SOLUTION BRIEF

SUPERMICRO AND STORMAGIC DELIVER SIMPLIFIED HYPERCONVERGED INFRASTRUCTURE

SYS-112B-FWT

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Executive Summary

In today's fast-paced digital world, businesses need IT infrastructure that adapts to their unique demands, especially at the edge. Businesses require the ability to choose the perfect infrastructure, without compromise. Whether it's a compact, edge-optimized model for remote locations or a high-performance traditional rack server for core operations, organizations need a solution to fine-tune their environment for both performance and cost efficiency.

Full-Stack HCI Solution

StorMagic and Supermicro have collaborated to validate joint solutions that support a wide range of deployment needs. These integrated appliances are delivered through our strategic integration partners, providing validated, easy-to-deploy solutions that simplify procurement, deployment, and ongoing operations.

By combining StorMagic with the diverse Supermicro server portfolio, businesses can confidently achieve a right-sized hyperconverged infrastructure. This collaboration allows you to choose the ideal server model for your needs, eliminating overprovisioning while ensuring simplicity, reliability, and cost-effectiveness.

- StorMagic simplifies hyperconverged infrastructure at the edge, allowing enterprises, ROBOs, and SMBs to deploy a full-stack HCI solution on a single server or a two-node setup for high availability and zero downtime.

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- Supermicro's validated IoT SuperServers deliver the speed, reliability, and scalability edge applications demand, powering multi-access, enterprise workloads, and 5G deployments with top-tier performance.

- StorMagic and Supermicro servers eliminate unnecessary complexity, maximize efficiency, and provide an affordable, high-performance infrastructure designed for edge environments.

Validated Supermicro Servers

StorMagic's software has been validated on a curated range of Supermicro servers, each delivering distinct advantages tailored to the unique demands of edge and distributed infrastructure.

When you need strong compute performance for edge workloads, the AS -E300-14GR delivers. It supports AMD EPYC 4004/4005 processors with up to 16 cores and 32 threads while maintaining a modest 65W CPU power envelope. Its compact form factor makes it easy to deploy in retail stores, branch offices, manufacturing sites, and other locations with limited rack space. Yet, it still offers impressive expandability for its size.

Figure 1 - Supermicro AS -E300-14GR Server

The **SYS-112B-FWT** packs flexibility and generous expansion capability for a 1U edge platform. Pair with StorMagic to get enterprise-grade virtualization and high availability, even in small remote offices or retail locations. It's designed with front I/O, power, and serviceability in mind for space-constrained environments, and supports both AC and DC power with redundant power supplies, maximizing deployment flexibility and uptime.

Figure 2 - SYS-112B-FWT

The **AS -1115SV-WTNRT** platform's AMD processor delivers significant parallel processing power for virtualization, database management, and edge computing workloads. Tailor your storage performance and capacity with 10 front hot-swap 2.5" drive

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bays supporting all-SATA, NVMe, or SAS configurations, or any hybrid mix. It contains the resources to deploy applications locally while maintaining the high availability your business depends on.

Figure 3 - AS -1115SV-WTNRT

When there's a need for hardware to support high-performance, data-intensive workloads, the **SYS-112B-WN2T** comes into its own. Deploy alongside StorMagic to enable highly available applications requiring GPU-accelerated compute to be located right where they are needed, at the edge. The 6 hot-swap 2.5" NVMe bays and 3 PCIe 5.0 slots give you significant capacity and flexibility within the space-efficient 1U form factor.

Figure 4 - SYS-112B-WN2T

These validated systems ensure that StorMagic's lightweight, high-availability HCI software can be deployed confidently in virtually any scenario—from single-server installations to two-node HA clusters—without overprovisioning.

Use Cases

Seamless IT – StorMagic and Supermicro deliver a powerful, cost-effective solution for industrial environments, enabling organizations to upgrade their infrastructure with high availability and minimal complexity.

Zero Downtime Deployment – StorMagic, running on Supermicro servers, ensures a smooth, uninterrupted transition to hyperconverged infrastructure. Businesses can repurpose existing SAN storage for backups while maintaining continuous operations.

Installation – Can be deployed as a single server, simple 2-node cluster, or multi-node cluster, with the flexibility to meet changing capacity and performance needs. This is achieved by adding additional capacity to existing servers or growing the cluster, without impacting service availability.

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Scalability – With StorMagic's flexible licensing model and Supermicro's scalable hardware, businesses can easily expand compute and storage capacity without disruption, adapting to future demands effortlessly.

Reduced Hardware Requirements – StorMagic is both server- and hypervisor-agnostic, giving customers flexibility during initial installation and over time as needs change. Because StorMagic only requires two servers, it can dramatically reduce overall hardware requirements.

Maximized Performance and Reliability – StorMagic synchronously mirrors data between Supermicro servers, eliminating single points of failure and ensuring high availability, uptime, and performance for mission-critical applications.

Cost-effective – By processing and storing data locally, this solution reduces cloud storage costs while delivering the high availability and reliability modern industrial operations require.

Data Protection and Storage Capacity – Reliable, resilient solutions protect data and eliminate the threat of downtime. At the same time, the StorMagic licensing model allows additional compute and storage capacity to be added without increasing costs or disruption.

Energy Efficiency – Software-defined StorMagic requires far less power and cooling than traditional physical SANs.

Conclusion

Combining StorMagic with Supermicro's high-performance servers gives businesses a flexible, scalable, and cost-effective IT system. This collaboration removes complexity, cuts hardware costs, and ensures zero downtime. Whether in remote locations, industrial sites, or enterprise data centers, organizations can easily upgrade their IT while maintaining smooth operations with high performance and reliability.

Summary

StorMagic and Supermicro have teamed up to create a simple, high-performance collaboration for edge computing. StorMagic and Supermicro's servers work together to simplify IT operations while boosting performance and cutting costs.

Businesses can build a flexible system with fewer hardware requirements, high availability, and easy scaling. With features such as real-time data mirroring, energy-efficient storage, and the ability to replace traditional SANs, this solution provides enterprises, ROBOs, and SMBs with the tools to improve their IT at the edge.

StorMagic software can be purchased pre-installed on the Supermicro server models listed in this document, thereby providing organizations with a complete, ready-to-go appliance solution. These integrated appliances are delivered through our strategic integration partners, providing validated, easy-to-deploy solutions that simplify procurement, deployment, and ongoing operations.

For More Information:

www.supermicro.com/edge-systems

www.stormagic.com/svhci

www.stormagic.com/svsan

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SUPERMICRO

As a global leader in high performance, high efficiency server technology and innovation, we develop and provide end-to-end green computing solutions to the data center, cloud computing, enterprise IT, big data, HPC, and embedded markets. Our Building Block Solutions® approach allows us to provide a broad range of SKUs, and enables us to build and deliver application-optimized solutions based upon your requirements.

Learn more at www.supermicro.com

STORMAGIC

StorMagic is solving the world's edge data problems. We help organizations of all types and sizes use, protect and manage their applications and data at and near the edge. Our solutions are easy to implement and maintain, and eliminate downtime to provide value anytime, anywhere. StorMagic's solutions are simple, reliable, and cost-effective, without sacrificing enterprise-class features, for SMBs to Fortune 500 companies with one to thousands of sites.

Learn more at www.stormagic.com

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