# SGI® InfiniteStorage 220



The SGI® InfiniteStorage 220 applies the power of high-performance storage to bring the cost efficiencies of consolidation to organizations of any size and simplifies initial deployment and ongoing management with fully integrated software and a flexible appliance-like design. The affordable SGI InfiniteStorage 220 solution delivers maximum value for data backup, disaster recovery, and general file storage applications.

## The Cost Effi ciencies of Consolidation

Centralization and consolidation-by eliminating redundant administration efforts—allow today's cost-conscious IT teams to introduce operation efficiencies and minimize resource expenditures. Requirements can be combined across groups and departments, with the SGI InfiniteStorage 220 solutions providing an improved cost-per-GB ratio and storage asset utilization. Businesses benefit from increased availability and RAID protection for data. IT teams can simplify deployment and backup efforts with a modular system that seamlessly scales storage and minimizes the effort required for data replication.

## The Simplicity of Local Storage

Alternative SAN solutions introduce complex storage architectures and often require dedicated storage experts within the IT organization. The SGI InfiniteStorage 220, in contrast, offers the convenience and ease of an appliance. This starts with a choice for host connectivity, with either SAS or Fibre Channel connections, depending on the existing infrastructure. Deployment and configurations are accomplished with only basic familiarity with servers and storage. Software is fully integrated to shorten installation times, and an intuitive graphical user interface (GUI) makes it easy to introduce automation and streamline configuration and management tasks. Capacity scaling, RAID group expansion, and other tasks are carried out online with the efficient browser-

like interface. Optional SnapCopy and VolumeCopy utilities simplify data replication within dual controller configurations.

## Start Small—Add as You Grow

Small, cost-effective configurations allow businesses of any size to take advantage of a pay-as-you-grow strategy for storage. Each SGI InfiniteStorage 220 platform can be configured with one or two controllers. Each controller supports two 4Gb/s Fibre Channel ports or three 3Gb/s SAS ports. Twelve integrated disk drives and up to 36 additional drives (in three add-on enclosures) allow a single SGI InfiniteStorage 220 solution to expand to a total of 48TB of storage (with current 1000GB SATA drives). The SGI InfiniteStorage 220 solutions overcome the data management challenges of today, and allow businesses to manage multiple drive technologies and expanding capacities without introducing complexity.

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## Configuration Specifications

| Controller | 220 "B" Model | 220 "E" Model |
| --- | --- | --- |
| • RAID Controllers<br>• Cache Sizes<br>• Host Paths<br>• Partitions | Single<br>1GB<br>2 FC or 3 SAS<br>2 Standard | Dual, active<br>2GB<br>4 FC or 6 SAS<br>2 Standard |

| Optional Software Features | | |
| --- | --- | --- |
| • Additional Partitions<br>• SnapCopy<br>• Volume Copy | 4, 8, 16<br>Supported<br>Supported | 4, 8, 16<br>Supported<br>Supported |

| Controller Features | |
| --- | --- |
| • RAID Levels<br>• Battery backup<br>• LUNs<br>• Global Hot Spare Drives<br>• Host Management<br>• Hot Swappable, Dual power<br>  supplies and cooling | 0, 1, 3, 5, 6, and 1+0<br>3-day maximum<br>256 per partition, 1024 per system<br>Up to 15<br>SGI Storage Management Interface |

| Host Connections |
| --- |
| • 4 Gb/s Fibre Channel or 3 Gb/s SAS, quantities model dependent<br>• LC optical connectors for Fibre Channel, mini-SAS connectors for SAS |

| Drive Enclosure Connections |
| --- |
| • Two or four 3 Gb/s SAS connectors<br>• Fused copper cables, SAS assembly |

| Enclosure Dimensions | |
| --- | --- |
| • Rack Height<br>• Height<br>• Width<br>• Depth<br>• Weight Empty<br>• Maximum Weight | 2 U<br>3.43", 87.1mm<br>17.66'', 448.6mm<br>21.21'', 538.7mm<br>39.75 lb<br>59.55 lb |

| Drive Options |
| --- |
| • 146 GB, 15K rpm, SAS<br>• 300 GB, 10K and 15K rpm, SAS<br>• 400GB, 10K rpm, SAS<br>• 450GB, 15K rpm SAS<br>• 1000GB, 7200 rpm SAS<br>• 750 GB, 500 GB and 1000GB, 7200 rpm, SATA<br>• Drives per enclosure: Min. 2/Max. 12<br>• Drives per system: Min. 2/Max. 48 |

| Environmental (Operating) |
| --- |
| • Operating Temperature<br>• Minimum: 10° C (50° F)<br>• Maximum: 40° C (104° F) |

| Operating Relative Humidity |
| --- |
| • 20% to 80% (non-condensing) |

| Temperature Change |
| --- |
| • 10°C/hr |

| Operating Altitude |
| --- |
| **InfiniteStorage System Manager**<br>• Minimum: -30.5m (-100 ft)<br>• Maximum: 3,000m (9,840 ft) |

| Host Management |
| --- |
| **SGI InfiniteStorage System Manager**<br>**Workgroup Edition**<br>• Out-Band management<br>  - RHEL 3, 4, 5<br>  - SLES 8, 9, 10<br>  - Windows 2003 Server Edition<br>  - Windows XP Professional<br>  - Windows Vista<br>  - SuSE Professional 9.x<br>• In-Band management<br>  - RHEL 3, 4, 5<br>  - SLES 8, 9<br>  - Windows 2003 Server Edition<br>• Software features<br>  - Volume creation, mapping and expansion<br>  - Add drives, expansion enclosures on-the-fl y<br>  - Non-disruptive fi rmware upgrades |

| Power Consumption (AC power per enclosure) |
| --- |
| • 515 Watts (+ 5V @ 19A/ + 12V @ 35A)<br>• 3.5 A Max Operating @ 115 VAC<br>  (90 – 264 VAC Range), 47/63 Hz<br>• 1.7 A Max Operating @ 240 VAC<br>  (90 – 264 VAC Range), 47/63 Hz |

| Regulatory Compliance |
| --- |
| • Manufactured under an ISO 9000-registered system<br>• UL 1950 CSA 22.2 No.950 IEC 950, EN 609<br>• RoHS Compliant |

| Warranty |
| --- |
| 1 years hardware repair and replacement, 5x9 on-site next business day response, upgrade options to extended years, 7x24, 2 hour response |

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