



For editorial information and photography:

Federica Monsone

A₃ Communications

+44 (0) 1252 875 203

fred.monsone@a3communications.co.uk

Texas Memory Systems Introduces the World's Fastest and Highest-Capacity RAM Solid State Disk

New RamSan-440 solid state disk system sustains performance up to a record 600,000 IOPS, quadruples capacity for RAM-based solid state disks, and increases availability with patented features

London, UK, 22nd July 2008 – Texas Memory Systems, maker of the World's Fastest Storage®, today announced that the company has been granted a patent for its Instant-On Input-Output (IO²) technology, which enables instant access to data from a RAM-based Solid State Disk (SSD) after a unit is powered on. Without this technology a half-terabyte of data could take up to two hours to be available from SSD memory after a power outage. announced the RamSan-440 — a new solid state disk with record high performance, record high capacity for a RAM-based system, and a combination of features that help ensure the highest availability of data to its users. The RamSan-440 is the world's first non-volatile RAM-based solid state disk (SSD) to sustain up to 600,000 IOPS (input/outputs per second) and deliver up to 512GB of storage capacity in a 4U rack-mount chassis. It's also the first SSD to use RAIDed NAND Flash memory modules for data backup, and the first system to incorporate Texas Memory Systems' patented IO² (Instant-On Input-Output) technology.

Solid state disks, like Texas Memory Systems' RamSan-440, allow organisations to manage very high transaction volumes and larger numbers of concurrent users with fewer servers, less power, and without excessive application tuning, thus increasing performance while lowering cost and administration efforts. RamSan solid state disks are used in the financial, telecom, e-commerce, and online-gaming industries, as well as government, military, and research organisations for online transaction processing, data warehousing, and batch processing.

Typically, solid state disks are deployed alongside traditional storage. For example, frequently accessed database tables and indexes may be stored on the RamSan, while less performance-sensitive database components remain on existing hard disk based storage. However, the growing size of mission-critical databases and the falling cost of solid state disks have increased demand for high-performance, high-capacity SSDs. The RamSan-440 meets this demand without sacrificing reliability or value.

The RamSan-440 uses DDR2 (double-data-rate) RAM to deliver 600,000 sustained random IOPS and over 4GB/second of sustained random read or write bandwidth, with latency of less than 15 microseconds. It is available in 256GB and 512GB configurations in a 4U chassis. The

system can be SAN-attached or direct attached through up to eight 4Gb/second Fibre Channel ports. Multiple RamSan-440s can be combined to scale performance and capacity.

The RamSan-440 uses RAID protected Flash memory modules to rapidly back up the RAM-based data and ensure non-volatility for the system. In Active Backup mode, the RamSan-440 continuously backs up data to the internal redundant Flash modules without impacting system performance. The RamSan-440 can back up or restore the entire 512GB of data in just six minutes. Texas Memory Systems' patented IO² technology further improves system availability by making user or application-requested data instantly accessible after the system is powered on. Without IO² type technology a half-terabyte of data could take up to two hours to be available from other RAM SSD products after a power outage. Additionally, the RamSan-440 is the only SSD to incorporate both IBM ChipKill™ technology and RAID protected RAM to protect against chip or board failures. By providing multiple layers of storage protection, the RamSan-440 offers enterprise users unparalleled levels of data protection and system reliability.

"IT managers are seeking faster application performance as they store and interact with larger pools of data within their data centres," said Jeff Janukowicz, research manager for solid state drives at IDC. "Vendors such as Texas Memory Systems offer innovative storage solutions based on solid state storage to achieve significant performance gains to meet these increasing demands. For performance-driven applications, IT managers many times place a priority on price-performance metrics over traditional price-capacity metrics in order to achieve their desired performance goals."

The RamSan-440 is immediately available. More information is available online at <http://www.superssd.com/products/ramsan-440>.

About Texas Memory Systems

Texas Memory Systems (<http://www.texmemsys.com>), the market leader in solid state disks, produces the World's Fastest Storage®. Its award winning RamSan line of solid state storage is used to accelerate enterprise applications like OLTP databases, batch processes, and data warehouses. Founded in 1978, the company sells direct to large enterprise and government organisations. Its products are also available through OEM and reseller partners.

Texas Memory Systems, *World's Fastest Storage*, and *RamSan* are trademarks or registered trademarks of Texas Memory Systems. All other trademarks belong to their respective owners. ChipKill is a trademark of IBM Corp.

###