

StorTrends® 1300i

1U IP-SAN and NAS Storage Appliance



The StorTrends® 1300i is an affordable 1U, 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 1300i 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 1300i is designed with performance in mind, and includes features for enterprise-level storage management such as advanced snapshots, synchronous and asynchronous volume replication, and failover in a high availability configuration.

HIGHLIGHTS

- > 1.0, 2.0, 3.0 or 4.0 TB IP-SAN & NAS storage appliance
- > 4 Hot-swappable SATA Drives
- > Enhanced Reliability with Redundant 450W Power Supply and Smart UPS Support
- > Volume Replication
 - Synchronous
 - Asynchronous
 - *Snapshot-assisted*
 - *WAN-Optimization Data Services (WDS) featuring Deduplication, Encryption, and Link Acceleration*
- > Advanced Snapshot
 - Redirect on Write (ROW)
 - Up to 1022 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
- > Software RAID support: RAID levels 0, 1, 5
- > Online capacity expansion, RAID level migration
- > High Availability (HA) Grouping
 - Load Balancing
 - Active / Active Configuration
- > Network Teaming

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 1300i offers four hot-swappable drive bays with advanced SATA support, as well as highly distinguishing software features. Dual-dialect StorTrends® iTX software enables transfer of both block and file data over the existing Ethernet network, along with a host of advanced features that until now only existed in systems costing many times more than the StorTrends 1300i.

The Volume replication feature of the StorTrends 1300i 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 1,022 read-write and 1,022 read-only snapshots per

volume, and up to 2,048 snapshots per box. A maximum of 64 volumes per appliance is supported.

Asynchronous replication bundles I/Os and sends them to the remote server, boosting network utilization efficiency and reducing bandwidth cost. When combined with the revolutionary WDS feature included in the asynchronous replication module, the system take advantage of a "triple-threat" of data deduplication, data encryption and link optimization to reduce data transmission and bandwidth usage by several factors over conventional replication speeds.

For improved reliability and disaster prevention, the StorTrends 1300i features a redundant 450W power supply, as well as Smart UPS support, which allows the appliance to seamlessly switch over to UPS power in the event of a power failure and initiate a graceful shutdown.

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



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1U IP-SAN and NAS Storage Appliance

Features

4 TB IP-SAN & NAS 1U Storage Appliance with StorTrends® iTX Data Storage Software

System Features & Highlights:

- Transfer block and file data over existing Ethernet network
- Sturdy 1U rack mountable chassis
- Redundant Power Supply Modules
- Supports major file transfer protocols
- WAN-optimization Data Service (WDS)
- Network Teaming
- Advanced Snapshot Capability
- Volume Replication and Expansion
- High Availability (HA) Grouping
- Storage Alerts
- Support for 64 volumes per appliance
- SATA support with hot swap
- UPS Support
- ADS/NIS Support

Hardware Specifications:

Form Factor

1U Chassis with 450W Redundant Power Supply
One (1) Slim DVD-ROM Drive

On-Board CPU

One (1) Intel® Core 2 Duo Processor E6400 (2.13GHz)

Memory

2 GB of DDR2 SDRAM

Drive Interface

Drive & Storage Capacity

Four (4) 3.5" Hot-swappable SATA Drive Bays
250 GB, 500 GB, 750 GB or 1.0 TB capacity hard drives are supported, for 1.0 TB, 2.0 TB, 3.0 TB or 4.0 TB physical storage capacity per appliance

Status LEDs

6 LED Indicators (Power, Network Activity (x2), HDD Activity, System Overheat, UID)

Expansion Slots

Three PCI-Express Expansion Slots:

- Two (x8) PCI-Express Slots (via Riser Card)
- One (x4) PCI-Express Slot (via Riser Card)

Data Management Ports

2x Single-port Gigabit PCI-Express Ethernet Controller

Other Connectors

Two (2) USB Ports (2.0, 1.1)

Power Specifications

450W (1+1) Redundant, AC Power Supply with PFC
AC Voltage (100 - 240V, 60-50Hz, 6.3 - 3.2 Amp)

Cooling Specifications

Three (3) Cooling Fans with status & tachometer monitoring

Cooling Air Shroud included

Operating Environment

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

Physical Characteristics

Dimensions: 1.7" (43 mm) H x 17.2" (437 mm) W x 25.6" (650 mm) D
Weight: 45 lbs. (20.4 kg)

StorTrends® iTX Software Specifications:

Volume Replication

- Synchronous
- Asynchronous
 - Snapshot-assisted
 - WAN-Optimization Data Services (WDS) featuring Deduplication, Encryption, and Link Acceleration
- Replication Wizard
- Failover / Failback
- One-to-Many / Many-to-One Replication

Advanced Snapshots

Up to 1,022 read-only and 1,022 writeable snapshots per volume with near-zero degradation
Redirect on Write (ROW) Snapshot Technology
Random Snapshot Deletion
Rollback to any snapshot
Mounting of snapshots as Read-Only or Read-Write

Backup

VSS-based backup support for Windows® 2003 Servers
iSCSI tape support through application server

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
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 themes

Event Management

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

Storage Data Management

Storage Resource Management / Storage Reports
LUN (Logical Unit Number) creation & management
LUN dynamic volume expansion
Dynamic NAS volume expansion
Unified RAID Management
Software RAID levels 0, 1, 5
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) 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 Snapshot 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 replication of snapshots on a remote machine, with the ability to organize by application-based consistency groups. In fail-over to a secondary appliance, StorTrends iTX will automatically rollback to the latest consistent snapshot.

WAN Optimization Data Services (WDS)

StorTrends utilizes several sophisticated techniques to optimize the speed of long distance WAN connections. It uses an intelligent mix of standards-based transport protocols to overcome the inefficiencies and high latencies of TCP protocols in WANs and provide excellent bandwidth utilization. Additional performance gains are made through data reduction technologies such as compression and data deduplication.

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