

BlueStor™ PeSAN™ Technology: Empowering The Direct Attached Storage Revolution

JMR's patented BlueStor PeSAN technology delivers unprecedented configuration flexibility to fit your every need. Whether you're a freelancer needing to add additional storage for your Mac or PC, or a large facility requiring hundreds to thousands of terabytes to upgrade your storage network infrastructure – JMR delivers. As one of the early pioneers of RAID storage systems, JMR has been providing award-winning storage solutions since 1982. If you're tired of paying more and getting less, contact us today to learn more about the power of BlueStor. We have your solution.



BlueStor Direct Attached RAID

BlueStor High Performance Direct Attached RAID Storage is the ideal partner for HD video editing, content creation, CGI and real-time streaming applications.

One or two JMR 16-bay Split Backplane Extenders can be connected to an Apple Final Cut Pro system for real-time SD/HD video editing or multi-stream playback.

BlueStor PeSAN RAID

BlueStor PeSAN can be easily configured with dual RAID controller modules to create two 8 hard disk RAID sets for maximum throughput and reliability. A simple PCIe x8 Internal Switch Card into the Mac or PC allows instant connectivity to the PeSAN.

BlueStor 888™ SAS/JBOD

BlueStor 888 combines powerful performance, RAID functionality with easy and affordable expandability.

Each BlueStor 888 unit, with up to 8 TB, has an internal SAS (Serial Attached SCSI) expander that enables you to connect additional enclosures in a daisy chain without the need for an additional RAID controller card.

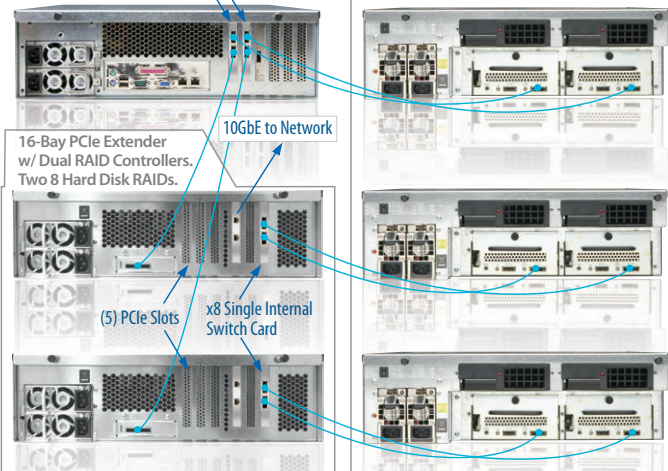
A single BlueStor 888 unit easily handles multiple streams of ProRes HD, DV, HDV, DVCPRO 50/HD, and single stream uncompressed 8-bit 1080 HD, uncompressed 10-bit 1080 4:4:4 HD or single-stream 2K (2,048 x 1,556 LOG RGB).



BlueStor PeSAN 96 TB Real-Time Collaboration Transcoding / Encoding Video Application

16-Bay Storage Server (PC or Mac) w/ RAID Controller. Two 8 Hard Disk RAIDs.
(2) x8 single Internal Switch Cards

16-Bay PeSAN x8 Enclosure w/ Dual RAID controllers. Two 8 Hard Disk RAIDs.



BlueStor PeSAN technology can be easily configured to handle the most complex workflow applications. Modular in design, BlueStor PeSAN can scale up to 4,100 TB using a combination of BlueStor sub-systems.

Further, because the PeSAN technology takes advantage of the current advancements in the PCIe architecture and bandwidth, BlueStor PeSAN powered RAIDs can deliver upto 4,000 MB/s.



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**FAST
POWERFUL
AFFORDABLE**

The Fastest, Scalable and Most Affordable RAID Storage Solutions for Content Creation and Post Production

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▶ Satisfying Your Need for Speed

JMR Electronics New BlueStor™ family of scalable 8 and 16 bay RAID storage solutions are the result of more than 5 years of R&D. The result – Extreme Performance, Unprecedented Reliability, Massive Scalability, Amazing Affordability.



BlueStor 888™ Desktop Speed greater than 500 MB/s

The BlueStor 888 is a small, light and quiet 8-bay desktop storage solution for your Mac or PC that delivers over 500 MB/s, stores up to 8TB and occupies a stealthy 7.5" x 11".

The groundbreaking 8-bay SAS/SATA RAID desktop solution is ideal for SD or HD content creation and video editing applications requiring the utmost in speed, capacity and reliability on a budget. The BlueStor 888 can provide 8TB or more to increase storage capacity by adding additional enclosures. BlueStor 888 comes in an 8-bay server or 8-bay NAS appliance offering.

BlueStor™ 16-Bay Speed greater than 1,400 MB/s

The BlueStor PeSAN 16-bay RAID with up to 16TB using SATA HDDs or 4.8TB using SAS HDDs, delivers over 1,400 MB/s in a 3U space.

The BlueStor PeSAN is designed for workflow intensive video applications requiring the utmost in sustained throughput, configuration flexibility and reliability. A single 3U array easily delivers enough performance for multi-stream SD, HD and 2K Digital Intermediate applications. Multiple PeSANs can be configured to satisfy the most demanding workflows.

BlueStor™ Storage Server and PeSAN RAID Speed up to 4,000 MB/s

For collaborative or multi-stream SD/HD and 2K/4K Digital Intermediate workflows requiring even higher performance and scalable storage, BlueStor PeSAN powered RAIDs can achieve up to 4,000 MB/s and be expanded to over 4,100 TB using the current JMR PeSAN technology.

**FAST
POWERFUL
AFFORDABLE**



▶ Designed With Your Storage Needs In Mind

BlueStor™ SAS Expander

16 hot-swappable SAS/SATA 3Gb/s disk drive bays with fully redundant power and cooling via hot-swappable modules.

No cables in the data path – gain higher performance, signal integrity and cooler operating disk drives than any competitive product.

Dual 4x SAS ports for host connectivity and concatenation to additional storage units.

Compatible with most SAS and SATA-2 (3.5" form factor) disk drive on the market today.

Hot-swap N+1 blowers & N+1 power supplies.

Up to 16 TB raw storage using SATA Drives or 4.8 TB with SAS 15K Drives.

Support for Adaptec, ATTO, LSI, AMCC/3Ware and Areca SAS RAID controllers.

BlueStor™ PCI Extender

Allows PCI Express bus expansion from a host server.

Includes five PCIe expansion slots in an external 3U rackmount with 16 hot-swap SAS/SATA disk drive bays and a SAS Expander.

Features a x8 port for the host connection, plus one x8 PCIe slot and four x4 PCIe slots. Simply plug in a PCIe adapter card into the x8 slot and use a x8 PCIe external cable to another Extender.

JMR firmware allows hot-plugging PCIe compliant devices of all types (GbE cards, Video cards, Host Bus Adapters, RAID controllers, etc.).

The system monitors link status, PCIe device status, power and cooling status and all critical functions during operation and this product is fully functional with a 7 meter PCIe cable length without signal degradation.

Concatenation available via a x8 PCIe cable to another similar chassis.

Fibre Fast Stream

JBOD, DVRAID™ and RAID 0, 1, 4, 5, 6, 10, 40, 50 and 60 configurable.

Fibre Channel host adapters with custom multipathing drivers provide high availability connectivity to storage for continuous uptime.

Load balancing for aggregate performance across multiple ports.

Pool storage — share storage among multiple workstations.

Ultra-scalable storage capability.

BlueStor™ PCIe External and Internal Switches

Yields up to 4,096 disk drives.

JMR provides a variety of internal and external PCIe switch products to expand PeSAN solutions.

JMR switch adapters available in PCI-X to PCIe (x4) and PCIe (x8) configurations.

External 1U external switch available in 6 or 12 port options.

6 port option: (2) x8 & (4) x4.

12 port option: (4) x8 & (8) x4.

Dual N+1 hot swap power supplies.

JMR designed firmware allows seamless PCIe scaling of compliant devices.

▶ Your Storage Solution, Your Way, Your Budget.



JMR provides a variety of cables, host adapters and switches. Contact a JMR sales representative for complete details, or visit www.jmr.com.