Relion® XE2318GT GPU Server

High-efficiency 2U server with dense GPU support for maximum uptime supporting latest 4th Gen Intel® Scalable Processors

Key Features

- Dual 4th Gen Intel® Xeon® Scalable Processors
- Up to 24 DDR5-4800MHz ECC memory modules to deliver speed and efficiency for data-intensive workloads
- Supports up to 8 double slot GPUs and 2x PCIe Gen5 low-profile cards
- Storage for up 8 x 2.5” SATA hot-swap drive bays with an option for 4 x U.2 NVMe

As more organizations look to grow their compute capabilities, they look to GPU accelerators to do so. Deploying GPU’s allows you to offload compute-intensive functions from CPUs, massively improving processing times. This is why workloads like artificial intelligence and deep learning, which need immense computing resources to process extreme amounts of data, benefit from GPU density. The Penguin Computing™ Relion® XE2318GT server packs 8 GPUs in a 2U rackmount form factor along with two 4th Gen Intel® Xeon® Scalable Processors. Choose the Relion® XE2318GT server to power data-intensive workloads that need the computing power of GPU accelerators.
## Technical Specifications

### Form Factor
- Form factor: 2U Rackmount

### Processors
- Processor Number: 2
- Processor Type: 4th Gen Intel® Xeon® Scalable Processors
- Maximum TDP: 225W

### 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 6TB DDR5-4800MHz (24 DIMMs)

### Storage System
- Hard Drive Bays: SATA (2.5") 4 Hot-Swappable Bays, SATA/U.2 NVMe (2.5") 4 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), 2x PCIe Gen5 x8 LP

### 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: 2x 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 | 3.44 inches |
| Width | 17.64 inches |
| Depth | 31.50 inches |

### Warranty

| Warranty | 3 Year Standard; Up to 4 years on-site available |

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Learn More

Visit [www.penguincomputing.com](http://www.penguincomputing.com) to learn more about our servers.

ABOUT PENGUIN SOLUTIONS

An SGHI™ 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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