

# SGI InfiniteStorage 7700x

The Hybrid Flash Storage Appliance to Maximize Big Data Insights

## Key Features

Sequential Read Up to  
12.4GB/s sustained

Sequential Write Up to  
10.75 GB/s sustained

IB FDR 56Gb/s host ports

Fibre Channel 16 Gb/s host ports



Big Data continues to grow exponentially. Organizations are looking for innovative ways to extract the maximum value from their data to accelerate workflows, gain valuable insight, shorten time to discovery and gain a competitive advantage. Storage is a critical IT component and selecting the right storage platform will make or break your Big Data initiatives. Today's storage requires a platform that delivers better performance, data protection and simplicity, while optimizing the most efficient mix of hybrid media – which will deliver the performance of flash at the price of SATA. In addition, organizations are seeking to leverage the cloud to enable collaboration, while keeping their environment simple, secure and within budget limitations.

## IS7700x Storage Highlights

The IS7700X is a hybrid flash storage appliance, purpose-built for Big Data requirements that uniquely enable organizations resolve today's key storage challenges. It is designed to allow you to start small and extract maximum value from your Big Data. At the core, is the hyper-optimized SFA Operating System, running in two hybrid controllers that leverage Storage Fusion Xcelerator™ (SFX) technology to extract the maximum performance and value from hybrid (spinning disk & flash) media. SFX integrates application-centric intelligence with the power of flash media to deliver industry-leading performance, at the economy of hard disk drives. This drastically lowers the TCO for organizations deploying a mix of flash and rotating media while simultaneously accelerating application performance. Furthermore, the IS7700X family instantly cloud enables your storage for global collaboration and cost-effective archive with file system hooks that migrate data seamlessly to the cloud.

## Benefits

- **Modular** - Fully integrated appliance that lets organizations start small with pay as-you-grow scalability.
- **Hybrid** – SFX technology unleashes the power of Flash with application-centric intelligence to combine the performance of Flash with the economy of HDDs to truly lower TCO.
- **Big Data Workload Ready** – Analyzes data composition in real time, using ReACT™ to provide peak performance for any mix of highly transactional, high bandwidth workloads.
- **Simplify Administration** – Lower administration costs with DirectMon™, a powerful, intuitive single pane of glass to monitor & manage 10s to 100s of systems.
- **Lowest TCO** – Minimize power, cooling & rack space with the ability to add 60 drives in the modular base enclosure and up to 84 drives per added 4U enclosure.

The IS7700X is a 4U, modular, fully contained Big Data Appliance. High performance, dual controllers ensure redundancy to your applications and data. Delivering 10GB/s of bandwidth, IS7700X is the midrange performance leader.



IS 7700x Specifications	
RAID Controllers	<ul style="list-style-type: none"> <li>• Dual, active/active</li> </ul>
RAID Levels	<ul style="list-style-type: none"> <li>• RAID 6 (8+2) or (4+2)</li> <li>• RAID 5 (8+1) or (4+1)</li> <li>• RAID 1 (1+1)</li> </ul>
Cache Sizes	<ul style="list-style-type: none"> <li>• Up to 32GB, mirrored, power-fail safe</li> </ul>
Host Interfaces	<ul style="list-style-type: none"> <li>• 4 x 56 Gb/s FDR Infiniband</li> <li>• 4 x 16 Gb/s Fibre Channel</li> </ul>
Power	<ul style="list-style-type: none"> <li>• 1865W Power supply redundant</li> <li>• 300W w/o drives</li> <li>• 1050W with 60x4TB 7.2K rpm SAS drives</li> </ul>
Voltage	<ul style="list-style-type: none"> <li>• 200-240V, 50/60Hz</li> </ul>
Operating Temperature	<ul style="list-style-type: none"> <li>• 41°F to 95°F (5°C to 35°C)</li> </ul>

Appliance Enclosure Dimensions	
RAID Height	<ul style="list-style-type: none"> <li>• 4 RU</li> </ul>
Height	<ul style="list-style-type: none"> <li>• 6.97" (177mm)</li> </ul>
Width	<ul style="list-style-type: none"> <li>• 16.56" (420.6mm)</li> </ul>
Depth	<ul style="list-style-type: none"> <li>• 38" (965.2mm) with bezel and cable management arm</li> </ul>
Weight	<ul style="list-style-type: none"> <li>• 235 lbs (106.6KG) with 60 drives</li> </ul>

60bay Drive Expansion Enclosure Dimensions 7000	
Rack Height	<ul style="list-style-type: none"> <li>• 4RU</li> </ul>
Height	<ul style="list-style-type: none"> <li>• 6.97", 177 mm</li> </ul>
Width	<ul style="list-style-type: none"> <li>• 16.56", 420.6 mm</li> </ul>
Depth	<ul style="list-style-type: none"> <li>• 38", 965.2 mm</li> </ul>
Weight	<ul style="list-style-type: none"> <li>• 215 lbs., 97.50 kg (full)</li> </ul>
60 Drive Enclosure	<ul style="list-style-type: none"> <li>• Two 1865W Power Supplies</li> <li>• 190-264 VAC @ 47 – 63 Hz and 400 Hz</li> <li>• 2 IO SAS Modules (Four 6Gb/s SAS 4x ports via Four SFF-8088 connections, per IO module)</li> <li>• Supports 6Gb/s or 3Gb/s, SAS and SATA HDDs or SSDs</li> </ul>

Optional Host Software	
CXFS	<ul style="list-style-type: none"> <li>• Heterogeneous shared file system for storage area networks; eliminates the need for replication of data across a network by allowing multiple users to share one version of content at Fibre Channel or InfiniBand speeds</li> </ul>
DMF	<ul style="list-style-type: none"> <li>• Data Lifecycle Management (Archive) policy automation software virtualizes storage devices and automates the migration and archive of digital content throughout a virtual tiered storage pool based upon business policies</li> </ul>

84bay Drive Enclosure Dimensions	
Rack Height	<ul style="list-style-type: none"> <li>• 4RU</li> </ul>
Height	<ul style="list-style-type: none"> <li>• 6.97", 177 mm</li> </ul>
Width	<ul style="list-style-type: none"> <li>• 19", 482.6 mm</li> </ul>
Depth	<ul style="list-style-type: none"> <li>• 34" (863.6mm) without bezel and cable management assembly</li> <li>• 40" (1016 mm) with bezel and cable management assembly</li> </ul>
Weight	<ul style="list-style-type: none"> <li>• 76 lbs (34.5kg) without disks</li> <li>• 244 lbs (110.9 kg) with disks</li> </ul>
84 Drive Enclosure	<ul style="list-style-type: none"> <li>• Two 1865W Power Supplies</li> <li>• 190-264 VAC @ 47 – 63 Hz and 400 Hz</li> <li>• 2 IO SAS Modules (Four 6Gb/s SAS 4x ports via Four SFF-8088 connections, per IO module)</li> <li>• Supports 6Gb/s or 3Gb/s, SAS and SATA HDDs or SSDs</li> </ul>

## About SGI

SGI is a global leader in high performance solutions for compute, data analytics and data management that enable customers to accelerate time to discovery, innovation, and profitability. Visit [sgi.com](http://sgi.com) for more information.

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