

MAID Storage with
Unmatched Density
and Energy Efficiency

KEY FEATURES

Over 4x more
throughput

Easy integration with
data-aware applications

Unmatched density and
scalability

Up to 85% reduction in
power consumption

Continuous data
verification

SGI® COPAN™ 400M Native MAID Storage



Cost Effective and Easy to Manage Archive for Persistent Data

SGI COPAN 400M manages persistent data. COPAN 400M presents a standard disk interface for persistent data-aware applications. Based on the COPAN Enterprise MAID (Massive Array of Idle Disks) platform, COPAN 400M offers the reliability and responsiveness of disk at a fraction of the cost of transactional storage, all with the ease of managing up to 2.7PB raw of data in a compact storage footprint.

The MAID Advantage

COPAN 400M takes full advantage of Enterprise MAID, whereby 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%. Economical design allows, the 2.7PB chassis to fit into just 10 sq. feet of floor space.

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

COPAN 400M can be integrated with tiered virtualization solutions like SGI's DMF to more deeply extend the advantages of MAID technology deeper into the workflow. This further unlocks the power of MAID technology to flexibly deliver database tiering, file system migration, and disk-to-disk backups.

Enterprise MAID Technology

Faster, Easier Access to Archived Data

Integrates with leading Disk to Disk backup solutions and tiered virtualization software applications to cost effectively maintain all long-term persistent and reference data on disk-based storage.

Superior Performance for Managing Persistent Data

Up to 6,400 MB/s (23TB/hr) of disk-based throughput significantly improves access time to all your persistent data compared to tape-based storage.

Enterprise Data Reliability and Integrity

Provides 6x greater data reliability over traditional SATA ^{raw} disk-based platforms.

Reduced Operating Expenses

Provide up to an 85% reduction in power and cooling costs versus traditional disk arrays.

COPAN Software

Patented Disk Aerobics® Software

Provides 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 data protection and helps lower energy costs as a maximum of 25% or 50% of drives are powered on at any one time and are powered down when not in use.

* Capacity assumes 2TB drive technology

SGI COPAN 400M

Native MAID Storage

Advantages

Superior Performance and Faster, More Reliable Data Retrievals

With throughput up to 23TB an hour, critical data is more quickly accessible, and can be restored faster and more reliably than with tape.

Multiple Personality Flexibility

COPAN 400M can co-exist with Virtual Tape. 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 2.7PB within a single chassis with costs much lower than traditional storage.

Reclaim Storage Assets

Archiving of digital assets frees up Tier 1 storage infrastructures to 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 2.7PB of capacity in a 10 sq. feet footprint.

Configuration Specifications

www.sgi.com/copan400

Configurations	
Raw Storage Capacity	224TB to 2688TB per cabinet
Number of Shelves	1-8
Connectivity	Up to eight 8-Gbps Fibre Channel ports
Performance	
Maximum Aggregate Throughput	6,400 MB/s (23TB/hr)
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, hot swappable
Specifications	
Max Spinning Drives at Full Operation	up to 50%
Spare Drives	5 per shelf for a maximum of 40
Disk Drive	2TB & 3TB SATA
Dimensions	30" (76.2 cm) w x 48" (121.9 cm) d x 87" (221 cm) h
Clearances	Front-40" (101.6 cm), Rear-36" 91.4 cm), Side-0"
Weight	Maximum 3,193 lbs. (1,447 kg)
Power Consumption @ Standby (min/max)	426/2,080 watts
Power Consumption @ 25% power (min/max)	649/3,819 watts
Power Consumption @ 50% power (min/max)	940/6,554 watts
Heat Dissipation @ Standby (min/max)	1,455/7,099 BTU/hr
Heat Dissipation @ 25% power (min/max)	2,214/13,031 BTU/hr
Heat Dissipation @ 50% power (min/max)	3,209/22,363 BTU/hr
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	
Storage tiering software	SGI Data Migration Facility (DMF)
D2D backup	Quantum® StorNext® IBM® TSM®, CommVault® Simpana®

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