



The StorTrends[®] 2200n is an affordable 2U, 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 2200n enables an administrator to coordinate all functions relating to discovery, management, tracking and planning for future storage growth.

Data Sheet ...
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HIGHLIGHTS

- > 6 or 12 TB NAS storage appliance
- > 12 Hot-swappable SATA Drives
- > Cost-effective, low TCO
- > Scalable up to 60 TB with 3 JBODs
- > Network Teaming
- > Smart UPS Support
- > 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)
 - Data transfer acceleration with WAN-Optimization Data Services (WDS)
- > 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 per drive
 - Read with write-back caching
 - Global & dedicated hot-spare
- > Supports major file transfer protocols

The StorTrends 2200n is a flexible hardware platform that can be coupled with StorTrends iTX software for use as a dedicated network storage appliance (NAS). Built to support Intel[®] Dual-Core CPU technologies, the StorTrends 2200n offers performance and flexibility.

The StorTrends[®] 2200n 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 2200n 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 2200n 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 2200n 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 2200n offers twelve 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 2200n. 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 ManageTrends[™] GUI, 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.



StorTrends® 2200n

2U NAS Storage Appliance

Features

12 TB NAS 2U Storage Appliance with StorTrends® iTX Data Storage Software

System Features & Highlights:

- Transfer file data over existing Ethernet network
- Sturdy 2U rack mountable chassis
- Redundant Power Supply Modules
- High performance
- Cost-effective and scalable
- Supports major file transfer protocols
- Network Teaming
- Advanced Snapshot Capability
- Volume Replication (Snap-assisted)
- Storage Alerts
- Volume Expansion
- Support for volumes up to 60 TB
- Support for 64 volumes
- SATA support with hot swap
- Hardware RAID Controllers
- UPS support
- ADS/NIS support

Hardware Specifications:

Form Factor

Rack-mountable 2U Chassis
One (1) Slim DVD-ROM Drive

On-Board CPU

Two (2) Dual-Core Intel® Xeon® 5100 series processors, 1066 MHz FSB with 4 MB of L2 cache

Memory

2 GB of DDR2 SDRAM

Drive & Storage Capacity

Twelve (12) 3.5" Hot-swappable SATA Drive Bays

- 500 GB and 1.0 TB capacity hard drives are supported, for 6.0 TB or 12.0 TB physical storage capacity per appliance

Two (2) 2.5" Internal Notebook SATA Flash Drives

- 4 GB capacity Flash drives for OS Installation, support for RAID 1 mirroring for OS integrity

RAID Support

LSI Logic MegaRAID® SAS 8888ELP RAID Controller

Online capacity expansion & RAID level migration
RAID levels 0, 1, 5, 6, 10, 50, 60

Multiple arrays (same type) per drive

Read with Write-back caching

Global & dedicated hot-spare

Status LEDs

6 LED Indicators (Power Active, Unit ID, Unit Fault, Network Activity, HDD Activity, System Overheat)

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 Power Supply 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: 3.46" (87.9 mm) H x 17.46" (443.4 mm) W x 27.83" (707 mm) D

Weight: 44 lbs. (20 kg) as shipped (unpopulated); 66 lbs. (30 kg) fully populated (with 12 drives)

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

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

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 (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.



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