Pegasus

PROMISE® TECHNOLOGY, INC.

Storage Solutions with Thunderbolt™ Technology

NEW Pegasus J2 & J4 – Versatile & Portable for Media Pros on the Go

We proudly introduce the Pegasus J2, the smallest Thunderbolt™ equipped storage device available, and the Pegasus J4, the first 4-bay high performance Thunderbolt storage system for 2.5" HDD or SSD drives. Both are ideal for content creators who want mobility, versatility and the highest performance in a storage solution. Take the hyper-portable J2 in your pocket to any on location site, with or without the power adapter. Or team up the J4 with new Thunderbolt enabled notebooks to create a compact, mobile non-linear editing station, great for immediate on location use. With blazing throughput, the J2 and J4 represent a giant leap in the performance of portable storage devices.

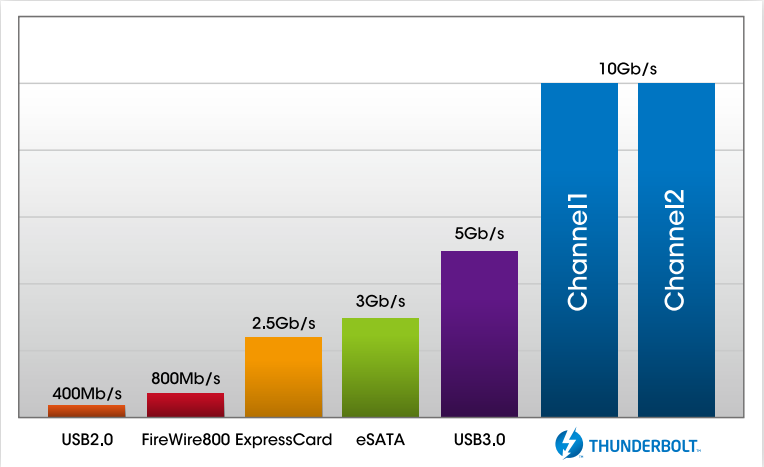
Pegasus R4 & R6 – Seriously High Performance

Pegasus R4 and R6 are the world's first 4-bay and 6-bay high performance hardware RAID solutions to unleash the performance advantage of Thunderbolt technology. With over 800 MB/s throughput and up to 18 TB capacity, the R4 and R6 are ideal for professional NLE digital media workstations, small server high demand direct attached storage (DAS), power users, or anyone who wants quiet, high-capacity external storage with lightning fast performance and enterprise class RAID performance and data protection in a compact, user friendly system.

ANLink

THUNDERBOLT™

About Thunderbolt Technology



Thunderbolt technology is a new, high-speed, dual-protocol I/O technology developed by Intel and Apple, designed for performance, robustness, simplicity, and flexibility. Thunderbolt delivers two channels of 10Gb/s (1.25GB/s) per port of blistering performance. PCI Express (PCIe) expansion bus protocol is integrated with DisplayPort protocol in a single cable for simultaneous data transmission and video output with no performance degradation. The throughput speed of Thunderbolt enables transfer of terabytes in a small fraction of time of competing connection technologies. The huge bandwidth allows digital media professionals to edit HD video stored on the Pegasus with NLE software (such as Apple Final Cut or Adobe Premiere), improve work flow efficiency, save time and money.

Pegasus J2 Hyper-Portable Thunderbolt Storage

Creativity on the Fly

The Pegasus J2 is an Apple and Windows certified dual mSATA SSD (256GB or 512GB) storage mini marvel the size of a smart phone and it weighs just 140 grams. The J2 goes wherever you need to work, away from the studio — even off the grid in Bus Powered Mode — or use this pocket-sized powerhouse to showcase your portfolio. Small and very fast, the J2 is great for media pros on the go.

The Fastest Storage in Your Pocket!

Don't let its size fool you, the Pegasus J2 is fast. Powered by 6G mSATA flash with striped RAID (RAID 0), the Pegasus J2 reaches write speeds of 550 MB/s and read speeds of 750 MB/s! Transfer, playback or edit media directly from this featherweight drive with amazing speed.

Conveniently Runs Without the Power Adapter

The Pegasus J2 conveniently runs in bus mode, which means you do not need to use the power adapter. Just the Thunderbolt cable and a computer is enough for high-speed data transfer. To supercharge throughput, plug in the power adapter for maximum performance.* Now you can backup huge files and even edit digital media, on location, on a plane, in transit, wherever you happen to be, at amazing speed.

*Note: To achieve maximum throughput of over 750MB/s requires using the Pegasus J2 power adapter plugged into a power outlet.

Pegasus J4 Compact Versatility with Pegasus Performance

The Ultimate in Versatility

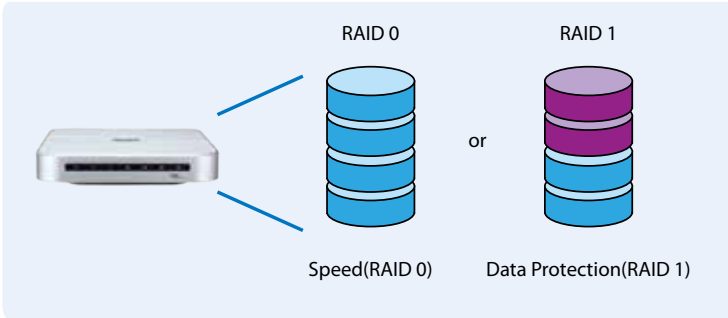
The Pegasus J4 is the first 4-bay 2.5" HDD/SSD small form factor high-performance Thunderbolt JBOD storage solution. It is perfect for use in non-linear editing of digital media or other data storage applications where very high throughput/very low latency is essential. The compact, efficient design of the J4 makes it is easy to pack up and carry. With a Mac Mini server or new Thunderbolt™ enabled computer, the J4 is a key component of a mobile video production solution.

Daisy Chain to Optimize Performance

The Pegasus J4 conveniently supports daisy chaining, enabling you to connect Thunderbolt enabled displays or multiple Pegasus storage devices to boost overall transfer speeds. Additionally, the J4 can also serve as your secondary storage device, enabling you to copy data from a Mac and Pegasus R4/R6 so you can take projects to a client and instantly edit content without even having to go back to your office. This is perfect for those clients who just never give you enough time!

Configure RAID Based on Your Needs

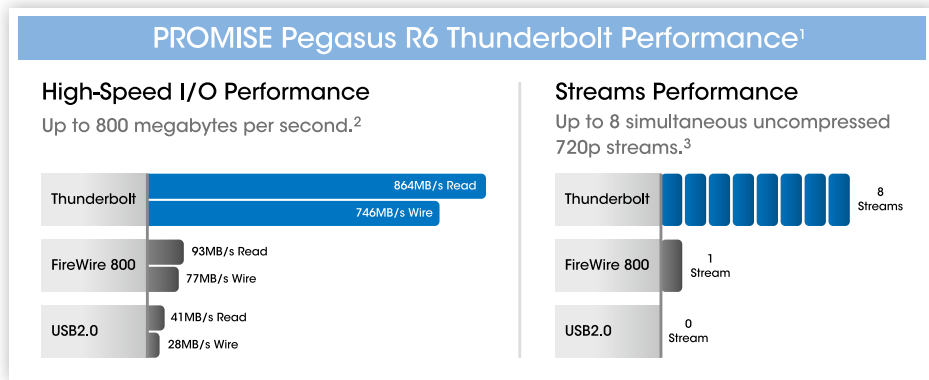
The Pegasus J4 is flexible to suit your data requirements. The four storage disks can be set up as a striped RAID set, as a mirrored RAID set, or as a JBOD. If you need super fast speed for video editing, configure the J4 in RAID 0. If you need the data protection of disk mirroring, configure the J4 in RAID 1 so your data will be safe even if an installed disk fails. Even better, combine both needs and configure two daisy chained J4s in a RAID 10 (RAID 1 + RAID 0) for performance and redundancy.



Pegasus R4 & R6 For Super Performance Creative Workstations

More Than Just Fast Performance

RAID 0 or striped RAID is used for multiple drive systems configured for speed, but this performance advantage is pointless if there is no way to deliver that performance at bus speed. This is why Thunderbolt is such a huge leap beyond competing connection technologies. Thunderbolt uses the widely used expansion bus standard PCI Express, to achieve I/O transfers of more than 800 MB/s. Prior to Thunderbolt the only option for achieving that level of performance in a direct attached storage system was to use a Fibre Channel connection, a much more expensive and cumbersome option that is typically used only for large enterprise database storage needs. The Thunderbolt connection achieves optical fibre speed over copper. This ingenious technology is what makes it possible to create compact Pegasus R4 and R6, that delivers data throughput previously available exclusively to large enterprise storage. The result is that videographers can ingest, edit, and playback multiple streams of uncompressed HD (8-bit and 10-bit) video and graphic artists can manipulate and archive high resolution graphics on a system that can be easily carried to a shoot location.



1. Performance benchmark data provided by Apple.
2. Testing conducted by Apple in April 2011 using preproduction 27-inch 3.4GHz Intel Core i7 - based iMac units, preproduction PROMISE Pegasus R6 units, and shipping PROMISE SmartStor DS4600 units. Tested using Iometer 2006.07.27 with a 30-second ramp-up, 5-minute run duration, 512KB request size, 8 outstanding IOs, 500GB test file on PROMISE Pegasus R6, and 50GB test file on PROMISE SmartStor DS4600. Performance tests are conducted using specific computer systems and reflect the approximate performance of iMac.
3. Testing conducted by Apple in April 2011 using preproduction 27-inch 3.4GHz Intel Core i7 - based iMac units, preproduction PROMISE Pegasus R6 units, and shipping PROMISE SmartStor DS4600 units. Tested using Final Cut Pro 7.0.3 with simultaneous unique 10-minute clips for each content type. Performance tests are conducted using specific computer systems and reflect the approximate performance of iMac.

Impressive Capacity for Massive Projects

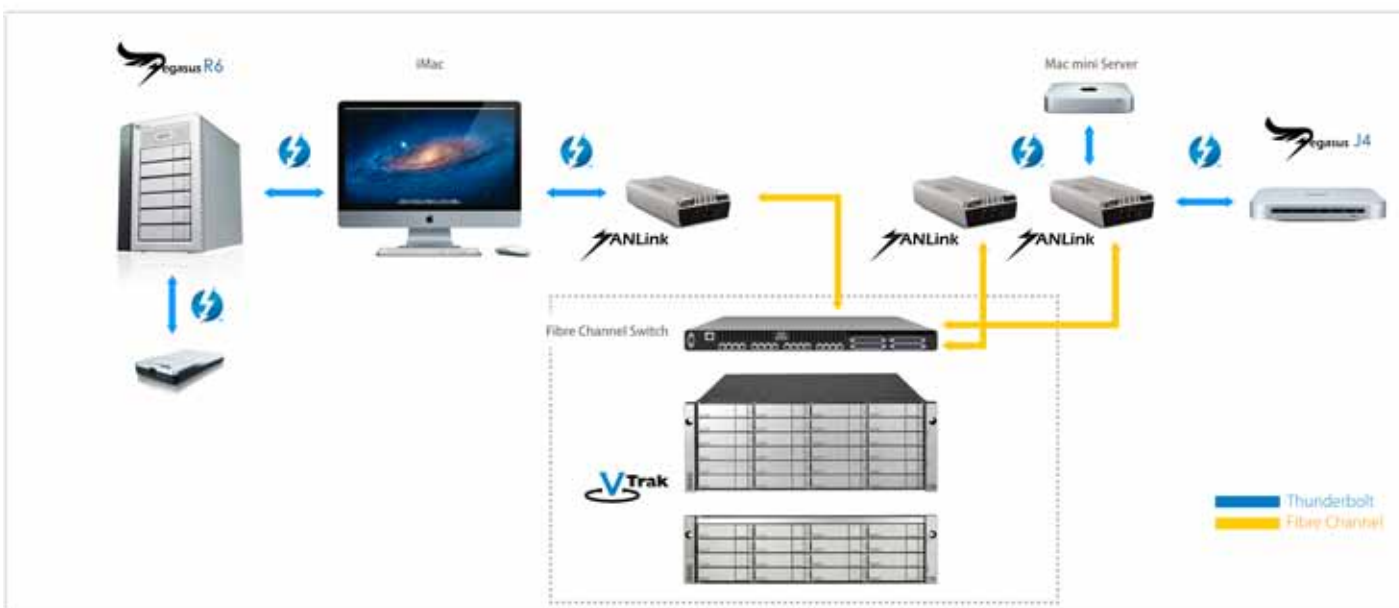
The Pegasus R4 and R6 enables the amateur or professional, audio engineer, photographer, and post production engineer, a convenient, worry-free way to safely store massive projects, so you can devote more time and creativity to doing what you do best. Up to 18TB of storage is available in a single Pegasus R6 device, that's equal to 400 typical dual-layer HD DVDs. To add more capacity, simply daisy chain more Pegasus enclosures for up to 36 HDDs of storage.

Enterprise Level RAID Protection

The Pegasus R4 and R6 are the world's first Thunderbolt enabled hardware RAID storage solutions. Features include two Thunderbolt 10Gb/s bi-directional channels, and our renowned PROMISE enterprise-level RAID protection. Pegasus provides fast, safe and reliable external storage to protect your expanding library of music, photos, videos, and other valuable data. Configure your Pegasus R4 and R6 to the RAID level that suits your needs; RAID 0 for extreme performance, or RAID 6 for data redundancy and performance (full data protection even if two disks fail), or anything in between.

Total Audio/Video Post Production Solution

The Pegasus series of Thunderbolt enabled storage devices are designed especially for content creators. Use Pegasus as a key component in a flexible, portable digital media post production solution offered by PROMISE. The PROMISE total solution includes the SANLink Thunderbolt to Fibre Channel adapter and our scalable VTrak storage subsystems. Seamless sharing of digital media assets is done easily between your a Pegasus/Mac workstation and permanent storage/backup on the VTrak using the SANLink.



Pegasus Series				
Model	R6	R4	J4	J2
Picture				
Form Factor	6-Bay Hardware RAID Enclosure	4-Bay Hardware RAID Enclosure	4-Bay JBOD Enclosure	mSATA SSD Enclosure
Number of Hard/Drives/SSD	6xSATA@7200 RPM (3.5” inch)	4xSATA@7200 RPM (3.5” inch)	4xSATA@5400 RPM (2.5” inch)	2x6G mSATA SSD
RAID Level	0, 1, 5, 6, 10		JBOD or software RAID	
Thunderbolt Technology Ports	2			1
Capacity	6x2TB 6x3TB	4x1TB	4x500GB	256GB 512GB
Dimensions(HxWxL)	25.0x19.5x18.5(cm)	19.0x19.5x18.5(cm)	4.2x20.1x20.1(cm)	2.05x7.4x11(cm)
Weight	5.9kg	4.5kg	2.4kg	140grams
Warranty	2 years* (fan and power adapter 1 year)		2 years	

SANLink

- 2 x 4G Fibre Channel ports with auto negotiation of 1, 2 and 4Gbps
- Host connectivity using 10Gbps Thunderbolt port
- 2 x Thunderbolt ports supporting daisy-chaining of peripherals
- Fully qualified Mac OS X, Mac OS X Server, Final Cut Studio and Xsan solution
- Zero Software Install on Mac OS X
- Qualified solution with PROMISE VTrak x30 (8Gbps FC) and x10 Series (4Gbps FC) storage subsystems

All PROMISE Pegasus Thunderbolt storage solutions support Mac OS X. The Pegasus J2 supports both Mac OS X and Windows 7 & 8.
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