ARM® STOR 16003FF

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AMERICAN RESEARCH MACHINES

2Gb Fibre-to-Fibre RAID Subsystem

FEATURE HIGHLIGHTS

- FC-to-FC RAID
- Subsystem Highest density, 16 drives in 3U rack space
- Auto switch cache policy and Auto shutdown
- Compliant with networked storage software and clustering supporting transparent failover
- Up to 64TB capacity per Logical Drive (LD) (OS dependent)

OVERVIEW

The ARM STOR 16003FF is the embodiment of Infortrend's sophisticated RAID technologies, boasting a high-performance RAID engine and comprehensive firmware functionality benefits derived from years of experience in storage design. Designed for applications in storage area networks, the ARM STOR series comes with full redundancy of its active components. All back-end PCBs are passive. Critical components are duplicated and hot-swappable, including power, fan, and RAID controllers.

Architecture

This subsystem series offers a performance upgrade to the separate-bus, dual-ASIC design proven on previous RAID controllers. The series is specialized for flexible resource utilization to manage various-size IOs, random, or sequential access that requires high-speed throughput. The dual PCI bus design virtually eliminates all imminent bottlenecks on IO traffic, providing sufficient throughput for a wide range of applications on Disk-to-Disk Backup, cable CCTV storage, video on demand (VOD), SCSI-based PCs, single-user workstations, Windows NT/2000/XP, Linux, or Unix-based servers.

Firmware Capabilities

Numerous firmware options have been designed to achieve the highest level of data availability and performance. In addition to the full-featured RAID and Recovery functionality, firmware is able to manage possible causes of data loss, even errors not directly related to RAID.

Automatic disk scanning can be carried out on a preset schedule to prevent parity damage due to the occurrence of block errors across multiple drives. Even if this happens, firmware is able to salvage most data by skipping those unrepairable data blocks.

Array capacity can be expanded online by adding drives or replacing the original drives with drives of larger capacity. Availability features include: dedicated and global spare drives, hot-swap drives, duplex support, remote and real-time monitoring, and SMART related functions.

Firmware operation is optimized with advanced algorithms capable of intelligent read-ahead, multi-threaded, predictive read-ahead, optimized sorted and group writes.

Para mayor información, contáctese con nosotros:

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un mundo de posibilidades
basado en tecnología Intel

Manageability´
The Java-based RAIDWatch GUI manager provides easy-to-use interfaces, is rich in configuration options, and allows users to remotely manage their storage system over a network. Event Monitor and Notification Processing Center (NPC) submodules provide system managers the freedom of real-time monitoring with a variety of notification methods.

Enclosure
The subsystem is designed for operation with no single point of failure. Its modular and dual-redundant design minimizes the time for maintenance and service. Up to 7 JBODs can be cascaded with a RAID unit to scale the capacity up to several terabytes (TB).

The included Loop resiliency circuits provide dual drive loops consisting of 16 drives in either the RAID or JBOD units. The JBOD models come with single or dual SES modules. Once a JBOD's drive loops are connected with a RAID unit, its status will be automatically collected and shown via the web-based graphical interface.

SAN Features
Capacity is made available in a SAN through LUN Filtering, a centralized access management capability. Up to 1024 filtering entries are supported and multiple entries can be mapped to each logical partition of logical configurations. Various related functions, such as host port auto-identification, filter type selection, entry naming, and access mode configuration make shared storage an easier task.

SPECIFICATIONS

Enclosure type
- Single or dual RAID subsystem, JBOD in 3U, 19" rack enclosure

Interfaces
- Two 2Gb/s host interfaces supporting point-to- point, FC-AL, and switched fabric
- 2Gb/s single Dual-loop of 16 drives per enclosure.
- 10/100BaseT for web-based management
- RS-232C serial port

Configuration
- Single or dual-active RAID with 16 drives; or 16 drives with FC-AL attachment to shared storage

RAID Controller
- 64-bit processor w/ 256KB L2 cache
- Proprietary ASICs w/ hardware XOR engine
- Up to 1GB SDRAM (battery included with dual-active RAID models)
- Memory/RAM bus bandwidth: 1066MB/s

Management
- Firmware-embedded Java-based GUI RAID manager over out-of-band connection featuring global manageability; real-time event notification and monitoring
- Firmware-embedded manager via RS-232C port

Fault Detection, Monitoring, and Recovery
- S.E.S. enclosure device monitoring
- RAID Controller self-diagnostics
- Bad Block Handling
- SMART support: clone failing drive with spare or replace it online, reaction schemes configurable
- Clustering support
- Parity background checks and corrections

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