DataShapes AI

GLOBALEDGE™ BY DATASHAPES AI:
REAL-TIME SPECTRUM MONITORING FOR SUPERIOR DECISION-MAKING

Co Commander

Learn

Advanced analytics

Ag Agent
Device agnostic

Edge deployment

Proprietary datasets

Ingest, detect and classify

Monitor
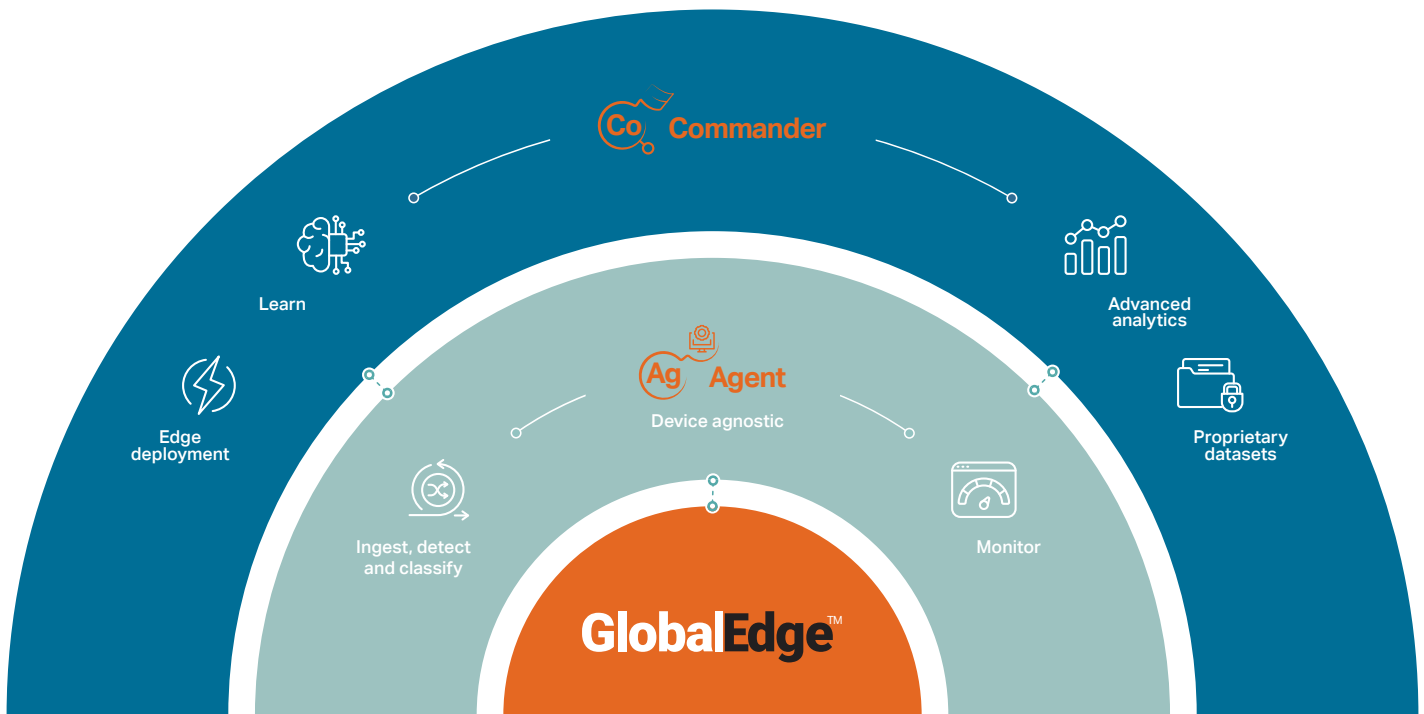
GlobalEdge™

> Stay ahead of the threat. GlobalEdge gives you real-time AI-driven spectrum intelligence - detecting signals, uncovering patterns, and empowering you to act with confidence. "

DataShapes AI offers users enhanced radio frequency (RF) vision, transforming critical moments by providing life-saving insights. This hardware-agnostic solution delivers rapid machine learning in real-time across edge devices, unlike other technologies that may take days or weeks to produce results. For those on the front lines, it facilitates immediate action and response to threats, significantly outpacing alternatives that rely on larger machines, more extensive data, and longer delays.

GlobalEdge provides unparalleled confidence at machine speed by quickly converting raw signal data into actionable information, knowledge, and strategic actions across Electronic Warfare (EW), Intelligence, Surveillance, Reconnaissance (ISR), and sensing operations. GlobalEdge allows a unified view of the electromagnetic spectrum, enhancing precision at all levels by sharing AI-driven spectrum insights from the front lines to command posts.
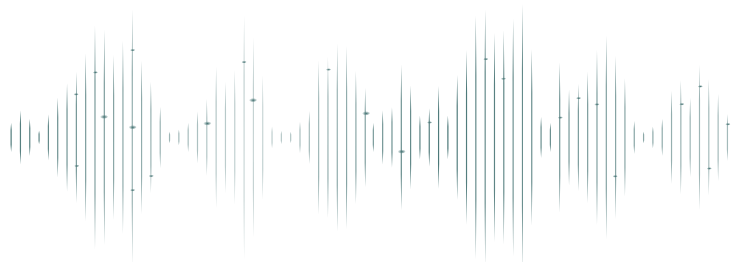
GlobalEdge™ Commander:
Visualize the RF Spectrum

GlobalEdge Commander gives you a powerful, real-time interface to visualize and analyze RF spectrum activity like never before. By integrating data from multiple GlobalEdge Agents, it provides comprehensive situational awareness with three key views: Sensor for monitoring collection nodes and coverage, Discovery for identifying and tracking signal activity, and Insights for detecting patterns and emerging threats. With Commander, you gain a dynamic, mission-ready platform that enhances decision-making, accelerates threat response, and ensures you stay ahead in an ever-evolving electromagnetic landscape.

GlobalEdge™ Agent:
AI Automation

GlobalEdge Agent works autonomously to detect, classify, and train on FM, LTE, and drone signals - empowering you with real-time intelligence in any environment. Whether mounted on a rooftop sensor for high-precision signal detection, integrated into a wearable device for on-the-move operations, or deployed on a drone for adaptive threat response, GlobalEdge Agent delivers actionable insights when and where you need them. Scalable, adaptable, and always mission-ready, it transforms how you detect, classify, and respond—ensuring you stay ahead of evolving threats.

DataShapes AI Sentinel:
Mission-Ready Spectrum Monitoring

DataShapes AI Sentinel delivers a complete, mission-ready solution by combining powerful GlobalEdge Agent software with preloaded spectrum monitoring hardware. Designed for both fixed and mobile deployments, Sentinel provides real-time alerts on adversary signals, signal anomalies, and jamming activity — ensuring you maintain full situational awareness. Built with commercially available, software-defined radio and customizable components, Sentinel adapts to your mission needs, giving you an out-of-the-box RF sensing solution to detect, classify, and respond with confidence.

GLOBALEDGE CORE CAPABILITIES

- Low SWaP-C
- On-Device
- Optimized CPU
- Disconnected
- Software Only
- ATAK Integration

GLOBALEDGE COVERAGE*

- Frequency range: 100 kHz to 44 GHz
- Sample rate/sec: 100 kHz to 2 GHz
- Resolution: Up to 16-bit ADC/DAC
- Connection: Embedded, Ethernet, or USB 3.0

* Depends on the SDR or radio platform

MINIMUM SPECIFICATIONS

Hardware
- 4 GB RAM (8 GB preferred)
- 128 GB SSD (1 TB preferred)
- USB 3.0
- CPU: Intel x86 and ARM

GlobalEdge Deployment
- Data: 1/Q, Vita49, SigMF, Midas Blue
- Tactical radios, LAN, Wi-Fi, LoRaWAN
- ATAK, WINTAK, TAK-X
- Low Power: ~5W
- Vertical and horizontal scaling
- Docker, Kubernetes
- Fixed and sweep tuning

Learn More
For more information about GlobalEdge™ products, visit DataShapesAI.com or contact Kevin.Larrabee@datashapesai.com or Joe.Edwards@datashapesai.com