

Relion[®] XE2312 Server

A Versatile 2U Server for HPC, Enterprise,
and Hyper-Scale Deployments

Key Features

- ▶ Dual socket Intel[®] Xeon[®] Scalable processor
- ▶ Up to 8TB DDR5-4800MHz (32x DIMMs) memory
- ▶ 4x FHHL PCIe Gen5 x16
- ▶ 28 x 2.5" hot-swappable drive bays (up to 24x U.2/SATA or 16x SATA)

Modern data centers need flexible computing resources that can be deployed at scale. The Penguin Computing[®] Relion[®] XE2312 server provides a perfect balance of the latest Intel Xeon 4th Generation Scalable processors along with dense storage availability, allowing up to 28 x 2.5" drive bays with SATA and NVME U.2 support. With this much compute and dense storage in a single server, the Relion[®] XE2312 server is an optimal platform for Cloud and HPC deployments at scale.



Technical Specifications

Form Factor

Form factor	2U Rackmount
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Processors

Processor Number	2
Processor Type	Intel® Xeon® Scalable Processor, Sapphire Rapids (SPR)
Maximum TDP	270~350W

Motherboard

Chipset	SoC
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Board Management

BMC Chipset	ASpeed AST2600
Dedicated BMC Interface	RJ45
IPMI 2.0	Yes
Virtual Media Over LAN	Yes
KVM Over LAN	Yes
RedFish	Yes

Memory

Memory Type	DDR5-4800MHz
Memory Capacity	Up to 4TB per socket

Storage System

Hard Drive Bays	U.2 NVMe (2.5")	Up to 24
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Networking

Ethernet Controller	Intel i350-AT2
On-Board LAN	2x 1GbE/RJ45

PCI Expansion Slots

Number of Slots/Gen/Speed (Size)	4xPCIe Gen 5 x16 FHHL as per R283-S92-AAE1 spec
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External I/O Interfaces

USB Ports	2 x USB 3.0
VGA Ports	1x MiniDP

Supported Operating System

Supported OS	RHEL, Rocky
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Power System

Power Supply Size	2x 2000W 80+ Platinum as per R283-S92-AAE1 Spec
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Regulatory Compliance

Regulations	CE, FCC
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Mounting Hardware

Rackmount Rails	Standard Rails included
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Operating Environment	
Operating Temperature	10C to 35C (50F to 95F)
Non-operating Temperature	0C to 60C (32F to 140F)
Operating Relative Humidity	30% to 80% (non-condensing)
Non-operating Relative Humidity	20%-95% (non-condensing)
System Dimensions & Weight	
Height	3.44 inches
Width	17.2 inches
Depth	32.1 inches
Machine Weight	Approximately 55 lbs
Shipping Weight	Approximately 65 lbs
Warranty	
Warranty	3 Year Standard; Up to 4 years on-site available

Learn More

Visit www.penguincomputing.com to learn more about our servers.

ABOUT PENGUIN SOLUTIONS

An **SGH**™ Brand

Penguin Solutions accelerates digital transformation with the power of emerging technologies in HPC, AI, and IoT with solutions and services that span the continuum of edge, core, and cloud.

Penguin Computing specializes in innovative and emerging technologies for the world's most demanding workloads.



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