



SAN! IN-A-CAN™

...a hardware-based, single-point solution for creating, managing and controlling Storage Area Networks.

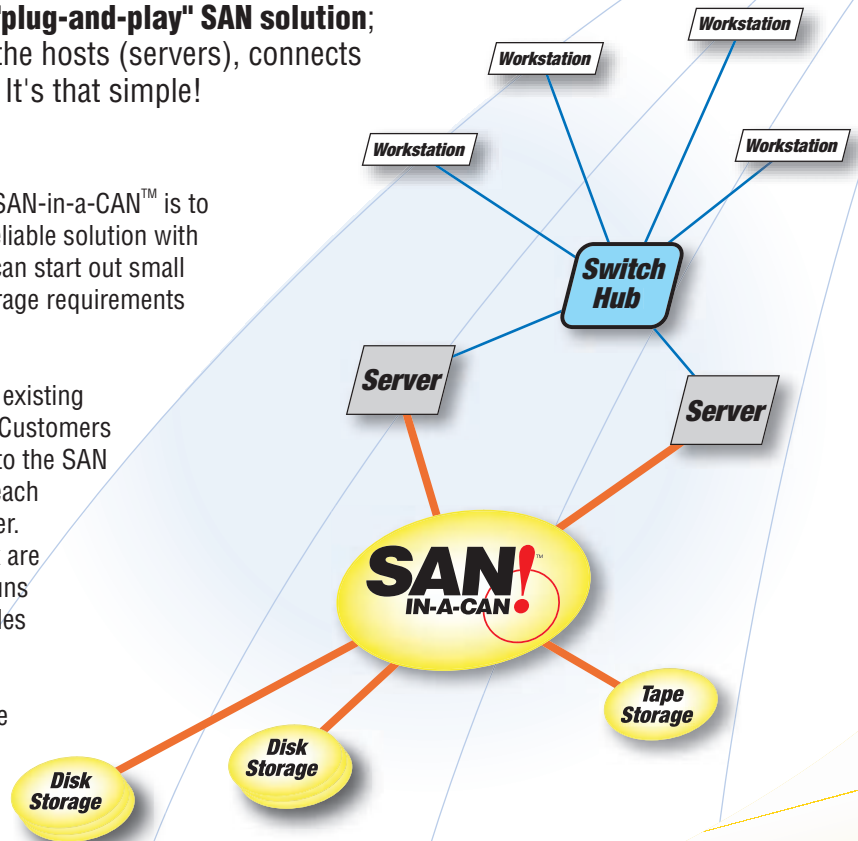
RMSI has developed **SAN-in-a-CAN™** to be a **fully-integrated, cost-effective** hardware-based storage solution that includes RAID controller(s), storage management software, and Fibre Channel fabric switch into a single 5U rackable enclosure.

It's the closest thing yet to a "plug-and-play" SAN solution; the user selects the drives and the hosts (servers), connects the hosts and drives, and goes. It's that simple!

RMSI's fundamental concept behind SAN-in-a-CAN™ is to provide customers with a powerful, reliable solution with a scalable, modular architecture that can start out small and grow as their server and data storage requirements grow.

SAN-in-a-CAN™ easily integrates with existing departmental or enterprise networks. Customers designate which servers will connect to the SAN fabric, install Host Bus Adapter(s) in each selected server, and add a device driver. No other modifications to the network are required and no additional software runs on servers to take up valuable I/O cycles or processor power.

Entry-level configurations are available complete for under \$100K, making SAN-in-a-CAN™ one of the most cost-effective and high-value products available in the SAN marketplace today.



Technical Data



Bringing Technology Together™

For more information or to place orders:
call 1-800-366-4767, in Northern California call 1-916-858-3300
or email info@teamrmsi.com

SAN! IN-A-CAN!

SWITCH MANAGEMENT

Fibre Channel Ports Web Based Management, SNMP, TELNET, TFTP, Serial Port

Management Access 10/100 Ethernet (RJ-45), serial port
Management Features Enhanced port health statistics and diagnostics

Management SNMP MIB Fibre Alliance MIB

AGENCY APPROVALS & STANDARDS CONFORMANCE

COUNTRY SAFETY EMC

United States NRTL (UL1950/C22.2-950/95) FCC Class A

Canada NRTL (UL1950/C22.2-950/95) ICES-003 Class A

Europe EN60950 EN55022, EN55024, CE

Japan IEC60950 VCCI Class A

Australia AS/NZS 3260 AS/NZS 3548 Class A

International IEC60950 CISPR22, CISPR24

* Requires fabric upgrade

SWITCH ARCHITECTURE

Fibre Channel Ports 12

Physical Interface Hot-pluggable industry standard GBIC interfaces at all ports

Supported GBIC Types Short-wave optical (up to 500m/1640ft), long-wave optical (up to 10km/6.2 miles), DB9 active copper (up to 30m/100ft), HSSDC active copper (up to 30m/100ft), HSSDC passive copper (up to 13m/43ft)

Port Types Each port supports FL_Port, F_Port, E_Port, or Stealth-3 Port; self-discovering and self-configuring based upon connection type

Scalability Interconnect over 200 switches

Certified Maximum Up to 15 switch hops, multiple ISLs supported between switches for failover redundancy



PERFORMANCE

Port Speed 1.0625 Gb/sec bi-directional (200MBps per port, full duplex)

Fabric Latency Less than μ sec with no contention, cut-through routing

Performance Full line-speed switching

Switch Aggregate Bandwidth 32 Gb/sec

Port Frame Buffers 32 Frame buffers per port (2112 byte frame size)

Switch Core Non-blocking

Redundancy N+1 cooling

FABRIC SERVICES

Fabric Services Simple Name Server (SNS), Registered State Change Notification (RSCN), Fabric Address Notification (FAN), Automatic Fabric Configuration, IP over FC Broadcast Server

Interoperability Designed to comply with ANSI SW-2 FSPF Routing Protocol for true standards based multivendor fabrics

Zoning Hardware Integrated Port Zoning STEALTH-3 ARBI

TRATED PRIVATE LOOP

LIP Zoning Delivers the most complete set of tools for ensuring robust SAN operation by closely managing Loop Initialization Primitives (LIP), scope and propagation

Instant Loop Provides automatic SAN configuration in minimum time with maximum interoperability

Expert Mode Offers SAN designers optional control of SAN addressing down to the individual node level

STORAGE MANAGEMENT

SVM simplifies storage management by providing a central point for managing all enterprise SAN resources. Web-enabled intuitive GUI accessible through any standard browser.

INTEROPERABILITY AND SHARING RAID MANAGEMENT

Volumes can be allocated to multiple servers, which enables sharing of storage between them, using cluster management software, SAN file systems, and shared database managers. Volumes can be reallocated from host to host, without copying.

SAN SCALABILITY

The SVM enables virtually limitless growth in storage capacity, I/O performance and bandwidth, as well as storage domain hierarchy for constructing very large SAN configurations.

SAN SECURITY

Volumes must be explicitly allocated to servers before they are accessible. SVM can automatically configure zoning of SAN switches, preventing access from servers not running the SVM driver.

HIGH PERFORMANCE

Direct data transfer between servers and storage resources. Striping across RAID arrays and JBODs further increases total storage performance.

HIGH AVAILABILITY

Complete redundancy is supported. Modifications to system configuration (add or delete servers or storage resources; create or reallocate volumes) are done on the fly without system re-boot. Volume driver on each server supports multiple paths with automatic fail-over.

STORAGE APPLICATIONS

The SVM provides a foundation for advanced enterprise disaster recovery, back up and other SAN aware storage applications.

Servers are connected to the SAN with standard HBAs Volume driver in each server supporting failover and load leveling across multiple HBAs Standard FC RAID subsystems/ JBODs and FC tapes or libraries Web-enabled management.



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