

Tracking the Internet-of-Your-Things

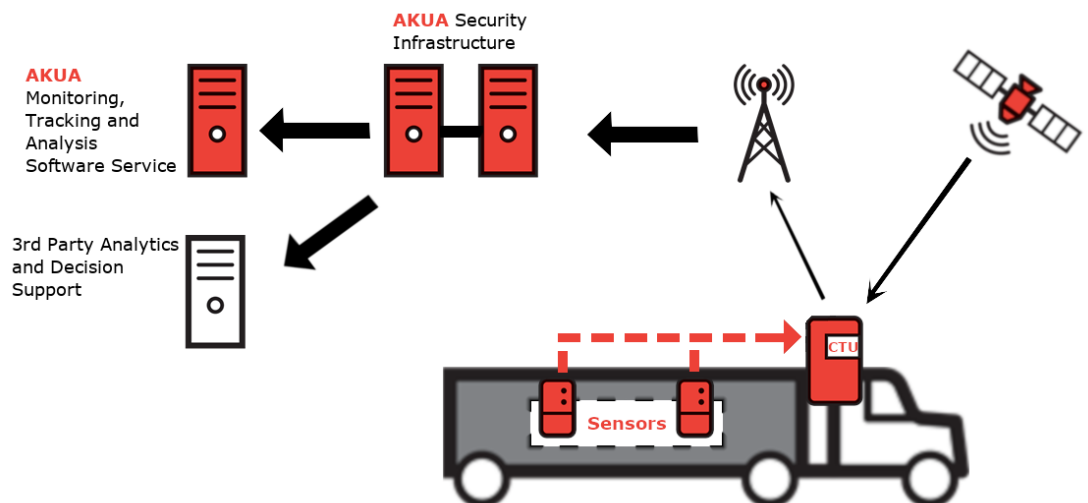


The next generation of cargo shipment location and environmental tracking is here in the AKUA Covert Tracking Unit (CTU). The CTU tracks location and temperature in real-time in an all-in-one, easy to use, innovative and cost-effective gateway device. The CTU uses GPS and 4G/3G/2G cellular network to provide real time tracking and temperature monitoring of shipments. It provides remote users with long-distance data on a shipment's whereabouts and condition during transit as well as information on the integrity of the shipment itself. Although the CTU includes a temperature sensor, it is also designed to communicate with additional IoT sensors that are placed with the cargo.

The CTU utilizes the 4G/3G/2G cellular data network to provide regular information updates on the shipment's time-stamped GPS position and sensor status to the AKUA security infrastructure and then to the AKUATrack: AKUA's monitoring, tracking and alerting software service or 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. With its embedded environmental sensor, the shipment's temperature data is tracked and generates alerts at user-defined thresholds allowing for corrective actions and creation of a record of the cargo state throughout the journey.

How the CTU Works to Provide Real-time Monitor-

The AKUA CTU is placed on the inside of the container or with the cargo. The CTU gathers and communicates GPS location and environmental data. Cargo data from the CTU is then transmitted through the 4G/3G/2G cellular data network to the AKUA security infrastructure and then to the AKUATrack or the us-



ing of Your Cargo Shipments:

- Includes temperature sensor embedded in all-in-one device
- Can serve as master device for additional environmental sensors
- Lightweight at 1.18 lbs.
- Reusable and rechargeable
- FCC and CE certified
- IP67 rated
- Secure communications to the shipper
- Easy to configure, maintain, and use
- Efficient—time saving operation
- Communicates shipment status immediately to the end user
- Simple operational design—minimum training required

AKUA CTU Specifications

Model Numbers	RS-CTU	Hybrid Intelligent Covert Tracking Unit
Physical	L x W x D	14.2cm x 8.5cm x 5.6cm 5.5in x 3.4in x 2.2in
	Weight per set	535g
	Color	Black
Environmental	Temperature	-30C to 70C
	Vibrations and Shock	MIL-STD-810-F
	Weatherproofing	IP67
Wireless	Frequency	ISM 2.4GHz QFSK modulation
	Active Transmission Power	<18dBm (~100mW)
	Range	200m L.O.S
	Protocol	Proprietary
GSM/GPRS	Bands	4G (LTE Cat M1/NB) 3G/GSM/GPRS
	SIM	Dual-SIM slots (primary and secondary; GPRS required)
GPS	Channel	66 channel Optional Extended Ephermis A-GPS
	Antenna	3D Accelerometer Built in GPS Patch Antenna
Electrical	Battery	Rechargeable, 3.7V, 10.4AH Lithium Ion
RF Data	Packet Data	32 bytes per FIFO



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