



Echostreams Takes Advantage of LSI® Syncro® CS Solution from Avago Technologies to Offer High Availability DAS in a Single Appliance

High availability server and storage appliance provides an all-in-one solution

No one disputes that protecting data is incredibly important. That is why data protection schemes, such as RAID, have become ubiquitous. However, protecting data access is just as important as protecting the data itself. This is especially true for small to medium size businesses (SMBs) and remote offices and branch offices (ROBOs). If a business loses data access that could mean a retail store is unable to process transactions, an accounting company cannot issue payroll, or a small town doctor can't pull up a patient's medical records. Losing data access, even if the data is still safe, can be catastrophic.

Key Benefits

- SMBs and ROBOs cannot survive a loss of data access
- The Syncro CS solution offers an easy, affordable solution for HA-DAS
- Highly redundant appliance offers a single unit solution

As important as protecting data access is, finding a practical way for SMBs and ROBOs to put in a system that offers multiple paths to storage that is fast, easy and affordable has been a challenge. While network based solutions such as SANs and NAS have been very good at providing data redundancy to large datacenters and corporate offices, they have proven too complex, too expensive and too limiting in performance to be effective in smaller scale. A better solution is needed.

Built on award-winning MegaRAID® technology

To meet this need, Echostreams is taking advantage of the revolutionary LSI Syncro CS solution to offer a family of true high availability (HA) Cluster-in-a-Box (CiB) converged server and storage solution platforms. The Syncro CS solution takes the most used data protection technology in the industry, LSI MegaRAID, and adds unique technology to support a redundant, scalable Direct Attach Storage (DAS) solution within a pair of servers. A redundant storage server solution changes the paradigm by allowing for two server nodes to share the same storage for HA data access. The use of DAS to achieve this is important in that DAS is the oldest, most widely used, and best understood storage interconnect, all of which combines to make it the easiest to use. By removing the need for networking expertise and eliminating the capital costs for equipment such as routers and switches, the Syncro CS solution is simpler to manage and less costly than other solutions. When used in conjunction with new advances in software that make server clustering easier than ever, the Syncro CS offers a true HA solution that is fast, easy and affordable.

The Echostreams DuraStreams DSS212, DSS320 and Griffin2 appliances provide an ideal platform to take advantage of the CiB functionality of the Syncro CS solution to offer SMB and ROBO offices a HA solution all-in-one unit. The 2U and 3U appliances support dual redundant server boards, redundant power supplies and fans as well as support for 12,16 LFF, or 24 SFF disk drives. When used with the MegaRAID technology available in the Syncro CS solution and server clustering, these appliances offer a single appliance solution that SMBs and ROBOs can use to ensure that they always have access to their data.



SMBs and ROBOs need continuous access to data and they need that access to be fast, easy and affordable. The Echostreams appliances and the Syncro CS solution provide:

- HA with storage controller failover and RAID data protection
- Better Total Cost of Ownership (TCO) through lower costs, easier management and increased resource availability
- A high performance shared DAS solution

Syncro CS solution

Built with LSI MegaRAID technology, the Syncro CS solution supports both Microsoft Windows and Linux to easily implement shared storage arrays for high availability at an affordable cost.

The Syncro CS solution also affords broad flexibility to configure shared storage arrays with a mix of up to 120 physical hard disk drives and/or solid state drives (SSDs) in the HA storage domain, and up to 64 virtual drives with either shared or exclusive host access.

Echostreams DuraStreams high availability server appliances

The Echostreams appliances offer SMBs high availability CiB redundant server and storage solutions. Designed for maximum uptime and availability these appliances can offer an all in one private cloud solution.

The DSS212, DSS320 and Griffin2:

- Are the ideal building block for redundant unified storage, virtualized server and storage and VDI appliances
- Provide HA through redundant server nodes, power supplies and cooling fans
- Support 12 3.5" (DSS212) or 16 (DSS320) 3.5" and 24 (Griffin2) 2.5" SAS drives



About Avago Technologies

Avago Technologies is a leading designer, developer and global supplier of a broad range of analog, digital, mixed signal and optoelectronics components and subsystems with a focus in III-V compound semiconductor design and processing. Backed by an extensive portfolio of intellectual property, Avago products serve four primary target markets: wireless communications, wired infrastructure, enterprise storage, and industrial and other. For more information, visit Avago's website: www.avagotech.com.

About Echostreams

EchoStreams is an OEM/ODM solutions provider focused specifically on Server and Storage technologies. By offering purpose-built server and storage solution platforms, designed for SMB server/storage virtualization, VDI, digital content streaming, cloud-integrated-storage, SSD flash for I/O acceleration and datacenter warm/cold storage applications, to system integrators and solution providers, Echostreams enables customers to offer higher efficiency and performance solutions that are disruptive to their respective industries. Echostreams is committed to drive for the evolution of technologies behind IT infrastructures.