

# Relion™ 2612

## Optimized for High Density Linux® Storage

Flexible platform for conventional and distributed storage deployments



### Features

- » 2U rackmount server with 12 drive bays
- » Up to two Intel Xeon 5100/5200/5300/5400 series processors
- » Up to 32GB of RAM using Fully Buffered DIMMs
- » SAS and SATA storage options
- » Integrated IPMI 2.0 management capabilities

### Benefits

- » Combines x86 server platform with large storage capacity
- » Eliminates need for separate disk enclosure, reducing cost
- » Open platform for open source and 3<sup>rd</sup> party filesystem and protocol stacks
- » Flexible building block for distributed file system solutions

### Application Areas

- » Standalone file server
- » Database server
- » Email server
- » Node in cluster file system deployment
- » HPC node with large direct attached storage

### Open Storage Platform

Penguin's new Relion 2612 combines general-purpose x86 server capabilities with storage density that has been typically associated with dedicated disk enclosures. This open and flexible platform can be deployed individually for file-, database- or email server roles or as a building block for larger distributed storage solutions. Since the Relion 2612 is open x86/Linux server platform, storage functionality can be defined and customized through available open source and commercial software stacks.

### Unique Form Factor

Relion 2612's physical form factor has been optimized for standalone file server and distributed file system object storage roles. Relion 2612 enables up to 12 TB of direct attached storage in 2U space, allowing customers to invest in storage media rather than high priced interconnects between servers and disk enclosures. Optional JBOD expansion chassis adds 12 more drive bays, enabling total of 24TB in 4U space with cost efficient SAS connection and consistent look and management.

### Performance

Penguin Relion 2612 is based on Intel's server class chipset platform and includes current performance features such as support for quad core processors, Fully Buffered memory and PCI Express bus architecture. Storage options include cost efficient, high capacity SATA and high performance SAS hard drives in multiple capacities. Hardware RAID and battery backup unit are available with all drive configurations. Dual integrated gigabit Ethernet ports are standard and multiple expansion slots are available to accommodate customer specific interconnect cards.

### Designed for Linux

All Penguin Relion servers have been tested for compatibility with major Linux distributions. Relion servers are available with Red Hat Enterprise Linux or SUSE Linux Enterprise Server preinstalled.



## Technical Specifications Relion 2612 Server

	Relion 2612
<b>Form Factor</b>	2U rackmount server with 12 bays for 3.5" drives 2U expansion enclosure with 12 bays for 3.5" drives
<b>Processors</b>	Up to two Intel Xeon 5100/5200 (dual core) or 5300/5400 (quad core) series processors
<b>Bus Speed</b>	Intel Front Side Bus architecture at 1066/1333MHz
<b>Cache</b>	4/8MB level 2 cache
<b>Chipset</b>	Intel 5000P / ESB2
<b>Memory</b>	Fully Buffered DDR2 DIMMs, 8 slots, up to 32GB
<b>Expansion Slots</b>	2 x PCI Express x8 (x4 lanes connected, std size) 2 x PCI Express x8 (x4 lanes connected, low profile) PCI-X 64-bit/100MHz (std size)
<b>Internal Storage</b>	12 hot swap drive bays for 3.5" SAS/SATA hard drives Enterprise grade 7200rpm SATA drives in multiple capacities up to 1TB High performance 1500rpm SAS drives in multiple capacities up to 300GB Optional hardware RAID 0/1/5/6/10/50/60 support
<b>Network Interfaces</b>	Integrated dual Intel 10/100/1000Mbps Ethernet Dedicated 10/100 management NIC for integrated BMC
<b>Ports</b>	2 x USB 2.0 PS2 keyboard and mouse 2 x LAN + management LAN serial port VGA
<b>Management</b>	IPMI 2.0 management processor with support for remote power control, remote console and server health monitoring
<b>Dimensions</b>	3.44" H x 16.93" W x 27.38" D
<b>Power Supply</b>	Standard: 700W Redundant: 2 x 700W hot swappable modules
<b>Warranty</b>	Standard 3-year warranty included with every Penguin Computing server

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