

# SGI® Altix® ICE Storage Appliance

## Highlights

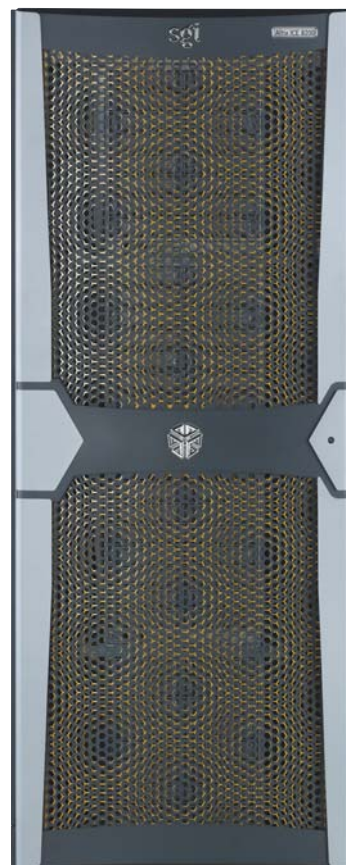
- Integrated InfiniBand Connectivity - High efficiency, stable compute and storage connectivity
- Ease of use – Easy and fast to deploy, and can be supported by any IT professional (no requirements for NAS specialists)
- Standards compliance – The SGI Altix ICE storage appliance complies with region-specific regulations
- Lower OPEX – The right tools to efficiently manage data is essential, and the ICE storage appliance is cost-effective in terms of facilities requirements (floor space, power, and cooling)
- Unified storage management – Unified software and system management shields users from platform complexities and differences

The SGI Altix InfiniteStorage Integrated Compute Environment (ICE) storage appliance is a file serving solution for SGI's next generation HPC platform. Factory integrated, this storage comes ready to start serving files to your SGI Altix ICE cluster in less than 20 minutes. Originating in the most demanding high-performance computing environments, SGI NAS solutions feature optimized performance, high-density, and maximum capacity for science, engineering, oil exploration, and government research. The latest architectural enhancements also bring the SGI optimized NAS to the SGI Altix ICE InfiniBand Cluster. The SGI Altix ICE storage appliance leverages cost-effective high efficiency InfiniBand technology, doing away with expensive bridging devices to connect the storage.

The SGI Altix ICE storage appliance is designed for cost effective capacity, with a base configuration of 16TB and expansion up to 160TB. Utilizing high-density SATA drives, the ICE storage appliance provides capacity without consuming large amounts of floor space.

The SGI Altix ICE storage appliance utilizes SGI NAS Manager Software to deliver easy set-up and maintenance. With a single, tunable file system the SGI Altix ICE storage appliance simplifies the data management for very large data sets. Scalability and throughput are also maximized with this architecture. The SGI Altix ICE storage appliance provides an exceptional user experience including graphical representation of system status, menu-driven configuration, and comprehensive optimization tools. Troubleshooting can be done quickly with the integrated suite of diagnostics.

By utilizing the native InfiniBand interconnect, this storage appliance further delivers on the efficiency promised of SGI's Altix ICE compute system. Consolidating I/O onto a single InfiniBand fabric and integrating server and storage into a unified implementation considerably lowers power and space requirements.



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## Appliance Configuration

- CPU 4 Cores
- System Memory 24 GB
- Number of InfiniBand Ports 4
- Number of FC Ports 4
- Base Storage 32 x 500GB
- 7,200 rpm SATA drives
- Maximum Number of Drives 224
- Maximum Bandwidth Reads 1500 MB/s
- Maximum Bandwidth Writes 470 MB/s

## System Software

- NAS Manager 3.2
  - Support NFS V2/V3, CIFS/Samba
  - Setup Wizard for initial system setup
  - Performance or capacity settings for file system
  - IOPS or throughput settings for storage
  - iSCSI target configuration
  - Dynamic capacity & volume expansion
  - Management GUI presents real time resource, performance and system alerts graphically
  - Historical data for trending analysis
- XFS 64-bit journaled file systems

## Dimensions

- |                 | Height                        | Weight         |
|-----------------|-------------------------------|----------------|
| • NAS Server    | 5U (8.75"H x 17.5"W x 17.0"D) | 262 lb (119Kg) |
| • Storage Trays | 3U (5.25"H x 19.0"W x 23.5"D) | 87lb (40Kg)    |

## 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

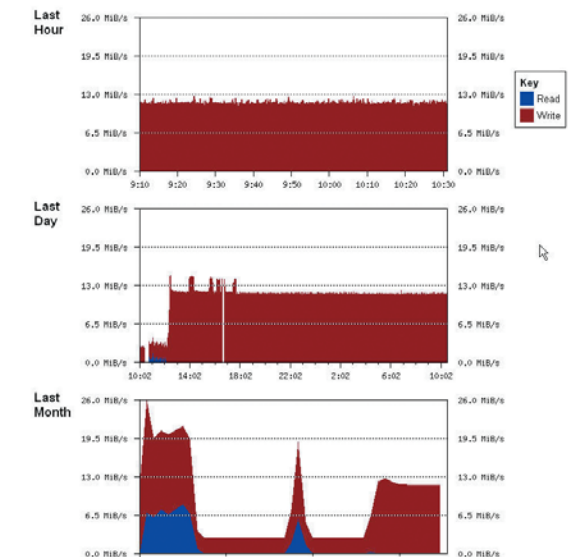
## Electric Power

- 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

## Support & Warranty

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

### Monitoring > Resources > Disk Throughput > data/data (/mnt/data) History



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