

StorTrends® 2401i

2U SAN and NAS Storage Appliance



Highlights

- 2U SAN & NAS storage appliance with StorTrends iTX Data Storage Software
- 12 Hot-swappable drives for a variety of configurations:
- 6, 12, 24, 36 or 48 TB of raw storage capacity with SATA drives
- 3.6, 5.4 or 7.2 TB of raw storage capacity with 15k SAS drives
- Advanced Snapshots
- Redirect on Write (ROW) technology
- Up to 1022 snapshots (R/O and R/W) per volume
- Up to 2048 snapshots per unit
- Snapshot scheduling for SAN & NAS
- Rollback from any snapshot
- Random snapshot deletion
- Volume Replication
- Synchronous
- Asynchronous
- Snapshot-assisted
- WAN-Optimization Data Services
- (WDS) featuring Deduplication, Compression, Encryption, and Link Acceleration
- Hardware RAID support: RAID levels 1,5, 6, 10, 50, 60
- High Availability (HA) Grouping
- Network Teaming
- Storage Resource Management (SRM) with detailed reporting on usage and performance
- Enhanced Reliability with 800W Redundant Power Supply and Smart UPS Support

The StorTrends 2401i is a 2U SAN and NAS Storage Solution featuring SAS or SATA Drives for up to 48 TB of physical storage capacity and includes the full featured version of iTX 2.7 Data Storage Software. This appliance manages both block and file data with the capacity to support departments, branch offices, and small to medium sized business (SMB) users. Ideal for either primary or secondary storage, it offers superior manageability at an attractive price. The 2401i is designed with performance in mind, and includes advanced storage management features such as OS-agnostic High Availability, Automated Data Tiering, Advanced Snapshots, Synchronous and Asynchronous Replication. The Volume Replication features of the 2401i allow data to be stored on multiple StorTrends appliances at multiple sites, and takes advantage of the Wide Area Data Services (WDS) module to dramatically reduce data transfer times and bandwidth use to remote sites. For additional storage capacity, up to four StorTrends 3202j JBOD expansion chassis can be cascaded from the StorTrends 2401i head.

StorTrends® products provide true enterprise-level features to departmental and SMB users. The StorTrends 2401i offers twelve 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 2401i.

The Volume replication feature of the StorTrends 2401i 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 performance 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

within snapshots and sends them to the remote server, boosting network utilization efficiency and reducing bandwidth cost. When combined with the revolutionary WAN Data Services (WDS) feature included in the Asynchronous Replication module, the system employs data deduplication, compression 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 2401i features a redundant 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.

SAN 2U Storage Appliance with StorTrends® iTX Data Storage Software

System Features & Highlights:

Transfer block and file data over existing Ethernet network
2U rack mountable chassis
Redundant Power Supply Modules
Supports major file transfer protocols
WAN-optimization Data Service (WDS)
Network Teaming
Advanced Snapshot Capability
Volume Replication
Online Capacity Expansion (OCE)
RAID Level Migration (RLM)
High Availability (HA) Grouping
Storage Alerts
Support for 64 volumes per appliance
Hot Swappable Drives
UPS Support
ADS/NIS Support

Hardware Specifications:

Form Factor

2U Chassis with 800W Redundant Power Supply

On-Board CPU

Intel® Core 2 Duo Processor E6400 (2.13GHz)

Memory

4 GB of DDR3

Drive Interface

Drive & Storage Capacity

Twelve 3.5" Hot-swappable SATA and SAS Drives
500 GB, 1 TB, 2 TB 3 and 4TB TB SATA drives for 6 TB,
12 TB, 24 TB, 36 TB 48 TB total capacity
300 GB, 450 GB, 600 GB 15k SAS drives for 3.6 TB, 5.4
TB and 7.2 TB total capacity per appliance

Status LEDs

6 LED Indicators (Power, Power Failure, Overheat/Fan
Failure, Network Activity (x2), HDD Activity)
Hard Drive LED Indicators: Green (for drive activity),
Red (for drive failure)

Expansion Slots

Two PCI-Express Expansion Slots

Data Management Ports

4x Gigabit NIC Ports

Optional Dual Port 10Gb Ethernet Ports

Other Connectors

Two USB Ports (2.0, 1.1)

Power Specifications

800W (1+1) Redundant, AC Power Supply with PFC
AC Voltage (100 - 240V, 60-50Hz, 6.3 - 3.2 Amp)

Cooling Specifications

Three 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: 3.5" (89 mm) H x 17.2" (437 mm) W x
25.5"
(648 mm) D
Weight: 52 lbs. (23.6 kg)

StorTrends® iTX Software Specifications:

Volume Replication

Synchronous

Asynchronous

Snapshot-assisted

WAN Data Services (WDS) featuring

Deduplication, Compression, Encryption, and

WAN Optimization

Many-to-One Replication

Bi-directional Replication

Advanced Snapshots

Up to 1,022 read-only and 1,022 writeable snapshots
per volume with near-zero performance degradation
Redirect on Write (ROW) Snapshot Technology
Random Snapshot Deletion.

Rollback to any snapshot

Snapshot mounting for file recovery

Backup

VSS-based backup support for Windows® Servers

Backup agents for popular application servers like

Microsoft Exchange Server and Oracle

iSCSI tape backup support

SQL single line recovery

Exchange single mailbox recovery

Networking

Windows® (CIFS), Linux (NFS), Apple® file file

protocols, iSCSI

TCP/IP, AppleTalk®, FTP, HTTP/HTTPS, SNMP, DHCP,

NDMP, UPnP

NIC teaming – Round Robin, Transmit Load

Balancing, Adaptive Load Balancing and 802.3AD

link aggregation

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® Domain users, Windows® 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

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 and themes

Event Management

Detailed Event Log

SNMP, SNMP Traps (up to 4 destinations), Email Alerts

Storage Data Management

Live Capacity Expansion

Storage Resource Management / Storage Reports

LUN (Logical Unit Number) creation & management

LUN dynamic volume expansion

Dynamic NAS volume expansion

Unified RAID Management

Hardware RAID levels 1, 5, 6, 10, 50, 60

RAID Level Migration (RLM)

Auto RAID rebuild

Remote Management

CLI (SSH)

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 level. It also allows for rapid creation and deletion of a snapshot, permitting faster, more secure back-ups than Advanced Snapshot technology is focused on performance, enabling customers to mount, review and instantaneously roll back to a snapshot with near-zero performance degradation

Snapshot-assisted Replication

This technology allows chronological replication of snapshots to a remote StorTrends 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, data deduplication and bandwidth throttling.



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