RELION XO1222E SERVER

A HIGH DENSITY 1OU - 2 NODE OPEN COMPUTE SERVER FOR AI AND HPC WORKLOADS

OVERVIEW

The Penguin Computing Relion® XO1222e server, a member of the Tundra® AP server family, is a high density 1OU - 2 Node Open Compute® server powered by dual socket Intel® Xeon® Scalable 3rd Gen Processors with support for Intel® Optane™ 200 Series persistent memory. Relion XO1222e uses Intel Server System D50TNP with the Tundra AP chassis, making it compatible with the Open Compute infrastructure. This enables access to improved rack-level power distribution and direct-to-chip liquid cooling for increased rack server density over 19" EIA racks. Relion XO1222e solves both accelerated data-intensive workload challenges and Infrastructure and cooling challenges in one scalable server.

FEATURES & BENEFITS

- High density 1OU - 2 node Open Compute® server for AI and HPC workloads
- Dual Intel® Xeon® Scalable 3rd Gen Processors per node at up to 205W each for performance configurations
- Up to 3TB DDR4-3200MHz or 6TB with Intel® Optane™ 200 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	1U Rackmount	
Processors	Processor Number:	2 per node / 4 total
	Processor Type:	Intel® Xeon® Scalable 3rd Gen Processors
Motherboard	Chipset:	SoC
Board Management	BMC Chipset:	ASpeed AST2500
	IPMI 2.0:	Yes
Memory	Memory Type:	DDR4-3200MHz; support for Intel® Optane™ 200 Series persistent memory
	Memory Capacity:	Up to 12TB
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)	
	2x PCIe Gen4 x16 (LP) per node	

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:	OCP Rack V.2 (3 x 48V Busbar)
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 & Weight	Height: 1.65" Width: 21.14" Depth: 31.32"	
Warranty	3 Year Standard; Up to 4 years on-site available	

Learn More

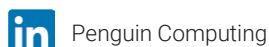Configure your ideal server at www.penguincomputing.com.

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 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., and the cornerstone of SMART's newest business unit, Specialty Compute & Storage Solutions (SCSS).

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