TrakrStationLTE

Mobile UAS Position Data Receiver and Transmitter

Overview

TrakrStationLTEs receive position data broadcast by Trakr devices onboard UAS and transmit it to the cloud via LTE towers. This enables position data from multiple UAS to be displayed in real time in the FlightLine situational awareness tool, facilitating real-time air traffic deconfliction, and operational reporting.

Designed for UAS field operations, TrakrStationLTEs are powered by DeWalt rechargeable batteries to support a full day of operations. They can be mounted on tripods, or placed in elevated locations such as on top of vehicles.

The 915MHz ISM broadcasts from Trakr devices uniquely identify UAS and send GPS coordinates and altitude data to TrakrStations. Data from many Trakr devices can be received simultaneously.

FlightLine supports post-operation reporting on UAS flight data from Trakr for regulatory inspection compliance and other operational needs. Standard reports include Flight Time, Total Flight Distance, Maximum Distance from Landing Zone, and more.

Features

- Powered by standard DeWalt rechargeable batteries for mobile use
- LEDs indicate power and GPS fix status
- Receives UAS position data from multiple Trakr devices simultaneously on 915 MHz ISM frequency
- Transmits received UAS position data to cloud based FlightLine via LTE to help prevent airborne collisions and to facilitate operational reporting

Technical Specifications

Parameter	Value
Part Number	UAV-1009048-001
Size	243.93 x 135.2 x 60.2 mm
Weight	65g without antennas or battery
Operating power	2 W
Operating Temp	-45 to 70°C
Operating duration	Dependent on battery size: ○ 1.7Ah 1.7 Ah (20V) (smallest) – up to 17 hours ○ 5 Ah – up to 50 hours ○ 8 Ah – up to 80 hours
Radio	
Frequency	915 MHz ISM
External Interfaces	
Connectivity	
Antennae	2x ISM antenna

Mechanical Specification

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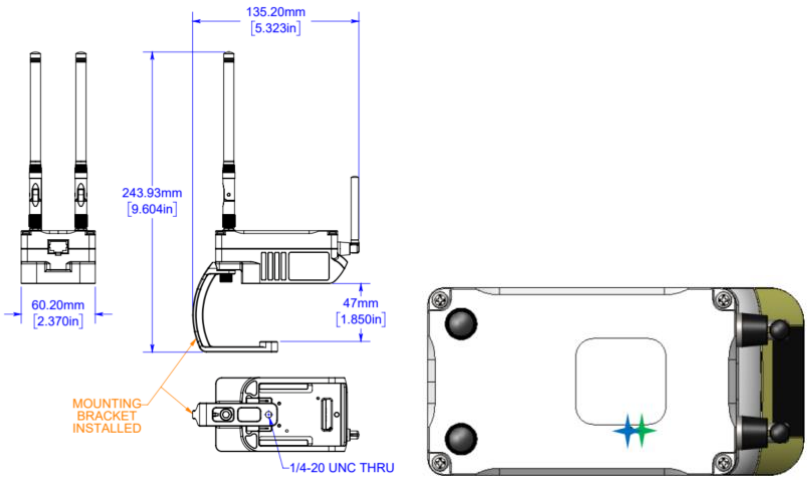

Related Products in Trakr Ecosystem

Trakr	TrakrStation	uAvionix Portal
Part Number: UAV-1008429-001	Part Number: UAV-1009046-001	Part Number: N/A
		
Trakr is an extremely low Size, Weight and Power (SWaP) transmitter that when attached to UAS, provides real time position data over ISM. The data - captured by the Trakr ecosystem - helps prevent airborne collisions and enables operational reporting.	Permanent or semi-permanent Receiver of Trakr broadcasted UAS position data. Data then broadcast to cloud based FlightLine for real time situational awareness, traffic deconfliction, and reporting.	Cloud based platform to capture data from Trakrs via TrakrStation / TrakrStationLTE to display in real time for situational awareness, and for reporting purposes. Other displayed information includes ADS-B traffic data for traffic deconfliction.