

SANArray™ FFX-2

External 2Gb Fibre RAID Controller



- ▶ **OS-independent external RAID for servers, clusters and SANs**
- ▶ **High performance RAID—up to 100,000 IOPs**
- ▶ **Scalable to 124 drives for up to 9TB per controller**

The SANArray FFX-2 is a 2Gb/s external, end to end fibre channel RAID controller ideal for Storage Area Network (SAN) environments. It delivers cost-effective fibre storage to NT, NetWare and UNIX servers. In dual active configurations for non-stop data accessibility, the SANArray FFX-2 provides dual fibre interfaces to loop, fabric, or point-to-point topologies and dual redundant loops for continuous access to large data pools.

SAN management

SANmapping™ provides system managers the ability to designate or restrict server access to specific data sets.

Mylex's SANArray™ Manager network RAID management utilities allow users to remotely configure and monitor RAID subsystems using industry standard protocols. SANArray Manager offers state-of-the-art features such as the advanced RAIDAssist which virtually eliminates difficulty in setting up disk arrays by interactively selecting the optimum balance of storage capacity, data availability (fault tolerance), and I/O performance for your application.

Data availability

SANArray FFX-2 helps maximize server uptime by offering critical SAN fault-tolerance features, such as multiple-target ID support, pairing for active-active configu-

ration and transparent failover/failback for high-availability and clustered environments.

SANArray controllers operating in active-active mode share configuration data and continuously monitor the status of the other controller. If a controller fails, its partner transparently assumes its fibre address and workload. Coherent, mirrored data caches are designed to ensure data integrity; any write data that has not been made permanent on disk at the time of failure is immediately written to disk.

A perfect companion for the SANArray FFX-2, Mylex's PATHPilot™ software utility automatically detects data path failures and routes data across alternate paths to enhance availability.

Modularity and scalability

Scale capacity by adding up to 124 disk drives to one controller. SANArray FFX-2 supports up to 1GB of user data cache that is mirrored between RAID controllers, for data protection. With features such as active-active, transparent failover/failback, SANmapping and cache coherency, the SANArray FFX-2 can be configured to move and protect terabytes of data.

Controller Specifications

RISC Processor	Intel XScale™ 600MHz
Cache	128MB, 256MB, 512MB
Flash	4MB
Hardware XOR	Yes
ECC Memory Support	Yes
Battery Backup Support	Yes
Ethernet Support	Yes (optional)

Physical Specifications

Form Factor	9.2"L x 3.9"W x 1.0"H
Power Requirements	+5.0V at 5.7A (max) +12V at .75A
Temperature	0 to 50°C
MTBF	400,000 Hrs. at 25°C
Warranty	Three years

Fibre Channel Specifications

- One or two 2Gb/s Fibre host channels
- Point-to-point, loop, fabric
- N_Port and NL_Port
- Copper and shortwave optical GBICs
- 2x2 configurations
- Two 2Gb/s drive channels
- Up to 124 drives can be attached per controller
- RAID 5 sustained disk transfer (duplex)
Reads: up to 350MB/s
Writes: up to 270MB/s
- Disconnect/Reconnect
- Support for SMART capable drives
- Auto-Negotiate support (Host and Drive Channels can be set to 1Gb/s, 2Gb/s, or Auto-Negotiate)

RAID Fault Tolerant and Flexibility Features

- RAID levels 0, 1, 0+1, 3, 5, 10, 30, 50 and JBOD
- Transparent disk drive rebuild
- Mylex Online RAID Expansion™ (M.O.R.E.)
- Up to 32MB I/O request sizes
- Variable stripe size per controller
- Variable cache line size per controller
- Mirrored cache
- Drive roaming during power off
- SES enclosure management
- Cache coherency
- Dual active operation
- Transparent failover/failback
- Automatic error recovery
- Write through, write back or read ahead support per logical device
- Automatic detection of failed drives
- Automatic rebuild using hot spare drive
- Hot-drive swapping support
- Clustering support
- SANmapping server to LUN mapping
- Backend-Ping

RAID Management

- SANArray Manager
Globally configure, monitor and manage storage
- RAIDAssist
Automated menus for easy configuration
Custom menus for advanced users

System Driver Support

- Operating system independent

Certifications

FCC Class B, CE, UL

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