



# CyNav™

## Secure Drone Tracker Tag

Situational awareness of UAVs in real-time with the CyNav™ Tracker Tag Solution



### Features



#### SECURE COMMUNICATION

End to End data encryption from sensor to backend server



#### CONFIGURABLE ALARM PARAMETERS

Set critical alarm parameters and notifications for service dispatch



#### DATA SECURITY

All data collected from CyTag is encrypted at the sensor level



#### REAL TIME LOCATION AND LIVE TRACKING

Know accurate location of your UAVs and identify its path



#### MULTIPLE CONNECTIVITY OPTIONS 1

GSM/4G LTE/NBioT, Thuraya SATCOM, WiFi, LAN, BLE5.2, RFID reader, LoRa options



#### MULTIPLE CONNECTIVITY OPTIONS

GSM/4G LTE/NBioT, Thuraya SATCOM, WiFi, LAN, RS485 port, BLE5.2, RFID reader, LoRa and SigFox options

### Product Description

CyNav™ is a state-of-the-art hardware transponder that can be affixed to Unmanned Aerial Vehicles to provide near real-time situational awareness of Drone and/or other UAV assets regardless of their location across the country.

Communications flexibility using any combination of GSM/4G/LTE/NB-IOT, BLUETOOTH, SATCOM, and GPS are a key differentiator in an ever-changing and increasingly competitive market across the spectrum of Smart City, Airspace Management, and Industrial IOT Drone applications.

The CyNav™ Drone Tracker is also prepared for 5G and LoRa and is configured to seamlessly switch between the different communication technologies to obtain the best possible coverage at the lowest possible cost.

In a world of real-time connectivity, it is imperative to offer fast, flexible, and secure access at the click of a button regardless of the Device, Use Case, Network, or End User.

Cypod's mission is to enable our valued clients with cost-effective solutions that are flexible, safe, and scalable for future applications regardless of the UAV's location and/or size that is being used. Recreational, Commercial, and/or Public Safety UAV Applications can all rely on Cypod Solutions unified framework of hardware sensors as well as backend monitoring and command/control systems to accomplish whatever goals and objectives our valued clients require today and in the future.

- Real-time location and live tracking
- Drone Identification
- Multiple Connectivity options
- Intelligent Communication Selection
- Configurable alarm parameters



 Remote Environmental Monitoring



 Theft Protection



 Asset Administration and Management

## Use Cases

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## Technical Specification

Type	Specification
Weight	40g
Dimensions	37.4x53.5x13.8 mm
GNSS:	GPS, GLONASS, GALILEO, BEIDOU, QZSS, AGPS
Receiver Tracking:	33
Tracking sensitivity	-165 dBm
Position accuracy	< 2.5 CEP
Velocity accuracy	< 1 s
Warm start	< 25 s
Cold start	< 35 s
Technology	LTE CAT M1/NB-IoT/GSM
2G bands	B2/B3/B5/B8
4G bands	LTE-FDD (CAT M1): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85 LTE-FDD (CAT NB2): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85 850/900/1800/1900
Data transfer	LTE: Max. 588Kbps (DL)/Max.1119Kbps (UL) GPRS: Max. 107Kbps (DL)/Max. 85.6Kbps (UL)
Transmit power	Class 4 for GSM850/900: 23±2dBm, Class 1 for GSM1800/1900: 20±2dBm, Class 3 for LTE-TDD: 23±2.7dBm, Class 3 for LTE-FDD: 23±2.7dBm
Data protocol	MQTT/HTTPS

Internal Back-up battery	550 mAh Li-Ion battery 3.7 V (2 Wh)
Estimate lifetime	Minimum 6 hours
Bluetooth	5.3
Bluetooth Low Energy	Support
Bluetooth Direction Finding	Support
Ingress Protection Rating	IP65
Battery charge temperature	0 °C to +45 °C
Battery discharge temperature	-20 °C to +60 °C
Battery storage temperature	-20 °C to +45 °C for 1 month - -20 °C to +35 °C for 6 months
Charging USB	USB type C
SIM	Micro-SIM
LED indication	RGB
GNSS antenna	Internal High Gain
Cellular antenna	Internal GSM High Gain
Sensors	Altitude sensor BMP388
Max. GPS reporting rate	4s