

Building Higher Availability

AIC High Availability Storage Solutions Deliver Simplified and Affordable Server Clustering with Avago Technologies LSI® Syncro® CS Solution.

Executive Summary

As storage capacities and workloads continue to increase, datacenters are being taxed to keep up with the increasing volume of information. IT staffs are challenged with inflexible architectures, increased complexity and outdated technologies. What is needed are storage solutions with higher performance availability, faster storage provisioning and higher service levels for storage solutions.

That's why AIC has teamed with Avago, a leading provider of highly reliable server and storage solutions, to produce the AIC high-availability (HA) server model number HA401-CP2 and AIC 5U90Bay JBOD model number J5090-01, featuring the LSI Syncro CS solution. The combination of AIC storage and Syncro CS solutions provide the latest technology innovations with the highest return on investment, for maximum reliability and performance for any application or vertical market. They work together to provide a complete, HA server storage solution.

The LSI Syncro CS solution, built on the company's award-winning MegaRAID® technology, supports a sharable and scalable Direct Attach Storage (DAS), while providing high-level data protection capabilities. The Syncro CS solution helps reduce the need for networking expertise and cut costs for equipment like routers and switches, making it simpler and less expensive than other solutions. When used with AIC's storage solutions, it simplifies server clustering for a true HA solution that is fast, easy and affordable. Because Syncro CS cards fit directly into AIC solutions, the server boards easily communicate and share the storage pool to avoid failure.

Key Benefits

- Fully redundant and fault-tolerant storage with all field replaceable units (FRUs) being hot-swappable
- SAN-like shared storage and failover capabilities at DAS price points
- Combines server redundancy with RAID data protection to run mission-critical applications locally
- Reduced complexity without the need for additional IT expertise

AIC HA401-CP2 4U24Bay High-availability Server

The HA401-CP2 server is the ideal solution for any organization that requires a powerful storage server solution for mission-critical, enterprise-level storage applications where storage and workloads are increasing. It's particularly effective for datacenters, finance, high-performance computing (HPC) and broadcasting. It features high performance and density with a fully redundant and fault-tolerant storage system with hot swappable field replaceable units (FRUs).

Each server controller has been integrated with the LSI Syncro CS 9271-8i and 9286-8e solutions. The 9271-8i provides a HA cluster-in-a-box solution for business continuity without the cost and complexity of traditional SAN solutions. The 9286-8e creates a two-server HA cluster from standard servers, as well as JBODs for business continuity using shared DAS.

The top benefits of the HA401-CP2 server are:

- HA storage server that leverages SBB standards with the use of COTS components
- Fully redundant and fault-tolerant. All FRUs are hot swappable and feature 10 GbE (or Non-Transparent Bridging [NTB]) inter-canister communication
- Dual processor SBB with maximum memory and IO support

Summary

AIC and Avago work together to form complete, HA server storage systems that address the demands of today's storage environments. Because Syncro CS cards fit directly into AIC solutions, the server boards easily communicate and share the storage pool for robust server redundancy and data protection. Plus, the Syncro CS solutions helps increase application uptime and reduce latency in distributed compute environments. Through industry-leading technology from AIC and Avago, organizations get maximum reliability and performance for any application or vertical market, with a higher return on investment.

AIC J5090-01 5U90Bay JBOD Storage Solution

The J5090-01 storage solution is perfect for datacenters in need of high storage density per rack. It is specifically designed for targeted applications such as near-line database expansion, virtual tape libraries, digital content archive, data center and cold storage.

The J5090-01 relies on Syncro CS solutions to facilitate use of shared storage in a HA environment. The J5090-01 will be available in June 2014 through AIC authorized distributors and resellers.

The top benefits of the J5090-01 storage solution are:

- High performance and density
- Power saving features
- Easy deployment, maintenance and management
- Tool-less drive tray design
- Intelligent enclosure management



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