



# 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:
  - 24, 48, 72, 96, 120 or 144 TB of raw storage capacity with Enterprise SATA drives
- 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 E5-2609 v4 @ 1.70GHz Processor

#### **Memory**

16GB RAM

#### **Drive Interface**

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

Twelve 3.5" Hot-swappable SATA Drive Bays  
2TB, 4TB, 6TB, 8TB, 10TB or 12TB capacity hard drives are supported, for 24TB, 48TB, 72TB, 96TB, 120TB and 144TB  
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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