

*Easy, scalable, flexible and affordable external storage solution for small and medium businesses*



## IBM System Storage DS3200



One clear message heard from small and medium businesses is that their data is as valuable to their organizations as data is to the enterprise customer. In fact, small businesses are experiencing even faster data growth and are discovering that their storage and data protection requirements have more similarities than differences, relative to large enterprises.

---

### Highlights

---

- **3 Gbps Serial Attached SCSI (SAS) interface technology**
- **Easy to deploy and manage with the DS3000 Storage Manager**
- **Scalable to 3.6TB of storage capacity with 300GB hot-swappable SAS disks**
- **Expandable by attaching up to three EXP3000s, a total of 14.4TB of storage capacity**
- **Affordable for the small and medium business budgets**

Small businesses can take an overburdened internal storage infrastructure to a new level by using the flexible and affordable IBM System Storage™ DS3200 storage system. By moving storage outside the server, small businesses can increase the capacity and reliability of the data solution well beyond the initial storage investment.

**Easy to deploy and manage**

With many small business IT departments having one or a part-time administrator and limited time to spend on data management, the DS3200 can be easily installed without extensive knowledge or effort.

The DS3000 Storage Manager software was designed for easy implementation for an unseasoned administrator. The task-oriented management interface of the DS3000 Storage Manager presents tasks to the administrator first and then asks which object to perform the task on. This contrasts to an object-oriented interface of a typical system in which the object is first selected, then the task, and requires a higher depth of storage networking expertise. The DS3000 Storage Manager approach enables even non-Storage administrators to quickly set up and deploy the

storage solution. The management application's task-oriented interface removes the resistance that many organizations have with their limited in-house expertise.

**Expand with multiple EXP3000s**

The scalability of the DS3200 allows IT managers to respond to their constantly changing storage environment. By starting small, the DS3200 allows users to make additional investments in their infrastructure only when their data growth necessitates it; thus organizations can easily increase capacity and storage capabilities with minimal cost and effort. The DS3200 capacity is increased by either adding hard disk drives or by expanding the configuration and adding EXP3000 expansion units. Both these operations can be done without having to shut down the

DS3200. This means "zero-impact" to your environment and gives users control of their data storage as they expand capacity on an as-needed basis.

**Flexible approach to storage**

The DS3200 is a comprehensive storage solution for IBM System x™ and select third-party servers. This flexibility allows you to break free of server barriers and use a single storage solution in a mixed vendor environment.

**Priced right for small business**

With the functionality and availability features that come standard and a price-point that does not strain the budget, the DS3200 is the simple choice for the small and medium businesses. Other storage products require the purchase of expensive options for basic storage configurations. The DS3200 is an out-of-the-box solution that will satisfy the majority of storage needs.

## IBM System Storage DS3200 at a glance

<b>Models</b>	1726-21X—single controller 1726-22X—dual controller
<b>RAID controller</b>	Dual active
<b>Cache</b>	512MB battery-backed
<b>Host interface</b>	2 host ports per controller, Serial Attached SCSI (SAS) 3 Gbps
<b>Drive interface</b>	Serial Attached SCSI (SAS)
<b>Supported drives</b>	Supports 3 Gbps SAS drives at 10,000rpm and 15,000rpm speeds
<b>RAID levels</b>	RAID-0, -1, -3, -5, -10
<b>Storage partitions</b>	4, 16
<b>Maximum drives supported</b>	48 SAS drives (using three EXP3000 Expansion Units)
<b>Fans and power supplies</b>	Dual-redundant, hot-swappable
<b>Rack support</b>	19" industry-standard rack
<b>Management software</b>	IBM System Storage DS3000 Storage Manager
<b>Warranty<sup>1</sup></b>	Three-year parts and labor
<b>Dimensions</b>	Height – 8.7 cm (3.4 inches); Width – 44.7 cm (17.6 inches); Depth – 55.0 cm (21.6 inches); Weight: approximately 36.6 kg (16.6 lbs) for a standard unit; when fully configured, 27.2 kg (60 lbs)
<b>Environment</b>	Air temperature: DS3200 on: 10° to 35°C (50.0° to 95°F); altitude: 30.5 (100 ft) below to 3000 m (9840 ft) above sea level; temperature change: 10°C (18°F) per hour – DS3200 off: 10° to 50°C (14.0° to 120.0°F); maximum altitude: 3000 m (9840 ft); temperature change: 15°C (27.0°F) per hour; Humidity: – DS3200 on: 20% to 80% – DS3200 off: 10% to 90% – Maximum dew point: 26°C (79°F) – Maximum humidity gradient: 10% per hour
<b>Heat output</b>	Approximate heat output in British thermal units (Btu) per hour: minimum configuration: 205 Btu (60W); maximum configuration 1235 Btu (361W)
<b>Supported systems</b>	For a list of currently supported servers, operating systems, host bus adapters, clustering applications, SAN switches and directors, refer to the DS3000 series Interoperability matrix available at <a href="http://ibm.com/storage/disk/DS3000/DS3200">ibm.com/storage/disk/DS3000/DS3200</a>

## For more information

Contact your IBM representative or IBM Business Partner or visit:

- [ibm.com/systems/storage/disk](http://ibm.com/systems/storage/disk)
- [ibm.com/systems/x](http://ibm.com/systems/x)
- [ibm.com/systems/bladecenter](http://ibm.com/systems/bladecenter)



© IBM Systems and Technology Group  
Route 100  
Somers, NY 10589

Produced in the United States of America  
January 2007  
All Rights Reserved

This publication could include technical inaccuracies or typographical errors. This publication was produced in the United States. IBM may not offer the products, services or features discussed in this document in other countries, and the information may be subject to change without notice. Consult your local IBM business contact for information on the product or services available in your area.

All statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only.

Information about non-IBM products is obtained from the manufacturers of those products or their published announcements. IBM has not tested those products and cannot confirm the performance, compatibility, or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

IBM, the IBM logo, ClusterProven, ServerProven, System Storage and System x are trademarks or registered trademarks of IBM Corporation in the United States, other countries or both. Visit [ibm.com/legal/copytrade.shtml](http://ibm.com/legal/copytrade.shtml) for a list of additional IBM trademarks.

Other company, product and service names may be trademarks or service marks of others.

MB, GB, and TB = 1,000,000, 1,000,000,000 and 1,000,000,000,000 bytes, respectively, when referring to storage capacity. Accessible capacity is less; up to 3GB is used in service partition. 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. Maximum internal hard disk and memory capacities may require the replacement of any standard hard drives and/or memory and the population of all hard disk bays and memory slots with the largest currently supported drives available.

<sup>1</sup> IBM hardware products are made from new parts, or new and serviceable used parts. Regardless, our warranty terms apply. For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC 27709, Attn: Dept. JDJA/B203. IBM makes no representation or warranty regarding third-party products or services including those designated as ServerProven® or ClusterProven®.