



The StorTrends® 3200i is an affordable 3U, rack-mount storage appliance that offers support for both block and file data. It merges Ethernet-based Storage Area Networks (IP-SAN) and Network Attached Storage (NAS) on a single storage platform.

The StorTrends 3200i supports iSCSI, enabling block applications like Microsoft® Exchange and Oracle® to be deployed or stored on the same server as traditional file services and storage. The StorTrends 3200i is designed with performance in mind, and includes features for enterprise-level storage management such as hardware RAID, advanced snapshots, volume replication, and failover.

HIGHLIGHTS

- > 4, 8 or 16 TB IP-SAN & NAS storage appliance
- > 16 Hot-swappable SAS/SATA Drives
- > Information Lifecycle Management
- > Thin Provisioning
- > WDS (WAN-optimization Data Service)
- > Continuous Data Protection (CDP)
- > Volume Replication
 - Synchronous
 - Asynchronous
 - Snapshot-assisted
 - Journal-assisted
- > Advanced Snapshot
 - Redirect on Write (ROW)
 - Up to 1024 snapshots (R/O and R/W) per volume
 - Up to 2048 snapshots per box
 - Snapshot scheduling for SAN & NAS
 - Rollback from any snapshot
 - Random snapshot deletion
- > Hardware RAID support: RAID levels 0, 1, 5, 6, 10, 10+N, 50, 60
- > Online capacity expansion, RAID level migration
- > High Availability (HA) Grouping
 - Load Balancing
 - Active / Active Configuration
- > Universal UPS Support
- > Network Teaming
- > Encryption

Data Sheet

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StorTrends® products provide true enterprise-level features to departmental and small- to mid-size business (SMB) users. They merge IP-SAN and NAS functionality into one cost-effective, scalable, and easily deployable storage appliance.

The StorTrends 3200i offers sixteen hot-swappable drive bays with advanced SATA and SAS support, as well as highly distinguishing software features.

Dual-dialect StorTrends® iTX 2.7 software enables transfer of both block and file data over the existing Ethernet network. It provides advanced disaster recovery features such as synchronous, asynchronous, and snap-assisted replication, fail-over, and fail-back. StorTrends iTX also features high-availability grouping, network teaming support, UPS support, advanced snapshots, SAN and NAS snapshot scheduling, disk and tape backup support, and advanced caching for IP-SAN appliances.

Volume replication allows data to be stored on multiple StorTrends appliances at multiple sites, for high availability and disaster recovery in the event of a catastrophe.

StorTrends' Advanced Snapshot capability features Redirect-on-Write (ROW) technology with near-zero degradation when writing or rolling back snapshots. Administrators can schedule up to 1,024 read-write and 1,024 read-only snapshots per volume, and up to 2,048 snapshots per box. A maximum of 64 volumes per appliance is supported.

SAN snapshots are supported through Microsoft® VSS snapshot technology, or by specific agents for application servers such as Exchange Server and Oracle. Microsoft® VSS-based snapshots also support SQL Server and agent-less LAN-free backup.

Advanced caching improves read and write-back performance, and allows for efficient I/O scheduling, while I/O aggregation significantly improves snapshot performance.

StorTrends appliances can be managed by the integrated web-based GUI or with ManageTrends™, which provides discovery and management of multiple StorTrends appliances deployed across the network.



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StorTrends® 3200i

3U IP-SAN and NAS Storage Appliance

Features

16 TB IP-SAN & NAS 3U Storage Appliance Dual Dialect Software StorTrends iTX 2.7

- Transfer block and file data over Ethernet network
- Sturdy 3U rack mountable chassis
- Redundant Power Supply Modules
- Supports major file transfer protocols
- Information Lifecycle Management (ILM)
- Continuous Data Protection (CDP)
- WAN-optimization Data Service (WDS)
- Network Teaming
- Advanced Snapshot Capability
- Volume Replication and Expansion
- High Availability (HA) Grouping
- Storage Alerts
- Support for volumes up to 112 TB
- Support for 64 volumes per appliance
- SATA / SAS support with hot swap
- Hardware RAID Controllers
- UPS support
- ADS/NIS support

Hardware Specifications:

Form Factor

3U Chassis with 800W Redundant Power Supply
One (1) Slim DVD-ROM Drive

On-Board CPU

Two (2) Dual-Core Intel® Xeon® Processor 5000 series
with 1066 MHz FSB, 2 GB RAM

Host Interface

Expandable Dual Port Gigabit Ethernet Controller
Eight (8) Port Dual Channel SAS Controller

Drive Interface

Sixteen (16) 3.5" Hot-swappable SAS / SATA Drive Bays

Drive & Storage Capacity

250 GB, 500 GB or 1TB per drive
4 TB, 8 TB or 16 TB per Appliance

Hardware RAID Support

RAID levels 0, 1, 5, 6, 10, 10+N, 50, 60
Online capacity expansion & RAID level migration
Multiple array types per drive
Distributed sparing
Read with Write-back caching
Global dedicated and distributed hot-spare

Status LEDs

6 LED Indicators (Power, Network / HD Activity, Power
Fail, System Overheat)

Expansion Slots

- Six (6) Full-height, Full-length Expansion Slots
- Two (2) PCI-Express x 8
 - One (1) PCI-Express x 4
 - Two (2) PCI-X 133MHz
 - One (1) PCI-X 100MHz

Data Management Ports

Two (2) Gigabit Ethernet Data Ports (expandable)

Other Connectors

Two (2) USB Ports (2.0, 1.1)

Power Specifications

Two (2) Redundant, Hot-swappable 800W AC Power
Supply Modules with PFC
AC Voltage (100 - 240V, 50-60Hz, 10A - 4 Amp)

Cooling Specifications

Three (3) 8cm Hot-swappable Fans
Two (2) 8cm Rear-exhaust Fans

Operating Environment

Operating Temperature: 50 to 95°F (10° to 35° C)
Operating Relative Humidity: 8% to 90% (non-cond.)

Physical Characteristics

Dimensions: 5.2" (132 mm) H x 17.2" (437 mm) W x
25.5" (648 mm) D
Weight: 96 lbs. (43.5 kg)

Volume Replication

- Synchronous
- Asynchronous
- Snapshot-assisted
- Journal-assisted
- Replication Wizard
- Failover / Failback
- One to Many Replication

Advanced Snapshots

Up to 1,024 read-only, 1,024 writeable, 2,048
snapshots per box with near-zero degradation
Redirect (allocate) on Write (ROW)
Random snapshot deletion
Rollback to any snapshot
Mounting snapshots as Read-Only or Read-Write
Caching-assisted snapshots

Backup

VSS-based backup support for Windows® 2003 Servers
Backup agents for popular application servers
iSCSI tape support

Networking

TCP/IP, FTP, HTTP, HTTPS, SNMP
Windows® (CIFS), UNIX (NFS), AppleTalk®

iSNS Configuration

Up to 16 iSNS servers are supported
Compatible with MS iSNS Server v3.0 and later
iSNS client supporting Draft 22 of iSNS specification

Security

ACL security implementation supports: Local users,
Windows® NT/2000 Domain users, Windows® 2003
Active Directory 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
Tight iSCSI and iSNS integration
iSCSI error recovery level 0, 1 and 2
Maximum of 4 connections per session
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 through RS232 & SSH
Integrated web-based management
Tool for easy customization, branding and theme
updates

Event Management

Detailed Event Log
SNMP, SNMP Traps (up to 4 destinations)
SMIS 1.1, VDS

Storage Data Management

Information Lifecycle Management (ILM)
Storage Resource Management / Storage Reports
LUN (Logical Unit Number) creation &
management
LUN dynamic volume expansion
Dynamic NAS volume expansion
Unified RAID Management
RAID levels 0, 1, 5, 6, 10, 10+ N, 50, 60
Hardware RAID controllers
Auto RAID rebuild

Remote Management

SNMP, SMIS 1.1, VDS

UPS Support

Universal UPS Support; Supports Windows® OS/iTX/
Linux as UPS slaves and many UPS makes & models

Applications Supported

Oracle®, SQL, Microsoft® Exchange, VMware®, etc.

Advanced Features

Advanced Snapshot Technology

AMI's Advanced Snapshot technology
enables up to 2,048 snapshots (R/O and
R/W) in total at the block or file level. It also
allows for rapid creation and deletion of a
snapshot, permitting faster, more secure
back-ups than ever before. Advanced Snap-
shot technology is focused on performance,
enabling customers to mount, review and
instantaneously roll back to a snapshot with
near-zero degradation of data.

Snapshot-assisted Replication

This technology allows chronological rep-
lication of snapshots on a remote machine,
with the ability to organize by applica-
tion-based consistency groups. In fail-over to
a secondary appliance, StorTrends iTX will
automatically rollback to the latest consis-
tent snapshot. iTX 2.7 features up to 9 levels
of snapshot compression for better link
bandwidth utilization, and encryption of
snapshots for increased data security.

Journal-assisted Replication

The JAR module is essentially an applica-
tion layer that registers with the Journal
Module as a client, and replicates data to the
recovery site according to an administrator-
defined schedule. Data is sent to the remote
site with metadata information, so that the
recovery server can also maintain its own
CDP log and/or create snapshots.

Advanced Caching Technology

Advanced Caching, a unique technology
created by AMI, utilizes sector granularity
technology based on an AMI proprietary
mechanism, resulting in outstanding perfor-
mance gains. Advanced Caching technology
assists in snapshot read-modify-writes and in
replication.



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