

An Advanced,
Extremely Dense
Storage System for
Demanding
Workloads

KEY FEATURES

Superior Density

Performance and
Scalability

Robust Data Integrity and
Availability

Simple Management

SGI® InfiniteStorage 6120



In today's dynamic environment, applications, such as video surveillance, data gathering and seismic imaging for the Energy industry, engineering analysis and science research are pushing the capabilities of traditional storage systems. The SGI InfiniteStorage 6120 is a compact, ultra-dense storage system which delivers the highest quality data services and eliminates the need for multiple systems, thereby minimizing floor space, power consumption, complexity and management overhead. This system is uniquely designed to deliver the enhanced quality of critical information required to reduce assessment time and ensure quality decision making. Historically, this type of data storage was only available from highly specialized and high cost storage systems. The SGI InfiniteStorage 6120 delivers high performance and large capacity without the increase complexity, footprint and high cost of previous generation systems.

Superior Density

With industry leading density, the SGI InfiniteStorage 6120 houses up to 60 drives in a single 4U enclosure which easily scales up to 120 drives with an additional expansion unit. Intermixing high-performance SAS and high-capacity SATA drives in the same enclosure allows customers to realize the promised cost savings of tiered storage. These features reduce complexity and footprint, both of which reduce bottom line acquisition and management costs.

Performance and Capacity Scalability

The InfiniteStorage 6120 scales to a maximum of 120TB using 1TB drives. It delivers up to 30,000 IOPS, and over 2 GB/s of throughput to keep pace with the most demanding mixed-workload.

Robust Data Integrity and Availability

Active-active failover and extreme IOPS and bandwidth performance provide the highest reliability and quality of service your applications demand. Unique, field-proven features, such as SATAAssure™ and Partial Rebuild increase data reliability and availability. Data integrity is verified on every read operation with SATAAssure taking the risk out of large deployments of SATA drives. Silent data corruption is detected and corrected automatically and transparently. Intelligent drive diagnostics and repair mechanisms minimize full drive rebuilds by correction only the portion of the drive requiring repair – ensuring that your data remains available and minimizing performance degradation.

Simple Management

The InfiniteStorage 6120 has an easy-to-use management interface which enables a flexible system configuration. Intelligent background formatting is revolutionary. This enables you to use the array immediately, eliminating the long wait times associated with deploying new storage or adding capacity. CLI, SSH and Telnet are provided to use for local and remote administration. Upgrading to new features or improving performance is simple and easy, as firmware and storage management features are field upgradeable.



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Configuration Specifications

Controller	
Raid Controllers	Dual, active
Cache Sizes	6GB
Host Connections	4 x 8Gb Fibre Channel
Raid Levels Available	RAID 5, RAID 6
Maximum Host	Logins 512
Maximum LUNs	1024
Dual redundant, hot-pluggable power and cooling modules	

Optional Advanced Features
SATAssure
RAID 6

Enclosure Dimensions	
Rack Height	4U
Height	7.0", 17.8 cm
Width	17.56", 44.6 cm
Depth	42", 106.7 cm
Weight Empty	120 lbs., 54.5 kg

Drive Options
146/300/450 GB, 15K rpm, SAS
400 GB 10K rpm, SAS
500/750/1000 GB 7200 rpm, SATA
Drives per enclosure: 60
Drives per system: Min. 3/Max. 120

Envirnmental
Operating Temperature
Minimum: 50° F (10 C)
Maximum: 95° F (35 C)
Voltage Range: 220-250 VAC
Frequency: 47-63 Hz, 400Hz
Power Consumption
Max Power: 3904 W
Peak Power: 1922 W
Average Power: 1750 W
Cooling
Max Cooling: 13324 BTU/h

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