

SGI® InfiniteStorage NAS Solutions

SGI® InfiniteStorage NAS 4550 and SGI® InfiniteStorage NAS 4050 High-Performance, High-Capacity Plug-and-Play Appliances

Features

- Fully integrated, plug-and-play appliances
- Performance and capacity breakthroughs
- Performance-optimized for streaming and transaction applications
- Enriched NAS Manager and administration toolset
- RoHS compliant for European deployments



SGI Breaks New Ground with Networked Attached Storage (NAS) Appliances

With a long history of meeting the needs of the world's most intensive high-performance computing (HPC) environments, SGI InfiniteStorage NAS solutions continue to overcome the challenges of exponential data growth. The newest solutions introduce breakthroughs in performance, capacity, and ease of use. Platforms have been pre-configured and fully integrated in recognition of the different storage requirements based on workflows and application behaviors. Regardless of the platform selected, each SGI InfiniteStorage NAS plug-and-play appliance installs in minutes, relieves administrators of the complexities of storage optimization and tuning, and helps to ensure data access and management that satisfies both users and administrators.

High-capability Storage for Performance-intensive Environments

The new SGI InfiniteStorage NAS solutions include two product families. Storage solutions can be matched to the behavior of the applications that access the data. For applications that require the fastest performance storage solutions, SGI offers 2 models of InfiniteStorage NAS 4550 with one tuned for streaming workload and the other for transaction or mixed workload. Utilize the best performing server and storage subsystems available, NAS4550 can support up to 12 GbE ports and a maximum capacity of 67.2TB with FC drives. This high-performance platform offers industry-leading performance for OLAP media production, performing scientific research, or commercial teams in aerospace, energy, and other performance-intensive fields.

Powerful and Yet Easy to Use Management Tools

The new purpose-built NAS Manager 3.2 guide users step by step to set up the system effortlessly. Further more NAS manager provides pre-set setting that automatically configure the network ports and storage system for best IOP or throughput performance. This greatly simplify the implementation and optimization tasks for administrator NAS 4550 Streaming storage solutions, for example, provide a platform tuned for rich media management and distribution. These models include preconfigured cache and storage devices suited to the large-capacity requirements and typical throughputs for streaming of audio, video, and large imaging files. Ethernet ports, too can be aggregated for best throughput. In addition, iSCSI target, snapshot and replication are fully integrated for centralized management. Monitoring and diagnostic tasks also have been made easy with graphical representation of real time status. Administrators can quickly understand the CPU, capacity usage, disk and network throughput. Best of all, NAS manager includes as a standard feature: historical data available online for trending analysis.

High-capacity, Highly Scalable Storage for Data-intensive Environments

The SGI InfiniteStorage NAS 4050 provides an ideal storage solution for environments that demand huge capacity and read-intensive performance. With expansion up to 224TB, this solution allows research teams to efficiently store massive data sets, or enterprise teams to start small and scale storage as business warrants. Cost-efficient, industry-standard SATA drives provide solutions that meet a broad range of price-performance requirements for research and commercial workgroups. The NAS 4050, is tuned for maximum capacity with sequential read-centric applications in mind. It is great for any kind of large on-line depository or library function. In addition power users have the option to override any of the pre-set configuration to suit specific requirements.



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NAS Server	4550 Ultra	4550 Streaming	4050 Maximum capacity	4050 SATA Server
CPU	8 Cores	8 Cores	4 Cores	4 Cores
System Memory	48 GB	48 GB	24 GB	8 GB
Base Number of GbE	12	12	8	4
Base Number of 4Gb FC	4	4	4	2
Storage Expansion				
Base	32 x 146GB 15,000 rpm FC drives	32 x 300GB 10,000 rpm FC drives	160 x 500GB 7,200 rpm SATA drives	16 x 500GB 7,200 rpm SATA drives
Maximum Drive Count	224	224	448	112
Expansion Options	16 x 146GB 15,000 rpm FC drives	16 x 146GB 15,000 rpm FC drives	16 x 500GB 7,200 rpm SATA drives	16 x 500GB 7,200 rpm SATA drives
	16x 73GB 15,000 rpm FC drives	16x 73GB 15,000 rpm FC drives		
	16 x 500GB 7,200 rpm SATA drives	16 x 500GB 7,200 rpm SATA drives		
RAID Setting	Three 4+1 RAID5 Groups + 1 hot spare per tray	Three 4+1 RAID5 Groups + 1 hot spare per tray	Three 4+1 RAID5 Groups + 1 hot spare per tray	Three 4+1 RAID5 Groups + 1 hot spare per tray
Maximum Raw Capacity with FC Drive	32.7TB	67.2TB	NA	NA
Maximum Protected Capacity with FC Drive	24.3TB	50.4TB	NA	NA
Maximum Raw Capacity with SATA Drive*	100.6TB	105.6TB	224TB	56TB
Maximum Protected Capacity with SATA Drive*	75.5TB	79.2TB	168TB	42TB

System Software

- NAS Manager 3.2
 - Support NFS V2/V3/V4, CIFS/Samba
 - Setup Wizard for initial system setup
 - GbE port aggregation (802.3 or static) for maximum throughput
 - Performance or capacity settings for file system
 - IOP or throughput settings for storage
 - iSCSI target configuration
 - Dynamic capacity & volume expansion
 - Management GUI presents real time resource, performance and system alert graphically
 - Historical data for trending analysis
 - Nondisruptive upgrade from previous versions
 - Integrated management with optional XVM snapshot and NetVault Replicator
- XFS 64-bit journaled file systems
 - Maximum file size : 18,000 TB
- XVM Volume Manager
 - Virtualization technology to pool logical data for high performance and ease of management

Optional Software

- SGI XVM Snapshot
 - Copy-On-Write copy at volume level
 - Up to 256 snapshots per system
 - Fully integrated with NAS Manager 3.2
- BakBone NetVault Replicator
 - Async remote replication for disaster recovery
 - Real time; byte level granularity
 - Support one-to-one and one-to-many replication
 - Fully integrated with NAS Manager 3.2
- SGI Data Migration Facility
 - Policy-based data migration utility

Support & Warranty

- 3 years on-site hardware repair and replacement with next business day response time
- 90 day software support
- 7x24 support available

Installation Service

- Included

	Height	Weight
NAS Server	5U (8.75"H x 17.5"W x 17.0"D)	262 lb (119Kg)
Storage Controller Tray (NAS4550)	4U (6.9" H x 19"W x 23.5"D)	80.5lb (36.5Kg)
Storage Controller Tray (NAS4050):	3U (5.25"H x 19.0"W x 23.5"D)	87lb (40Kg)
Storage Expansion Tray	3U (5.25"H x 19.0"W x 23.5"D)	88lb (40Kg)
Rack	42U (79.5"H x 25.8"W x 43.5"D)	

Environmental (Operating)

Temperature

- 5°C to +35°C
(+41°F to 95°F) @ 5000 MSL (feet)
- 5°C to +30°C
(+41°F to 86°F) @ 10,000 MSL (feet)
- Noise less than 65 dBA

Electric Power

- Dual power input lines, single phase
- Voltage: 250 VAC (187 to 257 VAC) frequency 50/60 Hz
- AC distribution: 250 VAC 16A
- US: NEMA L6-30P, 250 VAC, 30A
- International: IEC 309, 220 VAC 32A



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