

# GP-6470

Xeon-6 SOC CEB

Intel 4U Xeon-6 SOC 19-inch Rackmount Server



## Overview

The EdgeNectar Tower-6470 is a 4U high-performance rack-mountable server powered by a 6th Generation Intel® Xeon® SoC processor, supporting up to 72 cores with hardware accelerators for vRAN, media processing, and AI workloads. Its modular architecture and robust BMC management make it ideal for demanding enterprise, edge, and AI-driven applications.

## Key Features

- Single 6th Generation Intel® Xeon® SoC Processor (12C~72C)
- DDR5 4800-6400 MT/s RDIMM Memory
  - HCC: 4 × DIMM Slots
  - XCC: 8 × DIMM Slots
- On-board 8 × 25 Gb/s SFP28 Optical Ports (via the built-in NIC of the SoC)
- 2 × 1 Gb/s RJ45 Ethernet Copper Ports
- 6 × 3.5" SATA Drive Bays (up to 12 × 3.5" via a storage expansion card)
- 24 × 2.5" SATA via storage expansion card
- 2 × M.2 2280 SATA Storage Slots, supporting RAID 0/1
- Configure 1: 3 × PCIe Gen5 x16(x8 bandwidth) Full-Height Full-Length Dual-Slot GPU Expansion Slots + 1 × PCIe Gen4 x16(x8 bandwidth) Full-Height Full-Length Dual-Slot GPU Expansion Slots + 1 × PCIe Gen4 x16(x8 bandwidth) Full-Height Full-Length (FHFL) Single-Slot GPU Expansion Slots
- Configure 2: 2 × PCIe Gen5 x16 Full-Height Full-Length (FHFL) Dual-Slot GPU Expansion Slots + 1 × PCIe Gen4 x8 Full-Height Full-Length (FHFL) Single-Slot GPU Expansion Slots

## Applications

- **VDI/Virtual Desktop Infrastructure** – Scalable virtual desktop hosting with high-performance computing and storage.

- **NetSec AI AIO** - Comprehensive platform combining unified network security with advanced AI-driven analytics.
- **Edge AI & Analytics** – Real-time AI inference and analytics at the network edge.
- **Media Transcoding & Streaming** – High-performance video encoding and low-latency content delivery.

### Product Appearance



### Technical Specifications

<b>Motherboard</b>	Xeon-6 SOC CEB
<b>System</b>	19-inch standard rackmount installation, 4RU, Dimensions (Length × Width × Height): 650.0 mm × 437.5 mm × 176.5 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 × DIMMs, XCC: 8 × DIMMs
<b>Storage</b>	2 × M.2 2280 M-key SATA Storage: supporting RAID 0/1 6 × 3.5" SATA (up to 12 × 3.5" via storage expansion card) 24 × 2.5" SATA via storage expansion card
<b>I/O</b>	8 × 25G GbE SFP28 Optical Ports (Rear) 2 × 1GbE RJ45 Copper Ports (Rear) 1 × GbE RJ45 for BMC (Rear) 2 × USB3.2/2.0 Type A (Rear) 1 × VGA (Rear) 1 × COM (Rear) 2 × 2.0 Type A (Front)

<b>Buttons</b>	1 × Power On/Off, 1 × UID
<b>LED Indicators</b>	1 × Power Status, 1 × System Alert, 1 × HDD Activity, 2 × LAN Activity
<b>PCIe Expansion</b>	<p><b>Configure 1:</b></p> <p>3 × PCIe Gen5 x16(x8 bandwidth) Full-Height Full-Length Dual-Slot GPU Expansion Slots</p> <p>1 × PCIe Gen4 x16(x8 bandwidth) Full-Height Full-Length Dual-Slot GPU Expansion Slots</p> <p>1 × PCIe Gen4 x16(x8 bandwidth) Full-Height Full-Length (FHFL) Single-Slot GPU Expansion Slots</p> <p><b>Configure 2:</b></p> <p>2 × PCIe Gen5 x16 FHFL Dual-Slot GPU Expansion Slots</p> <p>1 × PCIe Gen4 x8 FHFL Single-Slot GPU Expansion Slot</p>
<b>BMC</b>	Aspeed® AST2600
<b>TPM</b>	Optional TPM 2.0 Support
<b>Rail Kit</b>	Optional rail kit installation support;
<b>Fans</b>	3 × 12038 Fans, with 2 optional 8038 Fans
<b>Power Supply</b>	CRPS 2000W Power Supply, optional 2400W Power Supply support

Contact Us

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