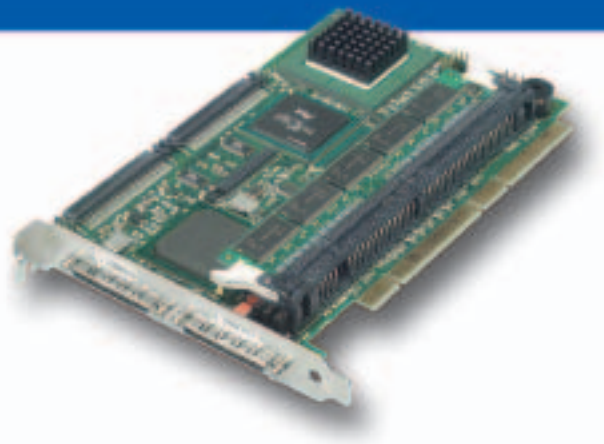
MegaRAID Elite 1600 Mid-Range RAID Adapter



The MegaRAID Elite 1600 offers unequaled performance and reliability.

FEATURES

- IA-64 Ready
- Two Ultra160 SCSI channels
- 64-bit, 66 MHz PCI
- PCI 2.2 compliant
- Up to 128 MB ECC SDRAM cache memory supported
- Standard NT® clustering support
- Advanced management and configuration utilities
- 40 logical drives per controller and 32 physical drives per logical array
- Auto resume during array reconstruction
- Background initialization for Quick RAID 5 setup
- FlexRAID®:
  - – Online capacity expansion
  - – Online RAID level migration

OPTIONAL FEATURES

- Battery backup daughter card for cache memory (Series 492)
- Memory options shipped include 32 and 64 MB ECC SDRAM

GET AN UNEQUALED PERFORMANCE AND RELIABLE SOLUTION FOR ANY APPLICATION

The MegaRAID® Elite 1600 half-size adapter employs the latest 64-bit, 66 MHz PCI SCSI RAID technology using the Intel i960® RN I/O processor. With two Ultra160 SCSI channels, the adapter offers ISPs, workgroups, and department server environments unequaled performance and reliability.

Optional battery backup daughter card (Series 492) for cache memory.

WARRANTY

LSI Logic RAID storage adapters provide high-performance SCSI and IDE solutions to leading server, disk array and computer systems worldwide. Using only the highest quality components, LSI Logic RAID storage adapters are assembled in world-class facilities to assure superior product reliability and performance. Because of stringent quality management programs, our RAID storage adapters carry a three-year limited warranty.

LSI LOGIC®

RAID STORAGE ADAPTERS

MegaRAID Elite 1600
Mid-Range RAID Adapter

Adapter Specifications

Intel i960 RN 64-bit intelligent I/O processor
- Built-in hardware XOR engine for RAID parity

Universal 64-bit, 66 MHz PCI
PCI 2.2 compliant
Half-size PCI (Short card) (6.875" x 4.2")
I_2O messaging unit
Optional battery backup daughter card (Series 492)
ACPI support
PC 99 compliant
One DIMM socket with 66 MHz 72-bit unbuffered 3.3 V ECC SDRAM
- Configurable from 16 MB to 128 MB DIMM

One Ultra160 LVD/SE dual SCSI controller
- Two external P68 VHDCI connectors and two internal P68 HDCI connectors

RAID Features

FlexRAID
- Online capacity expansion and RAID level migration

40 logical drives per controller and 30 physical drives per logical array
Background initialization for Quick RAID 5 setup
Auto resume during array rebuild or reconstruction if the system shuts down
RAID levels 0, 1, 3, 5, 10, 30 and 50 supported
Variable stripe size for all logical drives
Supports multiple caching policies on a Logical Drive basis:
- Write-back/Write-through, Read ahead: Disable/Enable/Adaptive, and Cached/Direct I/O

Server Clustering Support
- Hardware support and MSCS™ support via unified firmware

Multi-threading of up to 256 commands simultaneously

Fault Tolerance

COD - Configuration on disk and NVRAM
Auto detection of failed drives
Automatic and transparent rebuild of hot spare drives
Hot swapping new drives w/o bringing system down
On-board battery backup module for cache memory
Support for SAF-TE enclosure management
SMART support

Universal Driver Suite

Novell® NetWare® 4.2 and 5.X
Microsoft Windows NT® 4.0/2000/XP
SCO® OpenServer 5.X
SCO® UNIXWare 7.1.X/Open UNIX 8
DOS 6.XX
Linux Redhat 7.X
Win64 and Linux64 (when launched)

Online Management Utility Options

MegaRAID Configuration Console (JavaRAID) OEM option
- Web-enabled, OS independent configuration and management utility

Power Console® Plus for Windows NT/2000
- Creates and manages multiple disk arrays and controls and monitors multiple RAID servers

MegaManager
- Advanced character-based configuration and management utility for all OSs supported

Pre Boot Configuration Utility Options

WebBIOS™
- Browser-based BIOS configuration utility for point-and-click MegaRAID configuration

Hot key "Boot-up" configuration via BIOS
- Array and logical drive configuration utility at the BIOS level

For more information please visit the LSI Logic web site at:
http://megaraid.lsilogic.com

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ISO 9001 Certified

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