

BlueStor™ PCIe X8 Expansion RAID



BlueStor™ PCI Express to Host, SAS/SATA to the Drives

The first direct-attached PCI storage available, *BlueStor™* with **PeSAN™ Technology** is changing the way large storage arrays are scaled. Using disruptive technology covered under U.S. Patent 7,000,037 **PeSAN™** is the result of more than five years of active development and can now be easily deployed using the *BlueStor™* Storage Server or any high performance PCI Express (PCIe) server.

Each **PeSAN™** 3U rackmount storage shelf is a self-contained RAID subsystem using an internal high-performance, low-cost SAS RAID controller that plugs directly into the *BlueStor™* PCIe slot in a removable I-O module. Using just 16 disk drives yields IOPS over 1 GB/s when connected to a host PCIe X8 slot.

BlueStor™ with **PeSAN™ Technology** is expandable to 256 PCIe devices (4,096 disk drives) without performance degradation, using *BlueStor™* PCIe Switches.

Like other *BlueStor™* 3U rackmounts, this product is unique, using lightweight, low-cost high-technology resin disk canisters having integrated light pipes, latching handles and EMI shields - all interchangeable with other *BlueStor™* units for easy maintenance and low spares cost. In fact, all FRUs including the hot-swappable blower modules and power supplies are interchangeable with the *BlueStor™* 16-bay **SAS Expander**, and any **SAS Expander** may be field upgraded to **PeSAN™** by replacing one plug-in module.

The **PeSAN™** 3U rackmount is available as model PSAN-RS-8.

Features:

- **3U 16-Bay Rackmount Enclosure**
- **Sixteen 3.5" Disk Canisters**
- **Hot Swappable HDDs**
- **Dual Hot Swappable Power Supplies**
- **SAS/SATA to the drives**
- **Up to 16 TB Capacity (per enclosure) with SATA drives**
- **Up to 4.8 TB Capacity (per enclosure) with SAS 15K drives**
- **1U 6 Port External PCIe Switch (optional)**
- **PCIe X8 Internal Switch (optional)**
- **Enclosure Management**

BLUESTOR™

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RACKMOUNT SPECIFICATIONS

Dimensions/Weight

Unit Weight	35.05 lbs. (15.90 kg) (excluding drives)
Height	5.21" (3U) (132 mm)
Width	17.42" (422 mm)
Depth	21" (533 mm)

Power Supply (includes internal cooling fan)

Quantity	2
Power	350 Watts each (N+1) Power Factor Correction
Input	100-260 VAC; 50-60 Hz
Output	+5V @ 35A -5V @ 0.5A +12V @ 22A -12V @ 0.8A +3.3V @ 20A

SAS or SATA II drives can be connected to the PeSAN RAID Enclosures. For higher performance environments, the use of SAS disk drives provides maximum bandwidth and I/O for data intensive applications. If cost is a primary issue or if the use of secondary storage is needed for Information Lifecycle Management (ILM), nearline storage, Content Addressable Storage (CAS), or disk-to-disk back-up deployments, the SAS JBOD and RAID Expanders support the use of more cost-effective SATA disk drives, dramatically lowering sub-system cost and TCO. The PeSAN JBOD and RAID Enclosures also supports the intermixing of SAS and SATA disk drives within the same enclosure for unmatched configuration flexibility.



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