

Enterprise Storage for Modern Hedge Fund Operations



As hedge funds evolve their trading operations, they require a unified data platform that can support multiple critical workloads, from AI model training and inferencing, to market analytics, data protection and regulatory compliance. Traditional storage architectures struggle with this complexity, creating management silos and increasing management workload.

Cloudian HyperStore addresses these challenges with a scalable S3-compatible platform that delivers the performance needed for GPU-accelerated AI workloads while ensuring data accessibility and protection. By consolidating diverse trading workloads on a limitlessly scalable data platform, HyperStore enables hedge funds to accelerate their AI initiatives while maintaining the enterprise features required for mission-critical trading operations.

Meeting the AI Performance Challenge

Modern hedge funds require storage infrastructure that can keep pace with AI workloads. Cloudian HyperStore delivers exceptional performance through integration with NVIDIA GPUDirect[®], enabling data to flow directly from storage to GPU memory. The platform achieves up to 20GB/s read speeds per node, with linear scalability supporting large-scale GPU farms. This performance ensures AI models can train efficiently without GPU idle time, accelerating development of trading strategies.

Guaranteed Data Access Across Environments

HyperStore's distributed architecture ensures trading data remains accessible across multiple locations and clouds. Built on the S3 protocol, HyperStore enables seamless data movement between on-premises storage and major cloud providers. This hybrid capability allows firms to maintain copies of critical datasets across multiple environments, eliminating single points of failure while optimizing for both performance and cost.

Enterprise Security and Control

HyperStore provides the enterprise security features required in today's regulatory environment. Multi-tenancy with quality of service (QoS) controls enables secure isolation of different trading groups and strategies. ObjectLock support provides data immutability for ransomware protection and regulatory compliance. Comprehensive audit logging tracks all data access and changes.

Cloudian's comprehensive security certifications include FIPS 140-2 Level 1 validation, signifying that HyperStore data encryption methods have been independently reviewed and tested. HyperStore is also certified to meet the requirements of SEC Rule 17a-4(f), CFTC 17 C.F.R. § 1.31, FINRA 4511c, IDW PS 880 (German) and OR §§ 957ff (Swiss) regulations, and meets the data sanitization standards specified by NIST 800-88. These capabilities help firms maintain a robust security posture to protect their proprietary trading data and models.

Simplified Data Management at Scale

Unlike complex file storage systems that create management silos, HyperStore provides a single platform that consolidates high-performance AI workloads and traditional storage needs. Automated data lifecycle policies simplify data protection and optimization across tiers. Rich metadata capabilities enable quick search and analytics across massive datasets. The platform scales seamlessly, without disruption, from terabytes to exabytes, growing alongside trading operations.

Solution Benefits

- Native S3 API integrates seamlessly with trading applications
- Fault tolerant architecture for always-on data availability
- Seamless scalability from terabytes to exabytes
- AI-ready with NVIDIA GPUDirect[®] integration
- Leading throughput with linear performance scalability
- Enterprise-grade security to protect proprietary trading data
- Secure multi-tenant isolation supports multiple trading groups with a unified platform
- Security certifications ensure regulatory compliance
- Modular, standards-based architecture ensures a future-proof infrastructure

Use Cases

- AI Model Training: Accelerate development of trading strategies
- Data Protection: Protect trading data across multiple sites and clouds
- Data Analytics: Process market data and alternative datasets efficiently
- Research Platform: Enable collaborative quantitative research and testing
- Compliance Archive: Store and protect trading data for regulatory requirements

Validated Architecture for Hedge Fund Workloads

HyperStore is proven in production at leading hedge funds, including some of the world's largest trading firms. Native S3 API compatibility ensures seamless integration with both commercial applications and custom-developed trading software.

Future-Proof Investment

As hedge funds expand their use of AI and alternative data, storage requirements will continue to grow. HyperStore's modular architecture allows firms to start small and scale incrementally, adding performance and capacity as needed. The platform's S3 compatibility and enterprise features provide a foundation that will support evolving trading strategies and regulatory requirements.

By combining high performance, uninterrupted data access, and enterprise security in a unified platform, HyperStore enables hedge funds to build the data infrastructure needed for AI-driven trading while maintaining the reliability and control their operations demand.

Contact Clouidian to learn how HyperStore can accelerate your firm's AI initiatives while simplifying data management across your organization.



Clouidian turns information into insight with an exabyte scalable platform that consolidates, manages and protects enterprise data. Clouidian enterprise file and object storage brings cloud technology and economics to the data center with uncompromising data durability, intuitive management tools, and the industry's most compatible S3 API. Clouidian and its ecosystem partners help Global 1000 customers simplify operations in enterprise use cases including data management, analytics, storage services, and AI/ML.

[More at clouidian.com](https://www.clouidian.com)



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4.9 ★★★★★
95% would recommend
Average for reviews in the last 12 months

Great product with great support!

"Everyone at Clouidian goes out of their way to ensure a successful implementation of their product."

HEALTHCARE AND BIOTECH | 1B-3B USD

Highly recommended vendor

"Great support responsiveness and customer care. Will go above and beyond to assist. Can highly recommend Clouidian!"

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