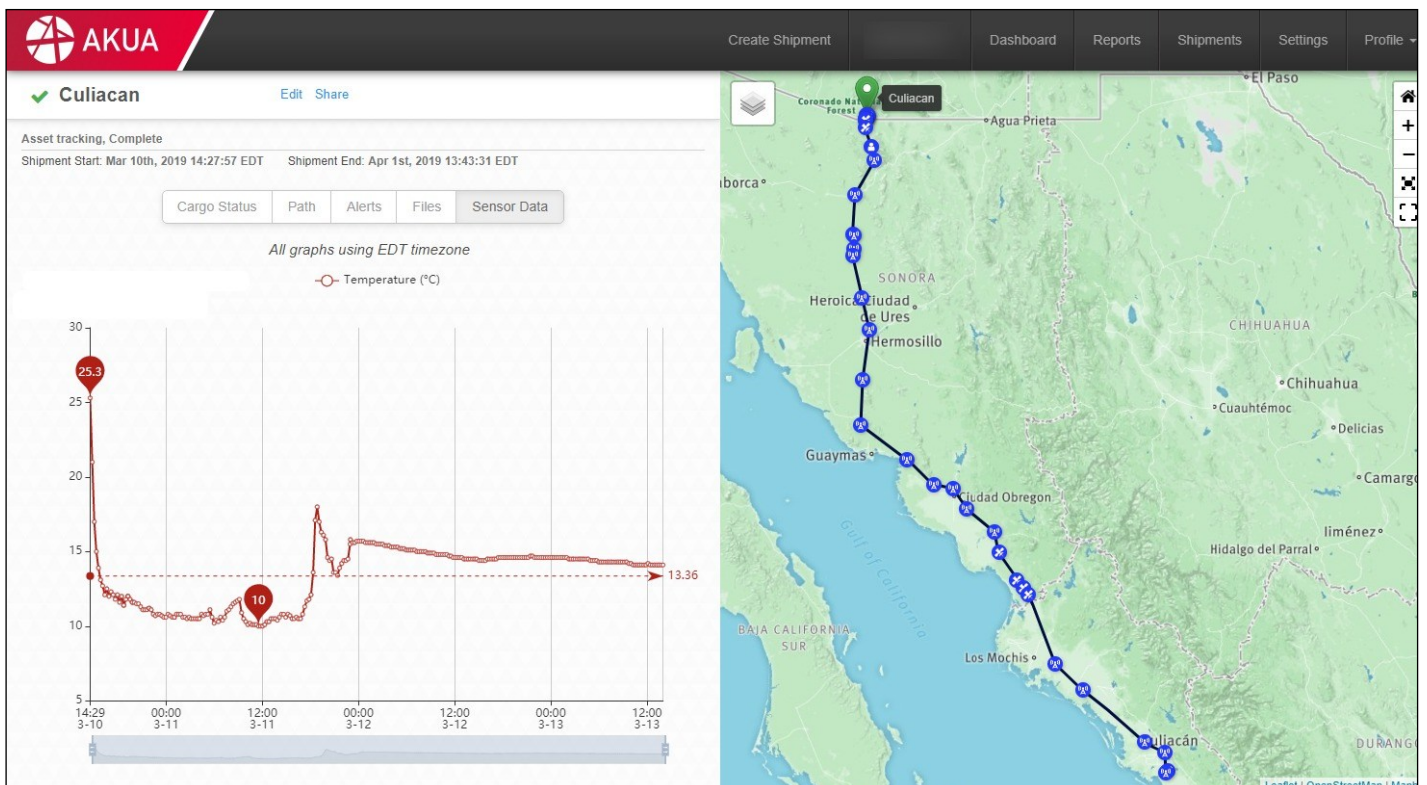# AKUA CTU4.2

Global Supply Chain Monitoring and Visibility

The next generation of supply chain cargo visibility and environmental tracking is here in the AKUA Covert Tracking Unit (CTU). The CTU tracks location and tamper-detection in an all-in-one, easy to use, innovative and cost-effective gateway device. The CTU uses GPS and 4G cellular networks to provide real time tracking and sensor monitoring of cargo. It provides remote users with long-distance data on a shipment's location and condition during transit as well as information on the integrity of the shipment itself. Additionally, the CTU can communicate with compatible environmental sensors placed with the cargo.

The CTU utilizes the 4G cellular data networks to provide regular information updates on the shipment's time-stamped GPS position and sensor status to the AKUATrack platform for monitoring, tracking, and alerting, or to the user's proprietary application. Location and sensor events are reported immediately enabling the end user to respond to issues while in progress. Analysis of the position data can alert the user to route deviations and delivery delays. The environmental sensors can generate alerts at user-defined thresholds allowing for corrective actions and creation of a record of the cargo state throughout the journey.
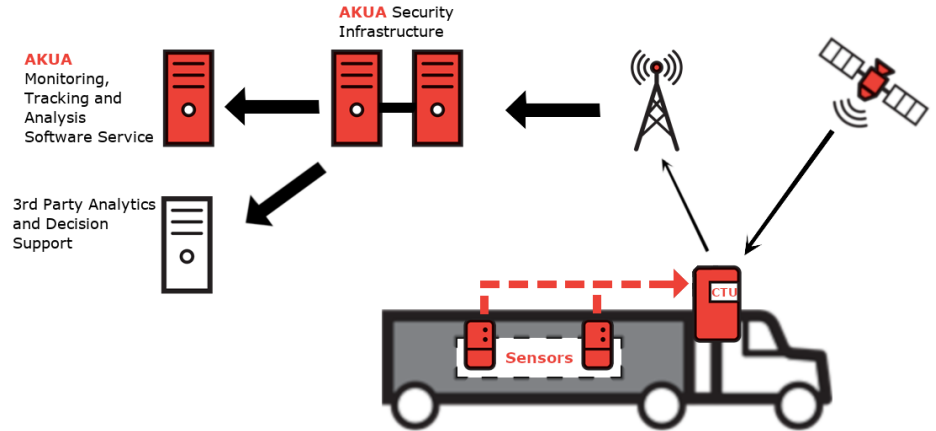
AKUATrack Platform

AKUA CTU Key Features

- All-in-one location tracking with optional temperature sensor
- Serves as a communication gateway for additional sensor devices
- Lightweight at 1.1 lbs.
- Reusable and rechargeable
- Long battery lifespan (up to 90 days)
- FCC and CE certified
- IP67 rated
- Rugged construction for intermodal shipping environment
- Secure communications to the cargo owner
- Easy to configure, maintain, and use
- Efficient, time saving operation
- Communicates shipment status immediately to the end user
- Simple operational design—minimum training required

How the CTU Works to Provide Real-time Monitoring of Your Cargo Shipments:

The AKUA CTU is placed on the inside of the container or with the cargo. The CTU gathers and communicates GPS location and sensor data. Data from the CTU is then transmitted through the 4G cellular data networks to the AKUA security infrastructure and then to the AKUATrack, or the user's proprietary, application.

AKUA CTU4.2 Specifications

Model Number:	RS-CTU4.2	Radio Frequency Covert Tracking Unit
Physical	L x W x D	149mm x 110mm x 35mm
	Weight per set	500g
	Color	Black
Environmental	Operating Temperature	-30°C to 70°C
	Storage Temperature	-40°C to 80°C
	Humidity	95% non-condensing
	Vibrations and Shock	MIL-STD-810-G
	Weatherproofing	IP67
Wireless	Frequency	ISM 2.4GHz QFSK modulation
	Active Transmission Power	<18dBm (~100mW)
	Range	500m L.O.S
	Protocol	Proprietary
GPRS	Bands	LTE Cat M1/Cat NB1 & 2G Fallback
	Cat M1/Cat NB1 (NB-IoT)	LTE FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B26/B28
	EGPRS	850/900/1800/1900MHz
	SIM	Dual-SIMs maximizing global coverage
GPS	GPS Sensitivity	-162dBm to –165dBm
	Position Accuracy	Autonomous 5m
	Acquisition Time (Hot Start)	1s
	Maximum Velocity	<515 m/s
	Speed Accuracy	0.1 m/s
	Antenna	Built-in active antenna
Electrical	Battery	Rechargeable, 13,800 mAH Lithium Ion

AKUA

Learn more at akua-inc.com

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