

RELION X01132G

A FAST, EXTREMELY DENSE 10U OCP SERVER
FOR DATA-INTENSIVE WORKLOADS



OVERVIEW

As more organizations move to infrastructure based on the Open Compute Project (OCP), servers that comply with the highly-efficient OCP form factor design while also providing the performance necessary for modern HPC needs are increasingly important. That's why the Penguin Computing Relion® X01132g Server includes flexible storage options, fast and efficient memory modules, and powerful processors. As an extremely dense solution, up to three Relion X01132g Servers can be built in 10U. Choose the Relion X01132g Server for your most demanding, data-intensive workloads while also improving your datacenter's efficiency, or as a basis for aTundra® Extreme Scale HPC System.

FEATURES & BENEFITS

- A flexible 10U, 1/5 width OCP server, ideal for general purpose HPC workloads
- Supports two (2) Intel® Xeon® Scalable Processors at up to 165W each with 2TB of DDR4-2666MHz ECC memory for lightning-fast performance
- Up to 16 DDR4-2666MHz ECC memory modules per system delivers speed and efficiency for data-intensive workloads
- Various NVMe/SAS/SATA drive options enable fast, direct storage tailored to your workload

FEATURE	TECHNICAL SPECIFICATIONS
Form Factor	20U - 3 Node OpenRack
Processors	Processor Number: 2 Processor Type: Intel® Xeon® Scalable Processors
Motherboard	Chipset: Intel Lewisburg C620 Series
Board Management	BMC Chipset: ASpeed AST2400 Dedicated BMC Interface: RJ-45
Memory	Memory Type: DDR4-2666MHz ECC Memory per node Memory Capacity: Up to 2TB (16x DIMMs)
Storage System	Hard Drive Bays: 2x SAS/SATA/SSD, 2x U.2 NVMe, up to 4x M.2 NVMe
Networking:	Ethernet Controller: Intel X550 On-Board LAN: 2x 10GbE/RJ-45
PCIe Expansion Slots:	Number of Slots/Gen/Speed (Size) 1x PCIe Gen3 x16 (LP), 1x PCIe Gen3 x8 (LP), 1x OCP Mezzanine Expansion Slots

FEATURE	TECHNICAL SPECIFICATIONS		
GPU	GPU Capable:	Yes	
Supported GPUs	NVIDIA® Tesla P100, NVIDIA Tesla V100		
Mezzanine Options:	Storage	LSI3008 Int.	
	Network	Dual 10G/SFP+ (BCM57810S) Single 10G/SFP+ (BCM57811) Dual 10G/SFP+ (Intel 82599ES) Single 10G/SFP+ (Intel 82599EN)	
External I/O Interfaces	USB 3.0:	2x	
	VGA Ports:	No	
Mounting Hardware	Open Rack:	Open Rack Shelf	
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: 1.69"	Width: 6.93"	Depth: 31.22"
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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