

StorTrends® 2400i

2U IP-SAN Storage Appliance



Highlights

- 2U IP-SAN & NAS storage appliance with StorTrends iTX Data Storage Software
- 12 Hot-swappable SATA Drives for a variety of capacity configurations:
- 6, 12, 24 or 36 TB of raw storage capacity with SATA drives
- 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
- Volume Replication
- Synchronous
- Asynchronous
- Snapshot-assisted
- WAN-Optimization Data Services (WDS) featuring Deduplication, Encryption, and Link Acceleration
- Software RAID support: RAID levels 1, 5
- 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® 2400i is an affordable 2U, 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 2400i 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. This system 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.

StorTrends block application true enterprise-level features to departmental and SMB users. The StorTrends 2400i offers twelve hot-swappable drive bays with advanced SATA support, as well as highly distinguishing software features. Dual-dialect StorTrends®tiTX 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 2400i.

The Volume replication feature of the StorTrends 2400i 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 2400i 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.

12 TB IP-SAN 2U Storage Appliance with StorTrends® iTX Data Storage Software

System Features & Highlights:

Transfer block and file data over existing Ethernet network

Sturdy 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

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

2U Chassis with 800W Redundant Power Supply

On-Board CPU

Intel® Core 2 Duo Processor E6400 (2.13GHz)

Memory

4 GB of DDR2 SDRAM

Drive Interface

Drive & Storage Capacity

Twelve 3.5" Hot-swappable SATA Drive Bays

1 TB, 2 TB or 3 TB capacity hard drives are

supported, for 6 TB, 12 TB, 24 TB and 36 TB

physical storage 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 Single-port Gigabit PCI-Express Ethernet

Controller

Dual-port 10 GB PCI-Express Ethernet Controller

Option

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, Encryption, and Link Acceleration

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

performance degradation

Redirect on Write (ROW) Snapshot Technology

Random Snapshot Deletion

Snapshot mounting for file recovery

Snapshot Scheduling

Instantaneous rollback to any snapshot

Backup

VSS-based backup support for Windows® Servers

iSCSI Tape Backup Support SQL single line

recovery

Exchange single mailbox recovery

Networking

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

protocols

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® NT/2000 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

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 1, 5

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 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

performance degradation.

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,

data deduplication and bandwidth

throttling.



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