# RELION XE2242E SERVER

## A HIGH DENSITY 2U - 4 NODE SERVER FOR AI AND HPC WORKLOADS

**PENGUIN COMPUTING**



## OVERVIEW

The Penguin Computing Relion® XE2242e server is a high density 2U - 4 node server powered by dual socket Intel® Xeon® Scalable Processors with support for Intel® Optane™ 200 series persistent memory . Intel® Xeon® Scalable Processors take AI performance to a whole new level, and are optimized specifically for architectures including TensorFlow, PyTorch, and OpenVINO.

## FEATURES & BENEFITS

- Dual Intel® Xeon® Scalable Processors per node at up to 205W each for performance configurations
- Up to 3TB DDR4-3200MHz or 6TB with Intel® Optane™ 200 series persistent memory (24x DIMMs) per node to deliver speed and efficiency for data-intensive workloads
- Storage density for two M.2 drives per node with NVMe support
- Up to two PCI Express x16 Gen 4 low profile slots per node

| FEATURE | TECHNICAL SPECIFICATIONS | |
| --- | --- | --- |
| Form Factor | 2U - 4 Node Rackmount | |
| Processors | Processor Number: | 2 per node / 8 total |
| | Processor Type: | Intel® Xeon® Scalable Processors |
| Motherboard | Chipset: | Intel® C621A Series Chipset |
| Board Management | BMC Chipset: | ASpeed AST2500 |
| | IPMI 2.0: | Yes |
| Memory | Memory Type: | DDR4-3200MHz ECC |
| | Memory Capacity: | Up to 3TB DDR4 Memory Capacity per Processor -or Up to 6TB with Intel® Optane™ 200 persistent memory (24x DIMMs)- |
| Hard Drive Bays | M.2 NVMe: | Up to 2x M.2 Drives per node |
| Networking: | Ethernet Controller: | Intel® x550 |
| | On-Board LAN: | 1x 10GbE/RJ45 + 1x 1GbE/RJ45 per node |
| PCIe Expansion Slots: | Number of Slots/Gen/Speed (Size) | |
| | 2 x Gen4 PCIeX16 per node / 8 x PCIeX16 total | |

| FEATURE | TECHNICAL SPECIFICATIONS | |
|---|---|---|
| GPU | GPU Capable: | No |
| External I/O Interfaces | Serial Ports: | Via Debug Dongle (Optional) |
| | USB Ports: | Via Debug Dongle (Optional) |
| | VGA Ports: | Via Debug Dongle (Optional) |
| Power System | Power Supply Size: | 3 x 2100W Power Supply |
| Regulatory Compliance | Regulations: | CE, FCC |
| Mounting Hardware | Rackmount Rails: | Standard Rails included |
| Operating Environment | Operating Temperature: | 15C to 35C (59F to 95F) |
| | Non-operating Temperature: | **0C to 70C (0F to 158F)** |
| | Operating Relative Humidity: | 30% to 80% (non-condensing) |
| | Non-operating Relative Humidity: | 5% to 90% (non-condensing) |
| System Dimensions | Height: 3.42"     Width: 17.57" | Depth: 35.83" |
| Warranty | 3 Year Standard; Up to 4 years on-site available | |

## Learn More
Configure your ideal server at www.penguincomputing.com.

For pricing on your specific configuration,
contact a representative by email at sales@penguincomputing.com or call 1-888-PENGUIN (736-4846).

## Purchase with Financing
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## About Penguin Computing, a SMART Global Holdings Company
Penguin Computing, a U.S.-based global provider of high-performance computing (HPC), artificial intelligence (AI) and machine learning, and data center solutions, has been serving industry for over 20 years. Penguin offers a comprehensive portfolio of hardware and software including solutions based on the Open Compute Project (OCP), as well as extensive services including financing and top-rated customer support. Penguin Computing products include Linux-based servers, software, integrated turn-key clusters, enterprise-grade storage, and bare metal HPC, all available in hardware or cloud-based solutions via Penguin Computing® On-Demand™ (POD). Penguin Computing is a subsidiary of SMART Global Holdings, Inc.

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