

High Performance
RAID Storage
for Data Intensive
Applications

SYSTEM HIGHLIGHTS

Balance Performance

Multi-dimensional
Adaptability

Increased Connectivity

Robust Data Protection

SGI® InfiniteStorage 4600



High Performance RAID Storage for Data Intensive Applications

The flagship of SGI's storage system product line, the SGI InfiniteStorage 4600 delivers breakthrough performance, capacity and scalability to support the escalating storage and I/O demands of today's high performance computing (HPC) and High Performance Business (HPB) environments. Success often depends on the speed at which data can be acquired, processed and distributed, especially when addressing the needs of high-bandwidth programs and complex applications.

The SGI InfiniteStorage 4600 is ideal for data-intensive applications, high I/O workloads and large scale consolidation initiatives. Part of a proven architecture built on more than 25 years of storage expertise, the SGI InfiniteStorage 4600 is ideally suited to markets with high volumes of data processing and computing demands including energy, entertainment, biosciences, supercomputing, and scientific research and development.

Performance, Capacity and Flexibility

HPC applications demand the very highest bandwidth. To provide the expanded functionality and flexibility to meet those needs, SGI InfiniteStorage 4600 relies on seventh generation technology to deliver exceptional adaptability. With a choice of InfiniBand or Fibre Channel connectivity the InfiniteStorage 4600 is an ideal fit for HPC low-latency, high performance infrastructure.

Both HPC and HPB customers often generate tremendous amounts of data and the SGI InfiniteStorage 4600 was designed specifically to meet the challenges of this type of data management. With a choice of 16-bay drive trays for high performance or large capacity drives or a 60-bay dense enclosure solution for large capacity drives, this system can balance both high performance and high capacity requirements with efficiency. Because drives can be mixed in the 16-bay trays, customers can achieve a tiered storage environment that accommodates RAID block storage, high capacity environments, consolidation and virtualization initiatives and a variety of data management needs.

Comprehensive Storage Management

Featuring Java-based enterprise level administration software, InfiniteStorage System Manager (ISSM-EE), SGI InfiniteStorage 4600 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 4600 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

System Specifications

www.sgi.com

Controller	4600
RAID Controllers	Dual, active
Cache Sizes	8GB (upgrades to 16GB and 32GB available)
Host Interfaces	4Gb FC (16 ports), 8Gb FC (16 Ports), or DDR IB (8 Ports)
Partitions	2 Standard
Controller Features	
RAID Levels	0, 1, 3, 5, 6, 10
Cache backup	Cache destaged to Flash in case of power loss
LUNs	256 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
Optional Software Features	
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
Controller Enclosure Dimensions	
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
16-Bay Drive Enclosure Dimensions	
Rack Height	3 U
Height	5.3", 31.1 cm
Width	17.6", 44.7 cm
Depth	23.5", 59.7 cm
Weight Empty	21.4 lbs., 9.7 kg
Maximum Weight	56.1 lbs., 25.4 kg
60-Bay Drive Enclosure Dimensions	
Rack Height	4 U
Height	7", 17.8 cm
Width	19", 48.3 cm
Depth	32.5", 82.6 cm
Weight Empty	120 lbs., 55 kg
Maximum Weight	220 lbs., 100 kg
Rack Dimensions	
Total U	40
Height	78", 198.1 cm
Width	24", 60.9 cm
Depth	40", 101.6 cm
Weight	300 lbs., 135 kg

Supported Drives	
FC	146GB 15K RPM 300GB 15K RPM 450GB 15K RPM
SATA	500GB 7200 RPM 750GB 7200 RPM 1000GB 7200 RPM
Supported Operating Systems	
	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
Power	
AC Power	
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)
Environment	
Operating Temperature	32°F to 104°F (10°C to 40°C)
Relative Humidity	20% to 80% non-condensing
Altitude	100' below sea level (-30.5m) to 10,000' (3058m)
Heat Output	540 Wats (1842 BTU/hr)
Optional Host Software	
CXFS	<ul style="list-style-type: none"> Heterogeneous shared file system for storage area networks; eliminates the need for replication of data across a network by allowing multiple users to share one version of content at Fibre Channel or InfiniBand speeds Host Attachment via CXFS - Solaris, Windows NT, Windows 2000, AIX, MAC OS X, 32-bit Linux, 64-bit Linux
DMF	<ul style="list-style-type: none"> 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

Corporate Office
46600 Landing Parkway
Fremont, CA 94538
tel 510.933.8300
fax 408.321.0293
www.sgi.com

North America +1 800.800.7441
Latin America +55 11.5185.2860
Europe +44 118.912.7500
Japan +81 3.5488.1811
Asia Pacific +61 2.9448.1463

