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ingrasys

Intelligent Network Computing



:: NASTorage™ Server ::



Delivering Power of Storage





Top 10 reasons for choosing NASTorage™ server as your network attached storage (NAS) server

1. Experience on NAS hardware and software development

Since 1996, Ingrasys (former Allion Computer Inc.) has introduced a series of network-attached storage (NAS) servers. With over 70% engineers specialized in network computing technologies developments, Ingrasys utilizes cutting-edge NAS technologies to develop high performance and easy-to-use NAS file servers with unlimited scalability for the IT market. Our in-house software and hardware development team work together with our highly experienced quality assurance team to ensure product compatibility, interoperability, integrity and usability.



2. Elevating business productivity and lowering total cost of ownership

The NASTorage file server can integrate seamlessly into existing Windows, MAC, Linux & Novell environments, utilizing standard naming and authentication services. The multi-platform support alongside with the easy-to-use web based administration console allows continued use of any existing server without additional capital and training investment.



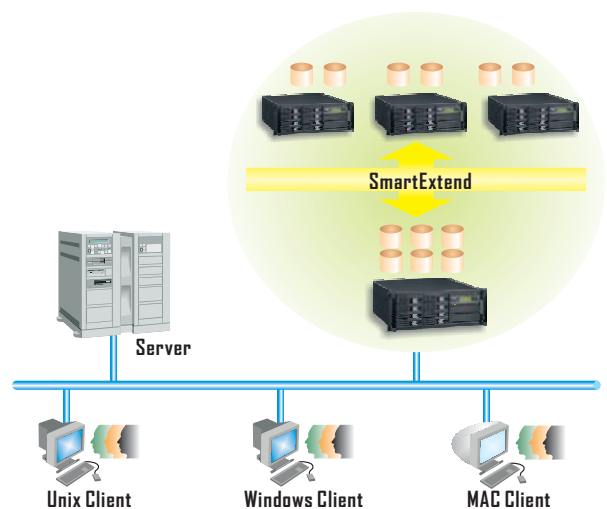
3. Veritable online virus scanning to protect mission-critical application data on all incoming and outgoing files for added reliability

Without the need of setting up an extra anti-virus scanning server, the NASTorage file server integrated the industry-leading Trend Micro anti-virus software providing continuous 7x24 real-time virus scanning protection against malicious virus attacks.



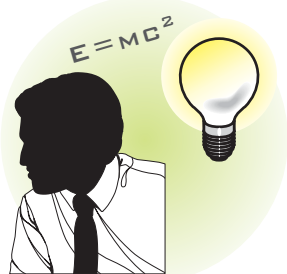
4. High scalability to accommodate growing workloads using SmartExtend technology

A staff or workgroup each with their own storage within an organization will not only cause storage resource abuse but also lack of ability to manage the storage resource from a centralized management console. NASTorage file server lets you quickly and easily create additional logical Volume within the NASTorage file servers network. It eliminates the cost and complexity by using a single server namespace to utilize the storage from the server network.



5. Dedicated to develop intellectual property into valuable assets for the benefit of our customers

Ingrasys filed numerous patent applications in the USA and other major countries for its proprietary technology in the fields of mechanical, logic and software design during the development of the NASTorage products. Our goal is to ensure that Ingrasys products outperform the competition and exceed expectation by turning our intellectual property into solutions which meet customer needs.



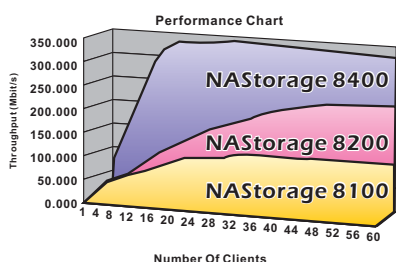
6. Award and recognitions of our achievement that the NASTorage is leading the way within the storage industry

The NASTorage has received recognition and awards from some of the biggest names in the IT community, including CMP Europe, Eurotrade, ITHome Magazine as well as from the Ministry of Economics Affairs (Taiwan).



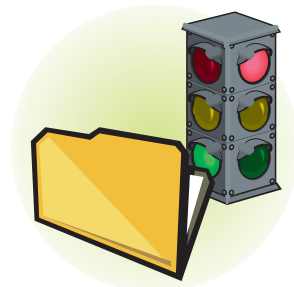
7. Full-scope of product lines and available in a variety of different performance levels

Ingrasys is offering small to medium-sized organizations a complete line of NAS products for file serving. The NASTorage file server offers base platforms ranging from 1U through 4U and with a variety of optional features to satisfy the demands of today's evolving and demanding business requirements.



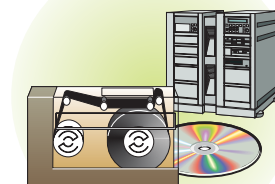
8. Advanced storage resource management

The rapid growth of enterprise storage capacity will lead to the rapid growth in enterprise operational costs. Implementation of disk quota management as well as folder quota management is a standard feature in the NASTorage to maintain best practices to ensure maximum value and operational efficiencies from the storage resources.



9. Broad range of scalable and mass data backup solutions that provide the best protection of business-critical information

- Common Backup - NASTorage allows multiple clients to copy/archive important files to a secondary location. This provides clients with an online backup of information in the event of local drive failure.
- Tapeless Backup - Using the SmartSync technology to complement existing tape backup solutions, provides an on-line access to data backups and facilitates data recovery.
- Tape Library Backup - Support of the SONY StorStation tape library for enterprise storage network.



10. The world's first NAS file server that integrates the advanced network disc server function in a network attached storage server *

As the market leader in network attached disc server technology, Ingrasys will continue to provide innovative storage solution for sharing CDs and DVDs over the network to distribute valuable content among multiple users while preserving the best-in-class solution of network file serving.



Top 10 advanced features in NASTorage™ server

1. Trend Micro Antivirus for NASTorage file server *

High-performance real-time virus scanning protection with automatic virus pattern update from Trend Micro ensuring data integrity. Managed through our intuitive web-based management console, you can easily manage virus maintenance tasks such as initiating on-demand scanning and schedule scanning.

2. Storage Management Consolidation - SmartExtend

Utilizing the **Automatic SmartExtend Restoration (ASR)** mechanism, our SmartExtend technology manages storage resources for multiple NASTorage file servers in the network as a single IP storage network. That means better resource utilization, ease of storage management and simpler expansion of the storage infrastructure.

3. Remote Data Replication - SmartSync

The NASTorage file server enables fast data replication and NAS-to-NAS backup by employing differential block transfer to speed up the process. All the backups are kept online for easy access with a 128-bit Secure Sockets Layer (SSL) encryption to secure data transfer.

4. Access Control List

Access Control List (ACL) permits an administrator to take advantage of a more sophisticated security model in the NASTorage file server. You can set permissions to define the type of access granted to a user or group. The ACL entry consists of the list of the users and groups that can access a specific file or directory on the NASTorage file server.

5. Integrated Network Disc Server *

Fully integrated in the NASTorage file server. It allows you to share large numbers of CDs/DVDs on the network without having to worry about wear and tear on your expensive discs. It simplifies the management of CD/DVD media, improves performance and reduces costs associated with this technology.

6. SATA HDD Support

Serial ATA (SATA) delivers a maximum data transfer rate of 1.5 Gbit/sec (150 MB/sec) per port and its future roadmap shows a growth to 6.0 Gbit/sec (600 MB/sec). Ingrasys provides the flexibility to offer both Parallel ATA and Serial ATA models to meet the customer needs.

7. Optical device support for large file exchange and sharing

When it comes to back-up media, CD/DVD discs are definitely one of the choices to backup small files such as CAD design files or Power Point presentations which contain huge file sizes and often need to be transported from one place to another. The NASTorage together with the CD/DVD burning software and interface can satisfy the need for large file exchanges.

8. Point-in-time snapshot for easy file and folder restoration *1

The NASTorage file server supports the snapshot technology which creates a read-only copy (in a flash of a second) of the contents of the server at a particular point in time. A user can easily restore previous versions of files or folders without having to contact the system administrator.

9. Tape Library Support *1

Tape Library support improves security and manageability for centralized data backup into one large central tape library instead of scattered server captive individual tape drives. User can also benefit of this by eliminating individual tape handling and increase the capability for unattended backup/restore operation.

10. NDMP Support *1

The Network Data Management Protocol (NDMP) is an open standard protocol for enterprise-wide backup of heterogeneous network-attached storage. By supporting NDMP, the NASTorage file server enables the data to be backed up and restored using any NDMP compatible backup software.

* Optional features - require purchase of a license / 1 Indicates the functions will be available on Q3, 2004



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Model	NAS Storage Disc Server			File Server for Workgroup			File Server for Enterprise		
									
Ideal for	<ul style="list-style-type: none"> Users requiring an all-in-one server that can simultaneous access to the same CD/DVD disc yet keeping the benefit of having a high performance file server that can share data among heterogeneous network clients. 			<ul style="list-style-type: none"> Workgroups requiring for fast data access and data protection in a compact 1U rack mount system. Models supporting SATA HDD are also available. 			<ul style="list-style-type: none"> Corporations demanding antivirus protection, high performance, significant storage capacity and getting the most from their storage investment. Model supporting SATA HDD are also available. 		
Processor	Celeron 1.2GHz with 256KB L2 cache	Celeron 1.2GHz with 256KB L2 cache	Celeron 1.2GHz with 256KB L2 cache	Pentium III 1.26GHz with 512KB L2 cache	Pentium 4 2.4GHz with 512KB L2 cache	Pentium 4 2.4GHz with 512KB L2 cache	Pentium III 1.26GHz with 512KB L2 cache	Pentium 4 2.8GHz with 512KB L2 cache	Pentium 4 2.8GHz with 512KB L2 cache
Memory Type	PC-133 SDRAM	PC-133 SDRAM	PC-133 SDRAM	PC-133 SDRAM	DDR-266/333	Un-buffer ECC DDR-266/333	PC-133 SDRAM	Un-buffer ECC DDR-266/333	Un-buffer ECC DDR-266/333
NVRAM	No	No	No	No	32K bytes	32K bytes	No	32K bytes	32K bytes
Network Connectivity	On board 2 x 10/100 Ethernet ports	On board 2 x 10/100 Ethernet ports	On board 2 x 10/100 Ethernet ports	On board 2 x Gigabit Ethernet ports	On board 2 x Gigabit Ethernet ports	On board 2 x Gigabit Ethernet ports	On board 2 x Gigabit Ethernet ports	On board 2 x Gigabit Ethernet ports	On board 2 x Gigabit Ethernet ports
RAID	RAID 0, 1, 5	RAID 0, 1, 5	RAID 0, 1, 5	RAID 0, 1, 5	RAID 0, 1, 5	RAID 0, 1, 5	RAID 0, 1, 5	RAID 0, 1, 5	RAID 0, 1, 5
Max. No. of Hot-Swap Drives	8 (IDE HDD)	4 (IDE HDD)	4 (IDE HDD)	4 (IDE HDD)	4 (IDE HDD)	4 (SATA HDD)	8 (IDE HDD)	8 (IDE HDD)	8 (SATA HDD)
Max. No. of Optical device or IDE TBU Drives	Max. two optical devices or IDE TBU drive	Max. one optical device	One DVD combo drive come as a standard device	One DVD combo drive come as a standard device	One DVD combo drive come as a standard device	One DVD combo drive come as a standard device	Max. two optical devices or IDE TBU drive	One DVD combo drive come as a standard device	One DVD combo drive come as a standard device
SCSI TBU Support	Support IDE TBU	No	No	Support SCSI TBU	Support SCSI TBU	Support SCSI TBU	Support SCSI TBU	Support SCSI TBU	Support SCSI TBU
SmartSync	Mirror	Mirror	Mirror	Mirror	Mirror	Mirror	Mirror, Backup, Distribute	Mirror, Backup, Distribute	Mirror, Backup, Distribute
Trend Micro Antivirus Support	(Optional)	(Optional)	(Optional)	Yes	Yes	Yes	Yes	Yes	Yes
SmartExtend Initiator	No	No	No	(Optional)	(Optional)	(Optional)	(Optional)	(Optional)	(Optional)
SmartExtend Target	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Integrated Network Disc Server	Yes	Yes	Yes	(Optional)	(Optional)	(Optional)	(Optional)	(Optional)	(Optional)
Max. Throughput	Up to 130Mbps	Up to 130Mbps	Up to 130Mbps	Up to 250Mbps	Up to 350 Mbps	Up to 350 Mbps	Up to 250Mbps	Up to 350 Mbps	Up to 350 Mbps