



The StorTrends® 1300n is an affordable 1U, rack-mount storage appliance that offers support for both block and file data. It provides a reliable way to manage and store valuable business data without complexity. Easy to install, the StorTrends 1300n enables an administrator to coordinate all functions related to the discovery, management, tracking and planning for future storage growth.

HIGHLIGHTS

- > 1.0, 2.0 or 4.0 TB NAS storage appliance
- > 4 Hot-swappable SATA Drives
- > Enhanced Reliability with Redundant 450W Power Supply and Smart UPS Support
- > Volume Replication
 - Asynchronous (Snapshot-assisted)
 - WAN-Optimization Data Services (WDS) featuring Deduplication, Encryption, and Link Acceleration
- > Advanced Snapshot
 - Redirect on Write (ROW)
 - Up to 1,022 Snapshots (R/O and R/W) per volume
 - Up to 2,048 Snapshots per box
 - Rollback from any snapshot
 - Random snapshot deletion
- > Network Teaming
- > Failover / Failback
- > Uses existing Ethernet infrastructure
- > Software RAID 0, 1, and 5 support
- > Supports major file transfer protocols

Data Sheet

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AMI's StorTrends® 1300n NAS appliance is an ideal alternative to traditional Direct Attached Storage (DAS) environments. The StorTrends NAS appliances make it simple to centralize file data storage from Windows, UNIX, Linux, and Mac clients across an existing Ethernet network.

The StorTrends 1300n offers maximum data protection with RAID5 and network connectivity for major operating systems, perfect for workgroups or departments that are experiencing rapid data growth.

Administrators can save time and money by deploying StorTrends 1300n NAS appliances instead of inflexible DAS units. Adding capacity in a DAS environment means adding a server, which requires downtime; adding capacity with AMI's StorTrends 1300n means no interruptions, with improved disk utilization when compared to DAS.

Asynchronous replication bundles I/Os and sends them to the remote server, boosting network utilization efficiency and reducing bandwidth cost. When combined with the revolutionary WDS feature

included in the asynchronous replication module, the system take advantage of a "triple-threat" of data deduplication, data encryption 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 1300n features a redundant 450W 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.

Data security is enhanced by the advanced snapshot capabilities of the StorTrends 1300n. With its low-overhead Redirect-onWrite (ROW) technology, the administrator has the power to rollback, review, and mount data snapshots to recover lost data quickly and with precision, just moments after a catastrophe.

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.



www.ami.com

StorTrends® 1300n

1U NAS Storage Appliance

Features

4 TB NAS 1U Storage Appliance with StorTrends® iTX Data Storage Software

System Features & Highlights:

- High performance
- Cost-effective and scalable
- Transfer file data over existing Ethernet network
- Slim 1U rack mountable chassis
- Low Total Cost of Ownership (TCO)
- Supports major file transfer protocols
- WAN-Optimization Data Service (WDS)
- Network Teaming
- Advanced Snapshot Capability
- Volume Replication (Snap-assisted)
- Storage Alerts
- Volume Expansion
- Support for volumes up to 8TB
- Support for 32 volumes
- SATA support with hot swap
- Software RAID 0, 1, and 5 support

Hardware Specifications:

Form Factor

1U Chassis with 450W Redundant Power Supply
One (1) Slim DVD-ROM Drive

On-Board CPU

One (1) Intel® Core 2 Duo Processor E6400 (2.13GHz)

Memory

2 GB of DDR2 SDRAM

Drive Interface

Drive & Storage Capacity

Four (4) 3.5" Hot-swappable SATA Drive Bays
250 GB, 500 GB or 1.0 TB capacity hard drives are supported, for 1.0 TB, 2.0 TB or 4.0 TB physical storage capacity per appliance

Status LEDs

6 LED Indicators (Power, Network Activity (x2), HDD Activity, System Overheat, UID)

Expansion Slots

Three PCI-Express Expansion Slots:

- Two (x8) PCI-Express Slots (via Riser Card)
- One (x4) PCI-Express Slot (via Riser Card)

Data Management Ports

2x Single-port Gigabit PCI-Express Ethernet Controller

Other Connectors

Two (2) USB Ports (2.0, 1.1)

Power Specifications

450W (1+1) Redundant, AC PowerSupply with PFC
AC Voltage (100 - 240V, 60-50Hz, 6.3 - 3.2 Amp)

Cooling Specifications

Three (3) 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: 1.7" (43 mm) H x 17.2" (437 mm) W x 25.6" (650 mm) D
Weight: 45 lbs. (20.4 kg)

StorTrends® iTX Software Specifications:

Volume Replication

Asynchronous Replication (Snapshot-assisted)
WAN Optimization Data Services featuring

- Deduplication
- Encryption
- Link / Bandwidth Optimization

Replication Wizard

Failover / Failback

Advanced Snapshot

Up to 1,022 read-only, 1,022 writeable snapshots per volume

2048 snapshots per box

Redirect (allocate) on Write (ROW)

Random snapshot deletion

Rollback to any snapshot

Mounting snapshots as Read-Only or Read-Write

Backup

VSS-based backup support for Windows® 2003 Servers

Networking

TCP/IP, FTP, HTTP/HTTPS, SNMP, Windows® (CIFS),

UNIX (NFS), Apple®

Security

ACL security implementation supports: Local users,

Windows® NT/2000 Domain users, Windows® 2003

Active Directory users, NIS Domain users

Management

Command line interface through RS232 & SSH

Integrated web-based management

Tool for easy customization, branding and theme updating

Event Management

Detailed Event Log

SNMP Traps (up to 4 destinations)

Remote Management

SNMP, SMIS 1.1, VDS

Storage Data Management

Storage pool

LUN (Logical Unit Number) creation & management

LUN dynamic volume expansion

Dynamic NAS volume expansion

Unified RAID Management

UPS Support

Universal UPS Support

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

Advanced Features

Advanced Snapshot Technology

AMI's Advanced Snapshot technology enables up to 1,022 Read-Only and Read-Write snapshots per volume. The module allows for rapid creation and deletion of a snapshot with near-zero degradation, permitting faster back-ups than ever before - with the assurance of a complete and secure back-up. Advanced Snapshot technology is focused on performance, enabling users to mount a snapshot as a volume, read from a snapshot simultaneously, instantaneously roll back to a snapshot, and delete it on demand.

Snap-assisted Replication (SAR)

This technology allows replication of snapshots in chronological order on a remote machine. Snapshots can be organized 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 and data deduplication.



American Megatrends Inc. | www.ami.com

5555 Oakbrook Parkway, Suite 200

Norcross GA 30093 | t: 770.246.8600

Sales & Product Information

sales@ami.com | t: 800.828.9264

Technical Support

support@ami.com | t: 770.246.8645

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