

AI-Native Object Storage for the Intelligent Cable Network

The cable industry is entering the Experience Era, and the data foundation is critical. AI-driven network operations, closed-loop automation, subscriber experience modeling, and edge intelligence are generating an unprecedented wave of telemetry, training data, and operational context. But most of this data isn't AI-ready. It's siloed across systems, trapped in proprietary formats, and disconnected from the compute that needs it.

How AIStor Solves Top Cable Industry Initiatives

- **Network Intelligence & AIOps** — AIOps and predictive maintenance require high-throughput data access at GPU-cluster scale and deep historical telemetry, not 90-day retention windows truncated to fit the budget. AIStor delivers the throughput GPU clusters demand with native support for AI data pipelines, model checkpoints, embedding stores, and RAG retrieval. Storage efficiency lets operators keep full-fidelity proactive network maintenance (PNM) data at scale. Train ML models on complete datasets, not sampled fragments.
- **Subscriber Experience Analytics** — Modeling what subscribers actually experience requires correlating Wi-Fi telemetry, customer premise equipment (CPE) diagnostics, application quality of experience (QoE), and support data at scale. This is a lakehouse problem. AIStor's exascale object storage with native Apache Iceberg™ integration creates a high-performance data lakehouse for experience analytics. Query with any engine. No per-operation or egress fees.
- **Edge AI & Intelligent Operations** — GPU compute at the edge only delivers when the data is there with it. Model artifacts and telemetry siloed in central cloud or core data centers bottleneck inference. AIStor's ~200MB binary deploys at the edge alongside GPU infrastructure. Native on NVIDIA STX, inside the context memory layer, AIStor eliminates network round-trips. The GPU never waits for data. A single S3 API spans edge, core, and cloud.
- **Security & Cryptographic Resilience** — Zero trust mandates and post-quantum planning require storage that enforces strict access controls, immutability, and modern encryption across distributed environments. AIStor delivers IAM-based access policies, AES-256 encryption at rest, transport layer security (TLS), write-once-read-many/immutable object locking, and comprehensive audit logging, all aligned to zero trust principles.
- **Context-Aware Networks & Differentiated Services** — Real-time quality of service (QoS) APIs, Zero-Touch Onboarding, and NaaS platforms generate structured and unstructured analytics data across multi-operator environments. AIStor's multi-tenancy and S3-compatible API make it a natural data tier for multi-operator platforms. Iceberg tables unify real-time and historical analytics.

Why AIStor—Modern AI Object Store



Performance at Scale

Benchmarked at 19.2 TiB/s throughput at exabyte scale. Software-optimized to extract maximum performance from any hardware.



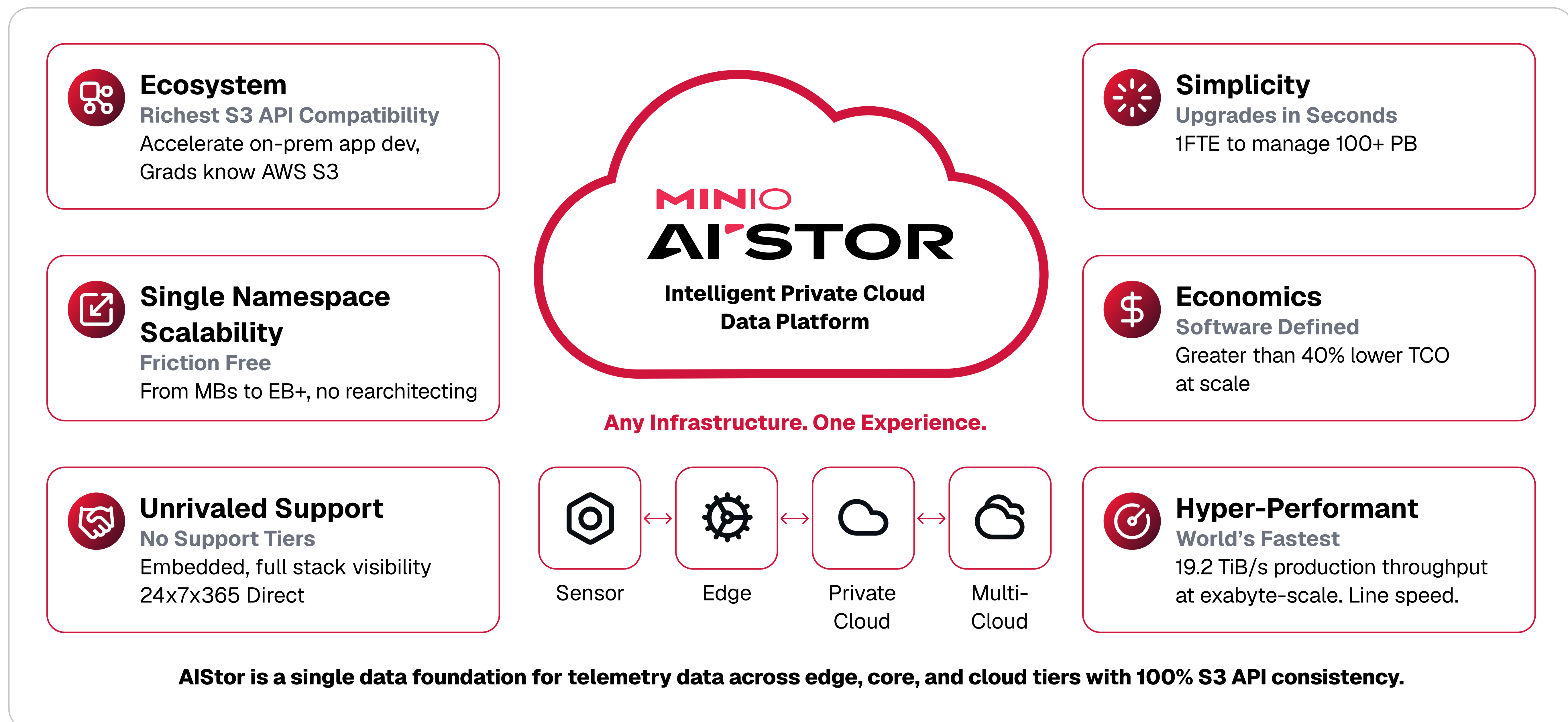
Predictable Economics

Private clouds with erasure coding optimize available storage while avoiding cloud egress and per-operation fees.



Software-Defined, No Lock-In

Runs on any hardware, any cloud, any edge site. No proprietary appliances. Ideal for any edge, data lakehouse, and AI environment.



AIStor in the Cable Network Architecture

- **Single S3-compatible API** across all deployment tiers.
- **~200MB binary** deploys in power- and space-constrained edge environments with no dedicated storage server.
- **Native Apache Iceberg tables and Delta Sharing** are queryable with any engine, no proprietary database lock-in.
- **Kubernetes-native orchestration** that scales with your container platform. Bare metal deployment is also supported.
- **Built-in data governance** with IAM, audit logging, object locking, and versioning from ingestion to inference.

min.io/aistor

About

MINIO

MinIO is the data foundation for enterprise AI. Built for exascale performance and limitless scale, MinIO AIStor delivers a secure, sovereign, and AI-ready data store that spans from edge to core to cloud. With widespread adoption across the Fortune 100 and Global 2000, MinIO is redefining how organizations store, manage, and mobilize data in the AI era. MinIO is backed by AME Cloud Ventures, Dell Technologies, General Catalyst, Index Ventures, Intel Capital, SoftBank Vision Fund 2, and others.