

SGI® InfiniteStorage NEXIS 7000 Network-Attached Storage

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

Features

- Fully Integrated, preconfigured and performance tuned NAS System
- Highly reliable with built-in data path redundancy
- GigE and 10GbE Networks
- SGI InfiniteStorage Appliance Manager and administrative toolset for fast implementation
- High-performance, low-latency, and scalable file system
- NFS, CIFS, and iSCSI protocols

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, and high-performance data mining/data warehousing applications. To protect storage investments and give customers flexibility, the SGI InfiniteStorage NEXIS 7000 supports both SATA and Fibre 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. SGI's award-winning hardware design includes redundant power supplies and fans, mirrored root drives, 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 capacity size of 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, 300GB, and 450GB 15k RPM fibre channel disk drives for up to 100TB of high performance raw storage capacity, or 500GB, 750GB, and 1TB 7.2k RPM capacity-oriented SATA disk drives for up to 224TB mid-tier performance.
- Non-disruptive upgrades allow continuous access to data.



SGI® InfiniteStorage NEXIS 7000 Network-Attached Storage

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 Type
- System Memory
- Number of Ethernet Ports
- Number of 4Gb FC Ports

InfiniteStorage NEXIS 7000**

8 Cores Intel® Itanium® Dual Core
48GB
6 Ports 1GbE copper plus a choice of 8 GbE ports (copper or optical) or 2 ports of 10GbE optical
4 FC Ports

Storage

- Number of Hardware RAID Arrays
- Maximum Number of Drives
- Minimum Configuration
- Expansion

InfiniteStorage NEXIS 7000

2 SGI InfiniteStorage IS4000F arrays with dual controllers
224
32 Drives in the two controller trays
In increments of full trays of 16 identical drives
– 16 FC 15K rpm drive sizes: 146GB, 300GB, 450GB FC
– 16 SATA 7.2k rpm drive sizes: 500GB, 750GB or 1TB SATA
RAID 5
FC: 100.8TB SATA: 224TB
FC: 75.6TB SATA: 177TB

- RAID Setting
- Maximum Raw Capacity
- Maximum Usable Capacity

System and Network Protocol Support

- Management Interface
- Operating System
- Standard Software Features
- Licensed Software Products
- File Access Protocols
- Block Access Protocols

InfiniteStorage Appliance Manager Graphical User Interface (GUI)
Novell SUSE Linux Enterprise Server 10 •• SGI Foundation Software for Linux®
CIFS, NFS, XFS, Volume Manager, Appliance Manager, NDMP Agent
Data Migration Facility (DMF), Snapshot, Replicator, NDMP Backup
NFS v2, v3, CIFS, FTP, SFTP, SCP
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 EB file size

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

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

Services

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

Dimensions

- NAS Server
- Storage Controller Tray
- Storage Expansion Tray
- Rack

Height

5U (8.75"H x 17.5"W x 17.0"D)
3U (5.25"H x 19.0"W x 23.5"D)
3U (5.25"H x 19.0"W x 23.5"D)
39U (75.8"H x 29.1"W x 43.2"D)

Weight

262 lbs
87 lbs
88 lbs
346 lbs empty

Temperature (Operating)

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

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



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

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