

DataShare x2 *CD/DVD Disc Management plus Data Storage file sharing*

DataShare x2 is a unique Network Attached Storage server that combines CD/DVD disc management capabilities and powerful Data Storage file sharing in a single easy-to-manage solution. Organize your CD and DVD media into multiple volume groupings for easy management, and share up-to 1500 volumes (discs) to users on the network at once. Off-load your current File Server by storing project data, private home directories, or disk-to-disk backup data sets on **DataShare x2** instead.

CD/DVD Disc Management

Get organized! Instead of fumbling with dozens or hundreds of optical discs, store an exact replica image of the disc on **DataShare x2's** available RAID protected hard drives. No more hassle, the discs are on-line all the time for instant access and they can be easily organized into multiple volume groupings to make locating them a breeze! Load new discs via front-mounted CD/DVD loaders, or from the comfort of your office over the network by using the powerful Remote Load software (included free of charge).

Make backup copies of important discs, or create your own CD or DVD discs as easily as drag-n-drop using the included Disc Creation software (included free of charge). Minimize deployment costs of PC hardware by allowing selected network users to use the **DataShare x2** as a centralized resource for creating or copying discs, instead of each PC being equipped with a DVD-RW recorder.

Periodic or monthly updates on CD or DVD? No problem. With **DataShare x2**, you can easily replace the old outdated volumes that were previously cached with the new discs as they become available, all without resetting share names or volume security. If you want to keep an archive of all the periodic updates instead of removing the old ones, you can choose to do so.

Data Storage file sharing

Utilizing the **DataShare x2** to compliment an existing File Server or as a replacement File Server is a smart move! The easy-to-use management interface removes all the unnecessary options that just get in the way when configuring a complete operating system, instead focusing on what really matters: serving files. **DataShare x2** features available RAID protected hard drives, scalable on-the-fly up-to 2 TB in capacity depending on the model. It's a perfect home for storing data like private home directories, project data, or as a disk-to-disk backup server.

Easily create several share points and set granular security for the share, folder, and file level using native operating system tools like Microsoft Windows Explorer "right-click, set permissions" dialog box. Or use the built-in admin web interface instead if you prefer.

Backup and Disaster Recovery

SmartSync technology is built-in to every **DataShare x2**, allowing you to easily create a "primary" and "secondary" scenario, where the primary server backups all data and configuration settings to the secondary, and in the event the primary fails, the secondary can be easily brought on-line with little or no downtime or data loss.

Disk-to-Disk backup is easily implemented with **DataShare x2**, either using the built-in SmartSync technology to backup to another **DataShare x2** server, or by using popular backup software packages like Veritas Backup Exec and targeting the **DataShare x2** as the "disk-to-disk server". Most commonly this is used to backup several workstations or servers within the network to a single centralized storage point, the **DataShare x2**, while maintaining your powerful scheduling, selective restore, and disaster recovery features that are included with advanced backup software packages like Veritas Backup Exec.

Network Compatibility

DataShare x2 supports Windows 9x to 2003, and will appear as a Windows File Server to the network users and perform Domain or Active Directory authentication via your domain controllers. In Unix/Linux environments, NIS support is available, or create local user and group accounts. For Macintosh users, authenticate against your Windows Domain Controller, or create local user and group accounts right on **DataShare x2**. No matter which network environment you have, **DataShare x2** is designed to integrate with it and work seamlessly.

Key Features:

- ! Unique single server solution, providing both CD/DVD disc management and network file storage in one solution.
- ! Store up-to 1500 volumes (CD/DVD discs) on-line simultaneously, and organize them efficiently.
- ! Available RAID hard disk drive protection for data redundancy, scalable up-to 2TB (varied by model) in capacity.
- ! SmartSync replication technology built-in to sync data from one DataShare x2 to another.
- ! Dual Gigabit Ethernet (10/100/1000mb) interfaces for enhanced performance.
- ! Front-mounted LCD keypad for first-time setup (IP address) and health monitoring.
- ! Disc creation technology built-in with support for CD-R/RW, DVD-R/RW, DVD+R/RW, and the new 8GB Double Layer DVD-RW DL standards.
- ! Disc Management software package for Windows included free of charge.
- ! Ability to limit concurrent connections per share to help control licensing restrictions.
- ! Use as disk-to-disk backup target server to replace slow tape backup servers.
- ! Trend Micro anti-virus engine built-in and automatic pattern updates are free of charge.



www.emdstorage.com



A subsidiary of Alanco Technologies, Inc. (NASDAQ: ALAN)

3220 Commander Drive, Suite 101, Carrollton, Texas 75006
Fax: 972-980-0375

Phone: 800-995-1014
sales@emdstorage.com

HARDWARE

Controller:

- 512MB PC-133 system memory, 16MB DOM (disk on module) for operating system
- Dual Gigabit Ethernet (10/100/1000mb) Network Interfaces standard
 - Load balancing, link aggregation, fault tolerance, & stand-alone modes available
- Back-lit LCD keypad and display for setting IP address during install and monitoring status/events.
- Audible buzzer alarm for critical events.
- Network Interface LED's to indicate link speed and traffic.

CD/DVD loading and recording devices: Up-to 2 physical CD/DVD devices per server. Up-to 1500 volumes cached on-line.

- DVD-ROM (reads CD-ROM, DVD-ROM, CD-RW, DVD-RW DVD+RW media)
- DVD-RW/DVD+RW (writes CD-R/CD-RW, DVD-RW/DVD+RW)
- CD/DVD file systems supported: ISO 9660 level 1, 2 and 3 (including Romeo, Joliet, and Rock-Ridge extensions), HFS/HFS+, UDF (for both CD and DVD), High Sierra, Hybrid ISO+HFS, and multi-session CD's. Note: Audio CD's are not supported. Hollywood-style DVD movies, or any movie DVD with copyright encryption, are not supported

HDD storage devices and RAID: Up-to 8 physical hard disk drives per server, up-to 2TB volume capacity depending on the model.

- Hot-swappable intelligent disk drive backplane module.
- SATA disk drive technology, capacities up-to 250GB per drive.
- RAID level 0, 1 and 5 supported, with optional global hot-spare.
- Up-to (4) concurrent RAID arrays.
- Dynamic RAID 5 expansion scalable up-to 2TB capacity. *(varies by model)*

Event Monitoring and Environmental:

- LCD console and keypad displays critical system events.
- RS-232 DB9 serial interface for connecting to APC SmartUPS for controlled shutdowns.
- Network UPS (RFC-1628) for connecting to most UPS's for controlled shutdown over network.
- Sensors: CPU temperature, fan speed, power voltages, and disk drive health.
- Customizable email notification of critical events.

NETWORKING ENVIRONMENTS

Microsoft Network Server Support

- Servers: NT 4, Windows 2000, Windows 2003
- Domain: NT 4, Windows 2000 and Windows 2003 Active Directory Services (mixed mode and native mode supported)
- Directory: Windows 2000 and Windows 2003 Active Directory Services (mixed mode and native mode supported)
- Trusts: User authentication is possible from any domain with a trust relationship to the domain in which the DataNAS is installed.
- Security: Granular File-level / User-level / Share-level security controlled via administration web GUI, Native Windows security via Windows Explorer
- Authentication: NTLM v1 and NTLM v2 supported

Microsoft Network Client Support

- Clients: Windows 95/98/Me, XP, NT 4, 2000, 2003
- Protocols: CIFS / SMB, HTTP, FTP
- Security: Granular File-level / User-level / Share-level security controlled via administration web GUI, Native Windows security via Windows Explorer

Novell NetWare Network Client Support

- Protocols: NetWare NCP over IPX support*

* Limited security support, no NDS/eDirectory support.

Apple Macintosh Client Support

- Clients: OS 8.x, 9.x, OS X 10.x
- Protocols: Appletalk, AFP over IP
- Authentication can be passed to a NT Domain or 2000 Active Directory

Unix Network Server Support

- Authentication: NIS support
- NIS users and NT users can be automatically mapped to the same ID's in the internal DataNAS user database
- Security: Traditional NFS Security, controlled by root-user

Unix Network Client Support

- Clients: Most Unix/Linux variants capable of NFS v3.
- Protocols: NFS v3 over UDP or TCP, HTTP, FTP

Web Browser (HTTP)

- Internet Explorer 5 or above
- Administrative tools and server setup accessed via HTTP
- Users can log in and authenticate via a NT Domain or 2000 Active Directory, as well as local-database
- SSL 3.0 (HTTPS) connections supported over Internet Explorer 5.0 or above for both users and administrators

File Transfer Protocol (FTP)

- Users can log in and authenticate via a NT Domain or 2000 Active Directory, as well as local-database

SYSTEM MANAGEMENT & DISASTER RECOVERY

- Most network backup platforms supported such as Microsoft Backup, Veritas Backup Exec, and Legato Networker.
- Available locally attached tape backup supports AIT tape devices (IDE) with built-in scheduler.
- Email notification and SNMP traps for monitoring events.
- Operating system stored in non-volatile DOM (disk on module), reducing chance of failure.
- Automatic background hard drive scanning can be scheduled to seek out potential drive problems before they become serious.

SmartSync FILE REPLICATION and DATA SYNCHRONIZATION:

- Secure data transfer using SSL encryption
- Remap port number for specific firewall protected applications
- Optionally compresses data before transit to minimize network bandwidth
- Network bandwidth throttling, specify unlimited or limit data transfer by KB/sec (kilobytes per second)
- Optionally retain file permissions and security (ACL's) on destination
- Optional Include/Exclude file filter wildcard lists
- Choose Quick Sync for a date stamp comparison, or use default CRC-32 method for verifying data changes
- Only transmits data that has changed (delta blocks) to minimize bandwidth

Trend Micro Anti-virus protection (real-time or scheduled):

- Real-time, scheduled, or disable virus scanning
- Automatic virus pattern updates over internet or via uploaded file
- Customizable file extensions to scan/not-scan
- Quarantine support
- Administrator alert of out-dated virus pattern or virus found
- Anti-virus engine is capable of scanning multiple levels of compressed files
- Real-time scanning is supported for all protocols except NFS.
NFS users should use scheduled virus scans

SUPPORTED LANGUAGES:

Web pages: English, Traditional Chinese, Simplified Chinese, Korean, Japanese, French, German, Italian, Spanish

Code-pages: English, western European, Arabic and Hebrew, CJK DBCS, Unicode

INCLUDED SOFTWARE (not required):

- NASTart software easily discovers new DataShare x2's on the network for quick and painless first-time system setup.
- Import/export the configuration settings of your DataShare x2 and save them in a file using NASTart.
- NASTart for remote disc loading, creation or copying.
- eContent for establishing a front-end menu interface to deploy to all users, allowing them to choose from a pre-defined list of applications to launch from DataShare x2. The master list is controlled by the DataShare x2 administrator

PHYSICAL/ELECTRIC

- SATA drive support. 48-bit LBA for drive capacities up-to 250GB
- HDDs enclosed in hot-swappable intelligent backplane modules with cooling fans
- Operating Temperature: +10 to +35 C
- Relative Humidity: 10-80% @ 30 C non-condensing
- Approvals FCC Class A, cUL, UL, CE, BSMI
- **Dimensions (HxWxD): 1U rack 1.75"x19"x21"/ 4U rack 7"x19"x21"**
5-bay tower 10^{1/4}"x8"x17" / 9-bay tower 19"x8"x18"



3220 Commander Drive, # 101
Carrollton, Texas 75006, USA
Phone: 972-980-7098 Fax: 972-980-0375
Website: www.emdstorage.com