



# StorTrends® 2500i

## 2U IP-SAN Storage Appliance

### Highlights

- 2U IP-SAN & NAS storage appliance with StorTrends iTX 6.0 Data Storage Software
- 12 Hot-swappable SATA Drives for a variety of capacity configurations.
- Enterprise SATA drives from 2TB to 20TB capacity each.
- Advanced Snapshot
- Redirect on Write (ROW)
- Up to 1022 snapshots (R/O and R/W) per volume
- Up to 16384 snapshots per box (R/O & R/W)
- Snapshot scheduling for SAN & NAS
- Rollback from any snapshot
- Random snapshot deletion
- Volume Replication
- Asynchronous
- Snapshot-assisted
- WAN-Optimization Data Services (WDS) featuring Deduplication, Encryption, and Link Acceleration
- Software RAID support: RAID levels 5, 6, 50, 60 & 10
- Network Teaming
- Storage Resource Management (SRM) with detailed reporting on usage and performance
- Enhanced Reliability with 500W Redundant Power Supply and Smart UPS Support

The StorTrends® 2500i 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 2500i 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, Volume Replication, Failover, WAN optimization and much more.

StorTrends block application true enterprise-level features to departmental and SMB users. The StorTrends 2500i 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 2500i.

The Volume replication feature of the StorTrends 2500i 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 16,384 snapshots per box. A maximum of 256 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 2500i 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.

## **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  
Storage Alerts  
Support for 256 volumes per appliance  
Enterprise SATA HDD support with hot swap  
UPS Support  
ADS/NIS Support

### **Hardware Specifications:**

#### **Form Factor**

2U Chassis with 500W Redundant Power Supply

#### **On-Board CPU**

Intel Xeon CPU E5-2603 v4 @ 1.70GHz Processor

#### **Memory**

16GB RAM

#### **Drive Interface**

#### **Drive & Storage Capacity**

Twelve 3.5" Hot-swappable SATA Drive Bays  
Enterprise SATA drives from 2TB to 20TB capacity each to support up to 256TB raw physical storage capacity per appliance.

#### **Status LEDs**

6 LED Indicators (Power, Unit Identification (UID), 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

Optional Dual-port 10 G Ethernet (SFP+ or Copper)

#### **Other Connectors**

4x USB 3.0 Ports

#### **Power Specifications**

500W Redundant Power Supply

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: 5°C - 35°C (41°F - 95°F)

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" (647 mm) D

Weight: 52 lbs. (23.6 kg)

### **StorTrends® iTX Software Specifications:**

#### **Volume Replication**

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) and Linux (NFS) file protocols

TCP/IP, FTP, HTTP, 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,

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

Software RAID levels 5, 6, 50, 60 & 10

#### **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**

AmZetta's Advanced Snapshot technology enables up to 16,384 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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