

IBM TotalStorage™ FAST700 Storage Server



Highlights

- **2 Gbps technology offers improved response time**
- **FlashCopy™ and Remote Mirroring help increase data protection options**
- **Dynamic Volume Expansion is designed to support simplified data management**
- **Configuration scalability and flexibility help meet the needs of growing companies**
- **High-availability design enhances access to data**
- **SAN-ready, centralized storage can ease management workload**

Surging ahead with storage

As routine business processes become increasingly data-dependent, companies are ramping up their storage infrastructures. But today's companies must weigh storage requirements against tightening budgets. Solutions must be cost-effective, scalable, and accommodate a variety of storage requirements.

IBM provides flexible business solutions that are designed to offer maximized price-to-performance ratios. IBM TotalStorage™ FAST700 Storage Server is a full-Fibre Channel, Storage Area Network (SAN) solution designed to provide the necessary performance at the right price.

New 2 Gbps technology

The newest members of the FAST family—the FAST700 Storage Server and FAST FC-2 host bus adapter—use today's most sophisticated Fibre Channel technology, which transfers data at the rate of 2 Gbps. This new technology allows large amounts of data to be consolidated for quicker, more efficient access and management.

Flexibility and scalability to meet growth

Buy what you need now, add more later. The FAST700 is a scalable storage

server designed to allow you to build on your initial investment. Simply upgrade—not replace—as your needs increase. The FAST700 scales from 36 GB to 16 TB of storage using 22 FAST EXP500 expansion enclosures. Each expansion enclosure supports up to 10 Fibre Channel disk drives. Moreover, you can select the appropriate RAID level (from RAID levels 0, 1, 3, 5, and 10) to match an application or suit particular needs, helping you to extend and leverage investments now and in the future.

Storage management

IBM FAST Storage Manager 8.0 offers FlashCopy, Dynamic Volume Expansion, and Remote Mirroring. These functions can be an important part of your data availability and protection strategy.

- *FlashCopy tool is designed to create a lightning-fast, single-point-in-time copy of all stored data and to support uninterrupted performance of normal SAN operations.*
- *Dynamic Volume Expansion resizes logical volumes, typically without interruption of other logical volumes.*
- *Remote Mirroring creates a mirror of volume across the Fibre Channel fabric between primary and backup FAST700 Storage Servers.*

IBM FASt700 Storage Server at a glance

Model	1742-1RU
RAID controller	Dual active RAID controllers
Controller cache	Total of 2GB, battery-backed
Host interface	Fibre Channel (FC) Switched and FC Arbitrated Loop (FC-AL)
Connectivity	4 standard, up to 8 via additional mini-hubs
Drive interface	FC-AL
Supported drives	18.2, 36.4, and 73.4GB 10,000 18.2GB: 15,000
RAID levels	0, 1, 3, 5, 10
Storage partitioning	Up to 64
Maximum drives supported	220
Fans and power supplies	Dual redundant, hot swappable
Rack support	IBM 2101-200, Netfinity® Enterprise Rack
Management software	IBM FAStT Storage Manager (version 8.0)
Supported operating systems and servers	Windows NT®, Windows® 2000, Red Hat Linux®, Novell® NetWare® For the most recent list, please visit: ibm.com/storage/fast700
FC switch support FC hub support	IBM TotalStorage SAN Switch 2109 S08/S16/F16 IBM TotalStorage Managed Hub (3534)
Dimensions	174.5mm H x 444.5mm W x 609.6mm D (6.87 in x 18 in x 24 in)
Weight	38.6 kg. (85 lbs.)

IBM FAStT EXP Expansion Unit

Number of drives supported	Up to 10 FC drives (18.2, 36.4, 73.4GB)
Fans and power supplies	Dual redundant, hot swappable
Dimensions	131.88mm H x 480mm W x 575mm D (5.2 in x 18.9 in x 22.63 in)

FAStT Storage Manager 8.0 is also designed to set partitions, configure servers and drives, monitor storage hardware, and troubleshoot either locally or remotely.

Protect information investment with high availability

High availability is critical in today's knowledge-based economy. The TotalStorage FAStT700 Storage Server is designed to be highly available, providing protection against component failures. Dual hot-swap RAID controllers help provide high throughput and redundancy,

and each controller supports 1 GB of battery-backed cache. Redundant fans, power supplies, and dynamic storage management further contribute to high availability to help reduce the risk of costly downtime or the loss of valuable data.

Save resources for core competencies

FAStT Storage Manager is an open tool that lets you manage multiple FAStT700 systems from a single console. Controlling your whole environment from one location helps to best employ in-house resources, releasing IT staff to focus on core competencies.

For more information

To learn more about IBM TotalStorage FAStT700 Storage Server or IBM Storage Systems Group, contact your IBM representative, IBM Business Partner, or visit ibm.com/storage/fast700



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