

Relion[®] XE1312 Server

A Versatile, Scalable 1U Server for Cloud
and HPC Workloads

Key Features

- ▶ Dual Intel[®] Xeon[®] Scalable processors at up to 350W each for performance configurations
- ▶ Up to 8TB DDR5-4800MHz (32 DIMMs) to deliver speed and efficiency for data-intensive workloads
- ▶ Storage density for up to 12 x 2.5" hot-swap drive bays with SAS/SATA and NVMe support
- ▶ Up to two PCI Express x16 Gen 5 low profile slots plus two OCP mezzanine slots for additional connectivity

Modern data centers need flexible computing resources that can be deployed at scale. The Penguin Computing[®] Relion[®] XE1312 server provides dual Intel[®] Xeon[®] Scalable processors, fast and efficient memory, and up to 12 x 2.5" drive bays for flexible and dense storage. With powerful compute and dense storage in a single server, the Relion XE1312 server is an optimal platform for Cloud and HPC deployments at scale.



Technical Specifications		
Form Factor		
Form factor	1U Rackmount	
Processors		
Processor Number	2	
Processor Type	Intel® Xeon® Scalable Processor, Sapphire Rapids (SPR)	
Maximum TDP	270~350W	
Motherboard		
Chipset	SoC	
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")	12
Networking		
Ethernet Controller	Intel I350	
On-Board LAN	2x 1GbE/RJ45	
PCI Expansion Slots		
Number of Slots/Gen/Speed (Size)	2x PCIe Gen5 x16 FHHL	
Mezzanine Expansion Options		
OCP Mezzanine	Storage OCP Mezz	N/A
	Network OCP Mezz	2
Supported Operating System		
Supported OS	RHEL, Rocky	
Power System		
Power Supply Size	2x 1600W PSU, 80Plus Platinum or 2x 2000W PSU, 80Plus Platinum	
Regulatory Compliance		
Regulations	CE, FCC	
Mounting Hardware		
Rackmount Rails	Standard Rails Included	

Operating Environment	
Operating Temperature	10°C to 35°C
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	1.69 inches
Width	17.2 inches
Depth	28.7 inches
Machine Weight	Approximately 46 lbs
Shipping Weight	Approximately 60 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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