DAC960PL PCI Disk Array Controller

Advanced SCSI

- Disconnect/Reconnect
  – Optimizes the SCSI Bus Utilization
- Tagged Command Queuing
  – Optimizes Disk Drive Throughput
- Scatter/Gather
  – For Command Efficiency
- Multi-Threading
  – Process Multiple Simultaneous
  Accesses
- Elevator Sorting of Requests Per
  SCSI Channel
  – Minimizes Disk Overhead Delays
- Active Termination
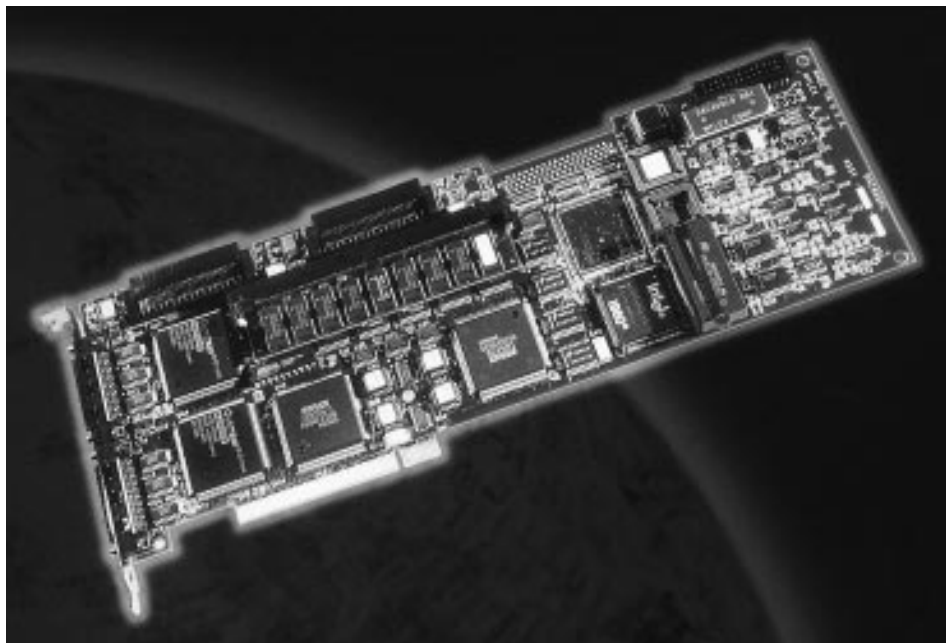 – Improved SCSI Bus Integrity

Advanced RAID

- Global Array Manager*
  – For Managing and Monitoring
  Storage From Any Client
- Standby (Hot) Spare Disk Support
  – For Maximum Fault Tolerance
- Hot Swap Disk Support
  – Allows Replacing Failed Drives
  On-Line
- Automatic Sector Remapping
  – Defective Media is Recovered
  From and Corrected
- Automatic Failed Drive Detection
- Automatic Error Recovery
- Transparent Disk Drive Rebuild With
  User Definable Rebuild Priority
  – Incorporates Replacement Disk
  Without Interrupting Access to
  Data
- User Definable Rebuild Priority
- Variable Stripe Width
  – Allows Tuning to Optimize OS
  and Application Performance
- Supports Smart-Capable Drives For
  Predictive Failure Analysis

For fault-tolerance disk storage in a small to mid-range PCI-based server environments, the DAC960PL is the solution. The DAC960PL disk array controller gives you an affordable, high-performance disk solution for protecting your data.

EXCEPTIONAL FAULT TOLERANCE
You can rely on the DAC960PL for data security, non-stop data availability and fault tolerance. The DAC960PL efficiently handles all disk array controller and storage management functions using a powerful 32-bit Intel i960® RISC microprocessor and up to 64 MB of intelligent read/write cache. Its self-contained I/O processing frees up valuable host CPU cycles.

ENHANCED I/O PERFORMANCE
The DAC960PL delivers excellent system performance even as CPU loads increase. Engineered for performance, it is available in 1, 2 and 3 SCSI channel versions. Up to three Fast/Wide SCSI-2 channels support the fastest SCSI drives available. For optimized RAID throughput, the DAC960PL supports up to 64 MB of intelligent onboard read/write cache and PCI bus mastering.

MULTIPLE RAID LEVELS
RAID levels 0, 1, 5 and 0+1 are supported as well as logical arrays on the same group of physical drives.

OS COMPATIBILITY
All major operating systems are supported, including DOS, Windows, Novell NetWare, UnixWare, Windows NT, SCO Unix, OS/2 and Banyan Vines.

CONTACT:

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BATTERY BACKUP OPTIONS

Cache data can be protected in the event of a power loss with the optional battery backup modules. The battery backup module attaches to the DAC960PL and provides battery backup for standard DRAM cache.

SPECIFICATIONS

RAID Levels Supported	0, 1, 5 and 0+1
Host Bus	32-bit, 33 MHz, PCI local bus
PCI Bus Data Rate	Bus master; 132 MB burst rate Uses memory write and invalidate command
Controller CPU	Intel i960® 32-bit RISC microprocessor
Cache Size	2 MB minimum to 64 MB maximum
Write Cache Policies	Write-through or write-back per "logical array"
SCSI Data Rate	20 MB per channel; 60 MB maximum (3 channels)
SCSI Protocol	8/16-bit fast/wide SCSI-2 compliant
Devices per SCSI Channel	15
SCSI Channels	1, 2 or 3 fully independent SCSI channels
Cabinet Fault Management	Both SAF-TE and AEMI compliant

OPERATING SYSTEM SUPPORT

DOS 5.x, 6.x and above
SCO UNIX & SCO ODT
UnixWare
Novell NetWare 3.1x, 4.0x, 4.1
Windows NT 3.5x and Advanced Server
IBM OS/2, 2.1, 2.2, 3.0 (WARP), SMP
Banyon Vines 6.x

PHYSICAL SPECIFICATIONS

Dimensions (LxH)	12.5 in. x 4.19 inc.
Operating Temperature	5 degrees C to 55 degrees C
Storage Temperature	-60 degrees C to 150 degrees C
Relative Humidity	20% to 90% non-condensing
Power Requirements	5 V +/- 5%