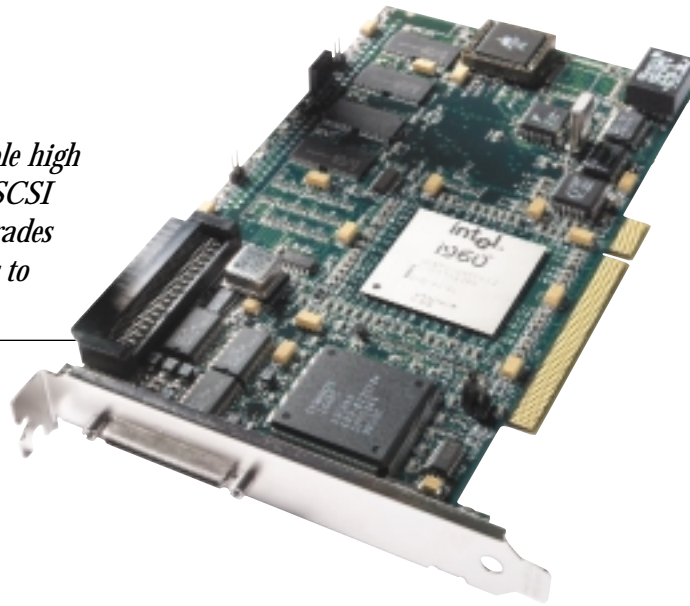


# AcceleRAID™ 150

## ULTRA2 SCSI TO PCI RAID CONTROLLER

*The AcceleRAID 150 is an affordable high performance single channel Ultra2 SCSI LVD RAID controller that also upgrades existing system board SCSI channels to powerful RAID channels.*



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AcceleRAID 150 is an entry level single channel PCI to Ultra2 SCSI LVD, RAID controller with all the functions, features and performance characteristics of the Mylex line of industry acclaimed RAID controllers. NT, NetWare, SCO UNIX, UnixWare and Linux 2.2 are supported as well as PCI based motherboards with embedded SCSI chips and systems that have a PCI expansion slot designated for add-in RAID controllers. Intel's N440BX, T440BX, NA440BX, NC440BX and SC450NX are examples of such motherboards and systems. The AcceleRAID 150 controller brings the performance and fault tolerance of RAID to performance desktop, workstation desktop and entry level server applications.

### Affordable RAID Solution

The AcceleRAID 150 is hardware optimized to be a single channel RAID controller with Ultra2 SCSI support. Alternatively, it can use the SCSI channels on the motherboard for a multiple channel solution. This means the AcceleRAID has a lower component count and lower cost, yet delivers the same superior performance and fault tolerance expected from Mylex RAID controllers.

The AcceleRAID family of RAID controllers now provides users the option to use RAID in all high performance applications based on PC workstations, entry level servers and mid-range systems.

### Unparalleled Performance

The AcceleRAID's performance is enabled by Intel's i960RP 33MHz processor and 4MB or 16MB cache memory, as well as a filter NT driver that increases overall system throughput. AcceleRAID 150 provides full RAID 0, 1, 0+1, 3, 5, 10, 30, 50 and JBOD level configuration capabilities. User-friendly RAID configuration and management utilities make the AcceleRAID 150 the perfect choice, even for the smallest workgroups.

AcceleRAID 150 controllers have a multitude of fault detection and fault tolerance features, as well as new functions to ease set-up and management. The new Immediate RAID Availability (background initialization) feature enables other set-up tasks to be performed while the rest of the system is being configured. 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 array and creates an additional logical drive.

### Flexibility

The AcceleRAID 150 has one Ultra2 SCSI LVD channel on the controller. This channel is fully independent and supports up to 15 devices for a capacity of 1.08TB per controller. Up to four controllers can exist in one server or workstation.

## CONTROLLER SPECIFICATIONS

RISC Processor	Intel i960RP
Speed	33MHz
PCI	2.1
EDO RAM	4MB or 16MB
Flash	1MB

## PHYSICAL SPECIFICATIONS

PCI card	Half length
Power Requirements	+5.0v (+-5%) 3.5 A (max); 17.5 watts
Temperature	0 to 55° C
MTBF	387,000 hrs.
Warranty	Three years
Certification	FCC Class B, UL, CE Windows 2000, Windows NT, NetWare Solaris 7

## SCSI SPECIFICATIONS

- Supports SCSI1, SCSI2, Ultra SCSI, and Ultra2 SCSI devices
- Full support for Low Voltage Differential (LVD) devices
- Up to 80MB/s burst data rate
- Automatic SCSI bus termination
- Disconnect/Reconnect
- 64 concurrent host commands
- 256 tagged commands per controller
- Automatic sector remapping
- Ultra2 SCSI (LVD) cable length up to 25 meters for two devices or 12 meters for 15 devices
- One Wide Ultra2 SCSI LVD channel
- Up to 15 devices per channel
- Up to 3.24TB per system (depending on configuration; multiple controllers and SCSI channels on system board)

## RAID FAULT TOLERANT AND FLEXIBILITY FEATURES

- RAID levels 0, 1, 0+1, 3, 5, 10, 30, 50, JBOD
- Transparent disk drive rebuild
- Online RAID expansion
- Up to four controllers per system (NT)
- Logical drive size of 2TB, 32 logical drives per controller
- Immediate RAID availability; background initialization
- 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 enclosure management
- StorageWorks compatible
- Automatic error recovery
- Write-through or write-back cache support/logical device
- 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 (Windows 2000, Windows NT and NetWare)

## 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
  - Automated menus for easy configuration
  - Custom menus for advanced users

## SYSTEM DRIVER SUPPORT

- Windows 2000
  - Professional edition, server and advanced server
- Windows NT server 4.0 and Enterprise edition
- NetWare 4.11 and above, 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

## AcceleRAID 150

RAID controller with Ultra2 SCSI; also uses SCSI channels on system board

A150-1-4E  
A150-1-16E

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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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