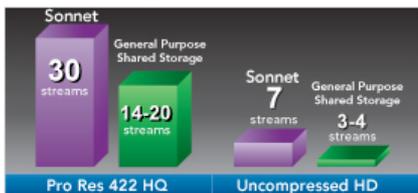




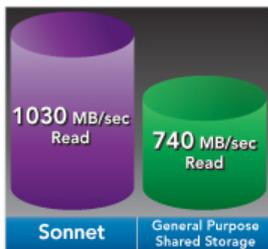
RACKMOUNT 16-DRIVE RAID FIBRE CHANNEL STORAGE SYSTEM

Much Higher Stream Counts



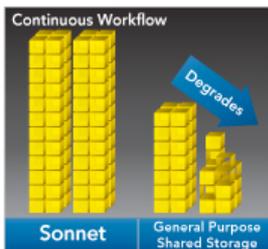
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Higher Bandwidth



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Full Read Performance During Rebuilds



Fusion RX1600Fibre maintains full read performance during RAID group rebuilds, allowing you to keep working, not waiting.

Performance So Good, You'll Want to Share

Sonnet's Fusion™ RAID systems have been providing fast, dependable, local storage for individual users for years. Until now, accessing the files at high speed on another computer meant moving the system to the other computer. We want you to share. Sonnet is proud to introduce the Fusion RX1600Fibre 16-drive RAID Fibre Channel storage system for multiple users. This is no ordinary general purpose shared storage system—this 16TB⁽¹⁾, 3U rackmount system is designed to be the stellar performer for video editing workgroups. Fusion RX1600Fibre features a high-performance internal RAID controller with a high speed, 4-port 8Gb Fibre Channel interface that enables multiple users to connect and access data at the same time. This system can deliver 30 streams of ProRes 422 HQ (twice as many as general purpose Fibre storage), and also maintains aggregate stream capacity for multiple simultaneous clients—an area where general purpose Fibre storage falls behind.

Service for Four, No Switch Required

The Fusion RX1600Fibre storage system is perfect for small video editing workgroups. Its 8Gb Fibre Channel host interface is capable of providing four workstations direct, high-speed access to stored assets without the associated cost, complexity, cabling, rack space requirements, and power consumption of an added Fibre Channel switch—depending on your workflow and the SAN software used, even using a dedicated server is optional. Fusion RX1600Fibre delivers aggregate bandwidth up to 1,000 MB/sec, with high bandwidth available to individual workstations.

Scalable Access

While ideal for small workgroups, the Fusion

RAID Flexibility

Fusion RX1600Fibre systems support RAID 4 (DV RAID), 5, 6, 10, and 50 drive formatting for balanced performance and protection; RAID 1 for ultimate redundancy; and RAID 0 for pure, unadulterated speed; JBOD support is available, too. Fusion RX1600Fibre systems even support dedicated and global hot spares—you can set up your RAID groups so that one or more designated hot spare drives wait unused in the background to automatically replace a failed drive without you having to lift a finger. All this flexibility is accomplished without switches—the simple to use Web GUI enables you to optimize your setup for specific workflow requirements.

Status Supervisor

The reliability of the Fusion RX1600Fibre is further enhanced through SES (SCSI Enclosure Services) 2.0 compliance and enhanced S.M.A.R.T (Self-Monitoring Analysis and Reporting Technology) data reporting for each hard drive installed in the system. Built into the Fusion RX1600Fibre enclosure, SES functionality provides enhanced real-time monitoring and reporting of drive, power supply, and temperature status, with real time results displayed in the RX1600Fibre's onscreen interface and the illumination of LEDs on the enclosure—warning alarms sound in case of a power supply or fan issue, too. You can also configure the system to automatically send email notifications to multiple addresses to notify you (and others) of an impending drive failure or other issue, enabling you to minimize downtime as a result.

Easy Storage Expandability

When you need access to more than 16TB of assets, Sonnet offers an economical upgrade path that is simple to deploy—[Fusion RX1600 Expansion](#) storage systems. Fusion

working, not waiting:

Key Features

- ▶ **Perfect for Small Workgroups**—4-port 8Gb Fibre Channel (FC) interface supports up to four users without the need for an FC switch, reducing cost, cabling, and complexity, while providing direct, high-speed access to stored assets
- ▶ **Great Flexibility**—Easily integrated into larger SANs; drops into an Xserve® RAID domain, supports Final Cut Pro® Server environments, and also provides for AVID volume locking
- ▶ **High Performance for Multiple Users**—Delivers aggregate bandwidth up to 1,000 MB/sec. read, and up to 100% more streams to multiple simultaneous users than general purpose shared storage systems
- ▶ **Full Read Performance During Rebuilds**—Tunable rebuild priority enables you to continue working on your project with full read performance during a RAID group rebuild; doesn't degrade like general purpose shared storage systems
- ▶ **Multipathing Support**—Combines data paths from two or more FC ports to increase bandwidth and redundancy, and to provide load balancing for improved performance
- ▶ **File Protection**—Supports RAID levels 4, 5, and 6 to protect data in case of a drive failure (two drives with RAID 6) while maintaining great performance
- ▶ **Monitored Operation**—SES (SCSI Enclosure Services) and S.M.A.R.T. data reporting provide realtime monitoring and reporting of the enclosure and drives' status
- ▶ **Easy, Economic Expandability**—Internal SAS expanders enable you to connect Fusion RX1600 Expansion enclosures without the need for an additional RAID controller
- ▶ Storage system includes enclosure with internal RAID controller, drive modules, cables, rackmount kit, software, and manuals
- ▶ RoHS compliant

RX1600Fibre storage system is equally suited for use in larger storage area networks (SANs) with a switch and many video editing users. Because it employs a 4-port 8Gb Fibre Channel host interface rather than a common 2-port 4Gb interface, the Fusion RX1600Fibre offers more speed and flexibility than general purpose shared storage systems. For example, you can connect two of the Sonnet system's ports to a Fibre Channel switch to yield improved performance and redundancy for the general storage pool, while the remaining ports can be connected to two more workstations requiring the highest bandwidth. The high-speed 8Gb interface also delivers higher aggregate bandwidth, providing more users with up to one hundred percent more streams than general purpose shared storage systems.

Power and Excellent Handling

Driving the Fusion RX1600Fibre storage system is the ATTO FastStream™ SC 8500E storage controller. This state of the art RAID engine is based on the latest-generation Intel® 81348 RAID processor. Running at 1.2 GHz and configured with 1GB of ECC-protected RAM, this controller can handle the throughput from all the drives with plenty of overhead, especially important to maintain data stream writes as the disk array nears capacity. Featuring ATTO's exclusive Advanced Data Streaming (ADS™) Technology, this RAID controller provides controlled transfer acceleration for steady data streaming, especially important when working with video. ADS compensates for data transfer rate peaks and drops, maintaining a consistent data flow to allow more streams for the bandwidth available. The FastStream controller provides tunable rebuild priority, enabling the Sonnet system to deliver users full performance during a RAID group rebuild, unlike general purpose shared storage systems which typically experience a severe drop in performance during a rebuild.

Multipathing Support

The Fusion RX1600Fibre supports multipath I/O, a technique that enhances performance and fault tolerance, combining data paths from two or more Fibre Channel ports to increase performance and provide redundancy in case of a port or cable malfunction, the leading causes of storage failure. Multipathing additionally provides load balancing to distribute I/O across multiple paths for improved system and application performance.



RoHS
COMPLIANT

RX1600Fibre storage systems feature dual internal SAS (Serial Attached SCSI) expanders that enable you to connect additional RX1600 Expansion systems in a daisy chain, no additional RAID controller card needed. This simplifies installation and significantly reduces your cost to expand capacity. As a matter of fact, incorporating more storage capacity is nearly as simple as installing additional Fusion RX1600 Expansion systems into the rack and connecting a few cables. Of course, if you don't need access to all your files all the time, the Fusion storage system's user-swappable drive modules enable you to easily change sets of drives as you go.

Driving Force

Fusion storage systems employ Enterprise/RAID Edition hard drives or select, Sonnet certified desktop drives⁽²⁾ that have been selected for their superior performance, error handling, and reliability characteristics, especially when used in RAID groups. These drives are subjected to hours of additional, stringent testing to check for soft errors, vibration, and other reliability predictors. Just the sturdiest drives pass these tests and are prepared with special RAID-optimized firmware to become the building blocks of a super-reliable Fusion storage system.

Versatile Performance

These systems are ideal for use in mixed environments—various operating systems, editing applications and output demands requiring the flexibility and interoperability that Fusion RX1600Fibre storage systems provide. Fusion RX1600Fibre systems support Mac OS® X, Mac OS X Server, Windows® Server 2008 and Server 2003, 7, Windows Vista, XP, and Linux. They are compatible with capture cards from AJA, Blackmagic Design, Matrox, and Bluefish444, work with all mainstream video editing applications including Apple® Final Cut Pro®, and Adobe® Premiere® Pro, and are compatible with file sharing SAN management software packages including, but not limited to Apple Xsan® 2, Tiger Technology metaSAN 3, and CommandSoft® FibreJet®. Fusion RX1600Fibre supports 8Gb, 4Gb, 2Gb, and 1Gb Fibre Channel host adapters.

OS Compatibility

- ▶ Mac OS X and OS X Server Versions 10.4.8+ (including Snow Leopard)
- ▶ Windows Server 2008, Vista®, Server 2003, 7, and XP Pro
- ▶ Linux (RedHat ES 3, 4; Suse RedHat ES 3, 4; Suse Linux 9, 9.1, 9.2, 9.3, 10, 10.1 and the following architectures: i386; x86_64 (AMD64, Intel EM64T))

Hardware Compatibility

- ▶ Mac, Windows, or Linux computer with compatible Fibre Channel host adapter card, operating system software, and if used, SAN software

Technical Notes:

(1) Although most hard drive manufacturers define 1 gigabyte as 1,000,000,000 bytes, computer operating systems usually calculate a gigabyte by dividing the bytes (whether it is disk capacity, file size, or system RAM) by $1,073,741,824$ (2^{30}). This distinction may be a cause of confusion, as a hard disk with a manufacturer rating of 500GB may have its capacity reported by the operating system as 454.7GB.



(3) Only Seagate ES.2 drives with firmware versions SN06 and newer compatible. Seagate ES.2 drives with firmware versions SN03, SN04, or SN05 are NOT compatible. [Click here to view location of firmware number on hard drive.](#)

(4) x4 slot compatible, but decreased overall performance when used.
