FastTrak® Family of RAID 2 to 4-Port PCI Express to SAS/SATA RAID Adapter

Cost-effective RAID 0/1/5/10 controllers with SAS/SATA 3Gb/s drive support for motherboards with a PCI Express Host Bus

Benefits

Cost-effective SAS/SATA Featuring RAID 0/1/5/10/JBOD

The Promise FastTrak SAS/SATA RAID PCI Express adapter offers a cost-effective solution for implementing a RAID 0, RAID 1, RAID 5 or RAID 10 storage system with up to four high-performance SAS or SATA disk drives.

Promise's Proven RAID Engine

The FTTX2650 model delivers fast, efficient, and reliable RAID levels 0/1 and JBOD while the FTTX4650 also includes RAID 5 & 10 using Promise's enterprise proven technology. The flexible FastTrak family allows you to choose the best fit for your application:

- :: RAID 0 - Maximum capacity and performance without any fault tolerance
- :: RAID 1 - Maximum data protection.
- :: RAID 5 - Balance of capacity plus data protection
- :: RAID 10 - Drive redundancy plus capacity and performance

For maximum uptime, the FastTrak line supports features such as transparent data recovery and drive rebuilds performed in the background.

Supports Both SAS and SATA Drives

Promise supports both SAS and SATA drive types, using the latest industry protocols to enhance performance and reliability. Our FastTrak controllers provide a flexible, cost-effective RAID controller board spanning server, workstation and desktop markets.

Advanced Features

The low-profile, form-factor FastTrak PCI Express controller incorporates many of Promise Technology's advanced features. This includes a 64-bit LBA support for logical drives above 2TB with the onboard BIOS automatically identifying and configuring drive types. The Web-based Promise Array Management (WebPAM®) software makes for easy installation, configuration and operation. Promise's Metadata on Disk simplifies disaster recovery efforts by enabling migration to replacement hardware.

Features

- :: SAS/SATA 3Gb/s device ports
- :: RAID 0/1/5/10 and JBOD
- :: PCI Express x1
- :: Offers sustained data transfers up to 250MB/sec
- :: Native Command Queuing
- :: 64-bit LBA support for logical drive above 2TB
- :: Disk Activity LED Headers

SERIAL ATA

Serial Attached SCSI

Designed for Microsoft® Windows® XP

Designed for Microsoft® Windows® Server 2003

Sophisticated Array Management Tools

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

The Leader in Serial RAID

Promise Technology, with over 15 million RAID controllers shipped worldwide, is committed to delivering best-in-class fault tolerant storage products across all market segments. Promise has a comprehensive SAS/SATA storage product line including rack mount RAID enclosures for SAN and DAS applications, PCIe RAID controllers for servers and workstations, NAS systems for SOHO and RAID ASICs for embedded applications.

Specifications		
Model	**FTTX2650**	**FTTX4650**
Disk Array Features		
Device Support	Two SAS/SATA ports for up to two SAS/SATA 3Gb/s devices	Four SAS/SATA ports for up to four SAS/SATA 3Gb/s devices
Supported RAID Levels	0/1/ JBOD	0/1/5/10/JBOD
	RAID 0 – Data striped across 2-4 drives for increased performance RAID 1 – Mirrored pairs of drives for data protection RAID 5 – Striped data + rotate parity RAID 10 – Data mirrored then striped across 4 drives, ultimate data protection and performance (provides a level of double drive failure protection) JBOD – Just a Bunch Of Disks (no protection)	
Data Transfer Rate	Up to 250 MB per second (Performance may vary depending upon drive make, motherboard and PCI Express bus speed) RAID Features - Support hot-swap of failed drives Offers transparent data recovery and rebuilds drive in background Online Capacity Expansion - adds capacity on the fly RAID Level Migration - changes array levels on the fly MetaData on Disk (MDD) for drive roaming	
Easy to Use	Fast initialization Arrays are bootable with built-in BIOS Upgrades your current disk drive to a RAID array by migrating existing data to the array	
System Management		
Management Tools	WebPAM (Web-based Promise Array Management) local and remote monitoring for Windows and Linux — monitors status of arrays, hard drives, and controller via TCP/IP, warns of drive failure, allows rebuilds of mirrored arrays, synchronizes data in fault-tolerant arrays, email notification for array events, S.M.A.R.T.-compatible status reporting	
Notification	Email, audible, and visible alarms	
Operating System Support	Microsoft Windows Vista, 2000, XP, Windows Server 2003 RedHat Linux SuSE Linux Linux kernel 2.6 partial source code Supports AMD64 and Intel EM64T	
Hardware		
SAS 3Gb/s Support	Supports Serial Attached SCSI 1.1, including • SAS 3Gb/s • SSP protocol	
Serial ATA 3Gb/s Support	Supports Serial ATA Revision 2.6, including • Native Command Queuing • Staggered Drive Spin-Up • HDD Activity Indication	
PCI Express Support	PCI Express x1 interface compliant to PCI Express Specification, Rev.1.0a	
HBA Features	Low-profile form factor Flash up-gradable for future updates Supports ACPI (S1, S3, S4)	
Physical and Environmental	Dimension (H x W): 2.70 x 4.43 inches (68.5 x 112.5 mm) Operating temperature: 32 to 122˚F (0 to 50˚C) Relative humidity: 5%-95% non-condensing	
Agency Certifications	UL, cUL, CE, FCC Class B, BSMI, VCCI, MIC, C-tick	
Warranty	Three years complete system limited warranty	

About Promise

Promise Technology, with a track record of over 18 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, rack mount storage systems with FC/SAS/iSCSI and SCSI SAN and DAS storage network connectivity, NAS systems for SOHO and SATA ASICs.
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