



HIGHLIGHTS

- > **64-bit version** of StorTrends iTX network storage software
- > **Dual Controller Support:** Auto Failover/Failback in Active/Active or Active/Passive Configurations for outstanding reliability and uptime
- > **Software RAID with RAID-RT™ Technology:** Scalability to 256 TB
- > **Data Archiving:** Data Deduplication and Compression for Archiving Data Remotely
- > **Auto Tiering:** Hierarchical Tiering of Data with Information Lifecycle Management and Zoned Bit Recording (ZBR)
- > **Near-CDP with Data Snapshots:** Advanced Redirect on Write (ROW) Snapshots, with support for 8,048 Snapshots
- > **WDS Technology:** Compression, Encryption, Data deduplication and WAN Optimization for fast replication
- > **Data Replication:** Replicate Data to DR (Disaster Recovery) and Remote Sites
- > **Vertical Capacity Expansion:** Save hardware and disk costs by expansion with up to four StorTrends JBOD Appliances, with multipathing for increased performance and reliability
- > **Virtualization:** Support for leading virtualization suites including VMware®, Microsoft® Hyper-V and Citrix® Xen™
- > **Multi-Platform Replication:** Lower DR costs by replicating between single and dual controller StorTrends storage appliances

StorTrends® iTX 2.8 Network Storage Management Software from AMI is a full-featured storage management suite designed to leverage the power of dual controller SAN appliances for peak performance and reliability. It easily meets the rigorous demands of today's data centers and IT departments and is cost-effective, scalable, and suitable for both novice and advanced users. Featuring real platform-independent High Availability and excellent support for virtualized and clustered application servers, StorTrends is the solution of choice for those who want to get the most out of their storage.

This new, 64-bit version of StorTrends iTX network storage software is designed to be at home in a data center or server room as front-line storage for high-volume transactions or as part of a tiered storage solution. Its auto-failover capability for dual controller appliances ensures that any disaster or interruption is handled smoothly and makes it a solid candidate for mission-critical data that requires "always on" availability and reliability.

[Data Sheet](#)

Customers seeking high performance along with high uptime will find the dual controller StorTrends appliances powered by StorTrends iTX 2.8 network storage software very attractive, as StorTrends iTX 2.8 enables the dual controllers to operate in an active/active configuration to increase I/O throughput. However, like its predecessor, StorTrends iTX 2.7, this latest version of StorTrends iTX keeps many of the aspects that users know and love, including the ManageTrends™ GUI for "single pane of glass" storage management, easy-to-use wizards for simple, fast configuration and a host of all-inclusive, enterprise-class features at no added cost.

Because StorTrends iTX 2.8 features Asynchronous Replication with WDS, it is also ideally suited for Disaster Recovery (DR) applications requiring a secondary appliance in an offsite location, as WDS provides exceptional savings in bandwidth usage and data transfer times. The remote Data Archiving with Deduplication feature adds additional layers of flexibility and functionality to its replication capabilities, and takes it beyond a mere DR role into the realm of true data warehousing.

Dual controller StorTrends appliances running StorTrends iTX 2.8 conserve hardware (i.e. duplication of additional disk) and integration costs and precious rack space while providing outstanding

uptime. From data backup and recovery, remote or local storage, to replication and multiple site backups, StorTrends iTX 2.8 does it all.

With Thin Provisioning and Auto Tiering, the JBOD expansion capability of StorTrends iTX 2.8 can be leveraged to the maximum. The sophisticated Auto Tiering/Information Lifecycle Management (ILM) of StorTrends iTX 2.8 analyzes data for its value, and stores it accordingly - in the fastest, most responsive top-tier storage for the most frequently accessed data, and automatically migrates it down the chain to less expensive, less powerful storage as it loses value. For organizations struggling to contain the cost of adding new storage and exploding volumes of data, Auto Tiering can manage data growth and accessibility, reduce cost, improve recovery, and remove risk and exposure to data loss.

Expandability is also a key attribute of StorTrends iTX 2.8. With the ability to expand up to four StorTrends 3201j JBODs, SAN appliances with StorTrends iTX 2.8 network storage software enable organizations to solve all of their data storage pain points with a single StorTrends appliance. StorTrends® iTX 2.8 provides enterprise-level performance, high availability and disaster recovery at a price that appeals to small and medium-size businesses (SMB).



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StorTrends® iTX 2.8

Dual Controller IP-SAN Network Storage Software

Features

StorTrends® iTX 2.8 Network Storage Software

Advanced Features

- **Dual Controller Support:** Auto Failover/ Failback in Active/Active or Active/Passive Configurations
- **Software RAID with RAID-RT™ Technology:** Scalability to 256 TB
- **Data Archiving:** Data Deduplication and Compression for Archiving Data Remotely
- **Auto Tiering:** Hierarchical Tiering of Data with Information Lifecycle Management and Zoned Bit Recording (ZBR)
- **Near-CDP with Data Snapshots:** Advanced Redirect on Write (ROW) Snapshots, with support for 8,048 Snapshots
- **WDS Technology:** Compression, Encryption, Data deduplication and WAN Optimization for fast replication
- **Data Replication:** Replicate Data to DR (Disaster Recovery) and Remote Sites
- **Vertical Capacity Expansion:** Save hardware and disk costs by expansion with up to four StorTrends 3401j JBOD Appliances, with multipathing for increased performance and reliability
- **Virtualization:** Support for leading virtualization suites including VMware®, Microsoft® Hyper-V and Citrix® Xen™
- **Multi-Platform Replication:** Lower DR costs by replicating between single and dual controller StorTrends storage appliances
- **Multiple Options for NIC Teaming:** Round Robin, Transmit Load Balance and 802.3AD

Backup

VSS-based backup support for Windows® Servers
 Backup agents for popular application servers like Microsoft® Exchange Server and Oracle®
 Snapshot Scheduling
 Intuitive Snapshot Management
 iSCSI Tape Backup Support

iSNS Configuration

Up to 16 iSNS servers are supported
 Compatible with Microsoft® iSNS Server v3.0 and later versions
 iSNS Client Supporting Draft 22 of iSNS Specification
 ACL security implementation supports:

- Local users
- Windows® NT/2000/2003/2008 Domain users
- NIS Domain users

iSCSI Target Configurations
 iSCSI Qualified Name (iqn) format
 Enable/Disable individual network ports for iSCSI traffic
 iSCSI target supporting iSCSI RFC 3720
 iSCSI error recovery level 0, 1 and 2
 Maximum of 8 connections per session
 Maximum of 256 target volumes
 Multiple levels of authentication:
 Mutual CHAP, User Name/Password CHAP Authentication & iSCSI initiator
 WWN Name
 iSCSI Portal Tag Configuration from UI
 View iSCSI data and error statistics

Management

Command Line Interface (CLI) through RS232 & SSH
 "Single pane of glass" ManageTrends™ GUI
 Simple customization and theme updates

Event Management

Detailed Event Log
 Email Alerts
 SNMP Traps (up to 4 destinations)

Remote Management

ManageTrends™ GUI
 CLI (SSH)

Storage Data Management

Auto Tiering - Information Lifecycle Management with Zoned Bit Recording (ZBR)
 Storage Resource Management / Reporting Module
 Journaling Storage Module
 Storage Pool Creation & Management
 LUN (Logical Unit Number) Creation & Management
 LUN Dynamic Volume Expansion
 Unified RAID Management
 Software RAID (5, 50) with RAID-RT™ Robust

RAID Technology

Auto RAID Rebuild

UPS Support

Smart UPS Support

Application Support

Microsoft® Exchange, Oracle®, SQL Server, VMware® ESX Server, Citrix® Xen™, Microsoft® Hyper-V and more

Advanced Features

Dual Controller High Availability with Auto Failover / Failback

StorTrends iTX 2.8 adds support for highly availability in dual controller SAN appliances for "always-up" availability and a robust DR solution.

Remote Data Archiving with Deduplication

The Data Archiving feature in StorTrends iTX 2.8 takes advantage of deduplication on the secondary (replication target) device to add additional layers of flexibility and functionality to its replication capabilities – to takes appliances running StorTrends iTX 2.8 beyond mere Disaster Recovery (DR) into the realm of true data warehousing.

WAN Data Services (WDS)

As part of its Asynchronous Replication module, StorTrends iTX utilizes several techniques to optimize the speed of long distance WAN connections. It uses a mix of transport protocols to overcome the high latencies of TCP protocols in WANs and bandwidth throttling to improve bandwidth utilization. Additional performance gains are made through data reduction technologies such as compression, and data deduplication.

Disaster Recovery (DR) with Snapshot Assisted Replication

AMI's Snapshot Assisted Replication (SAR) technology allows chronological replication of snapshots on a remote machine, with the ability to organize by application-based consistency groups. In failover to a secondary appliance, StorTrends iTX will automatically rollback to the latest consistent snapshot. StorTrends iTX 2.8 features up to 9 levels of snapshot compression for better link bandwidth utilization, and encryption of snapshots for increased data security.



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