

RAM-SAN™

The World's Fastest Storage®

- Database Storage
- Batch Processing
- Web Content
- Data Acquisition
- Seismic Processing & Visualization
- Video on Demand
- Non-linear Video Editing
- E-mail Acceleration
- Data Warehousing

WHEN YOU HAVE PERFORMANCE PROBLEMS

You have probably attempted to resolve application performance problems with one of the following approaches: adding servers, tuning SQL statements, increasing bandwidth, removing functionality, moving to RAID, and adding additional disks.

These likely sources for application performance problems are just masquerading the true cause of poor application performance: the gap between processor performance and storage performance. Adding servers and processors minimally affects application performance and compounds the resources wasted as even more processing power waits on the same slow storage. Tuning SQL can result in performance improvements, but even the best SQL cannot make up for poor storage I/O. In many cases, customers remove functionality that relies heavily on disk I/O, large queries, and large data sets, from applications in order to protect performance.

Because hard drives are mechanical in nature, they will always be much slower than servers. Increasing storage densities are only slowing data access speeds.

YOUR SOLUTION IS RAMSAN ENTERPRISE SOLID STATE DISK

RamSan solid state disk customers observe application performance increases where other solutions fail. Real world customers have experienced 2x to 7x improvements in OLTP response times and 2x to 25x improvements in batch processing durations.

"The RamSan met our performance objectives at less than half the cost of our alternative."

-DBA, Kelsey-Seybold Clinic

When customers move their entire database or 'hot' files to the RamSan-325c, their applications speed up. Because the RamSan stores data in **DDR RAM**, data reads and writes occur instantaneously. This fast access dramatically improves overall throughput and query response time. The RamSan's amazing **3 GB per second random, sustainable bandwidth** and **400,000 I/Os per second** mean that it can simultaneously boost performance for multiple servers.

RAMSAN-325c INTEGRATES SEAMLESSLY INTO YOUR ENVIRONMENT

The RamSan-325c behaves as a simple disk to the storage network or attached servers, which means easy implementation in virtually any environment that supports Fibre Channel. To ensure seamless operation and integration, TMS has partnered with every major server, switch, and HBA manufacturer.



RamSan-325c

THE ONLY SSD THAT HELPS YOU SLEEP BETTER AT NIGHT

The RamSan-325c is the only solid state disk that understands that different data needs to be protected differently. Even a single application can use different kinds of data: written once and frequently read data (web pages and some data warehouses); frequently written and rarely read data (redo logs); and data with a healthy mix of reads and writes (tablespaces).

Other solid state disk companies make you use a 'one-size fits all' model for protecting your data: they back up data on power failure. Period. Texas Memory Systems realizes that different types of data need different types of data protection so that storage administrators can sleep better at night. The RamSan-325c is the first solid state disk to offer a range of data protection modes:

Data Sync Mode. When external power fails, most SSDs backup data to a single backup hard disk drive. Your data deserves a better chance of survival than relying on the health of a single disk drive. Therefore, the RamSan-325c uses four hot-swappable disk drives. Even if a drive fails, the RamSan-325c continues to backup your data.

Active Backup™ Mode. This ideal mode is only available from Texas Memory Systems. In active backup mode, the RamSan uses available internal bandwidth to constantly backup memory to the disks. The system automatically optimizes this operation to backup the maximum amount of data at any given time without impacting performance. At any one time, most of the data already resides on disk. Upon emergency or shutdown, the unit need only finish the nearly completed backup.

The RamSan-325c delivers extra flexibility by allowing the storage administrator to select the data protection mode on a LUN by LUN basis.

Supporting the process is the industry's best data persistence system. Virtually all solid state disks include a battery and an internal backup disk, but the RamSan-325c goes beyond that by including N+1 redundant battery systems and a four disk, hot swappable and redundant internal RAID backup system. Data backs up to the RamSan's disk at the industry's highest rate.

It's your data - you should decide how to protect it.

EASY TO MANAGE

The RamSan-325c offers the widest array of manageability features of any solid state disk. Either through Telnet or through any browser on the network, the administrator can configure up to 64 logical units (LUNs) with LUN masking. The RamSan-325c is fully SNMP capable and includes a front panel display that allows for status reports and basic control of the unit at a glance.

ABOUT TEXAS MEMORY SYSTEMS

Since 1978, Texas Memory Systems (TMS) has been the leader in performance storage and maintains this position through constant innovation and engineering.

REASONS TO DEPLOY THE RAMSAN-325c

Accelerate applications

2-25x performance improvements in batch and OLTP response times.

Security and peace-of-mind

Active Backup™ constantly backs up mission critical data to magnetic storage.

Offer peak service levels

The RamSan-325c enables customers to offer peak service levels to their biggest customers.

Proven technology

For over 25 years, Texas Memory Systems has designed and manufactured solid state disks.

Dropping prices

The cost to purchase solid state disks has dropped 50% over the last three years.

Consolidate servers

Extends the life of existing server implementations, enabling server consolidation and reduced licensing costs.

World's Fastest Storage®

The only storage capable of simultaneous high-I/O traffic and high bandwidth traffic 24x7x365.

Scalability

With up to 64 GB (325c) in a single 3U unit, Large installations are practical.

Call us at **713-266-3200** today to speak with a storage systems specialist!
Or, to learn more about TMS's solutions, please visit **www.superSSD.com**