

RTEC Device

(Recovery, Tracking & Emergency Communication)



Lightweight, encrypted, and ruggedized personnel and vehicle tracking solution - enabling best-in-class, real-time location awareness in both remote and austere locations.



RTEC is more precise and technologically advanced than any other tracking solution available - at a price point that is measured in tenths compared to other available products.



Challenge: 100% Location Awareness & Tracking

RTEC enables the most effective and rapid location, navigation to, and rendering of assistance to personnel that may be in distress or incapacitated. The RTEC System provides 100% tracking in austere or denied environments, with significant cost savings, high precision accuracy, and dependable, rugged form factors that are easily wearable, all viewable remotely by Operational and Command elements.

Solution: RTEC Universal Tracker

A custom-built tracker designed from the ground up with sophisticated intelligence, redundant encrypted communications, and extremely long battery life (weeks to months depending on use case), the RTEC Universal Tracker combines all of its' capabilities into an artfully engineered, ruggedized, and water-resistant form factor.

Leveraging existing cellular infrastructure and Long-Range RF, the RTEC Universal Tracker has had successful check-ins from as far as 150 miles away.

With the RTEC Tracking Solution in place, personnel can be tracked accurately 100% of the time: on the ground, in a vehicle, in an aircraft, and even in the air (parachuting).

We have demonstrated multiple start to finish 100% tracking cycles from taxiing down the runway to in-flight at 25,000ft to Military Free Fall to recovery and arriving back at the airfield. No other tracking system in use by the DoD today has this capability.

The RTEC Universal Tracker includes built-in dual GPS sensors, a precision altimeter, an ultra-low power 3 axis accelerometer, a 0.20 C calibrated temperature sensor, as well as shock, vibration, and pressure sensors.

The easy-to-use interface is designed specifically for the military and provides for real time and post-event analysis capabilities, breadcrumb trails, and alerting.

RTEC Tracking Solution Benefits

- Industry leading accuracy, battery life, and range
- 100% tracking of personnel and vehicles in real time
- Encrypted, redundant communications
- Ruggedized, water resistant (IP68) form factor
- Built-in Intelligence for update frequency, alerting, distress mode, etc
- Remote and austere communication capabilities
- Full playback and overlay of multiple trackers for post event analysis
- Viewable locally, remotely, and globally through AWS Gov Cloud
- Granular Security, so Group A cannot see Group B, etc.
- Multiple form factors for various uses (personnel, vehicle, watercraft, etc)
- Engineered for and validated with the support of the Department of Defense
- 100% Made in the USA

Customer Success

During extended stress testing and validation over a 12 month period with the Department of Defense, the RTEC Solution was critically tested and refined repeatedly. Both air and ground based tracking were tuned for overall dependability: specifically, the ability to locate and aid an incapacitated jumper within 60 minutes. Tested head-to-head against 3 other tracking systems, RTEC was the only tracking solution that provided accurate location awareness and the ability to locate simulated “lost jumpers” quickly and repeatably.

- 100% of “off DZ” jumpers were successfully recovered in 10 min. or less
- Over 800,000 individual data points collected
- Max successful communication range of 150 miles
- Highest constantly tracked altitude was 25,220 ft
- Highest Military Free Fall (in air) tracked altitude was 24,019 ft
- RTEC maintained 99+% Device Connectivity
- Data Uptime Percentage was 99.997%
- Location Accuracy was within 2 Meters
- Battery Charge Estimated at 3 weeks+ depending on use case
- Usable Battery Life of 5 years before any degradation (2,000 recharge cycles)

RTEC: A Better Tracking Experience

- Mobile, Tablet, & Desktop Compatible (ATAK integration coming soon)
- Automated Intelligence and Alerting Capabilities
- Historical Breadcrumb Trail & Sensor Readings
- Full Playback and Overlay Capabilities for Multiple Trackers
- Custom Geofencing & Off-Site Event Alerts
- After Action Analytics and Reporting
- Instant Visual Feedback of Alerts, Status, and Location
- CSV Data Export Capabilities

Let's start a conversation

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