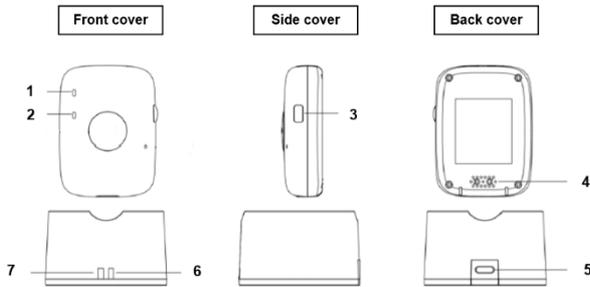


Technical Specifications for the LEMAN Remote ID Drone Tracker

LEMAN is an independent drone tracker with its own battery, capable of sending its GPS position and altitude, status, and communication data (e.g., Cell ID, RSRP, SINR) to INVOLI's server and with remote ID through broadcast Wi-Fi. Any cellular phone compatible with a remote ID App on it can visualize all the standard parameters. Data transmitted by the tracker can be visualized, stored, replayed for further usage on INVOLI platform or API.



Leman Drone Tracker	
1	Red LED: Power and GSM Signal
2	Blue LED: GPS Signal
3	Power button: Switch on/off
4	Speaker
Dock Station	
5	USB type C port: Charger station port
6 - 7	Red LED: Connected to power source

Features

Functions	Transmission of GPS coordinates, altitudes, status and communication data via LTE. Remote ID parameters broadcasted through Wi-fi
Range	LTE: Unlimited, depending on network availability Remote ID: 2km, depending on the receiver antenna
Data access	Via INVOLI.live, INVOLI API and Open Drone ID App
Tracker position accuracy	±15 ft (5 m) for horizontal positioning, ±50 ft (15 m) for vertical
Refresh time	Max 1 s

Interfaces

LTE/GNSS Module	Quectel LTE EG91-EX (EMEA) Quectel LTE EG91-NA (North America)
Wi-Fi	2.4 GHz band
SIM card	Nano form factor with data plan and SMS is required (not provided)
LED Light	2 LED indicating GPS / GSM / Power status
Sensor	3D Acceleration sensor

Electrical data

Battery capacity 900mAh/3.7V Lithium

Environmental data

Operating temperature -4 to 158 °F (-20 to 70°C)
Protection from dust/water IP67

Dimensions

2.4 x 1.7 x 0.7 inch (61 x 45 x 19 mm)
Weight: 1.65 oz (47 g)

Certifications & Standards

FCC/CE in progress
ASTM F3411-19 Remote ID (network) and Tracking

Data transmitted

Cellular	Tracker position (GPS Lat, Lon, Altitude) WGS84 Tracker speed and heading (calculated on server) Tracker battery charge level Cell ID, Neighbor Cell ID, RSRP, SINR, Band: Cell ID: Primary cell ID, visible neighbor cell IDs RSRP: Primary cell ID, visible neighbor cell IDs SINR: Primary cell ID Band: Primary cell ID
Remote ID	Basic ID type, UA type and UAS ID Location, Lat., Lon., Altitude, Direction, Status, Hor. Speed, Vert. Speed, Height, Height Over, Hori. Accuracy, Vert. Accuracy, Speed Accuracy, Time Accuracy and Timestamp Classification Type, Operation Location Type, Remote Pilot Lat., Remote Pilot Long., UA Category and UA Class Operator ID Type and Operator ID

Software included

Individual license for INVOLI.live (visualization platform)

Included in the package

A LEMAN drone tracker
A Dock station
A USB cable for recharge
A screwdriver

Further information

For more information and quote, please contact info@involi.com

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