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

IBM System Storage DS3400

As businesses mature, so does the amount of data and the value it holds within the organization. If the data is distributed across servers and individual storage systems, the business will face increased cost, complexity and the accompanying business risks.

The IBM System Storage™ DS3400 leads the way for these organizations to take advantage of consolidating and sharing this data within a direct-attach or SAN solution. The DS3400 offers the opportunity to meet the demands of data expansion, data availability and flexibility in a simple, affordable disk system.

Select configurations of the DS3400 are part of the IBM Express Portfolio™, designed and priced to meet the needs of mid-sized businesses. The Express models combine the DS3400 storage system with the Fibre Channel cables and SFP Transceivers to help you get started with storage quickly.

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**Highlights**

- **4 Gbps Fibre Channel interface technology**
- **Expandable by attaching up to three EXP3000s, a total of 14.4 TB of storage capacity**
- **Easy to deploy and manage with the DS3000 Storage Manager**
- **Flexible for use with IBM System x™ and BladeCenter® servers**
- **Scalable to 3.6 TB of storage capacity with 300 GB hot-swappable SAS disks**
- **Affordable for the small and medium business budgets**
Easy to deploy and manage
With the majority of small business IT departments having one or a part-time administrator and limited time to spend on data management, the DS3400 can be easily installed without extensive knowledge or effort.

The DS3000 Storage Manager software was designed for simple implementation by an unseasoned administrator. The task-oriented management interface of the DS3000 Storage Manager presents tasks to the administrator first, and then asks on which object to perform the task. This contrasts with an object-oriented interface of a typical system in which the object is first selected, and 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 DS3400 allows IT managers to respond to a constantly changing storage environment. By starting small, the DS3400 allows users to make additional investments in their infrastructure when data growth necessitates it; thus organizations can easily increase capacity and storage capabilities with minimal cost and effort. The DS3400 capacity is increased by adding hard disk drives or by expanding the configuration and adding EXP3000 expansion units. Both these operations can be done without shutting down the DS3400. This means “zero-impact” to your environment and gives the user control of data storage as they expand capacity on an as-needed basis.

Flexible approach to storage
The DS3400 is a comprehensive storage solution for IBM System x, BladeCenter 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. And because you do not have to sacrifice functionality for affordability, the DS3400 disk storage system can deliver powerful dynamic capabilities that help you protect data. The disk storage system enables copy and disaster recovery features such as FlashCopy® and VolumeCopy that can be enabled when required by your application.

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 DS3400 is the simple choice for small and medium businesses. Other storage products require the purchase of expensive options for basic storage configurations. The DS3400 is an out-of-the-box solution that will satisfy the majority of storage needs.
# IBM System Storage DS3400 at a glance

| Models          | 1726-41X—single controller  
|                | 1726-42X—dual controller  
|                | 1726-41E—single controller Express  
|                | 1726-42E—dual controller Express  
| RAID controller| Dual active  
| Cache per controller | 512 MB battery-backed cache with 1 GB upgrade option  
| Host interface| 2 host ports per controller, Fibre Channel (FC) 4 Gbps auto-sensing 1 Gbps/2 Gbps  
| Drive interface| Serial Attached SCSI (SAS)  
| Supported drives| Supports 3 Gbps SAS drives at 10,000 rpm and 15,000 rpm speeds  
| RAID levels| RAID-0, -1, -3, -5, -10  
| Storage partitions| 2, 4, 16  
| Maximum drives supported| 48 SAS drives (using three EXP3000 Expansion Units)  
| Fans and power supplies| Dual-redundant, hot-swappable  
| Rack support| 19" industry-standard rack  
| Management software| IBM System Storage DS3000 Storage Manager  
| SAN support| Supported IBM FC switches  
| Warranty| Three-year parts and labor warranty  
| Size|  

| Height: 8.7 cm (3.4 in.)  
| Depth: 55.0 cm (21.6 in.)  
| Width: 44.7 cm (17.6 in.)  
| Weight: approximately 17.2 kg (38.0 lb) for a standard unit; when fully configured, 29.2 kg (64.5 lb)  
| Environment| Air temperature:  

| – DS3400 on: 10°C to 35°C (50.0°F 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  
| – DS3400 off: 10°C to 50°C (14.0°F to 120.0°F); maximum altitude: 3000 m (9840 ft); temperature change: 15°C (27.0°F) per hour  
| Humidity:  
| – DS3400 on: 20% to 80%  
| – DS3400 off: 10% to 90%  
| – Maximum dew point: 26°C (79°F)  
| – Maximum humidity gradient: 10% per hour  
| Heat output| Approximate heat output in British thermal units (Btu) per hour:  

| – Minimum configuration: 205 Btu (60 watts)  
| – Maximum configuration 1235 Btu (361 watts)  
| Supported systems| 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 [ibm.com/systems/storage/disk/ds3000/ds3400/](http://ibm.com/systems/storage/disk/ds3000/ds3400/) |