

Relion[®] XE5318GTS GPU Server

Dense GPU Support and Maximum P2P Performance with NVIDIA[®] NVLink[®] and NVSwitch[™] technology

Key Features

- ▶ Dual 4th Gen Intel[®] Xeon[®] Scalable Processors
- ▶ Up to 32 DDR5-4800MHz memory modules to deliver speed and efficiency for data-intensive workloads
- ▶ Storage density for up to 8x 2.5" hot-swap drive bays with SATA and NVMe support
- ▶ Supports up to 8x NVIDIA SXM5 GPUs with Dedicated GPUDirect RDMA NICs

Graphics Processing Units (GPUs) have quickly established themselves as the computing tools of the future. As the growth rate of Central Processing Unit (CPU) speeds slows down, GPUs can offload compute-intensive functions from CPUs and accelerate your time-to-results. The Penguin Computing[™] Relion[®] XE5318GTS server is built on the latest technology offering the maximum amount of interconnected GPUs to process intense amounts of data with the least amount of latency.



Technical Specifications		
Form Factor		
Form factor	5U Rackmount	
Processors		
Processor Number	2	
Processor Type	4 th Gen Intel® Xeon® Scalable Processors	
Maximum TDP	350W	
Motherboard		
Chipset	Intel® C741 Chipset	
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 8TB DDR5-4800MHz (32 DIMMs)	
Storage System		
Hard Drive Bays	SATA/U.2 NVMe (2.5")	8 Hot-Swappable Bays
Networking		
Ethernet Controller	Intel® X710-AT2	
On-Board LAN	2x 10GbE/RJ45	
PCI Expansion Slots		
Number of Slots/Gen/Speed (Size)	12x PCIe Gen5 x16 LP Slots, 1x PCIe Gen4 x16 LP Slot	
GPU		
GPU Capable	Yes, 8x NVIDIA SXM5	
GPU Supported	NVIDIA HGX™ H100	
External I/O Interfaces		
USB Ports	2x USB 3.2 Gen1	
VGA Ports	1x VGA	
Supported Operating System		
Supported OS	RHEL, Rocky	
Power System		
Power Supply Size	6x 3000W 80Plus Titanium	
Regulatory Compliance		
Regulations	CE, FCC	
Mounting Hardware		
Rackmount Rails	Standard Rails included	

Operating Environment	
Operating Temperature	10C to 35C (50F to 95F)
Non-operating Temperature	0C to 60C (32F to 140F)
Operating Relative Humidity	8% to 80% (non-condensing)
Non-operating Relative Humidity	20% to 95% (non-condensing)
System Dimensions & Weight	
Height	8.75 inches
Width	17.60 inches
Depth	37.20 inches
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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