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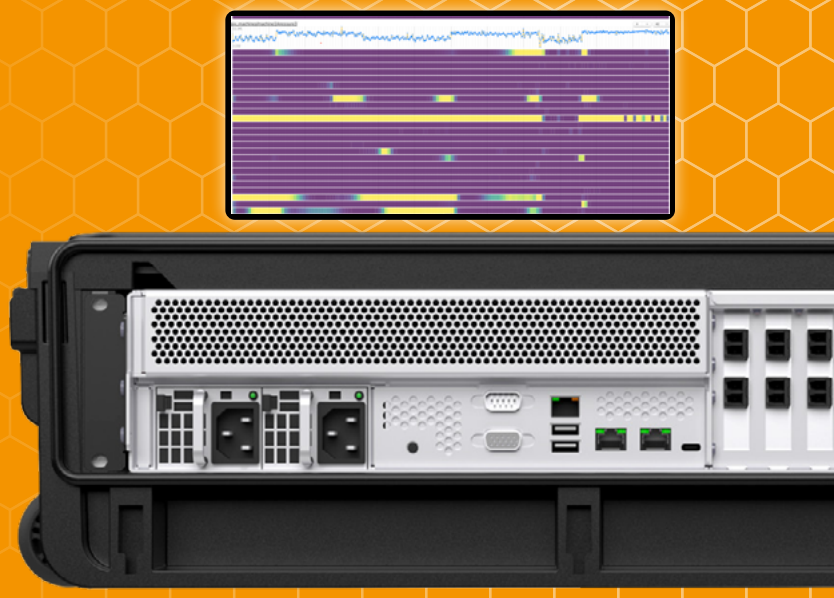
Time Series AI Edge Platform

Sensor Collection and Analysis

AI • Compute • Visualize • Integrate



AI-POWERED DATA LOGISTICS AND MISSION-CRITICAL MONITORING

THE "EDGE" GAP IN SENSOR ANALYSIS

1. **Disjointed Data Capture:** Varying sensor interfaces and data formats result in isolated monitoring systems and rigid analysis, stymeing unified intelligence.
2. **The Hidden Failure:** Field data collection often fails silently. Sensors are misconfigured, or signals drift, and these errors are only discovered months later when analysts try to use the data.
3. **The Metadata Void:** Raw data files often reach the cloud stripped of context—missing project IDs, asset locations, or sensor types—rendering terabytes of data useless.
4. **The Deployment Lag:** Validating analytics in the lab takes too long. Operators need to deploy, test, and refine insights at the edge immediately.

REQUIREMENTS

Form Factor	Fly-Away-Kit for tactical operations
Physical I/O	USB 3.1, COM, 10 Gbps LAN
Capacity	Removable drives up to 100TB
Size	TSA carry-on compliant
Power	90-264V AC
Weight	Under 35 lbs
Environmental	0 °C - 40 °C / 32 °F - 104 °F
Sampling Rate	1 Hz to 10 kHz

SOLUTION: TIME SERIES AI EDGE PLATFORM

A sensor-agnostic, deploy-ready system that turns raw sensor data into actionable intelligence at the edge, in real-time.

Falkonry Time Series AI Edge Platform is purpose-built to solve the Edge-To-Cloud intelligence challenge. It's a ruggedized, integrated platform that combines high-speed multi-sensor ingestion, data visualization, real-time validation, and self-supervised AI in a single tactical system. You leave the field with answers, not just hard drives.

1. **Validate at the Source:** Real-time visualization and configurable rule checks ensure all sensors are live and accurate *before* you leave the site. No surprises when you analyze data later.
2. **Context on Arrival:** Automatically normalize and tag telemetry with metadata (provenance, system ontology, location) at the point of collection regardless of vendor or sensor type.
3. **AI-Powered Anomaly Detection:** PatternIQ™ self-supervised learning discovers novel waveforms, unusual patterns and behavior shifts without need for expert labeling or training data.
4. **Field-Ready Intelligence:** Deploy proven data pipelines and machine learning models directly to the edge for real-time operation and decision support.
5. **Seamless Integration**: Deliver consistently formatted, analysis-ready data to any downstream platform—watch systems, command centers, or cloud analytics.

The result: Full lifecycle, edge-to-cloud, turnkey solution that ingests and validates sensor data at the source, unifies and tags telemetry, uses AI to detect anomalies automatically, deploys bespoke models for real-time intelligence and delivers analysis-ready data to core analysis platforms.

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