StorTrends® 1300n
1U NAS Storage Appliance

American Megatrends

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 IP-SAN & NAS storage appliance
> 4 Hot-swappable SATA Drives
> Enhanced Reliability with Redundant 450W Power Supply and Universal UPS Support
> Network Teaming
> Failover / Failback
> SATA support with hot swap
> 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
> Volume Replication (Snap-assisted)
> Uses existing Ethernet infrastructure
> Software RAID 0, 1, and 5 support
> Supports major file transfer protocols

StorTrends.®

www.ami.com

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 to 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 downtime for users, and can be implemented for both quick, additional and long-term storage, as well as improved disk utilization when compared to DAS.

For improved reliability and disaster prevention, the 1300n features a redundant 450W power supply, as well as Universal UPS support, which allows the appliance to initiate a graceful shutdown before switching over to UPS power in the even of a power failure.

The StorTrends 1300n also offers four hot-swappable drive bays with SATA support, and network teaming support that ensures load balancing across the dual Ethernet ports.

Data security is enhanced by the advanced snapshot capabilities of the StorTrends 1300n. With its low-overhead Redicrect-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.

Management of StorTrends appliances can be done using the integrated web-based GUI, or with ManageTrends™, AMI's storage management software. Users managing more than one StorTrends appliance can use ManageTrends to discover and manage appliances across the network. Manage Trends also provides event management, a detailed analysis of enterprise-wide storage usage, and storage server availability reporting.

Features

4 TB IP-SAN & 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
- 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
- Hardware RAID Available
- 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 SAS / 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
RAID Support
Integrated Intel® ICH7R Controller (3 Gbps)
Online capacity expansion & RAID level migration
Multiple array types per drive
Supports Read and Write-back caching
Dedicated and distributed hot-spare
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
Snap-assisted
Replication Wizard
Failover / Failback
Advanced Snapshot
Up to 254 read-only, 254 writeable snapshots per volume
992 snapshots per box
Redirect (allocate) on Write (ROW)
Random snapshot deletion
Rollback to any snapshot
Mounting snapshots as Read-Only or Read-Write
Advanced Caching
Caching-assisted snapshot
Backup
VSS-based backup support for Windows® 2003 Servers
Backup agents for popular application 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 254 snapshots (R/O and R/W) 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 customers to mount a snapshot as a volume, read from a snapshot simultaneously, instantaneously roll back to a snapshot and delete it.

Snap-assisted Replication

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.

Advanced Caching Technology

Advanced Caching, a unique technology created by AMI, utilizes sector granularity technology based on an AMI proprietary mechanism, resulting in outstanding performance gains. Advanced Caching technology assists in snapshot read-modify-writes and in replication.

American Megatrends

American Megatrends Inc. | **www.ami.com**

6145-F Northbelt Parkway

Norcross GA 30071 | **t: 770.246.8600**

Sales & Product Information

sales@ami.com | **t: 800.828.9264**

Technical Support

support@ami.com | **t: 770.246.8645**