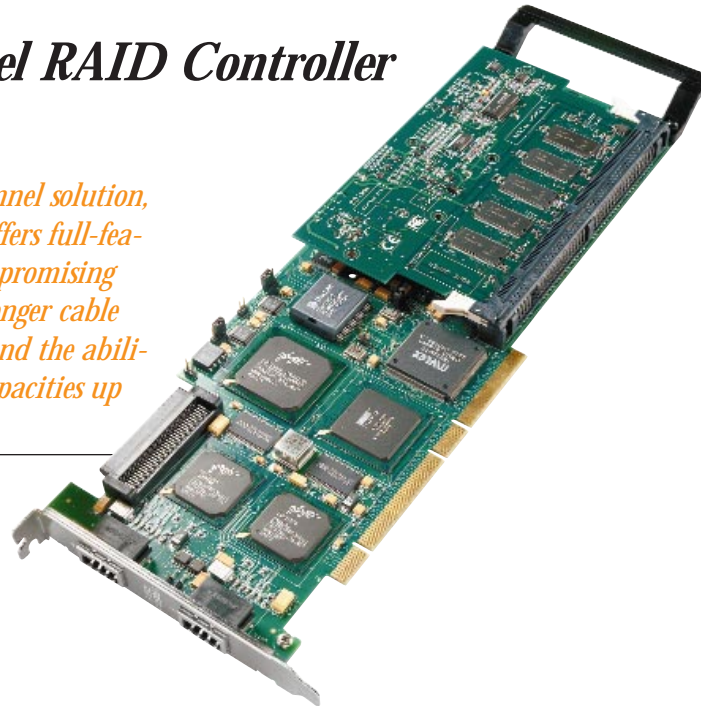


eXtremeRAID™ 3000

PCI to Fibre Channel RAID Controller

MYLEX
MOVING DATA ▶ SMARTER

The eXtremeRAID 3000 fibre channel solution, best suited for SAN applications, offers full-featured RAID clustering with uncompromising fault tolerance, data availability, longer cable lengths, higher data transfer rates and the ability to attach up to 252 drives for capacities up to 12.6 TeraBytes.



Performance/Features

The eXtremeRAID 3000 delivers unparalleled performance and is capable of sustaining disk transfer rates of over 90MB/sec and sustained cache transfer rates of over 180MB/sec. Its dual fibre loops for drive-connect provide redundant connections to give extra fault-tolerance for high-data availability applications. The split memory architecture provides for a cache (ECC for data, parity for execution code) size of up to 256MB for optimum throughput. It uses the fastest (233MHz) RISC processor on a PCI-based RAID solution, up to two 100MB/sec Fibre channel loops, and a 64-bit, 66MHz PCI interface to provide extreme performance for servers.

Adding to the performance story is Mylex's proven, award-winning RAID firmware. The eXtremeRAID 3000 uses driver technology that has won Mylex more TPC-C benchmarks than any other RAID controller worldwide. With this technology, the eXtremeRAID 3000 provides the highest performance and most flexible RAID solution available.

Flexible Massive Storage & Fault Tolerance

The eXtremeRAID 3000, with two fibre loops, supports up to 252 drives allowing system configurations of over 12.6 Terabytes of high performance storage per controller. Using multiple eXtremeRAID 3000s, extremely large systems can be created.

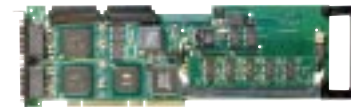
The eXtremeRAID 3000 solution provides full RAID level 0, 1, 0+1, 3, 5, 10, 30, 50 and JBOD

configuration capabilities. To ensure continued 7x24 nonstop operations, Windows NT clustering is featured along with PCI hot plug capability.

Mylex's eXtremeRAID 3000 has a multitude of fault detection and fault tolerance features, as well as new functions to ease set-up, flexibility and management. Immediate RAID Availability (background initialization) enables other set-up tasks to be performed while the rest of drives are being initialized. RAID-Expansion allows users to add drives to existing arrays and re-stripe data across all the drives. The additional storage space created by the new drive expands the capacity of the existing logical drive or creates an additional logical drive. RAID-Migration allows for easy reconfiguration from one RAID level to another. The copy-drive group feature provides users with a method of transferring the contents of one logical drive to another in a single step.

Exceptional Ease of Use and Manageability

The eXtremeRAID 3000's comprehensive storage management capabilities come from Mylex's Java-based Web Array Manager™ (WAM) and the industry leading Global Array Manager™ (GAM). These RAID management utilities allow users to remotely configure and monitor RAID subsystems using industry standard protocols. WAM/GAM is rich in management features, allowing users to easily manage their online storage.



eXtremeRAID 3000 without BBU

CONTROLLER SPECIFICATIONS

RISC Processor	StrongArm SA 110
Speed	233MHz
PCI	2.2
Flash	1MB
Cache	32 to 256MB
Battery Backup	Yes
Drives per Controller	252
PCI Bus	64 bit, 66MHz
PCI Hot Plug	Yes

PHYSICAL SPECIFICATIONS

PCI Card	Full length
Power Requirements	+5.0v (+-5%) 3.5 A (max); 22.5 watts
Temperature	0 to 50° C
MTBF	200,000 Hr.
Warranty	Three years
Certification	FCC Class B, CE, UL PC99, PC99A Windows NT, Novell SCO UNIX/ UnixWare, MSCS, SDG 2.0

SCSI SPECIFICATIONS

- Supports SCSI1, SCSI2, Ultra SCSI, and Ultra2 SCSI Low Voltage Differential (LVD) devices
- Up to 80MB/sec burst data rate
- Automatic SCSI bus termination
- One Wide Ultra2 SCSI LVD channel
- Supports up to 750GB (using 50GB drives)
- 15 devices per controller

FIBRE CHANNEL(S) SPECIFICATIONS

- Drive channels: Dual external Fibre (FC-AL) at 100MB/sec per channel
- Sustained cache transfers: over 180MB/sec
- Burst transfers: Up to 100MB/sec per channel
- Sustained disk transfers: over 90MB/sec
- 126 devices per channel; 252 devices per controller
- Supports up to 12.6TB (using 50GB drives) per controller

RAID FAULT TOLERANT AND FLEXIBILITY FEATURES

- RAID levels 0, 1, 0+1, 3, 5, 10, 30, 50, JBOD
- MSCS RAID clustering - Q1, 2000
- Transparent disk drive rebuild
- Mylex Online RAID expansion (M.O.R.E.)
- Up to 32 controllers per system (NT)
- Logical drive size of 2TB, 32 logical drives/ controller
- Immediate RAID Availability; background initialization
- RAID migration (M.O.R.E.2) - Q1, 2000
- Variable stripe size per controller
- Variable cache line size per controller
- Up to eight non-disk devices per controller
- Drive roaming during power off
- SAF-TE and SES enclosure management
- StorageWorks compatible
- Automatic error recovery
- Write-through or write-back cache support
- Automatic detection of failed drives
- Automatic rebuild of hot spare drive
- Hot drive swapping support
- Support for SMART capable drives
- Configuration data stored on disk and NVRAM
- PCI Hot Plug

RAID MANAGEMENT

- Web Array Manager (WAM)
 - Browser based Java applet and application
 - Create, manage, expand and monitor programs
 - Error statistics and performance information
- Global Array Manager (GAM)
 - Client server GUI interface
 - Create, manage, expand and monitor programs
 - Error statistics and performance information
- RAID EzAssist: BIOS resident - RAID configurator

SYSTEM DRIVER SUPPORT

- Windows 2000 (Pending release from Microsoft)
 - Professional edition, server and advanced server
- Windows NT server 4.0 and Enterprise edition
- NetWare 4.x, 5.x and SMP with NWPA
- SCO UnixWare 7.x
- UNIX OSR 5.0.4, 5.0.5
- DOS 6.x and above
- Solaris 7 (x86)
- Linux

eXtremeRAID 3000

64 bit PCI to Fibre Channel RAID controller

E3000-X-YYYNB
E3000-X-YYYBD

Contact your Mylex Sales Representative for other models with various channels and memory sizes.

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Mylex Corporation produces high-performance disk array (RAID) controllers and complementary computer products for network servers, mass storage systems, workstations, and system motherboards. Mylex controllers come with a three year limited warranty.

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