Relion® XE2342 Server
A Versatile, Scalable 2U - 4 Node Server for Data Center and HPC Workloads

Key Features

- Dual Intel® Xeon® Scalable processors per node
- Up to 4TB DDR5-4800MHz (16x DIMMs) per node to deliver speed and efficiency for data-intensive workloads
- Storage density for up to eight or twenty-four 2.5" hot-swap drive bays with U.2/SATA support
- Two PCIe Gen5 x16 low profile slot plus one OCP mezzanine 3.0 slot per node for additional connectivity

Modern data centers need flexible computing resources that can be deployed at scale. The Penguin Computing® Relion® XE2342 server provides four individual nodes in a 2U form factor, each built with dual Intel® Xeon® Scalable processors, fast and efficient memory, and up to twenty-four 2.5" drive bays per chassis for flexible and dense storage. With powerful compute and dense storage in a single server, the Relion XE2342 server is an optimal platform for data center and HPC deployments at scale.
## Technical Specifications

### Form Factor
- Form factor: 2U - 4 Node Rackmount

### Processors
- Processor Number: 2
- Processor Type: Intel® Xeon® Scalable Processor, Sapphire Rapids (SPR)
- Maximum TDP: 225W~270W

### Motherboard
- Chipset: SoC

### 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 4TB per socket

### Storage System
- Hard Drive Bays: U.2 NVMe (2.5") 8~24x drive bays per chassis

### Networking
- Ethernet Controller: Intel i350-AT2
- On-Board LAN: 2x 1GbE/RJ45

### PCI Expansion Slots
- Number of Slots/Gen/Speed (Size): 2 x PCIe Gen5 x16 HHHL Per Node

### Mezzanine Expansion Options
- OCP Mezzanine: Storage OCP Mezz N/A
- Network OCP Mezz: 1x OCP3.0

### Supported Operating System
- Supported OS: RHEL, Rocky

### Power System
- Power Supply Size: 2x 3000W 80Plus Platinum

### Regulatory Compliance
- Regulations: CE, FCC

### Mounting Hardware
- Rackmount Rails: Standard Rails included
### Operating Environment

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<tbody>
<tr>
<td>Operating Temperature</td>
<td>10°C to 35°C (50°F to 95°F)</td>
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<tr>
<td>Non-operating Temperature</td>
<td>0°C to 60°C (32°F to 140°F)</td>
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<tr>
<td>Operating Relative Humidity</td>
<td>30% to 80% (non-condensing)</td>
</tr>
<tr>
<td>Non-operating Relative Humidity</td>
<td>20%-95% (non-condensing)</td>
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### System Dimensions & Weight

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<tbody>
<tr>
<td>Height</td>
<td>3.44 inches</td>
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<tr>
<td>Width</td>
<td>17.32 inches</td>
</tr>
<tr>
<td>Depth</td>
<td>34.52 inches</td>
</tr>
<tr>
<td>Machine Weight</td>
<td>Approximately 84 lbs</td>
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<tr>
<td>Shipping Weight</td>
<td>Approximately 84 lbs</td>
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### Warranty

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<tr>
<td>Warranty</td>
<td>3 Year Standard; Up to 4 years on-site available</td>
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Learn More

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

ABOUT PENGUIN SOLUTIONS

An [SGI](https://www.sgi.com) 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.