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Joey Maitra  
Magma  
jmaitra@magma.com  
+858-530-2511 x 227

Herman Paraison  
Dolphin  
paraison@dolphinisc.com  
+508-786-9950x137

## **Dolphin and Magma announce jointly developed PCI Express Flash Storage Appliances**

StorExpress products provide up to 2TB capacity, 270K IOPs and 50 microsecond latency in low profile 2U enclosure

**San Diego, CA & Marlborough, MA – April 21, 2009** -- [Dolphin ICS](#), a global provider of ultra low-latency server and storage connectivity solutions and Magma a leader in PCI Express expansion and connectivity solutions today unveiled new jointly developed storage appliances. Based on leading edge PCI Express flash storage technology the new StorExpress products break new ground for density, performance and configuration flexibility.

The low profile StorExpress appliance is available in capacities of .5TB, 1TB and 2TB providing over 270K read and write IOPs (512 bytes to 4KB blocks) and up to 2800 MB/sec of sustained bandwidth. StorExpress is directly attached to host servers via PCI Express with x8 or dual x8 cables. The direct PCI Express connectivity eliminates need for intermediate protocols and achieves less than 50 microseconds of latency.

With major advances in reliability, write performance and cost; PCI Express based flash storage solutions are growing rapidly as internal server storage. StorExpress adds the advantages of remote storage to this technology. This is particularly useful for 1U or blade servers that are typically PCI Express slot constrained. These systems can now have multi-terabytes of direct attached, extremely fast storage. Additionally, the StorExpress enclosure can be positioned up to 300m away from the host server using fiber which is very useful in applications where security or noise isolation is critical.

Beyond classic remote storage benefits, StorExpress seamlessly integrates with Dolphins PCI Express server connectivity products to provide flexible combined

clustering and storage solutions. Multiple StorExpress appliances can be attached to a single server or multiple servers can share a StorExpress appliance. Ideal configurations can be created for high performance database or low latency financial applications, as well as many performance sensitive industrial and HPC applications.

“PCI Express, with its tight linkages to microprocessors is the natural technology for creating high performance systems. Dolphin has been a leader in creating cluster and multi-server solutions using PCI Express. StorExpress is a natural extension of that focus by incorporating PCI Express flash storage,” said Tim Miller, CEO Dolphin. “By partnering with Magma we have created an exceptional solution - simple, elegant, cost effective yet capable of delivering world class performance and flexibility.”

“Advances in CPU performance have long outpaced those of hard drives, causing more database applications to become I/O-bound. StorExpress shifts that balance, enabling solutions like ScaleDB Cluster for MySQL to achieve new levels of performance,” said Mike Hogan, CEO of ScaleDB. “This powerful combination of ultra-fast storage and shared-disk clustering is what led us to work with Dolphin on the forthcoming MySQL appliance.”

“Magma has been a leader in bringing innovative solutions to market based on PCI and PCI Express,” said Randy Jones, CEO of Magma. “We are please to partner with Dolphin to create a storage solution leveraging our expertise that is on the leading edge of a major market transformation.”

The new StorExpress products are available for order immediately with delivery in May. Prices start at under \$20K.

### **About Dolphin**

Dolphin ICS, of Oslo, Norway and Marlborough, Massachusetts (USA) accelerates applications with ultra low-latency, high-bandwidth server connectivity based on PCI Express. Its products are cost effective, easy to install and ideal for clustered database, web services and industrial applications. Dolphin’s interconnect software is fully compatible with standard applications making integration seamless. Dolphin also provides application acceleration with its StorExpress high performance PCI Express flash storage solutions. For more information, please visit [www.dolphinics.com](http://www.dolphinics.com).

### **About Magma**

MAGMA is the leading provider of PCI and PCI Express expansion solution for several industries. Manufactured and sold out of San Diego, California, MAGMA provides innovative, high-tech expansion solutions and connectivity solutions to major original equipment manufacturers (OEMs), resellers and end-users in more than 45 countries. In addition to a broad portfolio of expansion and connectivity related patents, MAGMA's

solutions include: PCI Express expansion, PCI & PCI-X expansion, OEM board-sets & upgrades and StorExpress high performance PCI Express flash storage solutions. For more information please visit [www.magma.com](http://www.magma.com)