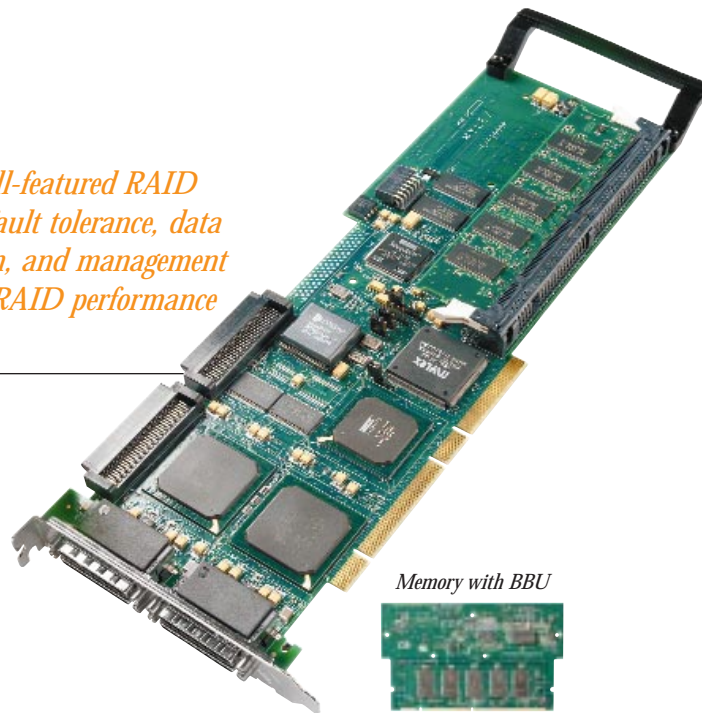


eXtremeRAID™ 2000

MYLEX®
MOVING DATA ▶ SMARTER

Ultra 160/m SCSI to PCI RAID Controller

The eXtremeRAID 2000 offers full-featured RAID clustering with uncompromising fault tolerance, data availability, superior configuration, and management flexibility. It offers a new level of RAID performance 24 hours a day, 7 days a week.



Memory with BBU

eXtreme RAID Performance

The eXtremeRAID 2000 incorporates the latest performance technology by using the fastest (233MHz) RISC processor on a PCI-based RAID solution, four 160MB/sec Ultra 160/m SCSI channels, and a 64-bit, 66 MHz PCI interface to provide extreme performance for servers.

Adding to the performance story is Mylex's proven, award-winning RAID firmware. The eXtremeRAID 2000 controller uses driver technology that has won Mylex more TPC-C benchmarks than any other RAID controller worldwide. With this technology, the eXtremeRAID 2000 provides the highest performance and most flexible RAID solution available. The eXtremeRAID 2000 includes the feature-rich RAID technology found in all Mylex RAID products.

eXtreme Fault Tolerant RAID

The eXtremeRAID 2000 solution provides full RAID level 0, 1, 0+1, 3, 5, 10, 30, 50 and JBOD configuration capabilities with a split memory architecture, supporting up to 256MB of SDRAM cache memory, ECC for data, parity for execution code. To support 7x24 nonstop operations, Windows NT clustering is featured along with PCI hot plug capability. Additionally, the eXtremeRAID 2000 uses an integrated battery backup and SDRAM module. Other features such as hot spare and automatic

rebuild allow the server to continue to operate when a drive fails. Mylex's eXtremeRAID 2000 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 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.

Unparalleled Configuration and Remote Management

The eXtremeRAID 2000'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.



CONTROLLER SPECIFICATIONS

| | |
|-----------------------|-----------------|
| RISC Processor | StrongArm SA110 |
| Speed | 233MHz |
| PCI | 2.2 |
| Flash | 1 MB |
| Cache | 32 to 256MB |
| Battery Backup | Yes |
| Drives per Controller | 60 |
| PCI Bus | 64 bit, 66MHz |
| PCI Hot Plug | Yes |

PHYSICAL SPECIFICATIONS

| | |
|--------------------|--|
| PCI Card | Full length |
| Power Requirements | +5.0v (+-5%) 3.5 A (max); 17.5 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, Ultra2 and Ultra 160/m SCSI devices
- Full support for Low Voltage Differential (LVD) devices
- Up to 160MB/sec burst data rate per Ultra 160/m SCSI channel
- Automatic SCSI bus termination
- Disconnect/Reconnect
- 255 scatter/gather address pairs
- 512 concurrent host commands
- 256 tagged commands per controller
- 64 drive groups
- 16 drives per drive group
- Automatic sector remapping
- Ultra 160/m SCSI (LVD), cable lengths up to 25 meters for two devices or 12 meters for 15 devices
- Four Wide Ultra 160/m SCSI LVD channels
- Supports up to 3.0TB (using 50GB drives)
- 15 devices per channel
- 60 devices 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 2 TB, 32 logical controller/ drives
- 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 2000

64 bit PCI Ultra 160/m SCSI RAID controller

E2000-4-XXXNB
E2000-4-XXXBD

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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