

High Performance  
RAID Storage  
for Data Intensive  
Applications

#### SYSTEM HIGHLIGHTS

Balance Performance

Multi-dimensional  
Adaptability

Increased Connectivity

Robust Data Protection

## SGI® InfiniteStorage 4600-SP



### High Performance RAID Storage for Data-Intensive Applications and Large Consolidations

Success often depends on the speed at which data can be acquired, processed and retrieved, especially when addressing the needs of core business applications.

The flagship of SGI's storage system product line, the SGI InfiniteStorage 4600-SP (IS4600) delivers breakthrough performance, capacity and scalability to support the escalating storage and I/O demands of today's database-driven applications and large-scale consolidation/virtualization environments.

Part of a proven architecture built on more than 25 years of storage expertise, the IS4600-SP is comfortable supporting the most demanding service level agreements (SLA). Its industry-leading performance is equally adept at supporting data-intensive applications and transactional, high I/O workloads. This ability to deliver balanced performance allows the IS4600-SP to easily handle the diverse and concurrent workloads created by consolidation and virtualization implementations.

### Flexibility and Efficiency

As data grows and budgets stay flat, IT managers are looking for ways to lower costs and simplify their infrastructure without sacrificing SLAs. To go along with its relentless performance, the IS4600-SP offers a unique combination of flexibility and efficiency to meet those needs. A range of drive types and enclosures ensures data is stored on the technology that best meets performance, protection and cost requirements. The 16-bay drive tray allows high-performance solid state and Fibre Channel drives, and highcapacity SATA drives, to be intermixed in a single enclosure—providing cost-effective storage

tiering and maximum flexibility. And for environments that store vast amounts of data, the 60-bay drive tray offers tremendous storage density and significant operational savings.

### Protected and Secure

Architected to provide the highest reliability and availability, the IS4600-SP offers redundant components, automated I/O path failover, and extensive online administration capabilities to ensure your data is available 24x7x365. The IS4600-SP ensures stored data is protected as well. Self-encrypting drives secure data at rest with no performance penalty, Proactive Drive Health Monitoring (PDHM) technology identifies faulty drives before they create problems, RAID 6 technology guards against concurrent drive failures and errors, and persistent cache backup ensures any data in cache is capture and safe in the event of a power outage.

### Comprehensive Storage Management

Featuring Java-based enterprise level administration software, IS4600-SP enables enhanced configuration flexibility, custom performance tuning and a variety of replication options. The solution allows continuous access to user data during administrative tasks including expansion and maintenance of the system. Additionally IS4600-SP lowers storage management costs through centralized management of all storage systems, run-anywhere flexibility, a common interface across all operating systems and fully integrated premium features.



# SGI InfiniteStorage 4600-SP

## Configuration Specifications

[www.sgi.com/storage](http://www.sgi.com/storage)

<b>Controller</b>	<b>4600-SP</b>
RAID Controllers	Dual, active
Cache Sizes	8GB (upgrades to 16GB and 32GB available)
Host Interfaces	4Gb FC (16 ports) or 8Gb FC (16 ports), 10Gb iSCSI (8 ports)
Partitions	2 Standard
Current Software Release Level	SANtricity ES Storage Manager 10.77
<b>Controller Features</b>	
RAID Levels	0, 1, 3, 5, 6, 10
Cache backup	Cache destaged to Flash in case of power loss
LUNs	512 LUNs per partition, 2048 total
Global Hot Spare Drives	Unlimited
Power and Cooling	Dual, redundant, hot swappable
Number of Drives Supported	448 in 16-bay Enclosures, 480 in 60-bay Enclosures
<b>Optional Software Features</b>	
Additional Partitions	4, 8, 16, 64, 128, 256, or 512
SnapCopy	4 or 16 Snaps
Volume Copy	Supported
Remote Volume Mirroring	64 or 128 Remote Mirrors
<b>Controller Enclosure Dimensions</b>	
Rack Height	4 U
Height	6.9", 17.5 cm
Width	19", 48.3 cm
Depth	23.5", 59.7 cm
Weight	80.5 lbs., 36.5 kg
<b>16-Bay Drive Enclosure Dimensions</b>	
Drive Size	3.5"
Rack Height	3 U
Height	5.3", 31.1 cm
Width	17.6", 44.7 cm
Depth	23.5", 59.7 cm
Max Weight	56.1 lbs., 25.4 kg
<b>60-Bay Drive Enclosure Dimensions</b>	
Drive Size	3.5"
Rack Height	4 U
Height	7", 17.78 cm
Width	19", 48.26 cm
Depth	32.5", 82.55 cm
Max Weight	232 lbs., 105.2 kg
<b>Rack Dimensions</b>	
Total U	40
Height	78", 198.1 cm
Width	24", 60.9 cm
Depth	40", 101.6 cm
Weight	300 lbs., 135 kg

<b>Drive Options</b>	
SSD	73GB
FC and Self-encrypting FC	300GB 15K RPM 450GB 15K RPM 600GB 15K RPM
SATA	1TB 7200 RPM 2TB 7200 RPM
<b>Supported Operating Systems</b>	
	SLES 10.3, 11.1
	RHEL 5.6, 6.0
	VMware 3.5, 4.1
	Sun Solaris 10
	HP-UX* 11.31 (FC only)
	IBM AIX* 6.1, 7.1 (FC only)
	Windows Server 2003
	Windows Server 2008
	Mac® OS X*
<b>AC Power</b>	
Controller	2.65 max @ 240 VAC (180 to 260 VAC, 50/60 HZ)
16-bay Enclosure	1.97A max @ 240 VAC (180 to 264 VAC, 50/60 HZ)
60-bay Enclosure	7.20A max @ 240 VAC (200 to 240 VAC, 50/60 HZ)
<b>Environment</b>	
Operating Temperature	32°F to 104°F (10°C to 40°C) for 16 bay enclosure 32°F to 95°F (10°C to 35°C) for 60 bay enclosure
Relative Humidity	20% to 80% non-condensing
Altitude	100' below sea level (-30.5m) to 10,000' (3058m)
<b>Optional Host Software</b>	
DMF	Data Lifecycle Management (Archive) policy automation software virtualizes storage devices and automates the migration and archive of digital content throughout a virtual tiered storage pool based upon business policies

\*Failover support by third party suppliers

**Corporate Headquarters**  
46600 Landing Parkway  
Fremont, CA 94538  
tel 510.933.8300  
fax 408.321.0293  
[www.sgi.com](http://www.sgi.com)

**Global Sales and Support**  
North America +1 800.800.7441  
Latin America +55 11.5185.2860  
Europe +44 118.927.8000  
Asia Pacific +61 2.9448.1463