

DAC960PD High-Performance PCI Bus Array Controller

- Global Array Manager*
 - For Monitoring and Managing Storage From Any Client
- Disconnect/Reconnect
 - Optimizes SCSI Efficiency
- Tagged Queuing
 - For Improved Multitasking and I/O Efficiency
- Scatter/Gather
 - Adds Command Efficiency
- Hot Standby Disk Support
 - Maximizes Fault Tolerance
- Automatic Sector Remapping
 - Defective Media is Recovered From and Corrected
- Automatic Failed Drive Detection and Transparent Disk Drive Rebuild
- Automatic Error Recovery
- User Definable Rebuild Priority
- Variable Stripe Width
 - Allows Tuning to Optimize CS and Application Performance
- Cache Battery Backup Option
 - Protects Unwritten Data in Cache During Power or System Failure
- Supports Smart-Capable Drives For Predictive Failure Analysis
- SAF-TE and AEMI Fault/Status Management
- Non-HDD Device Support
 - Allows Tape Drive or Optical Support on a SCSI Node

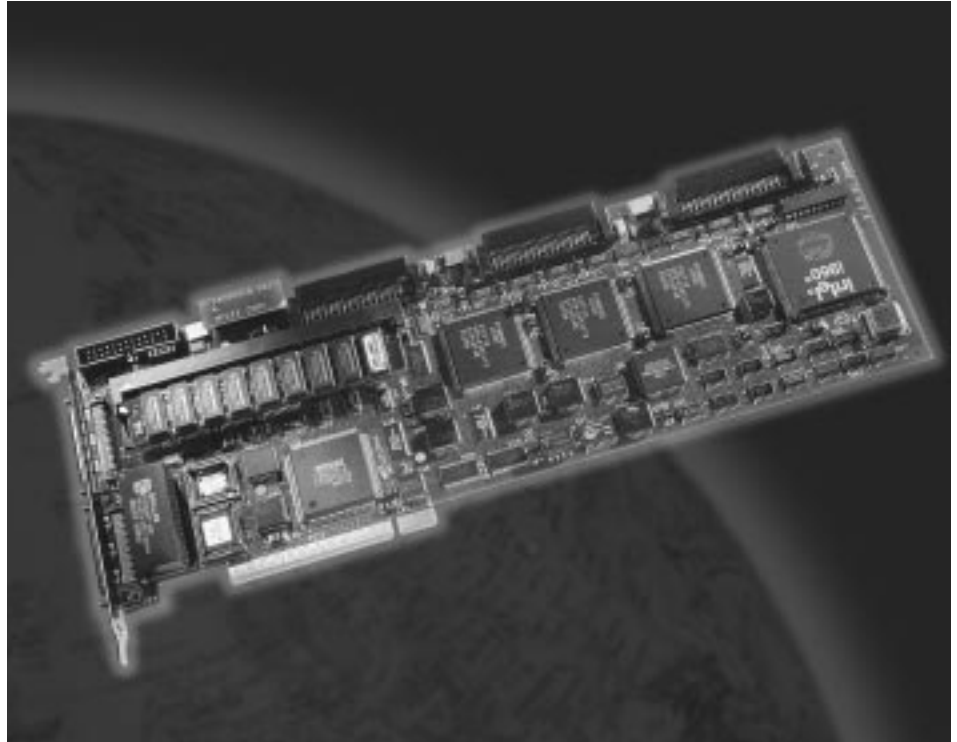
For server applications requiring high disk I/O throughput, the Mylex DAC960PD PCI disk array controller is the ideal solution. The DAC960PD provides you with fault-tolerant storage and maximum data availability.

EXCEPTIONAL FAULT TOLERANCE

For non-stop availability you can rely on the DAC960PD with up to three Fast/Wide SCSI channels supporting up to 45 disk drives, and up to 64 MB of onboard memory. The DAC960PD can detect a failed drive and rebuild the replacement drive automatically.

PREMIER PERFORMANCE

The DAC960PD controller lets you take



full advantage of 132 MB/sec. PCI technology to increase I/O performance for network server and storage warehousing applications. An Intel i960® 32-bit RISC processor drives all disk array controller functions, including parity generation, RAID algorithms, striping algorithms, and cache management, freeing up the host system CPU. Each SCSI channel gives you up to 20 MB/sec. throughput; a three channel version gives you 60 MB/sec. bandwidth. Optional EDRAM provides no wait-state cache access for faster read and write operations. The cache memory is expandable up to 64 MB DRAM (8 MB with EDRAM).

SUPERIOR FLEXIBILITY

For the right mix of performance and fault tolerance, RAID levels 0, 1, 5, and 0+1 are supported and can be used on the same string of physical drives. The DAC960PD supports a wide range of SCSI disk drives, which allows the array to be tailored to meet most storage capacity requirements. Up to four con-

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trollers can be supported by each host for a total of 84 SCSI devices. Non-disk devices (i.e., tape or CD-ROM) are supported through standard SCSI software interfaces (i.e., ASPI) to provide compatibility with most third-party software packages.

SPECIFICATIONS

CPU	Intel i960® 32-BIT RISC microprocessor
Cache	DRAM or EDRAM
Minimum	2 MB
Optional	4, 8, 16, 32 or 64 MB (8 MB maximum EDRAM)
Write Options	Write-through or write-back per "logical array"
Onboard BIOS	Embedded in the firmware
Onboard Firmware	Flash EEPROM
PCI Bus Master	PCI Burst mode up to 132 MB
Uses memory write and invalidate command	
SCSI Controller	1, 2 or 3 SCSI channels (up to 40 MB per channel)

DATA TRANSFER RATE

(DAC960PD with 3 SCSI Channels)

DRAM Memory: 18 MB sustained sequential read¹

EDRAM Memory: 29 MB sustained sequential reads²

¹ The sustained sequential read transfer rate using DRAM memory is based on a seven drive array with a minimum head data transfer rate of 3 MB per drive.

² The sustained sequential read transfer rate using EDRAM memory is based on a seven drive array with a minimum head data transfer rate of 4.3 MB per drive.

OPERATING SYSTEM SUPPORT

DOS

IBM OS/2

Novell Netware

UnixWare

SCO UNIX & SCO ODT

UNIX System V

Windows NT & Advanced Server

Banyan VINES