

BlueStor™



BlueStor PeSAN RAID Storage Arrays

The Ultimate in High Performance Storage

The new **BlueStor™ PeSAN™ RAID** storage line from JMR Electronics is the ultimate in high performance direct attached storage for content creation, video editing and digital film applications requiring high sustained throughput and robust operation.

The patented PeSAN technology, with more than five years in development and based on the new PCI Express (PCIe) external expansion and cable connection standard, expands your PC/Mac, server or workstation's core logic PCIe bus outside of the box to enable the utmost in scalable direct attached storage performance.

Optimized for video applications, PeSAN's open system architecture delivers wide bandwidth, high performance expandable storage using a switched architecture that avoids costly storage bus bridges or components. Overheads from protocol conversion to serial protocols such as Fibre Channel, Infiniband and Ethernet are totally eliminated, resulting in sustained raw data rates exceeding 2,000 MB/s.

The **BlueStor™ PeSAN™ RAID** storage solution delivers extremely high performance suitable for SD/HD editing and 2K/4K digital intermediate applications and combines robust operation with cost-efficient implementation, driving storage costs down to well below one dollar per Gigabyte.

Features:

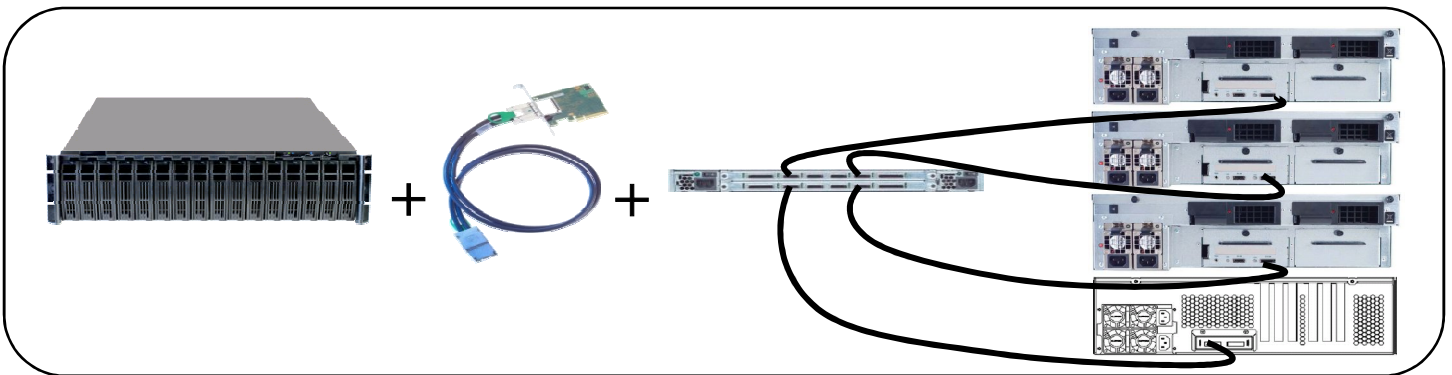
- ▶ 3U-16 bay high quality engineered external PCIe RAID rackmount enclosure
- ▶ Sixteen 3.5" shock mounted disk canisters
- ▶ Hot swappable SAS or SATA II HDDs
- ▶ Dual hot swappable power supplies
- ▶ Up to 16 TB capacity (per enclosure) with SATA II drives
- ▶ Up to 4.8 TB capacity (per enclosure) with SAS 15K drives
- ▶ PeSAN™ PCIe X4 (1GB/s max.) and X8 (2GB/s max.) internal switches available
- ▶ Fully SES 2.0 compliant with enclosure management
- ▶ Compatible RAID controllers from Adaptec, ATTO, LSI, MegaRAID, AMCC (3Ware), Areca and more
- ▶ **BlueStor™ PeSAN™** powered RAIDs can be expanded to 256 targets (up to 4096 disk drives)



Scalable Performance and Capacity

The **BlueStor™ PeSAN™ RAID** storage product line has been developed to grow as you grow. Starting with a single 3U 16 bay rackmount enclosure, each **BlueStor™** array can be populated with up to 16TB of SATA II hard drives for applications requiring large storage capacity, or up to 4.8TB of SAS hard drives where performance is needed.

As your application needs grow, **BlueStor™ PeSAN™ RAID** provides a storage platform that can easily scale to handle the bandwidth and capacity intensive requirements needed in the high-end content creation and digital intermediate space, empowering true real-time collaborative workflow in digital post-production. **BlueStor™ PeSAN™** powered RAIDs can be expanded to 256 targets (up to 4096 disk drives) using **JMR PeSAN™ Switches**, available concurrently with the RAID storage product.



Available in PCIe X4 or X8 host connection bus models, JMR provides host interface cards (using a single X4 or X8 PCIe expansion slot as available) and PCIe switch cards as accessories, allowing users to create **BlueStor™ PeSAN™ RAID** scalable storage solutions that grow as their needs grow, aggregating both capacity and performance.

JMR's **BlueStor™ PeSAN™** technology extends the PCIe bus electrically and mechanically, enabling the use of more PCIe based controllers and more efficiently leveraging the underutilized power in today's multi-core processors.

Extending the PCIe bus externally enables more PCIe slots, greater flexibility and a broader number of storage solutions.



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