



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 and store valuable business data without complexity. Easy to install, the StorTrends 3200n enables an administrator to coordinate all functions relating to discovery, management, tracking 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 (Snap-assisted)
- > Uses existing Ethernet infrastructure
- > Hardware RAID support:
  - RAID levels 0, 1, 10, 10+N, 5, 50, 6
  - Online capacity expansion
  - Online RAID level migration
  - Multiple array types per drive
  - Distributed sparing
  - Read with write-back caching
  - Global dedicated and distributed hot-spare
- > Supports major file transfer protocols

Data Sheet . . .

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The StorTrends® 3200n NAS appliance is an ideal alternative to traditional Direct Attached Storage (DAS) environments. 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 3200n offers maximum data protection with RAID levels 5 & 6 and network connectivity to major operating systems, perfect for workgroups or departmental storage that are experiencing rapid data growth.

Administrators can save time and money by deploying StorTrends 3200n 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 3200n 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.

The StorTrends 3200n offers sixteen hot-swappable drive bays with SATA and SAS support, and network teaming support that ensures load balancing across the dual Ethernet ports. UPS support enables the automatic switching of the RAID cache mode to write-through in the event of a power loss.

Data security is enhanced by the advanced snapshot capabilities of the StorTrends 3200n. 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.



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
- High performance
- Cost-effective and scalable
- 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 256 TB
- Support for 64 volumes
- SATA / SAS support with hot swap
- Hardware RAID Controllers
- 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

RAID levels 0, 1, 10, 10+N, 5, 50, 6  
Online capacity expansion  
Online RAID level migration  
Multiple array types per drive  
Distributed sparing  
Read with Write-back caching  
Global dedicated and distributed 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  
RAID levels 0, 1, 10, 10+N, 5, 50, 6  
Hardware RAID controllers  
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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