TrakrStation

Ground Based UAS Position Data Receiver and Transmitter

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Overview

TrakrStations receive position data broadcast by Trakr devices onboard UAS and transmit it to the cloud. 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.

TrakrStations can be permanently mounted on poles or infrastructure for ongoing operations or semi-permanently installed on tripods, trucks, or trailers. TrakrStations receive power and connectivity via PoE.

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

FlightLine supports post-operation reporting on UAS flights 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 others.

Features

- Mounting bracket for easy permanent or semi-permanent installation
- Connectivity and power via PoE
- Receives UAS position data from many Trakr devices simultaneously on 915 MHz ISM frequency
- Transmits received UAS position data to cloud based FlightLine to help prevent airborne collisions and to facilitate operational reporting

Technical Specifications

Parameter	Value
Part Number	UAV-1005539-001
Standard	802.3af (802.3at Type1)
Voltage Range	37 – 57 V
Transmit Power	Class 1, 4 W
Size	887 x 191.18 mm
Operating Temp	-40 to 70°C
Radio	
Frequency	915 MHz ISM
External Interfaces	
Power / Connectivity	
Interface	PoE

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Mechanical Specification
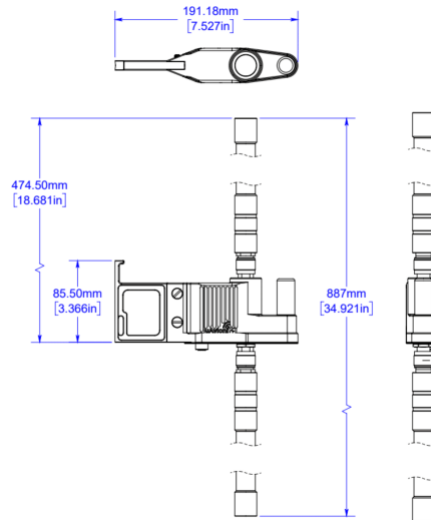
Related Products in Trakr Ecosystem

Trakr	Trakr Station LTE	uAvionix Portal
Part Number: UAV-1008429-001	Part Number: UAV-1006904-001	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.	Mobile battery powered 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.

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