



CubePilot Cube ID_CAN Remote ID for Broadcasting Information UAVs Flight User Manual

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Overview

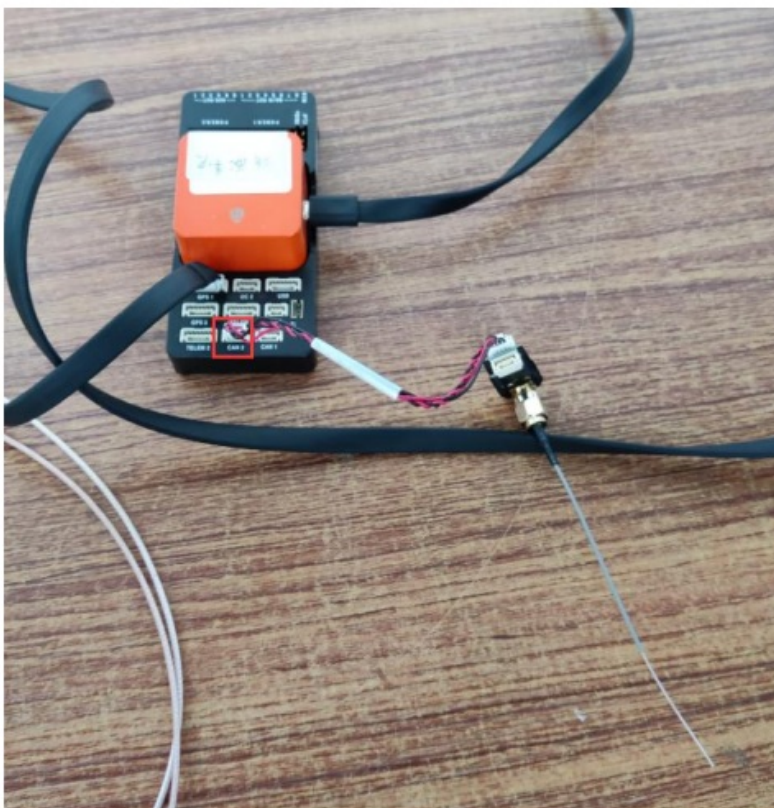
Cube ID_CAN is small size (25mm * 13.75mm * 3.5mm) Remote ID which broadcasting information about UAVs in flight through a Bluetooth 5.2 dual-mode unit, supports both CAN and serial protocols. Users can write different codes with one Cube ID only, to adapt to multiple UAVs based on their needs.

Hardware Specification

Type	Parameter
Bluetooth chip	Nordic NRF52840 Bluetooth 5.2
Frequency	2402MHz-2480MHz
LDO	MIC5353-3.3
Antenna Name	2.4Ghz SMA to Wire antenna
Antenna Model	392-00124
Operation Temperature	-40°C-85°C
Dimension	25*13.75*3.5mm
Weight	10g(with cable and antenna)
Protocol	Serial&CAN

Operation instruction

Connect the Cube ID_CAN to the CAN1 Connector of flight control, and view the transmission data in the mobile phone software Drones.



Installation

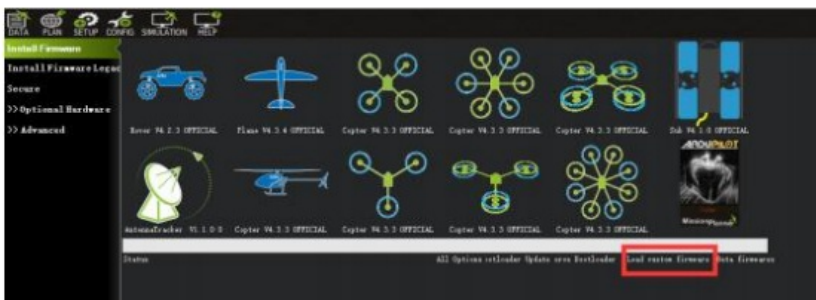
Connect the CAN or Serial port on module and flight controller with the suitable cable (we provide 4 Pin CAN cable, 6 Pin and 8 pin Serial cable). Stick the module to UAV by regular sticker or soft sticker (with slightly vibration isolation).

Keep the antenna away from the propeller.

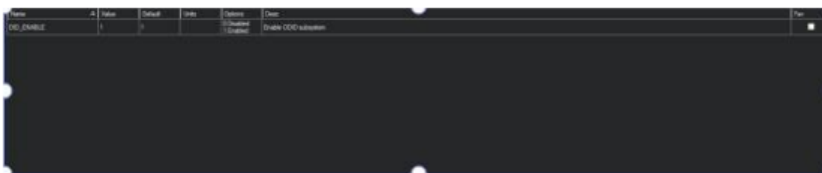
Settings

1. Remark: Cube ID has not been ready on standard APM firmware. Must create OpenDroneID firmware. Please check following web for build the firmware : <https://ardupilot.org/dev/docs/opendroneid.html#opendroneid>
<https://www.youtube.com/watch?v=Az8v4Kx4hS0>

Connect the flight controller to computer via USB Open Mission Planner latest version. Install the OpenDroneID firmware by “Load custom firmware”.



2. Go to “Full Parameter List” and find “DID_ENABLE”. Change it to “1” to enable ODID



3. Go to “Full Parameter List” and find “CAN_P1_DRIVER”. Change it to “1” to enable CAN.

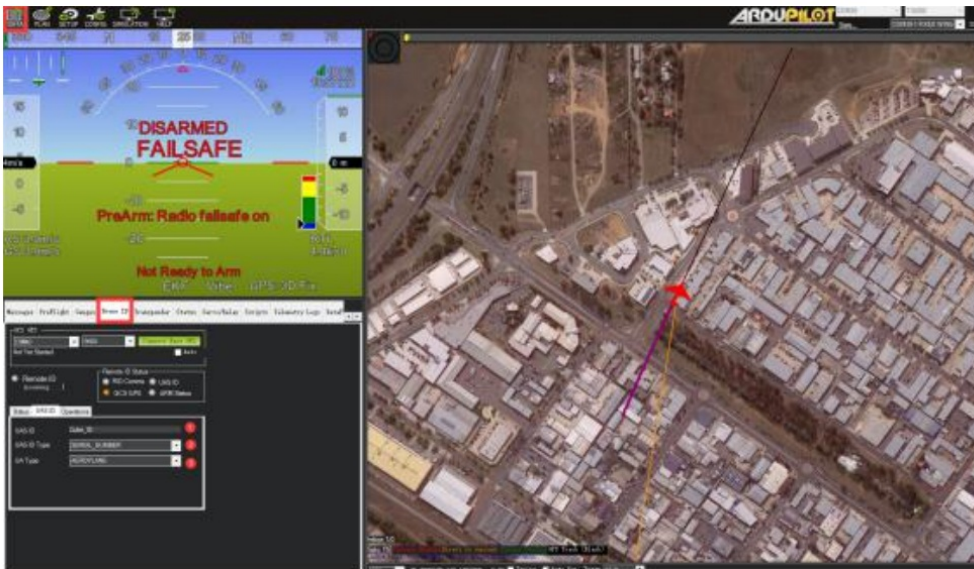


or if you use serial port, find Serialx_PROTOCOL and change it to mavlink

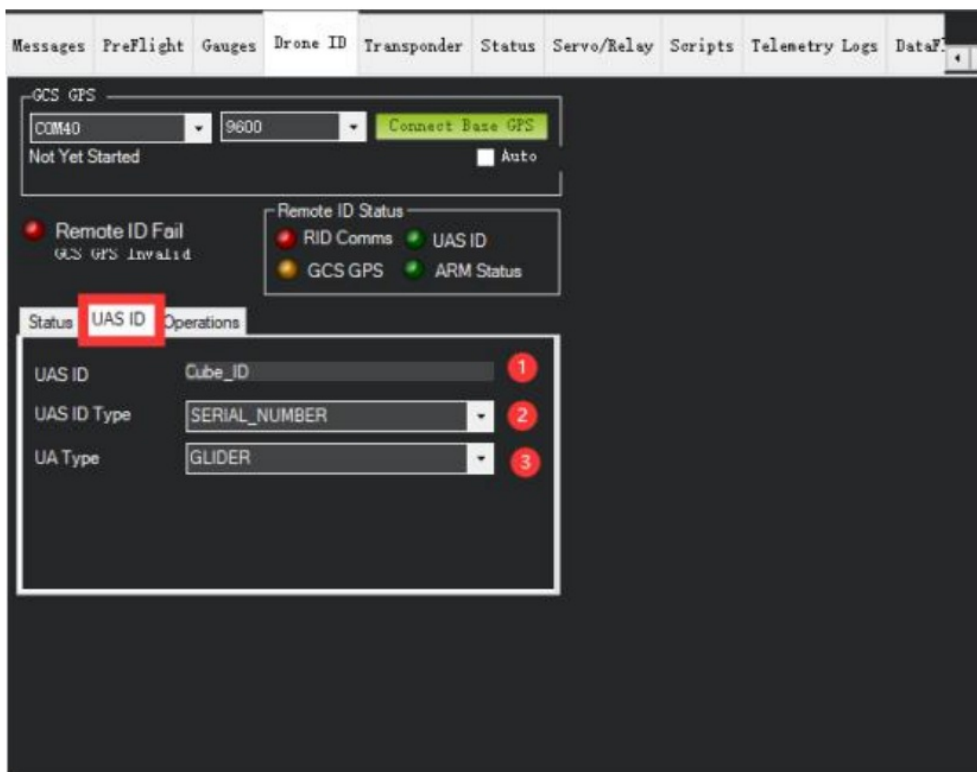


4. Go to MissionPlanner homepage select Drone ID to set (1)UAS ID* (2)UAD ID

Type and (3)UA Type



to set (1)UAS ID (2)UAD ID Type and (3)UA Type



Go to Operation to set (1)Operator ID , (2)Oper ID Type , (3)Self ID DESC and (4)Self ID Type

Messages
PreFlight
Gauges
Drone ID
Transponder
Status
Servo/Relay
Scripts
Telemetry Logs
DataF.

GCS GPS
COM40
9600
Connect Base GPS
Not Yet Started
Auto

Remote ID Fail
GCS GPS Invalid
Remote ID Status
RID Comms
UAS ID
GCS GPS
ARM Status

Status
UAS ID
Operations


Operator ID
001
1
Oper. ID Type
CAA
2
Self ID:
Self ID Desc
HI
3
Self ID Type
TEXT
4

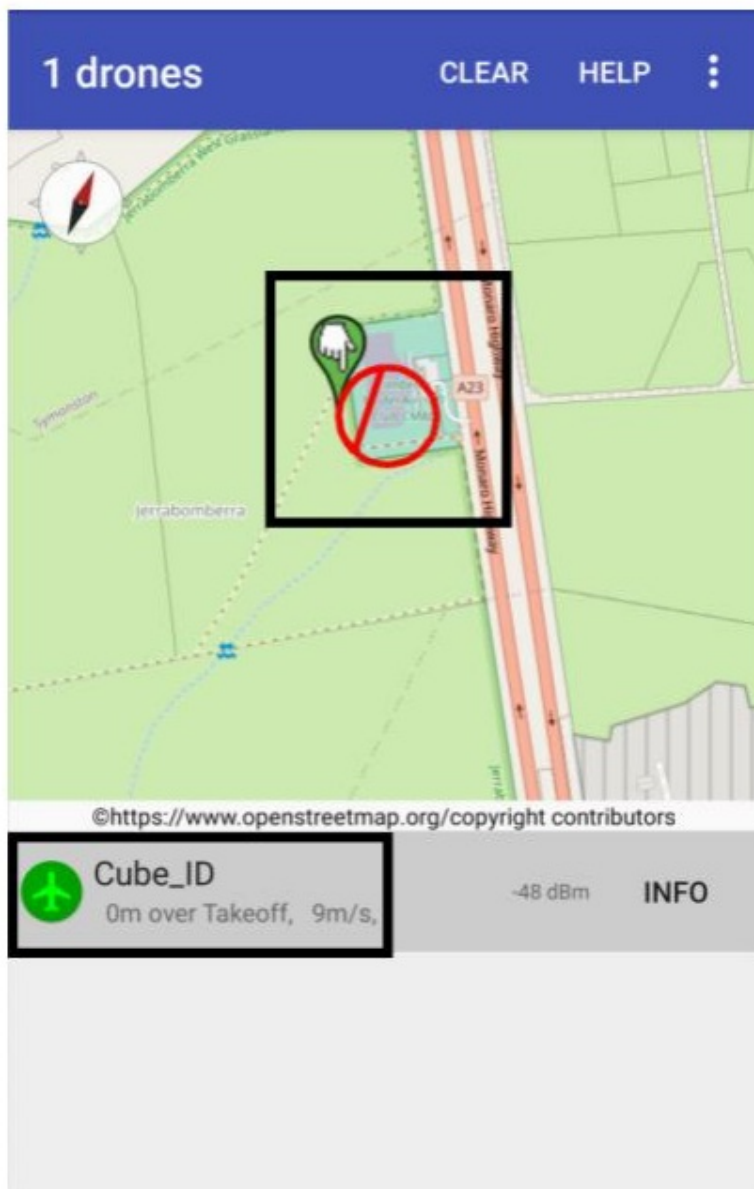
Testing

Download DroneScanner for IOS OpenDroneID or DroneScanner for Android to detect and monitor nearby UAVs.



CONNECTION

Type	Signal Strength (RSSI)	
⌘ 4 BT 4 Legacy		-48 dBm
First Seen	Last Seen	# Messages
39s ago	< 1 s ago	120



Warning

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Second label must be placed on the outside of the final device that contains the following text:

"Contains FCC ID: 2A6CG-HX406253"

The FCC ID can be used only when all FCC compliance requirements are met.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ## FCC Radiation Exposure Statement

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Documents / Resources

References

- Manuals+.**