

IBM TotalStorage FAST200 Storage Server



Highlights

- *Designed to provide an affordable RAID storage solution for workgroup and departmental servers*
- *With the High Availability (HA) model, supports transparent failover with dual-active RAID controllers*
- *Integrates Fibre Channel technology—from host attachment to disk drives*
- *Provides a wide range of data protection options with RAID levels 0, 1, 3, 5 and 10*
- *Helps support continuous availability with redundant, hot-swappable components*
- *Scales from 18GB to 1.47TB¹ in a compact 3U size with a maximum system capacity of 9.6TB*
- *Offers FlashCopy™ to help provide fast data duplication*

A cost-effective storage solution

The IBM® TotalStorage® FAST200 Storage Server is designed to provide flexible, affordable storage. The FAST200 is designed for workgroup and departmental servers that require an external storage solution. The single controller model provides a cost-effective solution, while the FAST200 HA model features a highly redundant configuration with dual-active controllers.

SAN-ready design

The FAST200 features Fibre Channel host attachment with Fibre Channel drives. The FAST200 HA model provides dual Fibre Channel host attachment with an aggregate bandwidth of up to 166MB/s. By connecting the FAST200 to an IBM SAN Fibre Channel switch or hub, you can enable data transfer at distances over several kilometers.

Compact, flexible configuration

As a rack-mounted solution, the FAStT200 can support up to 10 Fibre Channel hard disk drives internally in a 3U (EIA units) space. It supports 18.2GB, 36.4GB, 73.4GB and 146.8GB 10,000 rpm drives and 18.2GB, 36.4GB and 73.4GB 15,000 rpm drives. The attachment of five FAStT200 EXP500 Expansion Units (containing up to 50 drives) increases storage capacity to more than 8.8TB. FAStT200 also supports the new EXP700 Expansion Unit. Up to 4 EXP700s can be attached to a FAStT200HA raising the maximum capacity to 9.68TB.

Redundancy for higher availability

The FAStT200 supports high availability by utilizing redundant, hot-swappable components such as power supplies and fans. The FAStT200 HA model features dual-active RAID controllers with transparent failover support to further increase availability. With multiple RAID levels (0, 1, 3, 5 and 10), the FAStT200 can help protect valuable data and keep business-critical applications up and running.

With the FAStT200, you can further increase the availability of your servers by using Microsoft® Cluster Service (MCS) and IBM Netfinity® Availability Extensions for MCS. For supported MCS configurations, visit [**ibm.com/totalstorage/fast200**](http://ibm.com/totalstorage/fast200).

Dynamic storage management

The IBM FAStT Storage Manager is a network-based, integrated storage management tool that enables administrators to configure, monitor, dynamically change and manage multiple FAStT200 Storage Servers from a single Microsoft Windows® 95, Windows 2000 or Windows NT®, HP-UX, Sun™ Solaris™ operating environment or Linux® workstation. The software provides remote management capabilities and the ability to share storage resources among servers through storage partitioning.

The FAStT Storage Manager supports up to 128 LUNs. The FAStT200 supports up to 16 storage partitions. FlashCopy provides fast data duplication capability, reducing or eliminating the need for long shutdowns during backups and restores.

IBM TotalStorage FAST200 Storage Server at a glance

Model	3542-1RU and -2RU
RAID controller	Single controller (model 1RU) and dual controller HA model (model 2RU)
Controller cache	128MB per controller (256MB total for a dual controller)
Battery backup for cache	Yes
Host interface	Fibre Channel Arbitrated Loop (FC-AL), Fibre Channel Switched Fabric, Fibre Channel Point-to-Point
Host ports	1 per controller (2 total for a dual controller)
Drive interface	Fibre Channel Arbitrated Loop (FC-AL)
Supported drives	18.2GB, 36.4GB, 73.4GB and 146.8GB 10,000 rpm; 18.2GB, 36.4GB and 73.4GB 15,000 rpm
RAID levels	0, 1, 3, 5 and 10
Storage partitions	Up to 16
Number of drives per enclosure	10
Maximum drives supported	66 (10 with the FAST200 Storage Server and 50 with IBM FAST EXP500 or 56 with EXP700)
Power supplies and fans	Dual redundant hot-pluggable standard
Rack support	Industry-standard 19-inch rack
Supported servers	For the most recent list, visit www.ibm.com/storage/fast200
Supported operating systems	For the most recent list, visit www.ibm.com/storage/fast200
Management software	IBM FAST Storage Manager
Host adapter	IBM FAST Host Adapter; For the most recent list, visit www.ibm.com/storage/fast200
Fibre Channel switch support	For the most recent list, visit www.ibm.com/storage/fast200
Fibre Channel hub support	IBM 3534 Managed Fibre Channel hub
Dimensions	131.8mm H x 480mm W x 575mm D (5.20 in. x 18.90 in. x 22.63 in.)

IBM FAST EXP500 Expansion Unit

Number of drives supported	Up to 10 Fibre Channel drives (18.2GB, 36.4GB, 73.4GB or 146.8GB)
Power supplies and fans	Dual redundant, hot-pluggable
Dimensions	131.8mm H x 480mm W x 575mm D (5.20 in. x 18.90 in. x 22.63 in.)

IBM FAST EXP700 Expansion Unit

Number of drives supported	Up to 14 drives—2Gbps FC (18.2GB, 36.4GB, 73.4GB or 146.8GB)
Power supplies and fans	Dual redundant, hot-pluggable
Dimensions	With Bezel
Height	13.23cm (5.21 in.)
Depth	59.74cm (23.52 in.)
Width	48.18cm (18.97 in.)
Bezel thickness	3.63cm (1.43 in.)

For more information

Please contact your IBM representative or an IBM Business Partner, or call 1-800 IBM CALL within the U.S. Also, visit our Web site at **ibm.com/totalstorage**.



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IBM Systems Group
5600 Cottle Road
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GB equals one billion bytes when referring to hard drive capacity; accessible capacity may be less.

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¹ Actual usable capacity will vary based on RAID