StorTrends® 2200n
2U NAS Storage Appliance

American Megatrends

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.

HIGHLIGHTS

> 6 or 12 TB IP-SAN & NAS storage appliance
> 12 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

StorTrends®

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 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 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 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.

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*S*torTrends® *2200n*

2U NAS Storage Appliance

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
- 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 108 TB
- Support for 64 volumes
- SATA / SAS 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
One (1) Intel® Core™ 2 Duo Processor E6400 (2.13GHz)

Memory
2 GB of DDR2 SDRAM

Drive & Storage Capacity
Twelve (12) 3.5" Hot-swappable SAS / 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

RAID Support
Online capacity expansion & RAID level migration
Multiple array types per drive
Distributed sparing
Read with Write-back caching
Global dedicated and distributed 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. (20 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
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

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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