<b>Memory</b>	DDR5 4800-6400 MT/s RDIMM, HCC: 4 x DIMMs, XCC: 8 x DIMMs
<b>Storage</b>	2 x M.2 2280 M-key SATA Storage (supports RAID 0/1); 6 x 2.5" SATA Storage Bays
<b>I/O</b>	8 x 25G GbE SFP28 Ports; 2 x 1GbE RJ45 Copper Ports; 1 x GbE RJ45 for BMC; 2 x USB3.2/2.0 Type A; 1 x VGA; 1 x COM; 3x SMA (PPS in, PPS out, GPS antenna)
<b>Buttons</b>	1 x Power On/Off, 1 x System Reset, 1 x UID
<b>LED Indicators</b>	1 x Power Status, 2 x LAN Activity, 1 x UID, 1 x HDD Status, 1 x System Alarm
<b>PCIe Expansion</b>	<b>Configure 1:</b> 1x PCIe 5.0 x16(Bandwidth x8) FHFL Singel-Slot 1x PCIe 5.0 x8(Bandwidth x8) FHFL Dual-Slot <b>Configure 2:</b>

	1 × PCIe 5.0 x16 (bandwidth x16) FHFL Dual-Slot Slot 1 × PCIe 4.0 x8 (bandwidth x8) HHFL Single-Slot GPU Slot
<b>BMC</b>	Aspeed® AST2600
<b>TPM</b>	Optional TPM 2.0 support
<b>Clock</b>	Optional clock card supporting GPS, 1588/SyncE
<b>Rails</b>	Optional rail installation support
<b>Fans</b>	4 sets of hot-swap fans
<b>Power Supply</b>	800W CRPS AC/DC Power Supply
<b>Environment</b>	Operating: -5°C to +55°C, 10%-85% RH @40°C, non-condensing; Storage: -40°C to +70°C, 5%-90% RH, non-condensing

Contact Us

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