

ZUPPA D-Track (Tracker for RPA's)



Features

ZUPPA D Track is a unique Made In India Regulatory flight module for RPA's operating within India.

ZUPPA D Track enables regulators to monitor multiple RPA operations in real time on a single dash board and Create a Digital record of every RPA operating in Indian Airspace including violations if any.

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ZUPPA D Track is equipped with an Mutli Profile Embedded SIM to ensure ruggedness of the system and uninterrupted performance across India .

ZUPPA D Track has an extended battery life thanks to its very low power consumption across all uses cases especially when in Deep Sleep Mode .

Active Mode : 450mW

Idle Mode : 200mW

Sleep Mode : 35mW

Deep Sleep Mode : 100uW

ZUPPA D Track is equipped with an Internal battery as a standard feature that ensure operations even post crash or Tampering

Specifications:

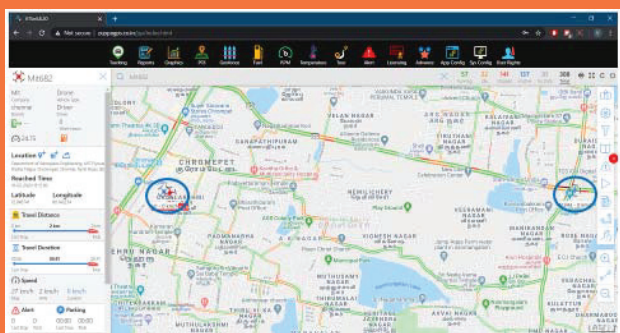
Operating Voltage : 5-36 V

Weight : Maximum 70 gms

Size : 80 x 53 x 23 mm

Battery Capacity: 600 mAh

Location Accuracy : 5 Mtrs



Dash Board

ZUPPA D track Dash Board can be populated across Police , ATC and Air force Infrastructure to facilitate Monitoring and Tracking of Drones Pan India .

ZUPPA D Track hardware can also be configured to deliver Data to Governmentowned back ends and servers to ensure the Integrity of Locational sensitive Data that is normally captured by Drones.

About Us

ZUPPA's Indigenously Developed Deep Tech AI Technology of "SYSTEM OF DISSEMINATED PARALLEL CONTROL COMPUTING IN REAL TIME " is Globally Unique and powers its range of truly Indian products.

ZUPPA is India's Only Design to Delivery Embedded System Manufacturer whose activities cover the Entire Value Chain (PCB Design >> Firmware Development >>Software & UI Development >> Prototyping >> QC Structures >> Manufacturing)

ZUPPA has evolved thanks to Financial Support under TIFAC-SIDBI Srijan Innovation Fund to be an Auto Industry Certified Product Manufacturer & Beyond

ZUPPA's Manufacturing and R&D Facilities at Chennai Employs over 40 Engineers operating IP 610 Compliant Electronic Manufacturing Facility . ZUPPA's proven Supply Chain Currently ensures uninterrupted production of over 3000 VTS/Month

ZUPPA's Growing Marketing and Service support network covers South India extensively with offices in Tamilnadu , Kerala & Maharashtra (Pune ,Navi Mumbai)with plans for setting up offices in Delhi , Hyderabad and Bengaluru.

Features Ready For Immediate Implementation : V1

Feature	Purpose
Remote Monitoring(GPRS/GPS) of Parameters: a) Position b) Speed c) Heading/Course d) Altitude(MSL) e) Voltage Of Battery(Volts) f) GSM Signal Strength g) GPS HEALTH STATUS	To monitor the drone and its flying characteristics remotely from a desktop or mobile Terminal
Dynamic Geofence Monitoring & Deviation Alerts	To Monitor and Highlight Deviations of Drone in terms of Position from Flying Point
Dynamic Altitude Fencing	To Monitor altitude of Drone and highlight deviations
Remote Command & OTP based Device Activation / Deactivation	Remotely Tracking device can be Activated or Deactivated , ie: if drone is flown when device is deactivated(NPNT command NOT Received) then alerts shall be generated
Variometer / Barometric Altitude Readings	This is so as to give Overall Altitude Resolution of 10cm
3 Axis IMU(Inertial Measurement Unit) to provide Realtime Heading Updates & XYZ Angular Updates	used to monitor movement of drone

Features Ready For Immediate Implementation : V1

Feature	Purpose
Crash Alert Through Accelerometer Impact	Measure G-Force & Acceleration to provide good estimate of CRASH
Upto 6 TCP/IP Server Connections & 1 HTTP-POST Connection simulatneously	Used to transfer data to multiple servers
700mins or 4000 LOG point to record if GSM Signal absent when flying	Used to log flight path and transfer to server
Internal Battery Backup of 24 Hrs (Continous Transfer)	Used to notify when device is fitted/removed from drone
Distance From Home Indication & Distance Exceed Alert	Used to montior distance from HOME POINT (Point at which drone took OFF)
45 Internally Programmable Geofences	Internally programmable Geofences for Monitoring Purposes on Device
AGPS - Assisted/Argumented GPS Location and Position Acquisition	Used to Give FAST GPS FIX and Provide Approximate Location (upto 100m) when gps signal not present(GSM Triangulation)
SMS FallBack Facility & SMS Alerts From Device	If Internet is Not Available SMS can be used to transfer data to Server , Additionally Alerts can be provided directly from device via SMS
Bluetooth 3.0 or Higher Enabled	Device has Bluetooth 3.0 or Higher option to provide pairing option with PHONE
Remotely Programmable Digital Outputs : 2 Nos	Remotely Programmable Digital Output for switching purposes
MOBILE APP & Multiple DASHBOARDS for end users and regulators	Multiple Programmable Dashbaords for Regulators and Mobile APP for end users can be provided
OTA - Remote Updates for OS and Applications	To keep device Future Ready
USB - Power Option	Can be powered up thru USB Port

Upgrade V2 (3Months)

Feature	Purpose
Waypoint & Flight Plan Monitoring with Deviation Alerts on Device and Software	To Monitor actual Flight Path and Filed Flight Plan , highlighting Deviations in the same
RBPC - Real-time Barometric Pressure Corrections via OTA	To Provide Absolute Barometric Altitude in MSL
GPS Jamming of DRONE for NPNT	To JAM GPS of Drone thereby hindering Take-off
BLE Switch for Disabling / enabling power	To Be retro fitted inside drone at future date for NPNT through Power
TRNG Based Secure Encryption for Payload & Packet with TKIP over Layer	Used for High Security Encryption During Packet Transfer
SSL / TLS Security for Handshake to initiate Data Transfer	For Device Validity Identification
API For Drone Manufacturers to received data into their GCS's	For Expansion
User Access Panel with flight path and plan integration into Digital Sky	For Holistic Solution
Integration of Zuppa Telematics Backend with Digital Sky API	For Holistic Solution

Certifications



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