



The StorTrends® 3200n is an affordable 3U, high-density rack-mount Network Attached Storage (NAS) appliance, perfect for workgroups or departments. It provides a reliable way to manage, store and protect valuable business data without complexity. Easy to install, the StorTrends 3200n enables an administrator to coordinate all functions relating to discovery, management and planning for future storage growth.

HIGHLIGHTS

- > 4, 8, or 16 TB 3 U NAS storage appliance
- > 16 hot-swappable SAS / SATA Drives
- > Cost-effective and scalable
- > Network Teaming
- > Universal UPS Support
- > Failover / Failback
- > SATA / SAS 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 (Snapshot-assisted)
- > WAN-Optimization Data Service (WDS)
 - Deduplication, Compression, Encryption and Link Optimization
- > Uses existing Ethernet infrastructure
- > Hardware RAID support:
 - RAID levels 0, 1, 5, 6, 10, 50, 60
 - Online capacity expansion
 - Online RAID level migration
 - Multiple arrays (same type) per drive
 - Read with write-back caching
 - Global & dedicated hot-spare
- > Supports major file transfer protocols

Data Sheet

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StorTrends® data storage products provide true enterprise-level features to small and mid-size business (SMB) users, and the StorTrends 3200n NAS appliance is no exception. It makes an ideal alternative to traditional Direct Attached Storage (DAS) environments and is perfect for rapidly growing workgroup or departmental data storage, because of its ability to centralize file data storage from Windows®, UNIX, Linux and Mac® clients across an existing Ethernet network and ensure its safety and accessibility. Network teaming support also ensures load balancing across the dual Ethernet ports for exceptional data throughput.

The StorTrends 3200n offers sixteen hot-swappable drive bays with advanced SATA and SAS support for multiple options in performance, capacity and cost, as well as highly distinguishing software features in its StorTrends iTX Data Storage software, preinstalled in each appliance. The 3200n also has the potential for significant capacity expansion; when used as the storage head for a chain of up to three StorTrends® 3201j JBOD units, storage capacity can be increased to a massive 64 TB of storage space.

Volume replication with StorTrends iTX allows data to be stored on multiple StorTrends appliances at multiple local and remote sites, for high availability and disaster recovery. The Asynchronous Replication module bundles I/Os and sends them to the remote server, boosting network utilization efficiency

and reducing bandwidth cost. When combined with the revolutionary WDS (WAN-Optimization Data Service) feature, the 3200n can leverage a “triple-threat” of data deduplication, data encryption and link optimization to reduce bandwidth usage exponentially over conventional replication speeds.

One of the most powerful features of the StorTrends 3200n is its Advanced Snapshot capability with Redirect on Write (ROW) technology. Administrators can schedule point-in-time snapshots, and manually review, rollback and mount any snapshot in the repository in under a second – for the power and flexibility to recover lost data quickly and with precision, just moments after a catastrophe. The StorTrends 3200n also includes RAID levels 5 and 6 to bolster its data protection capability even further. Additionally, Smart UPS support enables the appliance to seamlessly transition to UPS power in the event of a power failure and initiate a graceful shutdown, while automatically switching the RAID cache to write-through mode.

Finally, integrated web-based management with AMI's ManageTrends™ interface provides a simple configuration wizard to configure volumes, and logical disks, and provides 100% control of the discovery and management of multiple StorTrends appliances. ManageTrends also provides event management, a detailed analysis of enterprise-wide storage usage and storage server availability reporting.

StorTrends®

www.ami.com

StorTrends® 3200n

3U NAS Storage Appliance

Features

16 TB NAS Storage Appliance

Dual Dialect Software Stack StorTrends iTX

- Transfer file data over existing Ethernet network
- Sturdy 3U rack mountable chassis
- Redundant Power Supply Modules
- Cost-effective and scalable
- Low Total Cost of Ownership (TCO)
- Supports major file transfer protocols
- Network Teaming
- Advanced Snapshot Capability
- Volume Replication (Snap-assisted)
- WAN-optimization Data Service (WDS)
- Storage Alerts
- Volume Expansion
- Support for volumes up to 64 TB
- Support for 64 volumes
- SATA / SAS support with hot swap
- Hardware RAID Controllers
- Smart UPS support
- ADS/NIS support

Hardware Specifications:

Form Factor

3U Chassis with 800W Redundant Power Supply
One (1) Slim DVD-ROM Drive

On-Board CPU

Two (2) Dual-Core Intel® Xeon® Processor 5000 series
with 1066 MHz FSB

Host Interface

Dual Port Gigabit Ethernet Controller
Eight (8) Port Dual Channel SAS Controller

Drive Interface

Sixteen (16) 3.5" Hot-swappable SAS / SATA Drive Bays

Drive & Storage Capacity

250 GB, 500 GB, or 1 TB per drive
4 TB, 8 TB or 16 TB per Appliance

Hardware RAID Support

LSI Logic MegaRAID® SAS 8888ELP RAID Controller
RAID levels 0, 1, 5, 6, 10, 50, 60
Online capacity expansion
Online RAID level migration
Multiple arrays (same type) per drive
Read with Write-back caching
Global & dedicated hot-spare

Status LEDs

Six (6) LED Indicators (Power, Network / HD Activity,
Power Fail, System Overheat)

Expansion Slots

Six (6) Full-height, Full-length Expansion Slots
Two (2) PCI-Express x 8
One (1) PCI-Express x4
Two (2) PCI-X 133MHz
One (1) PCI-X 100 MHz

Data Management Ports

Two (2) Gigabit Ethernet Data Ports

Other Connectors

Two (2) USB Ports (2.0, 1.1)

Power Specifications

Two (2) Redundant, Hot-swappable 800W AC Power
Supply Modules with PFC
AC Voltage (100 - 240V, 50 - 60 Hz, 10A - 4 Amp)

Cooling Specifications

Three (3) 8cm Hot-swappable Fans
Two (2) 8cm Rear-exhaust Fans

Operating Environment

Operating Temperature: 50 to 95°F (10° to 35° C)
Operating Relative Humidity: 8% to 90%

Physical Characteristics

Dimensions: 5.2" (132 mm) H x 17.2" (437 mm) W x
25.5" (648 mm) D
Weight: 96 lbs. (43.5 kg)

StorTrends® iTX Software Specifications:

Volume Replication

Snap-assisted
Replication Wizard
Failover / Failback

Advanced Snapshots

Up to 1,022 read-only, 1,022 writeable snapshots per
volume
2,048 snapshots per box with near-zero degradation
Redirect (allocate) on Write (ROW)
Random snapshot deletion
Rollback to any snapshot
Mounting snapshots as Read-Only or Read-Write
Caching-assisted snapshots

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, SNMP Traps (up to 4 destinations)
SMIS 1.1, VDS

Storage Data Management

Storage Resource Management / Storage Reports
Storage pool
LUN (Logical Unit Number) creation & management
LUN dynamic volume expansion
Dynamic NAS volume expansion
Unified RAID Management
Auto RAID rebuild

Remote Management

SNMP, SMIS 1.1, VDS

UPS Support

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

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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

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.



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