

# Helix MARS Migration JBOD

## Powered by Open-E JovianDSS

### For Secure and Seamless Data Migration

In an era of continuous digital transformation, organizations frequently face the complex and critical challenge of migrating vast amounts of data. Whether relocating to a new data center, consolidating infrastructure, or upgrading systems, ensuring data integrity, security, and minimal downtime during migration is paramount. **The Helix MARS Migration JBOD, powered by Open-E JovianDSS**, offers a purpose-built, secure, and highly efficient solution to navigate these challenges, showcasing the powerful synergy between Helix International's migration expertise and Open-E's robust software-defined storage technology.

Traditional data migration methods often involve significant risks, including potential data loss, security vulnerabilities, extended downtime, and complex logistical hurdles. Manual processes can be error-prone, and relying on network-based transfers for petabytes of data can be time-consuming and expose sensitive information to potential breaches. Businesses require a solution that guarantees end-to-end security, simplifies the migration process, and ensures data availability throughout the transition.

### The Solution: Helix MARS Migration JBOD Powered by Open-E JovianDSS

The Helix MARS Migration JBOD is a comprehensive, rack-mounted solution designed specifically for large-scale, secure data migrations. This innovative offering integrates a **Supermicro SAN chassis** with a tailored combination of **solid-state drives (SSDs) for performance and spinning hard disk drives (HDDs) for high capacity**. The system comes pre-loaded with both Open-E JovianDSS software, providing a robust and reliable data storage foundation, and Helix MARS software, which orchestrates the migration process.

The JBOD is delivered directly to your premises via Helix's dedicated hardware shipping truck. Helix engineers perform on-site installation, data loading, secure transport to the target site (e.g., new data center), and data offloading. All data is protected with end-to-end encryption, both in motion and at rest, maintaining an airgap protection during transport.



Maximize your business's data storage performance and reliability with the **Helix MARS Migration JBOD**. Contact us today to learn more and enhance your data storage capabilities!

**Explore the solution now!**

# System Configuration Details (for IPT System)

Chassis:	1x SuperMicro Server Chassis Single Power Supply
Motherboard:	1x SuperMicro H11DSi-NT
CPU:	1x AMD EPYC 7502
RAM:	8x 64gb 3200 DD4
NIC:	2x Intel X710-DA2
SAS Card:	1x SAS 3008-8E Card
SAS Card 2:	1x SAS 3008-8i Card
SSD Data Drives:	9x 960GB SAS-12 SSDs
JBOD:	1x 90-Bay SuperMicro JBOD
HDD Data Drives:	64x Seagate Exos 16TB HDD
Software:	1x Open-E JovianDSS 0TB Base License, 1x Open-E JovianDSS Storage Extension 1PB

## Key Business Advantages

The Helix MARS Migration JBOD delivers significant business value by transforming a potentially risky and complex process into a secure, efficient, and reliable operation:

- **Optimized Data Storage Capacity:** A blend of SAS SSDs for speed and HDDs for massive capacity, enabling configurations from 128TB up to 1PB.
- **Pre-loaded Software:** Includes Open-E JovianDSS data storage system, alongside Helix MARS software for seamless integration and management.
- **Uncompromised Data Security:** With end-to-end encryption (at rest and in motion) and airgap protection during transit, your sensitive data remains secure from unauthorized access throughout the entire migration lifecycle.
- **Reduced Risk of Data Loss:** The combination of Open-E's robust data integrity features and Helix's meticulous on-site handling and certified migration procedures minimizes the risk of data corruption or loss.
- **Accelerated Migration Timelines:** Leveraging dedicated, high-capacity hardware and a streamlined, expert-led process significantly reduces the time required for large-scale data transfers, minimizing disruption to business operations.
- **Ensured Compliance:** The certified multi-pass data wiping solution helps organizations meet stringent regulatory and compliance requirements for data sanitization after migration.
- **Simplified Logistics:** Helix handles the entire physical and logical migration process, from delivery and installation to secure transport and offloading, freeing up internal IT resources.
- **Cost-Effectiveness:** By providing a secure, efficient, and reliable migration path, the solution helps avoid the potentially massive costs associated with data breaches, extended downtime, or failed migration attempts.

## The Power of Cooperation: Helix and Open-E

This solution is a testament to the strong partnership between Helix International and Open-E. As a Gold Partner, Helix International leverages its deep understanding of enterprise data management and migration workflows, complementing Open-E's core competency in developing highly reliable and feature-rich software-defined storage solutions.

By combining Helix's secure migration methodology and professional services with Open-E's enterprise-grade data storage software and certified hardware, the Helix MARS Migration JBOD offers the safest and most efficient way to execute critical data migrations, ensuring business continuity and data integrity.

For the best migration solution, visit the Helix's online store: <https://www.helix-int.com/store>