

High Performance  
RAID Storage  
for Data Intensive  
Applications

#### SYSTEM HIGHLIGHTS

Balance Performance  
Multi-dimensional  
Adaptability  
Unparalleled Efficiency  
Robust Data Protection

## SGI® InfiniteStorage IS4600-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 IS4600-SP 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 SGI InfiniteStorage 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 InfiniteStorage 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 SGI InfiniteStorage 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 high-capacity 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 InfiniteStorage 4600-SP offers redundant components, automated I/O path failover, and extensive online administration capabilities to ensure your data is available 24x7x365. The InfiniteStorage 4600-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, SGI InfiniteStorage 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 SGI InfiniteStorage 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 IS4600-SP

## Configuration Specifications

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

<b>Controller</b>	<b>4600</b>
<ul style="list-style-type: none"> <li>RAID Controllers</li> <li>Cache Sizes</li> <li>Host Paths</li> <li>Partitions</li> </ul>	Dual, active 8GB (upgrades to 16GB, 32GB and 64GB available) 4Gb FC (16 ports), 8Gb FC (16 ports), 1Gb iSCSI (8 ports), or Eight FC and 4 iSCSI 2 Standard
<b>Controller Features</b>	
<ul style="list-style-type: none"> <li>RAID Levels</li> <li>Battery backup</li> <li>LUNs</li> <li>Global Hot Spare Drives</li> <li>Power and Cooling</li> <li>Number of drives supported</li> </ul>	0, 1, 3, 5, 6, and 1+0 Cache destage to Flash in case of power loss 256 LUNs per partition, 2048 per system Unlimited Dual, redundant, hot-swappable 448 In 16-drive Enclosure, 480 in 60-drive Enclosures
<b>Optional Software Features</b>	
<ul style="list-style-type: none"> <li>Additional Partitions</li> <li>SnapCopy</li> <li>Volume Copy</li> <li>Remote Volume Mirroring</li> </ul>	4, 8, 16, 64, 128, 256, or 512 4 or 16 snaps Supported 64 or 128 Mirrors
<b>Controller Enclosure Dimensions</b>	
<ul style="list-style-type: none"> <li>Rack Height</li> <li>Height</li> <li>Width</li> <li>Depth</li> <li>Weight</li> </ul>	4 U 6.9", 17.35 cm 19", 48.3 cm 23.5", 59.7 cm 80.5 lbs., 36.5 kg
<b>16-Bay Drive Enclosure Dimensions</b>	
<ul style="list-style-type: none"> <li>Rack Height</li> <li>Height</li> <li>Width</li> <li>Depth</li> <li>Weight Empty</li> <li>Maximum Weight</li> </ul>	3 U 5.3", 31.1 cm 17.6", 44.7 cm 23.5", 59.7 cm 21.4 lbs, 9.7 kg 56.1 lbs, 25.4 kg
<b>60-Bay Drive Enclosure Dimensions</b>	
<ul style="list-style-type: none"> <li>Rack Height</li> <li>Height</li> <li>Width</li> <li>Depth</li> <li>Weight Empty</li> <li>Maximum Weight</li> </ul>	4 U 7", 17.8 cm 19", 48.3 cm 32.5", 82.6 cm 120 lbs., 55 kg 220 lbs., 100 kg
<b>Rack Dimensions</b>	
<ul style="list-style-type: none"> <li>Total U</li> <li>Height</li> <li>Width</li> <li>Depth</li> <li>Weight</li> </ul>	40 78", 198.1 cm 24", 60.9 cm 40", 101.6 cm 300 lbs., 135 kg

<b>Drive Options</b>	
<ul style="list-style-type: none"> <li>SSD</li> <li>FC and Self-encrypting FC</li> <li>SATA</li> </ul>	73GB  146GB 15K RPM 300GB 15K RPM 450GB 15K RPM 600GB 15K RPM  500GB 7200RPM 750GB 7200RPM 1000GB 7200RPM 2000GB 7200RPM
<b>Supported Operating System</b>	
	SLES 9, 10 RHEL 4,5 IBM AIX 5.3, 6.1 Sun Solaris 8, 9, 10 HP-UX 11.23, 11.31 Windows Server 2003 Windows Server 2008
<b>AC Power</b>	
<ul style="list-style-type: none"> <li>Controller</li> <li>16-Bay Enclosure</li> <li>60-Bay Enclosure</li> </ul>	2.65A max @ 240 VAC (180 to 260 VAC, 50/60 HZ) 1.97A max @ 240 VAC (180 to 264 VAC, 50/60 HZ) 7.20A max @ 240 VAC (200 to 260 VAC, 50/60 HZ)
<b>Environment</b>	
<ul style="list-style-type: none"> <li>Operating Temperature</li> <li>Relative Humidity</li> <li>Altitude</li> </ul>	32° F to 104° F (10° C to 40° C) 20% to 80% non-condensing 100' below sea level (-30.5m) to 10,000' (3058m)
<b>Optional Host Software</b>	
<ul style="list-style-type: none"> <li>CXFS</li> <li>DMF</li> </ul>	<ul style="list-style-type: none"> <li>Heterogeneous shared file system for storage area networks; eliminates the need for replicated data across a network by allowing multiple users to share one version of content as Fibre Channel speeds</li> <li>Host attachment via CXFS – Solaris, Windows NT, Windows 2000, AIX, MAC OS X, 32-bit Linux, 63-bit Linux</li> <li>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</li> </ul>

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