

Scalable Multi-Purpose
Storage

KEY FEATURES

Easy integration with
data-aware applications

Unmatched density and
scalability

Up to 85% reduction in
power consumption

Continuous Data
Verification

SGI® COPAN™ Native MAID - 300M

Cost Effective and Easy to Manage Storage for Persistent Data Files

With SGI COPAN 300M Native MAID, your company can leverage the full value of your persistent data. The 300M system presents a standard disk interface for persistent data-aware applications. Based on SGI COPAN Enterprise MAID (Massive Array of Idle Disks) platform, the 300M offers the reliability and responsiveness of disk at the scale and affordability of tape, all with the ease of managing up to 896TB of data in a compact storage footprint.

Patented Advantages

COPAN Native MAID - 300M takes full advantage of Enterprise MAID, in which only those disks that contain requested data by a specific application are powered on, and then are powered off when they are not needed. This makes SGI COPAN storage extremely energy efficient, significantly reducing the power consumption of the storage system by up to 85%. Coupled with economical packaging, the 896TB rack fits into just 10 ft² of floor space.

Ease of Integration with Disk-based Persistent Data-Aware Applications

To help effectively manage growing volumes of persistent data, the 300M offers all the advantages of Enterprise MAID technology, as well as seamless integration with disk-based, third-party solutions. It further unlocks the power of MAID technology by providing the flexibility to enable such activities as database tiering, asynchronous replication, file system migration, and disk-to-disk backups.



Leverage the Benefits of Patented Enterprise MAID Technology

Faster, Easier Access to Archive Data

Integrates with leading archive and tiering software applications to cost effectively maintain all long-term persistent and reference data on disk-based storage.

Superior Performance for Managing Persistent Data

Significantly improves access time to all your persistent data directly from disk, which reduces the uncertainty and delays typically associated with tape-based storage.

Enterprise Data Reliability and Integrity

Provides 6x greater data reliability over traditional disk-based platforms.

Reduced Operating Expenses

Gives you more than a 85% reduction in power and cooling costs versus traditional disk arrays.

COPAN Enterprise MAID also offers these unique features:

Patented DISK AEROBICS® Software

Provides ongoing and continuous data verification by periodically exercising all disks and detecting potential drive failures before they occur.

Patented POWER MANAGED RAID® Software

Provides full RAID 5 protection for all the data and manages the power budget (maintaining the maximum of 25% of disks spinning at any one time.)



COPAN Native MAID - 300M

Advantages

Superior Performance and Faster, More Reliable Backups and Restores

More reliable backups and faster restores than automated tape libraries. Your data is better protected than with tape, with complete online access to all your critical data.

Multiple Personality Flexibility

The 300M can co-exist with the 300T/TX VTL. This flexibility enables customers to deploy multiple solutions within a single cabinet, saving footprint while meeting all business objectives.

Breakthrough Scale and Economics

Unparalleled capacities up to 896TB within a single chassis at prices that rival physical tape.

Reclaim Storage Assets

Archiving of digital assets frees up Tier 1 storage infrastructures to and be used for more transaction intensive operations.

Power and Footprint Savings

Patented Enterprise MAID saves up to 85% on power and cooling and offers up to 896TB of capacity in a 10 ft² footprint.

Configuration Specifications

www.sgi.com/products/storage

Configurations	
Raw Storage Capacity	28TB to 896TB per cabinet
Number of Shelves	1 – 8
Connectivity	Up to sixteen 2-Gbps Fibre Channel ports
Performance	
Maximum Aggregate Throughput	5.2TB per hour
Reliability	
RAID	RAID 5 with POWER MANAGED RAID® software
Alert Messaging	SMTP, SNMP
Power Supplies	N+1 Redundancy, Hot Swappable
Dual Power	Redundant
Fans	Redundant
Specifications	
Max Spinning Drives at Full Operation	25%
Spare Drives	5 per shelf for a maximum of 40
Disk Drive	1TB SATA
Dimensions	30" w x 48" d x 87" h
Clearances	Front – 40", Rear – 36", Side – 0"
Weight	Maximum 3,193 lbs.
Power Consumption - Standby (min / max)	425 / 2,714 watts
Power Consumption - Full Operation (min / max)	1046 / 5452 watts
Heat Dissipation - Standby (min / max)	2,406 / 11,922 BTU / h
Heat Dissipation - Full Operation (min / max)	3,869 / 21,729 BTU / h
AC Power	200 – 240 V, 30 AMP, 3-phase
Operating Temperature	50 – 95 °F (10 – 35 °C)
Humidity	8% – 80% non-condensing
Regulatory Approvals	cULus, FCC class A
Standard Product Warranty	1 year
System Management	
Revolution Management Console	GUI (local or remote), CLI
Supported Disk-Based Applications	
File System	Quantum® StorNext®

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