

# RELION XE4118GT

ULTRA-DENSE 4U GPU SERVER WITH MAXIMUM UPTIME AND INDUSTRY-LEADING LOAD EFFICIENCY




## OVERVIEW

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® XE4118GT and its 10 GPU capacity. Feel confident in uptime capability with 3 2200W 80 Plus Titanium power supplies and the best load efficiency on the market. Choose the Relion XE4118GT for complex compute applications and mission-critical projects.

## FEATURES & BENEFITS

- Up to ten 300W GPGPUs or coprocessors for maximum performance
- Enables optimal peer-to-peer communication workloads with a single root complex and up to five GPU or coprocessors per switch.
- Dual Intel® Xeon® Scalable Processors at up to 205W with 24 DDR4-2933MHz (3TB) ECC memory modules deliver speed and efficiency for data-intensive workloads
- Three 2200W 80 Plus Titanium power supplies provide mission-critical uptime and industry-leading load efficiency

| FEATURE                            | TECHNICAL SPECIFICATIONS                      |  |                                  |
|------------------------------------|---|--|----------------------------------|
| <b>Form Factor</b>                 | 4U Rackmount Form Factor                      |  |                                  |
| <b>Processors</b>                  | Processor Number:2                            |  |                                  |
|                                    | Processor Type:                               |  | Intel® Xeon® Scalable Processors |
|                                    | Maximum TDP:                                  |  | 205W                             |
| <b>Motherboard</b>                 | Chipset:                                      | Intel Lewisburg C620 Series Chipset  |                                  |
| <b>Board Management</b>            | BMC Chipset:                                  | ASpeed AST2500   |                                  |
|                                    | Dedicated BMC Interface:                      | RJ45   |                                  |
| <b>Memory</b>                      | Memory Type:                                  | DDR4-2933MHz ECC, Intel® Optane™ DC Persistent Memory                                |                                  |
|                                    | Memory Capacity:                              | Up to 3TB DDR4 / 6TB with Intel® Optane™ DC Persistent Memory (24x DIMMs)            |                                  |
| <b>Internal Storage Controller</b> | Onboard Controller:                           | Intel Lewisburg C620 Series  |                                  |
| <b>Hard Drive Bays</b>             | 3.5":   | 12x 3.5" Hot-swappable SAS/SATA Drives   |                                  |
|                                    | 2.5":   | 10x 2.5" Hot-swappable SAS/SATA Drives   |                                  |
| <b>Hard Drive Backplane</b>        | 12Gb  |  |                                  |
| <b>Networking</b>                  | Ethernet Controller                           | Intel I350-AM2   |                                  |
|                                    | On-Board LAN                                  | 2x GbE/RJ45  |                                  |
| <b>PCI Expansion Slots</b>         | Number of Slots/Gen/Speed (Size)              |  |                                  |
|                                    | 8x PCIe Gen3 x16 (GPU), 2x PCIe Gen3 x16 (LP) |  |                                  |

| FEATURE                               | TECHNICAL SPECIFICATIONS                          |                             |
|---------------------------------------|---|-----------------------------|
| <b>GPU</b>                            | GPU Capable:                                      | Yes                         |
| <b>Supported GPUs</b>                 | NVIDIA® Tesla® P100, NVIDIA Tesla V100            |                             |
| <b>External I/O Interfaces</b>        | USB Ports:  | 2x USB 3.0                  |
|                                       | VGA Ports:  | Yes                         |
|                                       | Serial Ports:                                     | Yes                         |
| <b>Power System</b>                   | Power Supply Size:                                | 3x 2200W 80Plus Platinum    |
| <b>Regulatory Compliance</b>          | Regulations:                                      | CE, FCC                     |
| <b>Mounting Hardware</b>              | Rackmount Rails:                                  | Standard Rails Included     |
| <b>Operating Environment</b>          | Operating Temperature:                            | 15C to 35C (59F to 95F)     |
|                                       | Non-operating Temperature:                        | 0C to 70C (0F to 158F)      |
|                                       | Operating Relative Humidity:                      | 30% to 80% (non-condensing) |
|                                       | Non-operating Relative Humidity:                  | 5% to 90% (non-condensing)  |
| <b>System Dimensions &amp; Weight</b> | Height: 6.9" Width: 17.63" Depth: 34.64"          |                             |
| <b>Warranty</b>                       | 3 year standard; Up to 4 years on-site available. |                             |

## Learn More

Configure your ideal server at [www.penguincomputing.com](http://www.penguincomputing.com).

For pricing on your specific configuration, contact a representative by email at [sales@penguincomputing.com](mailto:sales@penguincomputing.com) or call 1-888-PENGUIN (736-4846).

## Purchase with Financing

Finance products, services, even soft costs with Penguin Computing Capital. Choose from options such as no money down, flexible billing choices, extended repayment timelines, and a variety of end-of-term alternatives.

## About Penguin Computing, a SMART Global Holdings Company

Penguin Computing, a U.S.-based global provider of high-performance computing (HPC), artificial intelligence (AI) and machine learning, and data center solutions, has been serving the industry for over 20 years. Penguin Computing offers a comprehensive portfolio of hardware and software including solutions based on the Open Compute Project (OCP), as well as extensive services including financing and top-rated customer support. Penguin Computing products include Linux-based servers, software, integrated turn-key clusters, enterprise-grade storage, and bare metal HPC, all available in hardware or cloud-based solutions via Penguin Computing® On-Demand™ (POD). Penguin Computing is a subsidiary of SMART Global Holdings, Inc., and the cornerstone of SMART's newest business unit, Specialty Compute & Storage Solutions (SCSS).

