

RELION XE2142 SERVER

A VERSATILE, SCALABLE 2U - 4 NODE SERVER FOR DATA CENTER AND HPC WORKLOADS



OVERVIEW

Modern data centers need flexible computing resources that can be deployed at scale. The Penguin Computing Relion[®] XE2142 Server provides four individual nodes in a 2U form factor, each built with dual Intel[®] Xeon[®] Scalable processors, fast and efficient memory, and up to twenty-four (24) 2.5" drive bays per chassis for flexible and dense storage. With powerful compute and dense storage in a single server, the Relion XE2142 Server is an optimal platform for data center and HPC deployments at scale.

FEATURES & BENEFITS

- Dual Intel[®] Xeon[®] Scalable Processors per node at up to 165W each for performance configurations
- Up to sixteen (16) DDR4-2933MHz ECC memory modules per node to deliver speed and efficiency for data-intensive workloads
- Storage density for twenty-four (24) 2.5" hot-swap drive bays with SAS/SATA and up to two (2) NVMe support
- One (1) PCI Express x16 and x8 Gen 3 low profile slot plus one (1) OCP mezzanine slot for additional connectivity

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 Lewisburg C620 Series Chipset
Board Management	BMC Chipset: ASpeed AST2500 Dedicated BMC Interface: RJ45 IPMI 2.0: Yes
Memory	Memory Type: DDR4-2933MHz ECC, Intel [®] Optane™ DC Persistent Memory Memory Capacity: Up to 2TB DDR4 / 4TB with Intel [®] Optane™ DC Persistent Memory (16x DIMMs)
Hard Drive Bays	2.5": 24x Hotswap SAS/SATA (6 per node) U.2 NVMe (2.5"): Up to 2x U.2 Drives per node
Networking	Ethernet Controller: Intel X550 On-Board LAN: 2x RJ-45/10GbE
PCI Expansion Slots	Number of Slots/Gen/Speed (Size) 1x Gen3 PCIe x16 (LP) or 1x Gen3 PCIe x8 (LP), 1x OCP Mezz

FEATURE	TECHNICAL SPECIFICATIONS	
GPU:	GPU Capable:	No
External I/O Interfaces	USB Ports:	2x USB 3.0
	VGA Ports:	Yes
	Serial Ports:	None
Power System	Power Supply Size:	2x 2200W 80Plus Platinum
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: 3.44" Width: 17.24" Depth: 32.28"	
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).

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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 the industry for over 20 years. Penguin Computing 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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