

ArtiSAN MDC-2700

Post Production Series and
Broadcast Series

Use Cases

File-based workflows

Shared media

8Gb Fibre Channel Implementations

10Gb Ethernet implementations

24Gb/sec 6Gb SAS implementations

Distributed LAN Client implementations

High performance and low latency

State of the Art System

Intel Westmere Xeon processor

6GB RAM

SSD boot drive with Flash Protect™

Lights-Out Management

Four Gigabit Ethernet ports

Dual USB ports

Dual redundant 800W power supplies

Hot swappable fans

1RU enclosure

19-inch rack mount kit

External Storage Connection Options

Dual 6Gb SAS

Dual 8Gb Fibre Channel

Dual 10Gb Ethernet

SAN Solutions pureSAS™ certified

ArtiSAN Class : File System MDC

For the ultimate experience in
StorNext and Xsan
deployment and management

Quantum StorNext and Apple Xsan Metadata Controller



Quantum StorNext and Apple Xsan file system

The StorNext file system has been widely accepted as the file system to implement for high performance, shared storage in post production and broadcast environments. Ported to Linux, Windows, and Apple OS X (Xsan), the file system allows for cross-platform, direct access to media files from any client machine that is attached and provisioned to the 8Gb Fibre Channel or ArtiSAN 6Gb pureSAS™ storage arrays.

In contrast to a NAS (network attached storage) based file systems where all files are served through a single NAS controller and via a NAS protocol across a 10Gb or gigabit Ethernet network, the StorNext SAN file system first, does not have the bottleneck of single server delivery. Second, the file system benefits from the Fiber Channel protocol, a low overhead encapsulated SCSI with a buffer-to-buffer credit scheme which avoids congestion and collisions issues that can plague the ethernet LAN. Third, it benefits from the high speed transport of 8Gb Fibre Channel switch fabric speeds or a 24Gb/sec 4-lane 6Gb SAS infrastructure. As array controllers and disk drives become faster and with shorter seek times, these factors will only amplify the performance difference between NAS and SAN in favor of the SAN.

As a distributed file system, StorNext has a global lock and data caching scheme that allows for simulated reading and writing the same file from any client at the same time. This opens up possibilities for editing, processing, just or playing back a media file while it is being ingested. It opens up the capability of having a single stored file that all clients can work from instead of many of the same files copied amongst the multiple servers and client machines with no one file being the latest version. Furthermore, the StorNext file system is key to applications that require real-time or faster than real-time access to files. This is key in the multi-platform media transformation and delivery applications.

The StorNext file system's volume manager combines storage array's RAID groups in a number of ways to optimize parallel file transfers speed. Affinities can be created that direct the placement of files stored in specific folders to be stored in specific RAID group configurations. SAN Solutions' storage architects use the StorNext volume manager to optimize configurations for specific media application and workflow optimization. Audio files and video files which have different I/O patterns and transfer sizes can be stored separate in separate volumes that are optimally defined for their application data transfer patterns.

Key Features

- Enterprise class platform designed for optimal StorNext and Xsan deployments
- Cross platform file system: Mac OS X (Xsan), Windows and Linux clients
- SAN Solutions' pureSAS™ certified.
- Dual redundant and hot swappable power supplies and cooling
- Lights-Out Management (LOM)
- Minimized Ethernet latency for Intel Xeon Westmere processor technology
- High availability MDC pair configuration recommended but is optional
- Supports distributed LAN gateway functionality for Windows and Linux StorNext distributed LAN client connectivity
- Installation, professional services, on-site support, and call-home options are available

SAN Solutions ArtiSAN MDC-2700

The SAN Solutions ArtiSAN MDC-2700 metadata controller platform is the IT professional choice for high performance and scalable StorNext and Xsan file base workflow implementations. It is reliable, it is robust, and it is quick. SAN Solutions ArtiSAN has been designed from the bottom up with the latest technology to provide the optimal connectivity options required and to provide the ultimate experience in file system management in StorNext and Xsan deployments.

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ArtiSAN MDC-2700

Quantum StorNext and Apple Xsan Metadata Controllers

Base Configurations

Features	Linux StorNext MDC	Linux StorNext MDC Pair With High Availability	Windows StorNext MDC	Windows StorNext MDC Pair With High Availability
ArtiSAN Model	MDC-2710	MDC 2720	MDC-2730	MDC-2740
ArtiSAN Class	File System MDC	File System MDC	File System MDC	File System MDC
Single or Cluster	Single Server	High Available Cluster, Includes 2 servers	Single Server	High Available Cluster, includes 2 servers
Operating System	Linux	Linux	Windows 2008, R2 64-bit	Windows 2008, R2 64-bit
Quantum StorNext Version	v 4.1+	v 4.1+	v 4.1+	v 4.1+
Number of Quantum StorNext or Xsan Clients	Unlimited	Unlimited	Unlimited	Unlimited
Boot Drive	80 GB SSD with Flash Protect™	80 GB SSD with Flash Protect™	80 GB SSD with Flash Protect™	80 GB SSD with Flash Protect™
ArtiSAN pureSAS™ Certified	Yes	Yes	Yes	Yes
SAN Storage	Open system	Open system	Open system	Open system
ArtiSAN Arrays Certified	5412 / 5424 9412 / 9424	5412 / 5424 9412 / 9424	5412 / 5424 9412 / 9424	5412 / 5424 9412 / 9424
External Storage Connect Option	Dual 6Gb SAS, Dual 8Gb Fibre Channel	Dual 6Gb SAS, Dual 8Gb Fibre Channel	Dual 6Gb SAS, Dual 8Gb Fibre Channel	Dual 6Gb SAS, Dual 8Gb Fibre Channel
External Storage Included	Optional	Optional	Optional	Optional
Quantum StorNext Storage Manager	Optional	Optional	N/A	N/A
Support Included	3YR Advance Part Replacement	3YR Advance Part Replacement	3YR Advance Part Replacement	3YR Advance Part Replacement

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1575 Delucchi Lane
Suite 115
Reno, Nevada USA 89502
Phone 1-866-661-7144
Fax 1-775-201-0374
www.sansolutions.com
sales@sansolutions.com

