*S*torTrends® *3100n*

3U NAS Storage Appliance

American Megatrends

The StorTrends® 3100n 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 3100n enables an administrator to coordinate all functions relating to discovery, management, tracking and planning for future storage growth.

· Data Sheet · · ·

HIGHLIGHTS

> 3.75 or 7.5 TB NAS storage appliance

> Cost-effective and scalable

> Network Teaming

> Universal UPS Support

> Failover / Failback

> SATA support with hot swap

> Advanced Snapshot
   - Redirect on Write (ROW)
   - Up to 254 Snapshots (R/O and R/W) per volume
   - Up to 992 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, 1+N, 10, 10+N, 5, 50
   - 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

*S*torTrends®

www.ami.com

AMI's StorTrends® 3100n 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 3100n offers maximum data protection with RAID 5 with 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 3100n 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 3100n 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 3100n offers fifteen hot-swappable drive bays with SATA 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 3100n. 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

3.75 or 7.5 TB NAS Storage Appliance
StorTrends iTX 2.6 Software Stack

- Cost-effective and scalable
- Sturdy 3U rack mountable chassis
- Redundant Power Supplies
- 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 Controllers
- UPS support

Hardware Specifications:
On-board CPU
Intel® Dual Xeon® 2.8 GHz Hyper-threaded
Host Interface
Dual Gigabit Ethernet
Drive Interface
15 x 1" hot-swap SATA bays
Drive & Storage Capacity
- 250 GB per drive or 500 GB per drive
- 3.75 TB or 7.5 TB per Appliance
Hardware RAID Support
RAID levels 0, 1, 1+N, 10, 10+N, 5, 50
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
Yes
Expansion Slots
Two (x8) PCI-Express slots
One (x4) PCI-Express slots
One 64-bit 133 /100 MHz PCI-X
Data Management Ports
Two 1 Gigabit Ethernet Data Ports
Other Connectors
Two Fast UART 1650 serial ports
Two USB 2.0/1.1 ports
Power Specifications
760W AC power supply module w/PFC
AC Voltage (100-240V, 50-60Hz, 14/7Amp)
Triple-Redundant
Cooling Specifications
Four 4 x 9cm hot-swappable 5,000RPM fans
Two 2 x 8cm rear exhaust, hot-swappable fans
Fan tachometer monitoring
Operating Environment
Operating Temperature
- 10° to 35°C (50° to 95°F)

Non-operating Temperature
- -40° to 70°C (-40° to 158°F)

Operating Relative Humidity
- 8% to 90% (non-condensing)

Non-operating Relative Humidity
- 5% to 95% (non-condensing)

Physical Characteristics
Dimensions: 5.2" H x 17.7" W x 25.5" D
Weight: 72 lbs.

Software Specifications:
Volume Replication
Snap-assisted
Replication Wizard
Failover / Failback
Advanced Snapshots
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
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 Traps (up to 4 destinations)
Storage Data Management
Storage pool
LUN (Logical Unit Number) creation & management
LUN dynamic volume expansion
Dynamic NAS volume expansion
Unified RAID Management
RAID levels 0, 1, 1+N, 10, 10+N, 5, 50
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

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.

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