SuperTrak EX8760T/8768 6Gb SAS and SATA Hardware RAID Controllers

High Performance, Scalability and Reliability for today's demanding storage needs

High Performance SAS RAID Controller

SuperTrak EX8760T/8768 6Gb SAS Controllers are designed to provide high performance and high throughput while delivering cutting edge features and unparalleled reliability. Built from the ground-up using PMC Sierra's state-of-the-art 8011 I/O processor coupled with up to 512MB of DDR2 Memory, Promise's world class enterprise proven RAID Engine and an 8x PCIe Express 2.0 interface, SuperTrakEX 6Gb SAS Controllers are the most versatile and reliable SAS Controllers in the storage industry today.

The SuperTrak EX8760T/8768 6Gb SAS Controllers feature list is the most comprehensive in the business supporting Hardware Accelerated RAID levels such as RAID 5, RAID 6, RAID 50, RAID 60 in addition to Automatic Array Rebuild, Array Expansion, Array Migration, Bad Sector Remapping, Dedicated Hot Spares, Hot Plug, Hot Swap, Online Firmware Updates (update from OS), SPGIO for backplane management and SES II for management of external devices such as the Promise J-Class JBOD Subsystem. The Media Patrol feature allows predictive scanning of hard drives to determine if and when the hard drive may become usable, copying all data to a designated spare disk before the drive actually fails saving time and potential data loss.

Force Unit Access (FUA) combined with the Battery Backup Unit (BBU) provides the ultimate piece of mind in the event of power loss. FUA forces all data to be immediately written to the hard drive therefore eliminating the possibility of data residing in the cache of the hard drive minimizing data loss when the power is interrupted. The BBU ensures that any data in the cache on the SuperTrakEX SAS Controller is preserved for up to 72 hours on a full charge.

Feature Rich Web Management Tool

WebPAM Pro is Promise's feature rich Web Management Tool that allows easy and extensive management of Promise SuperTrak EX8760T/8768 6Gb RAID Controllers. With WebPAM Pro, SuperTrak EX8760T/8768 6Gb RAID Controller features and functionality can be easily accessed and configured. Need to disable cache on the hard drives? No problem. Need to setup email notification for critical or non-critical events? No problem. How about monitoring battery charging status and or checking the health of a hard drive? Once again, not a problem. Customization is critical to deployment in the field and the SuperTrak EX8760T/8768 6Gb SAS RAID Controllers offers extreme flexible for today's IT and AV Professionals.

Flexible and Scalable High Performance Storage for any Environment

SuperTrak EX8760T/8768 6Gb SAS Controllers can easily integrate into a number of performance demanding environments powering File Servers, Exchange Servers, Transactional Databases and Web Servers. Audio, Photo and Video professionals can rely on SuperTrak EX8760T/8768 6Gb SAS Controllers to deliver the performance necessary to meet their rigorous daily routines of editing, manipulating, rendering and storage of digital content. SuperTrak EX8760T/8768 6Gb SAS Controllers support Windows 2003, Windows 2008 and Windows 7 along with Fedora Core Linux, Free BSD, Miracle Linux, Redhat, SuSE Linux and VMware. SuperTrakEX 6Gb SAS Controllers are Windows and VMware 3.5/4.0 Certified.

Features

- 6Gb/s SAS/SATA Interface
- Hardware-accelerated RAID 5 and RAID 6 for maximum data protection
- Supports RAID levels 0, 1, 1E, 5, 6, 10, 50, 60
- PerfectRAID technology featuring robust error handling, error recovery and media patrol
- Automatic/manual rebuild of dedicated and global hot spare drive
- Online capacity expansion and RAID level migration to add capacity as needed
- Optional 72 hour battery backup module to preserve data in controller cache during power failure
- Force Unit Access writes data immediately to hard drive to minimize data loss
- Linux Open Source driver support
- Multiple logical drive support
- PMC Sierra 8011 I/O processor
- PCI Express 2.0 x8 Host Bus Interface
- Supports the latest Solid State Drives (SSD)

SERIAL ATA 3Gb/s

Serial Attached SCSI

RoHS 2002/95/EC

CERTIFIED FOR Windows Server® 2008

CERTIFIED FOR Windows Vista®

Designed for Microsoft® Windows® XP

Designed for Microsoft® Windows Server 2003

Compatible with Windows 7

Sophisticated Array Management Tools

Web-based Promise Array Management (WebPAM PRO) software offers professional management tools in a simple-to-use, straight forward format. Array configurations, management and monitoring features are available via the web based interface. Moreover, the SuperTrak EX family supports industry standard SNMP and CIM/WBEM so third party management application integration is simplified.

A Leader in SAS and SATA RAID

Promise Technology is the originator of ATA RAID and is a worldwide leader in SAS/SATA RAID with over 15 million controllers shipped. Using SAS and SATA technology to design and manufacture fast, reliable, cost-effective data protection, Promise is the perferred choice for SAS/SATA host bus adapters, RAID controllers and SAS/SATA external storage systems.

Specifications		
Model	STEX8760T	STEX8768
Features		
Controller Configurations	• 8 Internal SAS/SATA ports at 3Gb/6Gb/s — Two SAS SFF-8087 connector • 600MHz PMC Sierra 8011 I/O processor • Onboard 512MB ECC DDR II memory	• 8 External SAS/SATA ports at 3Gb/6Gb/s — Two SAS SFF-8088 connectors • 600MHz PMC Sierra 8011 I/O processor • Onboard 512MB ECC DDR II memory
Hardware and Software Features	• PCI-Express 2.0 x8 host bus interface • Hardware XOR engine to offload parity calculation • Hardware RAID 6 accelerator • Low-profile MD2 form factor • Optional on-board battery backup unit for data retention up to 72 hours • Forced Unit Access – ensures data has been written immediately to hard disk • Support Variable Sector enabling compatibility for 2TB+ volumes with Legacy OS such as Windows Server 2003 • Support 32 logical drives per array and 256 arrays per controller	
Supported RAID Levels	• RAID 0 – Data striped across 1-16 drives for increased performance, but no data protection • RAID 1 – Mirrored pair of drives for data protection with increased read performance • RAID 1E – Data mirroring extended to maximize balanced performance. Allows odd number drive mirroring • RAID 5 – Striped parity on 3-16 drives, ultimate data protection, capacity and performance balance • RAID 6 – Double parity for maximum data protection on 4-16 drives; allows double drive failures without downtime or data loss • RAID 10 – Mirrored pair of RAID 0 for double drive failure protection; can be split into two RAID 0 sets • RAID 50 – Striped multiple RAID 5 sets to improve performance and provide additional data protection • RAID 60 – Striped multiple RAID 6 sets to allow multiple drive failures to achieve high-data availability	
RAID Fault Tolerance and Robustness Features	• Multiple logical drive support enables combining different RAID levels on one set of disk • Read Check table to avoid data read errors • PerfectRAID™ technology for error handling and recovery of fatal, media and disk errors • Support hot swap of failed drives and hot spares • Automatic/Manual rebuild of hot spare drive • Background initialization for instant drive availability • Supports bad sector remapping • Variable stripe block size support to meet various application requirements • Synchronization can be scheduled periodically for RAID data consistency • Extensive SMART Monitoring and Status Reporting • PDM (Predictive Data Migration)	
Web-based Promise Array Manager	• Creates, deletes, expands, and converts disk arrays remotely • Media Patrol on configured and spare hard drives • Redundancy Check scheduling • Monitors drive, array, and enclosure status and provides online event logging • Email notification of drive, array, controller or enclosure events (e.g. error or degrade conditions) • Remote management based on industry standard CIM/WBEM • Interface displays in 10 languages • CLI support • LIVE Firmware Update – update firmware using WebPAM Pro in the Operating System (Windows and Linux)	
Operating System Support	• Microsoft Windows Vista, XP, Windows Server 2003, Windows Server 2008 and Windows 7 • Red Hat Linux, SuSE Linux, Miracle Linux, Fedora Core, Linux open source driver (32/64-bit) • FreeBSD, VMware 3.5/4.0	
Platform Support	• X86 and X64 for identification	
SuperBuild™ BIOS	• Array configuration utility at the BIOS level • BIOS Boot specification support: boot system from any array • Flash-upgradeable BIOS for future upgrades	
Enclosure Management	• SES-2 • SGPIO • I²C	
Cable in Kit	STEX8760T Two 0.5-meter multi-lane cable (4x SFF-8482 SAS cables)	N/A
Operating Temperature	0 to 50°C (40°C w/ BBU)Relative humidity: 5%-95% non-condensing	
Physical Dimensions	16.7 cm x 6.8 cm (6.6" x 2.7")	
Agency Certifications	UL, FCC, CE, FCC Class B, BSMI, VCCI, KCC, C-tick	
Limited Warranty	3 Year	

About Promise

Promise Technology, with a track record of over 20 years of storage products development and over 10 years experience in supplying high quality RAID storage products, is highly recognized as a premier high quality and dominant RAID storage supplier in the industry with a comprehensive storage product line offering including Serial Attached SCSI (SAS) and Serial ATA (SATA) PCIe RAID HBAs, desktop NAS and DAS systems, rack mount SAN and DAS storage subsystems with Fibre Channel, SAS, iSCSI, and SCSI connectivity, for SOHO, SMB, and enterprise customers.

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