

Relion[®] XE4318GT GPU Server

Ultra-dense 4U GPU server with maximum uptime and industry-leading load efficiency supporting latest 4th Gen Intel[®] Scalable Processors

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
- ▶ Supports up to 8 double slot GPUs and 10x PCIe Gen5 low-profile cards
- ▶ Storage for up to 12 x 2.5"/3.5" SATA hot-swap drive bays with U.2 NVMe support

If your organization is like the many others choosing to build their cluster around graphics processing units (GPUs), accelerate your time-to-results with the Penguin Computing[™] Relion[®] XE4318GT server and its 8 GPU capacity. Choose the Relion[®] XE4318GT server for complex compute applications and mission-critical projects requiring the most powerful 4th Gen Intel[®] Xeon[®] Scalable Processors along with the latest in GPU-accelerator technology.



Technical Specifications

Form Factor

Form factor	4U 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 (3.5"/2.5")	12 Hot-Swappable Bays
-----------------	---------------------------	-----------------------

Networking

Ethernet Controller	Intel® X710-AT2
On-Board LAN	2x 10GbE/RJ45

PCI Expansion Slots

Number of Slots/Gen/Speed (Size)	8x PCIe Gen5 x16 FHFL (GPU), 8x PCIe Gen5 x16 LP Rear Slots, 2x PCIe Gen5 x16 LP Front Slots
----------------------------------	--

GPU

GPU Capable	Yes
GPU Supported	NVIDIA H100 PCIe

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	4x 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	6.93 inches
Width	17.64 inches
Depth	34.65 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.



© 2023 Penguin Computing, Inc. All rights reserved. Penguin Computing and Altus are trademarks or registered trademarks of Penguin Computing. All other product names, trademarks and registered trademarks are the property of their respective owners. All company, product and service names used in this document are for identification purposes only. Use of these names, trademarks and brands does not imply endorsement.