



## IBM Storwize V3700

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

### Highlights

- Easily manage and deploy this system using the 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
- Optimize costs for mixed workloads, with up to three times performance improvement with only five percent flash storage capacity using IBM System Storage® Easy Tier®<sup>1</sup>

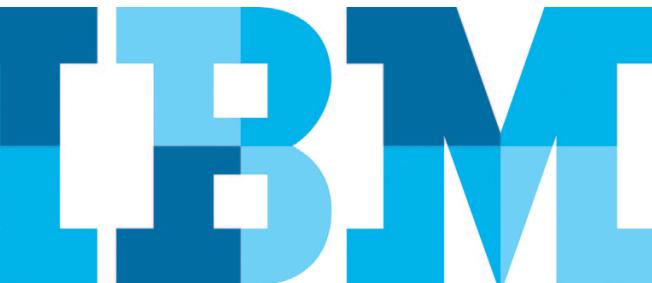
Organizations of all sizes have the opportunity to use today's massive volumes of data to transform the way they do business. But storing this valuable data can be expensive at a time when controlling costs remains a priority. IT organizations have limited resources but need to stay responsive to dynamic environments and act quickly to consolidate, simplify and optimize their IT infrastructures. The IBM Storwize family is designed to deliver what they need from their storage systems, but more efficiently than ever before. Offered in a wide range of storage systems, the Storwize family delivers sophisticated capabilities that are proven, efficient and dependable.

IBM Storwize V3700, the entry-level system of the Storwize family, 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 height, 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



- Remote replication functions to create exact copies of data at remote locations
- System Storage Easy Tier technology to optimize use of flash and deliver better performance
- 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

As part of the efficient, automated and intelligent IBM Smarter Storage approach to storage, the Storwize V3700 is:

#### **Efficient by design**

- Intuitive user interface is based on the breakthrough Storwize family user interface.
- Internal virtualization helps users quickly respond to changing requirements.
- Integrated FlashCopy protects data without wasting space.
- Remote Mirror helps create copies of data at remote locations for disaster recovery.



#### **Self-optimizing**

- This entry-level system delivers high performance.
- Performance is optimized through the cost-effective deployment of flash storage with Easy Tier technology.
- Thin provisioning saves space while maintaining performance.

#### **Cloud-agile**

- With Storwize V3700 you can start small and grow easily.
- Nondisruptive migration is included in base price.
- Support for OpenStack compute cloud environments is built in.

#### **IBM Storwize V3700 disk system at a glance**

<b>Host interface</b>	1 Gbps iSCSI and 6 Gbps SAS (optional 8 Gb Fibre Channel, 10 Gbps iSCSI/Fibre Channel over Ethernet host ports, 6 Gbps SAS 4-port host interface card)
<b>User interface</b>	Storwize V3700 graphical user interface
<b>Single/dual controller</b>	Dual controller
<b>Cache per controller</b>	4 GB upgradable to 8 GB
<b>Drive type</b>	Dual-port, hot-swappable 6 Gb SAS disk drives
<b>Supported drives</b>	<p>Small form-factor (SFF) 2.5-inch disk drives:</p> <ul style="list-style-type: none"><li>• 146 GB, 300 GB at 15k rpm</li><li>• 300 GB, 600 GB, 900 GB and 1.2 TB at 10k rpm</li><li>• 500 GB, 1 TB at 7.2k rpm SAS nearline</li></ul> <p>Large form-factor (LFF) 3.5-inch disk drives:</p> <ul style="list-style-type: none"><li>• 2 TB, 3 TB and 4 TB* at 7.2k rpm</li><li>• 900 GB and 1.2 TB at 10k rpm</li><li>• 300 GB at 15k rpm</li></ul> <p>SSD drives:</p> <ul style="list-style-type: none"><li>• 200 GB and 400 GB</li></ul>

**IBM Storwize V3700 disk system at a glance**

<b>Maximum drives supported</b>	<ul style="list-style-type: none"> <li>• SFF enclosure: 24 x 2.5-inch drives</li> <li>• LFF enclosure: 12 x 3.5-inch drives</li> </ul>
<b>RAID levels</b>	RAID 0, 1, 5, 6 and 10
<b>Fans and power supplies</b>	Fully redundant, hot-swappable
<b>Rack support</b>	Standard 19-inch rack-mount enclosure <sup>†</sup>
<b>Management software</b>	Storwize V3700 machine code
<b>Advanced functions included with each system</b>	Internal virtualization, thin provisioning, one-way data migration and FlashCopy (up to 64 targets)
<b>Optional licensed functions</b>	FlashCopy upgrade (up to 2,040 targets), Easy Tier, Remote Mirror and turbo performance
<b>Warranty</b>	<ul style="list-style-type: none"> <li>• 3-year limited warranty</li> <li>• Customer-replaceable units</li> <li>• On-site service</li> <li>• Next-business-day 9x5</li> <li>• Service upgrades available<sup>‡</sup></li> </ul>
<b>Size</b>	<p>Storwize V3700 LFF control enclosure:</p> <ul style="list-style-type: none"> <li>• Height: 8.7 cm (3.4 in.)</li> <li>• Width: 48.3 cm (19.0 in.)</li> <li>• Depth: 55.6 cm (21.9 in.)</li> <li>• Approximate weight: <ul style="list-style-type: none"> <li>– Empty: 18.0 kg (39.6 lb)</li> <li>– Fully configured: 28.3 kg (62.2 lb)</li> </ul> </li> </ul> <p>Storwize V3700 SFF control enclosure:</p> <ul style="list-style-type: none"> <li>• Height: 8.7 cm (3.4 in.)</li> <li>• Width: 48.3 cm (19.0 in.)</li> <li>• Depth: 55.6 cm (21.9 in.)</li> <li>• Approximate weight: <ul style="list-style-type: none"> <li>– Empty: 19.0 kg (41.8 lb)</li> <li>– Fully configured: 27.3 kg (60.0 lb)</li> </ul> </li> </ul>
<b>Operating environment</b>	<p>Air temperature:</p> <ul style="list-style-type: none"> <li>• 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)</li> <li>• Non-operating: -10°C – 50°C (14°F – 125°F)</li> </ul> <p>Relative humidity:</p> <ul style="list-style-type: none"> <li>• Operating: 20% – 80%</li> <li>• Non-operating: 10% – 90%</li> </ul> <p>Electrical power:</p> <ul style="list-style-type: none"> <li>• Voltage range: 100 – 240 V ac</li> <li>• Frequency: 50 – 60 Hz</li> </ul> <p>Power:</p> <ul style="list-style-type: none"> <li>• LFF control enclosure: 358 watts</li> <li>• SFF control enclosure: 405 watts</li> </ul>
<b>Heat dissipation (BTU per hour)</b>	LFF control enclosure: 1,222 SFF control enclosure: 1,383
<b>Supported systems</b>	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: <a href="http://ibm.com/systems/support/storage/config/ssic">ibm.com/systems/support/storage/config/ssic</a>
<b>ISV solutions</b>	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. The 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 in 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](http://ibm.com/systems/storage/disk/storwize_v3700)



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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.

\* Statement of direction: IBM plans to make 4 TB disk drives available for Storwize V3700 in the future. IBM plans subject to change.

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

‡ Warranty service upgrades via IBM ServicePac® and maintenance agreements.

<sup>1</sup> IBM laboratory measurements

