IBM Storwize V3700

Easy-to-use, affordable storage offering advanced capabilities for small and medium businesses

Highlights

- Easily managed and deployed system with embedded graphical user interface based on the IBM® Storwize® interface design
- Experience rapid, flexible provisioning and simple configuration changes with internal virtualization and thin provisioning
- Have continuous access to data with integrated nondisruptive migration
- Protect data with sophisticated remote mirroring and integrated IBM FlashCopy® technology
- Benefit from advanced functionality and reliability usually only found in more expensive systems

Organizations of all sizes are faced with the challenge of managing massive volumes of increasingly valuable data. But storing this data can be costly, and extracting value from the data is becoming more and more difficult. IT organizations have limited resources but need to stay responsive to dynamic environments and act quickly to consolidate, simplify and optimize their IT infrastructures. The new IBM Storwize V3700 system provides a smarter solution that is affordable, easy to use and self-optimizing, enabling organizations to overcome these storage challenges.

Storwize V3700, the most recent addition to the IBM Storwize family of disk systems, delivers efficient, entry-level configurations specifically designed to meet the needs of small and midsize businesses. Designed to provide organizations with the ability to consolidate and share data at an affordable price, Storwize V3700 offers advanced software capabilities usually found in more expensive systems.

Built upon innovative IBM technology, Storwize V3700 addresses the block storage requirements of small and midsize organizations. Providing up to 120 drives of capacity packaged in a compact 2U, Storwize V3700 is designed to accommodate the most common storage network technologies to enable easy implementation and management.

Storwize V3700 leverages proven Storwize functions, management and interoperability, including:

- Innovative and easy-to-use management capabilities
- Virtualization of internal storage and thin provisioning for improved storage utilization
- FlashCopy to create instant copies of data for backup or application testing
- One-way data migration to easily move data onto Storwize V3700
- Storwize family OpenStack Nova volume driver to help automate storage provisioning and volume management for enterprises by combining the efficiency of Storwize V3700 with the OpenStack open source cloud platform

Efficient by design

- Intuitive user interface based on the breakthrough Storwize family user interface
- Internal virtualization helps users quickly respond to changing requirements
- Integrated FlashCopy protects data without wasting space

Self-optimizing

- Optimized performance through cost-effective deployment of solid-state drives (SSDs) with IBM System Storage® Easy Tier® technology[1]
- High performance in an entry system
- Thin provisioning to save space while maintaining performance

Cloud-agile

- Start small and grow easily
- Nondisruptive migration is included in base price
- Built-in support for OpenStack compute cloud environments

IBM Storwize V3700 disk system at a glance	
Host interface	1 Gbps iSCSI (optional 8 Gb Fibre Channel or 10 Gbps iSCSI/Fibre Channel over Ethernet host ports)
User interface	Storwize V3700 graphical user interface
Single/dual controller	Dual controller
Cache per controller	4 GB upgradable to 8 GB
Drive type	Dual-port, hot-swappable 6 Gb SAS disk drives
Supported drives	Small form-factor (SFF) 2.5-inch disk drives: • 146 GB, 300 GB at 15k rpm • 300 GB, 600 GB and 900 GB at 10k rpm • 500 GB, 1 TB at 7.2k rpm SAS nearline Large form-factor (LFF) 3.5-inch disk drives: • 2 TB and 3 TB at 7.2k rpm SSD drives: • 200 GB and 400 GB
Maximum drives supported	• SFF enclosure: 24 x 2.5-inch drives • LFF enclosure: 12 x 3.5-inch drives
RAID levels	RAID 0, 1, 5, 6 and 10

IBM Storwize V3700 disk system at a glance	
Fans and power supplies	Fully redundant, hot-swappable
Rack support	Standard 19-inch rack-mount enclosure§
Management software	Storwize V3700 machine code
Advanced features included with each system	Internal virtualization, thin provisioning, one-way data migration and FlashCopy (up to 64 targets)
Optional advanced features*	FlashCopy upgrade and Easy Tier
Warranty	• 3-year limited warranty • Customer-replaceable units • On-site service • Next business day 9x5 • Service upgrades available†
Size	Storwize V3700 LFF control enclosure • Height: 8.7 cm (3.4 in.) • Width: 48.3 cm (19.0 in.) • Depth: 55.6 cm (21.9 in.) Approximate weight: – Empty: 18.0 kg (39.6 lb) – Fully configured: 28.3 kg (62.2 lb) – Storwize V3700 SFF control enclosure • Height: 8.7 cm (3.4 in.) • Width: 48.3 cm (19.0 in.) • Depth: 55.6 cm (21.9 in.) Approximate weight: – Empty: 19.0 kg (41.8 lb) – Fully configured: 27.3 kg (60.0 lb)
Operating environment	Air temperature: • Operating: 10°C – 35°C (50°F – 95°F) at 30.5 m below to 3,000 m above sea level (100 below to 9,840 ft above) • Non-operating: -10°C – 50°C (14°F – 125°F) Relative humidity: • Operating: 20% – 80% • Non-operating: 10% – 90% Electrical power: • Voltage range: 100 – 240 V ac • Frequency: 50 – 60 Hz Power: – LFF control enclosure: 358 watts – SFF control enclosure: 405 watts
Heat dissipation (BTU per hour)	LFF control enclosure: 1,222 SFF control enclosure: 1,383
Supported systems	For a list of currently supported servers, operating systems, host bus adapters, clustering applications and SAN switches and directors, refer to the System Storage Interoperation Center at: **ibm.com**/systems/support/storage/config/ssic
ISV solutions	For a list of high-quality solutions with our partner ISVs, including access to solution briefs and white papers, refer to the ISV Solutions Resource Library.

Leverage proven ISV solutions

IBM is committed to the continuous improvement and seamless application integration of IBM disk systems to optimize your business results and time-to-value. IBM commitment is visible through ongoing work and enduring partnerships with independent software vendors (ISVs) such as Microsoft, Oracle, SAP, Symantec and VMware.

Combining Storwize V3700 with leading ISV applications can provide increased flexibility and deliver a robust information infrastructure for your organization. Solutions have been qualified for applications on key areas, including backup and restore, high availability, server virtualization, and database and performance optimization. IBM is committed to certifications with key ISVs aligned with various industries including healthcare, financial services, telecommunications and the public sector.

Why IBM?

The Storwize family of products from IBM, a recognized leader in the storage industry, is known for providing efficiency and high-performance storage for any type of workload. IBM System Storage offerings, customized for small and mid-size organizations, are specifically designed to deliver performance in streamlined packages that are easy to buy, deploy and manage.

For more information

To learn more about the IBM Storwize V3700 disk system, please contact your IBM representative or IBM Business Partner, or visit the following website: **ibm.com**/systems/storage/disk/storwize_v3700

Additionally, IBM Global Financing can help you acquire the IT solutions that your business needs in the most cost-effective and strategic way possible. We'll partner with credit-qualified clients to customize an IT financing solution to suit your business goals, enable effective cash management, and improve your total cost of ownership. IBM Global Financing is your smartest choice to fund critical IT investments and propel your business forward. For more information, visit: **ibm.com**/financing

© Copyright IBM Corporation 2012

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

Produced in the United States of America
November 2012

IBM, the IBM logo, ibm.com, System Storage, Storwize, Easy Tier, and FlashCopy are trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the web at "Copyright and trademark information" at **ibm.com**/legal/copytrade.shtml

This document is current as of the initial date of publication and may be changed by IBM at any time. Not all offerings are available in every country in which IBM operates.

The performance data discussed herein is presented as derived under specific operating conditions. Actual results may vary.

THE INFORMATION IN THIS DOCUMENT IS PROVIDED "AS IS" WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY OR CONDITION OF NON-INFRINGEMENT. IBM products are warranted according to the terms and conditions of the agreements under which they are provided.

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

Actual available storage capacity may be reported for both uncompressed and compressed data and will vary and may be less than stated.

[1] Statement of direction. IBM plans subject to change

§ To assure installability and serviceability in non-IBM industry-standard racks, review the Storwize V3700 publications for any product-specific installation requirements.

* Statement of direction. IBM plans subject to change.

† Warranty service upgrades via IBM ServicePac® and maintenance agreements

Please Recycle

TSD03157-USEN-03