EZ-RAID

EZ-RAID is a comprehensive and expandable storage solution for the most demanding high availability data storage requirements. The EZ-RAID consists of a Redundant Array of Inexpensive Disks (RAID) engineered to provide a high performance, reliable and cost effective data storage solution.

The EZ-RAID features include:

Hot swap mountable disk storage modules enabling online replacement of failed drive.

Fault tolerant redundant power supply system.

Very high data transfer rates.

Scaleable drive array expansion to meet all current and future data storage requirements. Available in both tower and rackmount.

Support for multiple host channels, allows connection of multiple server or multiple channels to a single host.

Cross Platform support for PC's, MAC, SUN, HP, DEC, Silicon Graphics, AS400, RS6000 etc.....

User selectable RAID 0, 1, 3 or 5 operation modes.

Front panel LCD display and keypad with audible alarm for reporting critical failures.

Predicative and failure notifications via SNMP traps and SMTP e-mail.

Easy configuration via push button LCD display.

Secure remote administration via modem dial in service.

Duplexed raid controller option guards against controller failure.

Support for Clustering Hardware.

Wide range of host interface options including SCSI, and Fibre Channel

TOWER

RACKMOUNT

The Redundant Fault Tolerant Solution

Hot Swap Disk Drives

EZ-RAID takes for granted that components will fail ! It caters for this eventual failure by having redundancy of every single key component within the system.

A powerful microprocessor built into the RAID system constantly monitors the status of all the system components. If a failure occurs an audible alarm sounds and a message indicating the nature of the fault is displayed on the LCD panel. Optionally SNMP traps are available for reporting and diagnostics via a remote console.

Once a failure has occurred the EZ-RAID system is engineered with redundant elements to allow the system to continue to operate while the failing component is replaced.

Disk drives are mounted in hot swap canisters and allow the removal and replacement of the disk drives without bringing the RAID system off-line. Rebuild of the failed drive is initiated by selection of the rebuild option from the LCD panel. the system can also be configured to rebuild onto a spare drive automatically in the event of drive failure.

Redundant Power Supply

EZ-RAID is equipped with multiple redundant power supplies. If one of the power supplies fails the system will continue to operate with the other power supplies without any downtime. The defective power supply can be replaced without bringing the system offline.

The RAID controller which manages the system can optionally be duplexed to further enhance the fault tolerant capability of the system.

Redundant Controller Option

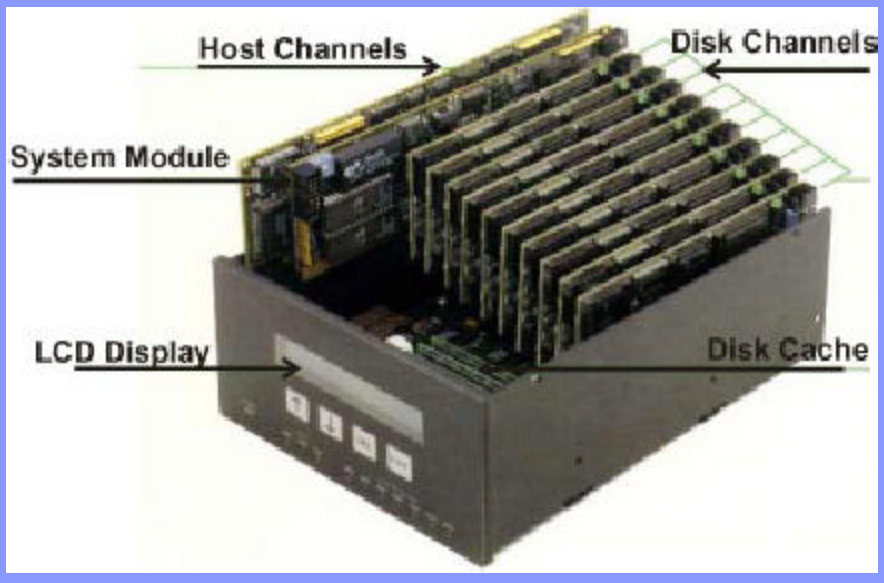
Scaleability & Performance

The EZ-RAID system has been designed with scaleabilty and performance in mind.

The system comes as standard with 4 Ultra2 Wide I/O Channels but this can be expanded to a massive 16 channels. Thus ensuring the maximum possible bandwith for the most demanding applications.

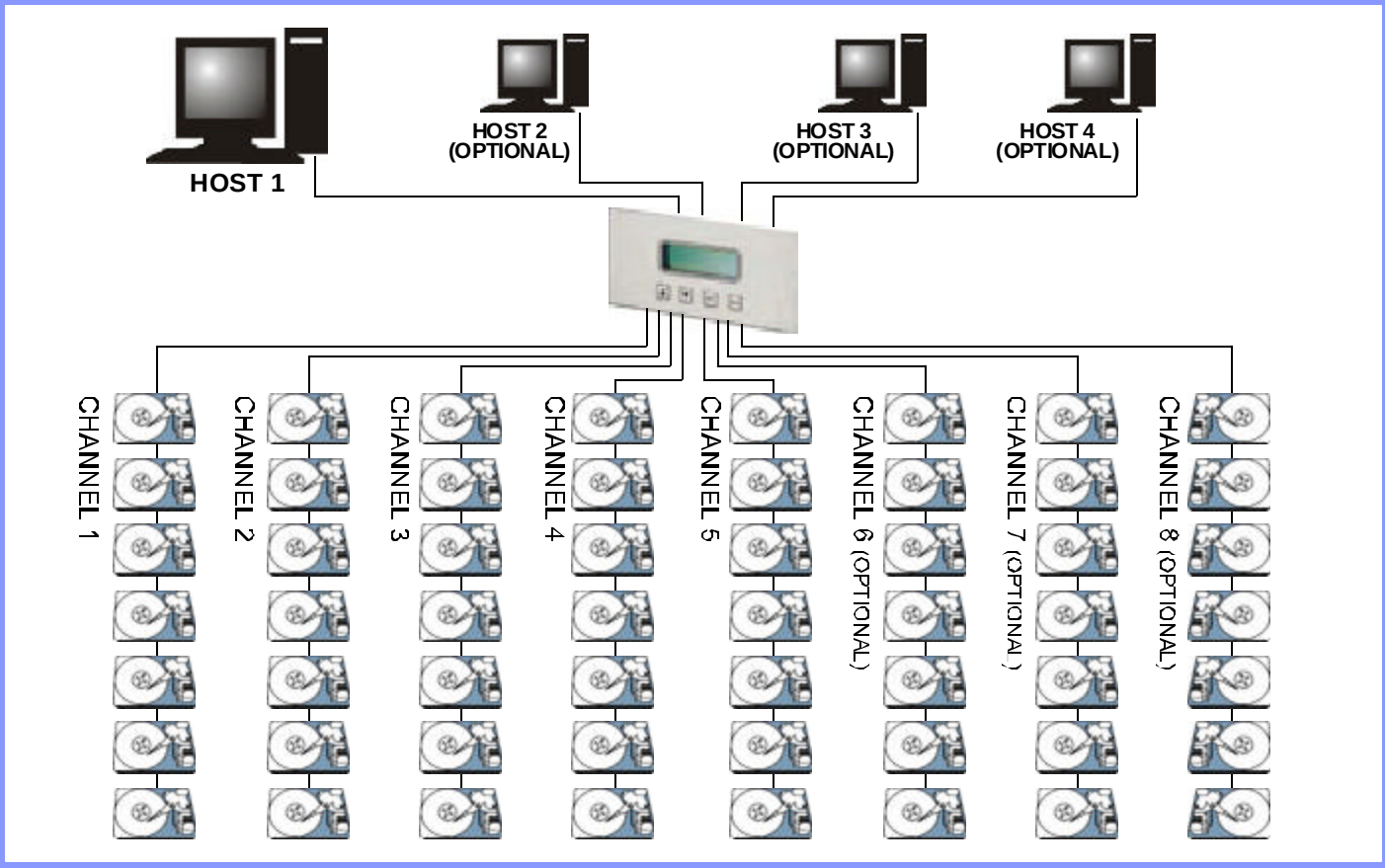
In addition the system can be upgraded via daughter boards to support Differential SCSI, Fibre Channel and even network attached.

The data cache size can be expanded to 1GB.



RAID Controller

EZ–RAID



The Multi Channel and Multi Host System

One of the unique capabilities of EZ-RAID is the ability to connect multiple hosts concurrently.

This capability includes the capability to connect dissimilar hosts. This means that on one channel you could have an NT File Server, on the 2nd channel a Macintosh OPI Server and a SUN workstation on the third. Thus if the system had a RAID size of 40GB, a 20GB partition could be created to service the NT file server, 10GB partition for the MAC and another 10GB for the SUN and because EZ-RAID is serviced via a very powerful RISC processor each system would be supported without any degradation in performance.

This Multi Channel capability is often used by installations to support a "*standby server capability*". To implement standby server, two separate file servers are connected to dedicated host channels on EZ-RAID. The operational server's data including the bootable disk is installed on EZ-RAID. If the operational server develops a fault, the standby server is switched on and boots of the EZ-RAID system. This process can be performed automatically via the "standby server online" module which monitors the status of the operational server and brings the standby server online if a fault develops on the operational server.

The most sophisticated application of the multi host capability of EZ-RAID is when it is used to support *clustering hardware*. Clustered hardware is basically two distinct systems connected together via shared storage. The systems function as if they were a single system, they share access, both read and write to the same data. Tasks are distributed via clustering management software between the two systems. If one of the systems fail the other system takes over the tasks of the failed system without the connected workstations having to re-logon. EZ-RAID supports a broad range of clustering solutions including Microsoft Cluster.

EZ-RAID has a comprehensive range of options to support the most diverse environments. EZ-RAID is available in both Tower & Rackmount enclosures. EZ-RAID is also available with variety of interfaces and disk capacities from 288GB to 8000GB.

OPTIONS

INTERFACES
Ultra 2 SCSI
Differential SCSI
Fibre Channel

ENCLOSURES
8 Bay Tower
8 Bay Rackmount
8 Rack Cabinet

POPULAR CONFIGURATIONS

ARRAY MODEL	EZ288T	EZ576T	EZ288R	EZ576R
DRIVES	4 X 72GB	8 X 72GB	4 X 72GB	8 X 72GB
TOTAL CAPACITY	288GB	576GB	288GB	576GB
INTERFACE	ULTRA-2	ULTRA-2	ULTRA-2	ULTRA-2
SEEK ITEMS	6.5MS	6.5MS	8.5MS	8.5MS
TRANSFER RATE	80MB	80MB	80MB	80MB
DRIVE MTBF (Hours)	900,000	900,000	900,000	900,000
DIMENSIONS				
WIDTH	7”	7”	19”	19”
DEPTH	18”	18”	18”	18”
HEIGHT	18.5”	18.5”	7”	7”
WEIGHT	25kg	29kg	25kg	29kg
POWER SUPPLY	2 X 300W	2 X 300W	2 X 300W	2 X 300W

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