

It's All About Your Data

SuperTrak™ TX PCI Express to SAS/SATA RAID Controllers



Delivering high performance storage solution with advanced data-protection, scalability and connectivity.

Advanced Data Protection

The SuperTrak™ TX line offers the flexible configuration with two options, 8 external and 8 internal ports, delivering the enterprise-class data protection features such as global and dedicated hot spares, RAID level migration, synchronization, media patrol, read check table, and bad sector remapping. The controllers are ideal for workstation and entry server markets that demand the highly reliability, stability and data-intensive applications, including tiered storage environments (disk-to-disk or disk-to-disk-to-tape backup), and security surveillance.

Compatibility, Flexibility and Scalability

The high reliability/performance SAS and high capacity/cost-effective SATA drives are supported which is ideal for building tier-storage solution to meet different applications. With the broad qualified SAS/SATA drives, the SuperTrak™ TX line offers the maximum compatibility, allowing you the great flexibility to purchase various drives for setup. Besides, the SuperTrak™ TX line with external connectivity supports JBOD mode for non-disk device, enabling you to daisy chain with SAS JBOD enclosures for maximizing scalability. The cost-effective controllers to creating a massive storage capacity for satisfying the rapid growing data at the electronic age.

Easy Management

The new web-based Promise Array Manager Professional (WebPAM™ PRO) makes SuperTrak™ RAID Controllers easy to manage for both Windows and Linux environments through the browser-based graphical user interface to create, delete, expand, and convert disk arrays from anywhere in the world.

In the event of a drive or data path failure, WebPAM™ PRO supports an array of notification options including text and email, as well as an audio alarm located directly on the SuperTrak™ TX RAID controller.

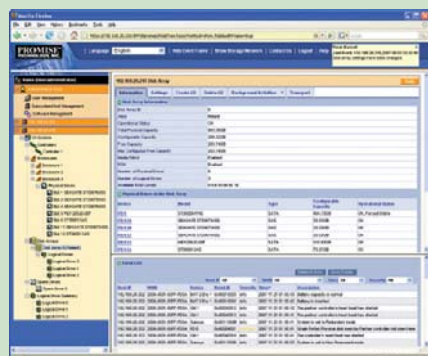


SuperTrak™ TX8658: 8 External Ports
SuperTrak™ TX8650: 8 Internal Ports

- :: Support SAS/SATA 3Gb/s device
- :: Supports SAS tape drive
- :: PCI Express x8
- :: Intel Single Chip Processor
- :: RAID 0/1/10 and JBOD
- :: Supports external connectivity of
 - up to eight SAS JBOD enclosures or
 - up to 116 physical drives
- :: Automatic/manual rebuild of dedicated and global hot spare drive
- :: Online capacity expansion and RAID level migration to add capacity as needed
- :: Multiple logical drive support
- :: SES/SGPIO/Direct LED for enclosure management support
- :: Linux open source driver support
- :: Support logical drive above 2TB



Sophisticated Array Management Tools



Web-based Promise Array Management (WebPAM™ PRO) 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 SuperTrak™ TX family supports industry standard SNMP and CIM/WBEM so third party management application integration is simplified.

About Promise Technology, Inc.

With a long history of innovation, Promise Technology develops and manufactures sophisticated RAID solutions recognized worldwide, ranging from a complete line of RAID controller cards to SAS/SATA RAID subsystems. Catering to enterprise, mid-range and entry-level data protection needs, Promise products are distinguished by their common RAID code, unified management interface and unparalleled support.

Known as the originator of SATA/ATA RAID products, Promise's comprehensive product base includes high available (HA) standalone RAID subsystems with standards-based management interfaces, host-based (internal) RAID controllers, NAS appliances for SOHO, and SATA ASICs integrated into an extensive list of industry-leading motherboards. Headquartered in Milpitas, Calif., Promise has operations throughout Asia and Europe. For more information, visit Promise Technology's website at <http://www.promise.com>.

www.promise.com

SuperTrak™ TX Specifications		
Model	SuperTrak™ TX8658	SuperTrak™ TX8650
Features		
Hardware Features	• Eight external SAS/SATA 3Gb/s ports — Two SFF-8088 connectors • Single chip processor • PCI-Express x8 host bus interface • Low-profile MD2 form factor	• Eight internal SAS/SATA 3Gb/s ports — Two SFF-8087 connectors • Single chip processor • PCI-Express x8 host bus interface • Low-profile MD2 form factor
Supported RAID Levels	• RAID 0 – Data striped across up to 16 drives for increased performance • RAID 1 – Mirrored pairs of drives for data protection • RAID 10 – Data mirrored then striped across 4-16 drives, ultimate data protection and performance (provides a level of double drive failure protection)	
RAID Fault Tolerance and Robustness Features	• Multiple logical drive support enables "combinig" different RAID levels on one set of disks • Read Check table to avoid data read errors • Advanced 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	
Web-based Promise Array Manager	• Creates, deletes, expands, and converts disk arrays remotely • Media Patrol and Redundancy Check scheduling • Monitors drive, array, and enclosure status and provides online event logging • Email notification of drive, array and controller (e.g. error or degrade conditions) • Remote management based on industry standard CIM/WBEM • Interface displays in 10 languages • CLI support	
Operating System Support	• Microsoft Windows Server 2008, 2003, Vista and XP • RedHat Linux • SuSE Linux • Linux Open Source Code • Supports x86 and x64	
Platform Support	• Intel IA32, EM64T and AMD64	
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	• SES-2 • SGPIO • I2C • Direct LED
Cable in Kit	SuperTrak™ TX8658 No Cable in Kit	SuperTrak™ TX8650 TWO SFF8087 TO SFF8482 (FANOUTx4 WITH POWER)
Operating Temperature	0 to 50°C	
Storage Temperature	-40 to 70°C	
Physical Dimensions	12.8 cm x 6.9 cm (5.02" x 2.72")	
Agency Certifications	UL, cUL, CE, FCC Class B, BSMI, VCCI, KCC, C-tick	
Limited Warranty	3 Years	

Please refer to User Manual for detailed information.

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