

SGI® InfiniteStorage NEXIS 7000 Network-Attached Storage

High-Performance, Scalability and Availability for Performance-Intensive Environments

Features

- High availability with data path redundancy options
- Fully integrated SGI InfiniteStorage Appliance Manager and administrative toolset
- High-performance, low-latency, and scalable file system
- NFS, CIFS, and iSCSI protocols
- Preconfigured and performance-tuned storage system

The SGI InfiniteStorage NEXIS 7000 NAS family features versatile high performance for dedicated or mixed workloads including the most demanding work group file sharing, on-line web server storage, research, digital media content creation and editing, high-performance data base transactions, and mining applications. To protect storage investments and give customers flexibility, the SGI InfiniteStorage NEXIS 7000 NAS family supports both SATA and Fiber Channel drives enabling price/performance options within a common architecture.

With the new NAS family, businesses can run continuously and scale seamlessly as their data production and storage requirements grow exponentially. The SGI InfiniteStorage NEXIS 7000 NAS solutions offer advanced high-availability features with active/active cluster options. SGI's award-winning hardware design includes redundant power supplies and fans, a mirrored root drive, and RAID protection.

Integrated SGI InfiniteStorage Appliance Manager and Toolset

SGI NAS solutions give customers complete, ready-to-go platforms for information management. The SGI InfiniteStorage NEXIS 7000 includes the pre-installed SGI InfiniteStorage Appliance Manager for fast and easy configuration setup, granular discovery, and resolution guidance. The intuitive graphical user interface speeds day-to-day tasks, helping to reduce manageability costs.

Using the SGI InfiniteStorage Appliance Manager, administrators can perform storage setup in less than 20 minutes. Network address and file system information can be rapidly initialized and other built-in functions give administrators a convenient Web-accessible interface to monitor and manage performance, disk utilization, file system quotas, usage statistics, and other storage parameters.

Industry-Leading File System Performance

The SGI InfiniteStorage NEXIS NAS family benefits from the industry-leading SGI file system technology. Architected to scale performance and directory size for up to exabytes of addressable space, the exceptional SGI file system can be applied to a wide range of hardware platforms and configurations. Both NFS and CIFS yield exceptionally competitive application performance including demanding write-to-disk operations. This value is further enhanced with SGI advancements that yield highly efficient and low-latency file system operation.

Scalability and Expandability for Protecting Storage Investments

Each storage solution can be expanded—without forklift upgrades:

- Performance headroom accommodates the addition of more storage devices including up to 224 disk drives per NAS server, These can include 146GB and 300GB 10K RPM or 15K RPM fibre channel disk drives for up to 67TB of high-performance raw storage capacity, or 500GB and 750GB 7.2K RPM SATA disk drives for up to 168TB mid-tier performance.
- Non-disruptive upgrades allow continuous access to data.



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Help from the Storage Experts

SGI provides worldwide support from a team with in-depth storage expertise. For those IT organizations that prefer to support their own systems, SGI provides phone support and next-business day advanced parts exchange. SGI's highly rated onsite hardware support is also available, with a choice of response times that can meet each site's requirements.

NAS Server

• CPU Time (Intel)	8 Cores
• System Memory	48GB
• Base Number of GbE	12
• Base Number of 4GbE FC	4

InfiniteStorage NEXIS 7000**

**InfiniteStorage NEXIS 7000 High Availability (HA) feature includes a second NAS Server for failover

Storage

• Base Controller	Dual Controller
• Maximum Number of Drives	224
• Base Drives	32 Drive Enclosure
• Expansion	16 x 146GB 15K rpm FC drives 16 x 300GB 15K 16 x 750GB 7,200 rpm SATA drives
• RAID Setting	Three 4+1 RAID 5 Groups + 1 Hot Spare per Tray
• Maximum Capacity	168TB
• Maximum Usable Capacity	126TB

InfiniteStorage NEXIS 7000

System and Network Protocol Support

• Management Interface	InfiniteStorage Appliance Manager Graphical User Interface (GUI), Command Line Interface (CLI)
• Operating System	Novell SUSE Linux Enterprise Server 10 •• SGI ProPack™5 for Linux®
• Standard Software Features	CIFS, NFS, XFS, Volume Manager, Appliance Manager, NDMP
• Licensed Software Products	Data Migration Facility (DMF), Snapshot
• File Access Protocols	NFS v2, v3, v4, CIFS, FTP, TCP, SSH
• Block Access Protocols	iSCSI target

System Software

- InfiniteStorage Appliance Manager 4
 - Setup Wizard for initial system setup
 - Dynamic capacity & volume expansion
 - Management GUI presents real time resource, performance, and system alerts
 - Historical data for trending analysis
- XFS 64-bit journaled file systems
 - 18 EB in a single file system
 - 9,000TB file size

Services

- SGI offers professional storage services. For more information, please see www.sgi.com/products/services/professional/storage

Optional Software

- SGI XVM Snapshot
 - Copy-On-Write copy at volume level
 - Up to 256 snapshots per file system
 - Fully integrated with Appliance Manager 4
- SGI Data Migration Facility
 - Policy-based data migration utility

Dimensions

	Height	Weight
• NAS Server	5U (8.75"H x 17.5"W x 17.0"D)	262 lbs
• Storage Controller Tray	3U (5.25"H x 19.0"W x 23.5"D)	87 lbs
• Storage Expansion Tray	3U (5.25"H x 19.0"W x 23.5"D)	88 lbs
• Rack	39U (75.8"H x 29.1"W x 43.2"D)	346 lbs empty

Temperature (Operating)

- +5°C to +35°C, altitude 5000' MSL
- +5°C to +30°C, altitude 10000' MSL

Electrical Power

• Input Voltage	250 VAC (187 to 257 VAC) frequency 50/60 Hz
• Rack AC Distribution	250 VAC 16A
• Receptacles Required	
– US	NEMA L6-30P, 250 VAC, 30A
– International	IEC 309, 220 VAC 32A

Support and Warranty

- Three years on-site hardware repair and replacement with next business day response time
- 90 days software warranty
- 24 X 7 support available



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For more information, go to: www.sgi.com/storage

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