



# StorTrends® 4700i

Dual Controller SSD Hybrid Storage Appliance

## Highlights

- 4U SAN Storage Appliance
- 24 Hot-swappable NL-SAS Drives and choice of JBODs for a variety of capacity configurations
- Hybrid Array: Up to 1PB of Raw Capacity
- Dual Controller Configuration
- RAID 1 & 5 available
- Auto Tiering
- Advanced Snapshots
- Data Replication
- WDS Technology: Compression, Encryption, Data Deduplication and WAN Optimization
- Vertical Capacity Expansion
- VMware®, Microsoft® Hyper-V and Citrix® Xen™ Compatible
- Multi-Platform Replication

The StorTrends 4700i is a 4U rack mountable Dual Controller IP-SAN Storage solution with 24 hot-swappable hard drives. It provides up to 1PB of raw storage capacity with the addition of StorTrends 3U-16 bay JBODs. The StorTrends 4700i features the latest 64-bit version of StorTrends iTX Data Storage Software – StorTrends iTX 5.0 – which is optimized for this platform and designed to leverage the power and reliability of its dual controller design in a Hybrid architecture.

This highly reliable storage appliance comes at an outstanding price, to provide true enterprise-class performance in an SMB-friendly package. It can be deployed in existing Ethernet networks and has the capacity to support the entire data storage needs of corporations & institutions. The auto-failover capability of its two controllers ensures that any disaster or interruption is handled smoothly, making the StorTrends 4700i a solid candidate for mission-critical data that requires “always on” availability and reliability.

The StorTrends 4700i is available in high capacity configurations with SSD cache support. This innovation marks a tremendous step in the storage market for the company who has built its solid reputation around BIOS, Remote Management, RAID and now SSD based storage appliances.

The StorTrends 4700i can provide outstanding Disaster Recovery from physical and network catastrophes with 8,048 read only/writeable snapshots, thanks to the 64-bit architecture of StorTrends iTX5.0. StorTrends iTX5.0 also features SMART awareness which provide preemptive alert notifications on drive failure so necessary precautions can be taken.

One of the most powerful features of the StorTrends 4700i is its Advanced Snapshot capability with Redirect on Write (ROW) technology. Administrators can schedule snapshots and rollback to any snapshot in under a second. Snapshot-assisted replication (SAR) replicates delta snapshots from the primary system in chronological order to the secondary. In the event of a failover, the system will recover to the latest available consistent snapshot image.

Because the StorTrends 4700i features Asynchronous Replication with WDS, it is also ideally suited for Disaster Recovery (DR) applications requiring a secondary appliance in an offsite location, as WDS provides exceptional savings in bandwidth usage and data transfer times.

The sophisticated Auto Tiering/Information Lifecycle Management (ILM) of StorTrends iTX analyzes data for its value, and stores it accordingly - in the fastest, most responsive top-tier storage for the most popular data, and automatically migrates it down the chain to less expensive, less powerful storage as it loses value. For organizations struggling to contain the cost of adding new storage and exploding volumes of data, ILM can manage data growth and accessibility, reduce cost, improve recovery, and remove risk and exposure to data loss.

Finally, integrated web-based management with AmZetta's ManageTrends™ interface provides a simple configuration wizard to configure volumes and logical disks, and control the discovery and management of multiple StorTrends appliances.

## StorTrends iTX 5.0 Data Storage Software

### Volume Replication

- Asynchronous
  - Snap Assisted Replication (SAR)
  - WAN Data Services (WDS): Deduplication, Compression, Encryption and Link Optimization

### Advanced Snapshots

- Up to 8,048 read-only & writeable snapshots per appliance with near-zero performance degradation
- Redirect on Write (ROW) Snapshot Technology
- Snapshot Scheduling
- Instantaneous 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®

### Storage Appliance Management

- Command line interface through RS232 & SSH
- "Single pane of glass" ManageTrends™ web GUI
- Simple customization and theme updates

### Event Management

- Detailed Event Log
- Email Alerts
- SNMP, SNMP Traps (up to 4 destinations)

### Storage Data Management

- Auto Tiering / ILM - Intelligent Data Migration across heterogeneous drive tiers.
- Zoned Bit Recording (ZBR) for smart data placement within the same tier
- Storage Resource Management / Storage Reports
- Storage Pool Creation and Management
- LUN (Logical Unit Number) Creation and Management
- LUN Dynamic Volume Expansion
- Software RAID (1 & 5) with RAID-RT™ Technology
- Auto RAID Rebuild

### Applications Supported

- Oracle®, SQL Server, Microsoft® Exchange, all major virtualization suites such as VMware®, Microsoft® Hyper-V, Citrix® Xen™ and more.

### SMART Monitor

- Monitors SMART events with continuous recording and analysis
- Periodic SMART checks with short and long DSTs
- Graphical display of vital disk information
- UPS Support

### Smart UPS Support

- Supports Windows® OS/iTX/Linux as UPS slaves and many UPS makes & models

## Advanced Features

### Auto Tiering / ILM

The sophisticated Auto Tiering/ Information Lifecycle Management (ILM) of StorTrends iTX analyzes data for its value, and stores it accordingly - in the fastest, most responsive top-tier storage for the most popular data, and automatically migrates it down the chain to less expensive, less powerful storage as it loses value. For organizations struggling to contain the cost of adding new storage and exploding volumes of data, ILM can manage data growth and accessibility, reduce cost, improve recovery, and remove risk and exposure to data loss.

### Snapshot Assisted Replication (SAR)

AmZetta's SAR technology allows chronological replication of snapshots on a remote appliance, with the ability to organize by applicationbased consistency groups. In failover to a secondary appliance, StorTrends iTX will automatically rollback to the latest consistent snapshot.

### WAN Optimization Data Services(WDS)

As part of its Asynchronous Replication module, StorTrends iTX utilizes data deduplication, compression and link optimization to maximize the speed of long distance WAN connections. It overcomes the inefficiencies and high latencies of TCP protocols in WANs to boost remote replication performance. StorTrends iTX5.0 features up to 9 layers of snapshot compression for improved bandwidth utilization and encryption of snapshots for increased data security.

Software Features	
iSCSI Support	Yes
Advanced Snapshot Module	Yes
Maximum Number of Snapshots	8,048 per appliance (read-only/writeable)
Asynchronous Replication	Yes (Snapshot Assisted)
WAN Data Services (WDS)	Yes
Active/Active and Active/Passive High Availability (HA) between controllers	Yes
Thin Provisioning	Yes
Auto Tiering/Information Lifecycle Management	Yes
Capacity Expansion with StorTrends 3U JBOD	Yes
RAID Support	Robust RAID-RT™ with RAID 1 & 5
Tier Residency Support	Yes

Hardware Features	
Hardware	StorTrends 4700i Dual Controller SAN
Form Factor	4U, 24 bay
Weight	104 lbs (47 kg)
Dimensions	17.2" x 6.8" x 27.7" (437 mm x 174.5 mm x 705 mm)
Power Supply Redundant	Yes
Power Supply Hot-Swappable	Yes
Hard Drive Bays	24
Hard Drive Interface	NL-SAS, Solid State Drive (Flash)
Hot Swappable Hard Drives	Yes
Drive Configuration Options	Drive Configuration Options Available in Hybrid Configurations
Number of Processors	Four (4) 2nd Generation Intel® Xeon® Scalable processors with two (2) processors per controller
Memory	Memory 192 GB (96 GB per controller)



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