

IBM System Storage N3700



Highlights

- **High availability**—Uses proven features including a high-performing and scalable operating system, data management software and redundancy features
- **Heterogeneous storage access**—Designed to provide networked storage capable of consolidating NAS and iSCSI storage requirements
- **FCP support**—Designed for operation in Fibre Channel SAN environments
- **Instant backup and instant recovery**—Supports disk-based backup, with file or application-level recovery in seconds with Snapshot™ and SnapRestore® software features
- **Simple replication and disaster recovery**—Designed to provide an easy-to-deploy mirroring solution that is highly tolerant of WAN interruptions
- **Management simplicity**—Designed to enable on-the-fly provisioning; self-diagnosing systems with automated replacement parts delivery; self-service file recovery for end users
- **Cost effective**—FlexVol® can double storage utilization, and both block and file storage can be consolidated into a single affordable system

The challenge: Support cost-effective, enterprise-class storage

Corporate workgroups, distributed enterprises and small-to-medium-sized companies increasingly seek to network and consolidate storage to improve availability, share information, reduce costs and protect and secure information. These organizations require enterprise-class solutions that are capable of addressing immediate storage needs cost-effectively while providing an upgrade path for future requirements. Ideally, IT managers would like a maximum degree of flexibility to design the architecture that best supports the requirements of multiple types of data and a broad range of applications.

The solution: IBM System Storage N3700 storage system

IBM System Storage™ N3700 is designed to offer you fast data access with extremely low maintenance requirements for a highly capable

data storage solution. The N3700 filer integrates storage and storage processing into a single unit, facilitating affordable network deployments. These advanced storage systems use a proven storage architecture and offer standard IBM System Storage N series elements, including integrated I/O, high availability via clustering and Fibre Channel and/or SATA disk drives. IBM System Storage N3700 models are designed to integrate easily into existing IT environments to deliver unified storage for organizations with NAS, IP SAN via iSCSI protocols, FC SAN via FCP protocols, or combined environments, making enterprise-level storage a realistic goal for company sites regardless of size or staffing.

Enterprise-class storage based on standard IBM System Storage N series architecture

N3700 models use Fibre Channel, disk drives or both as their storage media to support enterprise-class reliability. All N3700 systems are configured with Data ONTAP® software. Data ONTAP can facilitate greater efficiency and productivity within your organization, which can help reduce the total cost of ownership (TCO).

Scalability to address evolving storage needs

With a purchase price and a scalability model that can help you protect your storage investment, the IBM System Storage N3700 offers exceptional value for organizations of all sizes. The N3700 supports low-impact scalability. This is designed to enable you to scale your storage infrastructure to keep pace with growing storage needs without taking mission-critical applications and information offline. The N3700 supports up to 16.8 TB of physical capacity, and as storage needs evolve, a simple upgrade process is designed to enable you to easily and quickly upgrade an installed N3700 system.

Highly flexible, unified storage solution

The IBM System Storage N3700 offers an excellent solution for a broad range of deployment scenarios. The N3700 supports Ethernet environments, enabling economical NAS and iSCSI deployments. The N3700 system functions as a “unification engine,” which is designed to enable you to serve both file-level and block-level data across a single network simultaneously—demanding procedures that for some solutions require multiple, separately managed systems. The flexibility of the

N3700 allows it to address the storage needs of a wide range of organizations, including distributed enterprises and data centers for midrange enterprises. The N3700 also supports sites with computer and data-intensive enterprise applications such as database, data warehousing, workgroup collaboration and messaging.

Affordable data protection for distributed enterprises

N3700 storage systems can offer significant advantages for distributed enterprises with remote and branch office sites. These organizations and others can leverage the SnapVault® and SnapMirror® software functions to implement a cost-effective data protection strategy by mirroring data back to a corporate data center. N3700 systems can help improve data availability and simplify backup-and-restore operations by implementing centralized backup via a single methodology. This helps reduce tape management requirements and the need for remote systems administration. Recovering data backed up on IBM System Storage N3700 systems can be faster and more reliable than recovering from tape.

This solution helps reduce the requirement for sophisticated IT infrastructure and local, resident IT support resources at remote sites, and makes the most of the advantages of IBM System Storage N3700 systems installed at corporate headquarters.

Support for low TCO and long-term investment protection

N3700 systems support a low TCO with an affordable price point, easy installation, and configuration and ease of ongoing maintenance. Standardization on the IBM System Storage N3700 storage architecture can help your organization make the most of staff IT skills and reduce

complexity. The innovative design of the N3700 results in a smaller form-factor appliance that conserves scarce and valuable space in data centers or remote office locations. In addition, the ability to support unified storage networks enables you to use your current network investment while deploying a long-term, highly scalable and easily upgradable storage solution.

Software

Operating system	Data ONTAP
Operating systems supported	Windows 2000, Windows Server® 2003, Windows XP, Linux®, Sun™ Solaris, IBM AIX®, HP-UX, Mac OS, VMware ESX
Software features	<p>Standard Integrated RAID manager, including RAID-DP; Snapshot; Fast Boot; NIS; DNS; FilerView®; FlexVol; FlexShare™; Disk Sanitization; SecureAdmin™; Network Data Management Protocol (NDMP)</p> <p>Licensed CIFS; NFS; HTTP; FTP; iSCSI; FCP; FlexClone®; MultiStore®; Clustered Failover; SnapMirror; SyncMirror®; SnapRestore; Single Mailbox Recovery; SnapVault; SnapMover®; NearStore®; Advanced Single Instance Storage; SnapValidator®; SnapLock®; MetroCluster</p> <p>Manageability Software</p> <p><i>Application Suite</i> SnapManager® for Microsoft Exchange; SnapManager for Microsoft SQL Server®; SnapManager for Microsoft Office SharePoint; SnapManager for Oracle; SnapManager for SAP</p> <p><i>Server Suite</i> SnapDrive®; Virtual File Manager™ (VFM®)—Enterprise Edition; Virtual File Manager—Migration Edition</p> <p><i>Storage Suite</i> Protection Manager, Provisioning Manager, File Storage Resource Manager; Operations Manager</p>



Filer specifications	N3700 A10	N3700 A20
Max. raw capacity	16.8 TB	16.8 TB
Max. number of disk drives	56	56
ECC memory	1 GB	2 GB
Ethernet 10/100/1000 copper	2	4
Copper FC ports for EXN expansion unit attachment	1	2
Optical FC ports for FC SAN and tape attachment	1	2

See ibm.com/storage/network/n3700/features.html for an overview of the N3700 software features, functions and benefits.

For more information

Contact your IBM representative or IBM Business Partner or visit:

ibm.com/storage/network/

MB, GB and TB equal 1,000,000, 1,000,000,000 and 1,000,000,000,000 bytes, respectively, where referring to storage capacity. Actual storage capacity will vary based upon many factors and may be less than stated. Some numbers given for storage capacities give capacity in native mode followed by capacity using data compression technology.

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