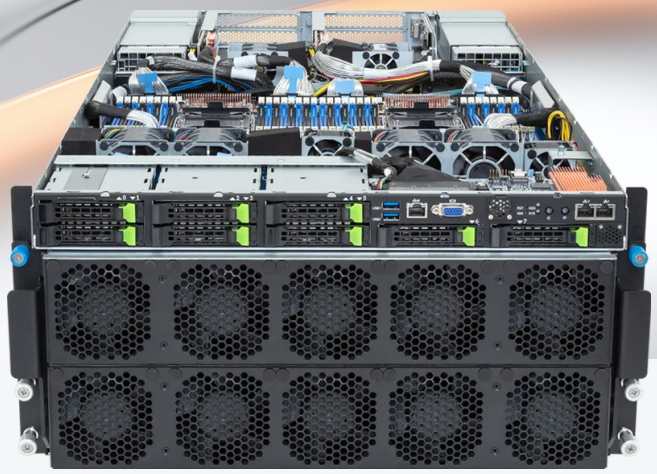
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Datasheet

Relion XE5318GTO GPU



Dense GPU support and maximum P2P performance with AMD MI300X with infinity fabric technology.

Overview

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 Solutions® Relion® XE5318GTO OAM 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.

Key Features

- Dual 5th Gen Intel® Xeon® Scalable Processors.
- Up to 32 DDR5-5600 MT/s 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 8 x AMD MI300X OAM GPUs.

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Technical Specifications

Form Factor	
Form Factor	5U Rackmount
Processors	
Processor Number	2
Processor Type	5th/4th 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	DDR5-5600 MT/s (1DPC), DDR5-4800 MT/s (2DPC)
Memory Capacity	Up to 8TB (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 AMD MI300X
GPU Supported	AMD Instinct MI300X
External I/O Interfaces	
USB Ports	2x USB 3.2 Gen1
Video Output	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 Years Standard; For details see the MPSA

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Contact Us

For sales queries, please contact sales@penguinsolutions.com.

To learn more about the Relion XE5318GTO OAM GPU Server and other Penguin Solutions products, please visit: www.penguinsolutions.com

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