**IBM**

# IBM TotalStorage™ FAStT700 Storage Server

### Highlights

■ *2 Gbps technology offers faster 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 FAStT700 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 FAStT family—the FAStT700 Storage Server and the EXP700 Expansion Unit—use today's most sophisticated Fibre Channel technology, which transfers data at the rate of 2Gbps. 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 FAStT700 is a scalable storage server designed to allow you to build on your initial investment. Simply upgrade—not replace—as your needs increase. The FAStT700 scales from 36GB to greater than 32TB[1] of storage using 16 FAStT EXP700 expansion enclosures. Each expansion enclosure supports up to fourteen 2Gbps 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 FAStT Storage Manager 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 FAStT700 Storage Servers.*

## IBM FAStT700 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 | 36.4GB, 73.4GB and 146.8GB 10,000 rpm (2Gbps FC)<br>18.2GB, 36.4GB and 73.4GB 15,000 rpm (2Gbps FC) |
| RAID levels | 0, 1, 3, 5, 10 |
| Storage partitioning | Up to 64 |
| Maximum drives supported | 224 (via 16 EXP700) |
| Fans and power supplies | Dual redundant, hot swappable |
| Rack support | 19 inch industry-standard rack |
| Management software | IBM FAStT Storage Manager (version 8.21) |
| Supported operating systems and servers | For the most recent list, please visit: ibm.com/storage/fast700 |
| FC switch support<br>FC hub support | For the most recent list, visit www.ibm.com/storage/fast700 |
| Dimensions | 174.5mm H x 444.5mm W x 609.6mm D<br>(6.87 in x 18 in x 24 in) |
| Weight | 38.6 kg. (85 lbs.) |

### IBM FAStT EXP700 Expansion Unit

| | |
|---|---|
| Model | 1740-1RU |
| Number of drives supported | Up to 14 FC drives (18.2GB, 36.4GB, 73.4GB or 146.8GB) |
| Fans and power supplies | Dual redundant, hot swappable |
| Dimensions<br>Height<br>Depth<br>Width<br>Bezel thickness | **With Bezel**<br>13.23cm (5.21 in.)<br>59.74cm (23.52 in.)<br>48.18cm (18.97 in.)<br>3.63cm (1.43 in.) |

FAStT Storage Manager 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 support high availability, providing protection against component failures. Dual hot-swap RAID controllers help provide high throughput and redundancy, and each controller supports 1GB of battery-backed cache. Redundant fans, power supplies, and dynamic storage management further support 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 Systems Group, contact your IBM representative, IBM Business Partner, or visit ibm.com/totalstorage/fast700

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