



# SGI® Total Performance 900 Storage System

## Features

- Space-saving low-profile design
- High capacity—over 1.1TB in 4U
- High-performance Ultra160 SCSI channels
- Enhanced availability
- Easy configuration

## Affordable, High-Performance Storage System

The SGI Total Performance 900 (TP900) storage system provides easy, modular, high-performance JBOD storage as a stand-alone device or as a disk expansion module for the SGI® Origin® 300 server. TP900 emphasizes maximum throughput in a compact form factor, with up to eight SCSI disks—over half of a terabyte of data—in only 3.5 inches of rack space (2U).

TP900 storage systems connect easily as disk modules to the integrated SCSI port in SGI Origin 300 servers. With your choice of one or two Ultra160 SCSI channels and the latest, state-of-the-art SCSI 10,000 RPM and 15,000 RPM disk drives, TP900 can be optimized for either fast retrieval or deep-archive configurations.

## High-Scalability and Low-Profile Design

As demand for storage continues to grow more than that for any other computing requirement, the TP900 storage system's low-profile design allows you not only to add storage resources as you require additional capacity, but also to effectively deploy storage within your enterprise. The optional deskside cabinet fits easily in workstation office areas. For larger configurations, multiple TP900 storage systems can be mounted in an SGI® Origin® 3000 series rack.

## High Capacity

Configured with eight high-capacity 73GB SCSI drives, each TP900 storage system can accommodate 584GB of data. Two TP900 storage systems can be configured in a deskside rack, providing up to 1.1TB of data storage.

## High Availability

TP900 ensures high availability through the use of high-reliability components, including the drive backplane, cables, interfaces, optional redundant power supplies, and dependable cooling fans. Status indicator LEDs for Power On, Power Status, and Cooling Status are green during normal operation and amber when a fault condition is present.

## Easily Configurable

The standard TP900 configuration is a single SCSI channel connection containing one to eight SCSI disk drives. As an option, the enhanced bandwidth feature will configure TP900 with two Ultra160 SCSI channels, which doubles the peak bandwidth. The two SCSI channels can be attached to either a single host or two different host servers.



**SGI TP900 Storage System  
Technical Specifications**

<p><b>Dimensions [Approximate]</b></p> <ul style="list-style-type: none"> <li>• Height 85.7 mm [3.37"]</li> <li>• Width 447 mm [17.6"]</li> <li>• Depth 545 mm [21.46"]</li> <li>• Weight 22 kg [48.5 lb] [max. configuration]</li> <li>• Empty enclosure 6.5 kg [14.3 lb]</li> </ul> <p>Exact weight of the units is affected by the type and number of drive modules installed.</p>	<p><b>Capacity</b></p> <p><b>18.2GB</b></p> <ul style="list-style-type: none"> <li>• Rotational velocity 15,000 RPM</li> <li>• Average latency 2.00 msec</li> <li>• Sustained data rate 26.7–48.9MB/sec</li> <li>• Data transfer rate to host 160MB/sec per channel</li> <li>• Average seek 3.9 msec, 4.5 msec</li> </ul> <p><b>73.4GB</b></p> <ul style="list-style-type: none"> <li>• Rotational velocity 10,000 RPM</li> <li>• Average latency 2.99 msec</li> <li>• Sustained data rate 6.7–40.2MB/sec</li> <li>• Data transfer rate to host 160MB/sec per channel</li> <li>• Average seek 5.9 msec</li> </ul>	<p><b>Operating Environment</b></p> <ul style="list-style-type: none"> <li>• Temperature [operating] 10°C to 35°C [50°F to 95°F]</li> <li>• Single cooling module 10°C to 40°C [50°F to 104°F]</li> <li>• Dual cooling module 0°C to 50°C [32°F to 122°F]</li> <li>• Temperature [nonoperating] 0°C to 50°C [32°F to 122°F]</li> <li>• Relative humidity [operating] 20% to 80% noncondensing</li> <li>• Relative humidity [nonoperating] 8% to 80% noncondensing</li> <li>• Altitude [operating] 0 to 2,133 m [0 to 7,000 ft]</li> <li>• Altitude [nonoperating] -305 to 12,192 m [-1,000 to 40,000 ft]</li> </ul>
<p><b>Module Weights</b></p> <ul style="list-style-type: none"> <li>• Power supply module 1.75 kg [3.85 lb]</li> <li>• Cooling module 1 kg [2.2 lb]</li> </ul>		<p><b>Enclosure Interface</b></p> <ul style="list-style-type: none"> <li>• 2 or 4 VHDCI connectors on enclosure back panel</li> </ul>
<p><b>Power Supply [1 or 2 per Enclosure]</b></p> <ul style="list-style-type: none"> <li>• Frequency 47 to 63 Hz</li> <li>• AC voltage Deskside—100 to 120 or 200 to 240 VAC Rack—200 to 240 VAC</li> <li>• AC circuits Single or redundant external AC circuits</li> <li>• Inlet type NEMA L6-30</li> <li>• Active power factor correction -0.99</li> </ul>	<p><b>Drive Carriers</b></p> <ul style="list-style-type: none"> <li>• Antitamper locks ensure data security</li> <li>• Drive operation and fault status LEDs</li> </ul>	<p><b>Maximum Cable Length</b></p> <ul style="list-style-type: none"> <li>• Low Voltage Differential [LVD] 10 m, server to enclosure</li> </ul>
<p><b>Drive Interface</b></p> <ul style="list-style-type: none"> <li>• Single Ultra160 SCSI interface port on each drive [160MB/sec]</li> </ul>	<p><b>Host Interface</b></p> <ul style="list-style-type: none"> <li>• 1 or 2 160MB/sec Ultra160 SCSI connections per enclosure</li> </ul>	<p><b>Electromagnetic Emissions—Single Enclosure</b></p> <ul style="list-style-type: none"> <li>• FCC Class B</li> <li>• EN 55022 Class B</li> </ul>
	<p><b>Supported Systems</b></p> <ul style="list-style-type: none"> <li>• SGI® Origin® 300 server</li> <li>• SGI® Origin® 3000 series</li> <li>• SGI® Onyx® 3000 series</li> <li>• Silicon Graphics® Octane2™</li> </ul>	<p><b>Safety</b></p> <ul style="list-style-type: none"> <li>• UL 1950</li> <li>• CUL 1950</li> <li>• EN 60950</li> </ul>
		<p><b>Quality Standard</b></p> <ul style="list-style-type: none"> <li>• Manufactured under an ISO 9001–registered quality system</li> </ul>



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