



CubePilot Cube ID for Broadcasting UAVs Flight User Manual

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CubePilot

Cube ID for Broadcasting UAVs Flight
User Manual

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Overview

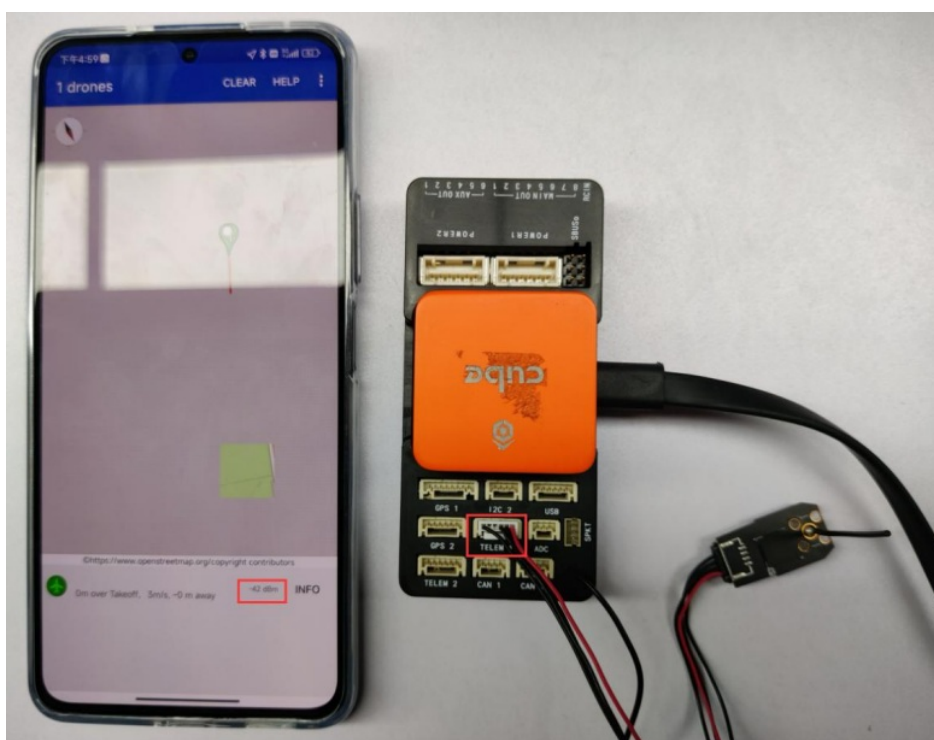
Cube ID is small size (25mm * 13.75mm * 3.5mm) Remote ID which broadcasting information about UAVs in flight through a Bluetooth 5.2 dual-mode unit, supports serial protocol. Users can write different codes with one Cube ID only, to adapt to multiple UAVs based on their needs.

Hardware Specification

Type	Parameter
Bluetooth chip	Nordic NRF52840 Bluetooth 5.2
Frequency	2402MHz-2480MHz
LDO	MIC5353-3.3
Antenna Name	Wire Antenna
Antenna Model	UL1007-26AWG
Operation Temperature	-40°C-85°C
Dimension	25*13.75*3.5mm
Weight	10g(with cable and antenna)
Protocol	Serial

Operation instruction

Connect the Cube ID to the TELEM1 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

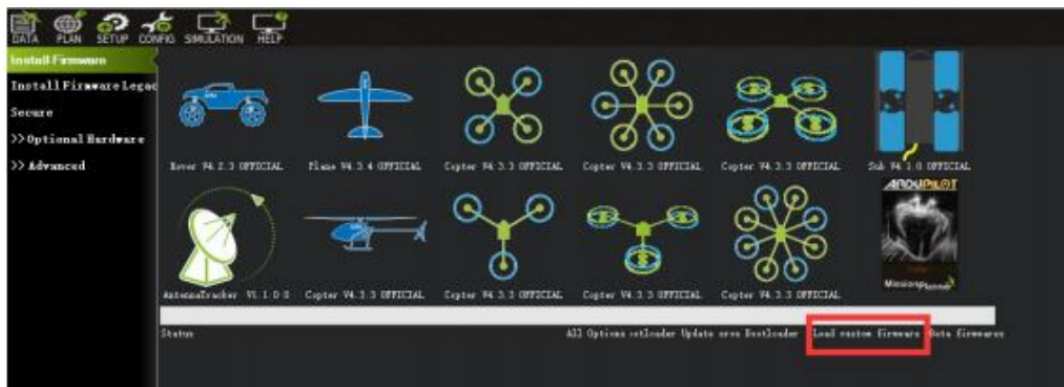
Remark: Cube ID has not been ready on standard APM firmware. Must create OpenDroneID firmware. Please

check following web for build the firmware:

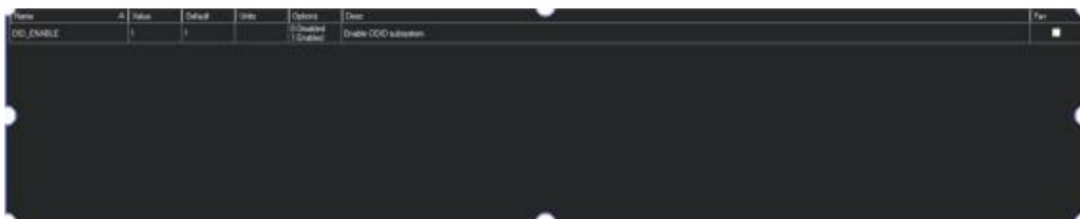
<https://ardupilot.org/dev/docs/opendroneid.html#opendroneid>

<https://www.youtube.com/watch?v=Az8v4Kx4hS0>

1. Connect the flight controller to computer via USB cable. 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.



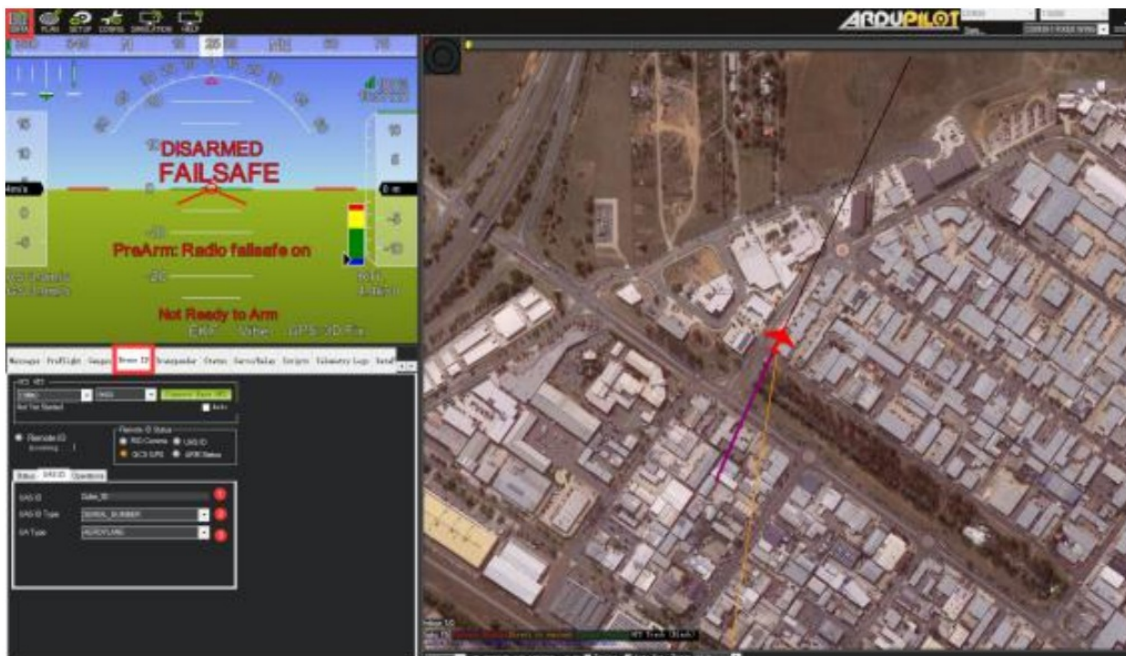
3. Go to “Full Parameter List” and find “CAN_P1_DRIVER”. Change it to “1” to enable CAN.



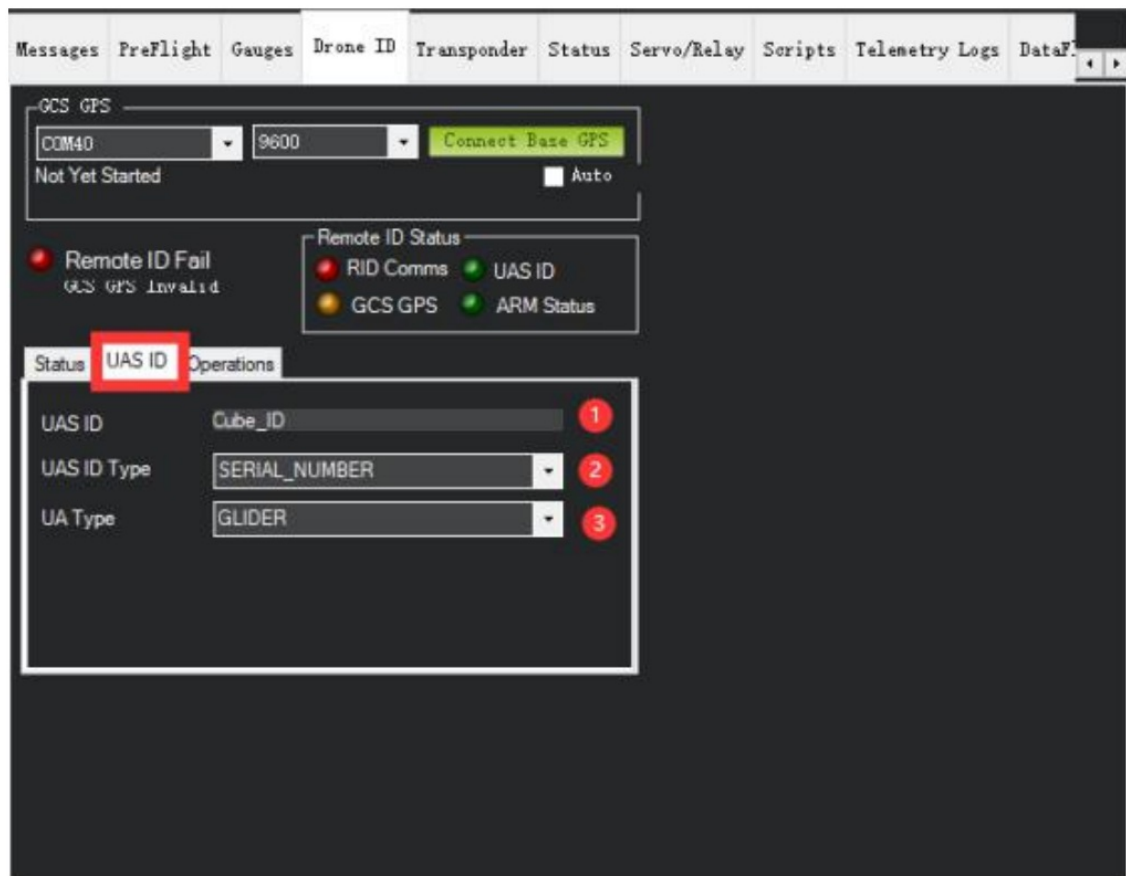
(or if you use serial port ,find Serialx_PROTOCOL and change it to mavlink)



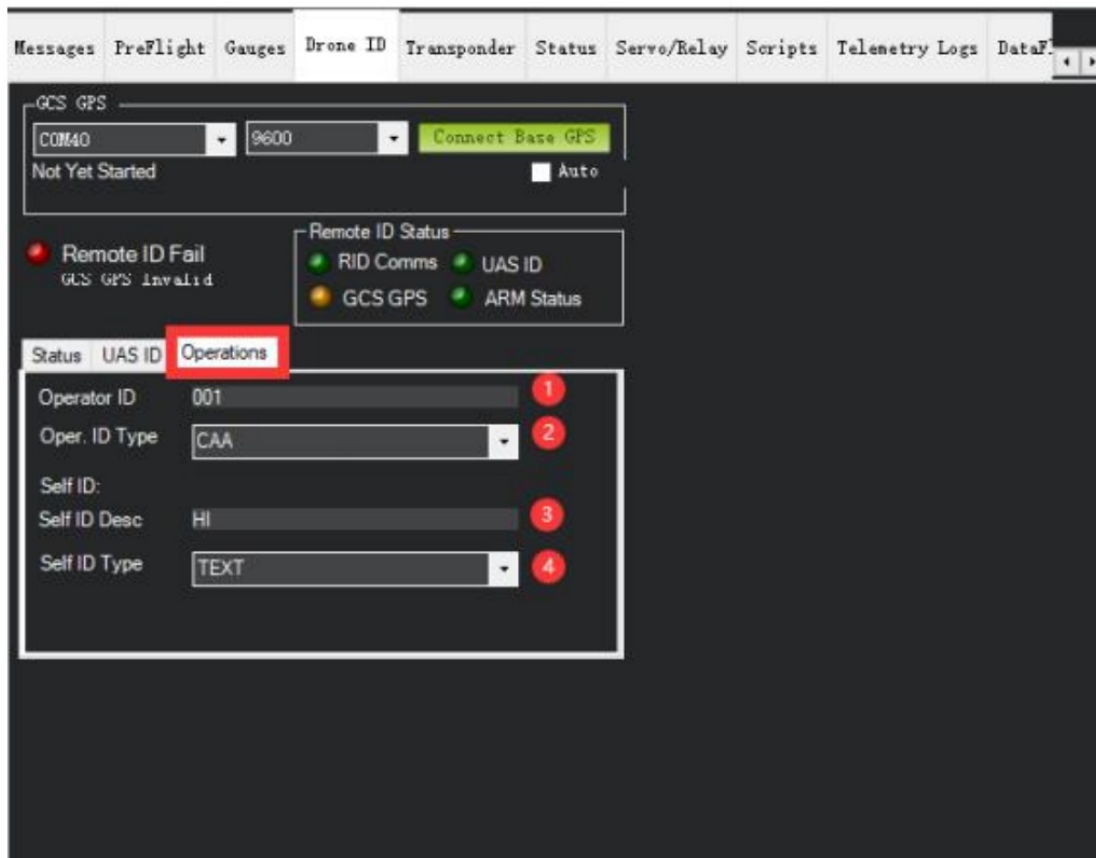
4. Go to Mission Planner homepage select Drone ID to set (1)UAS ID* (2)UAD ID Type and (3)UA Type



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

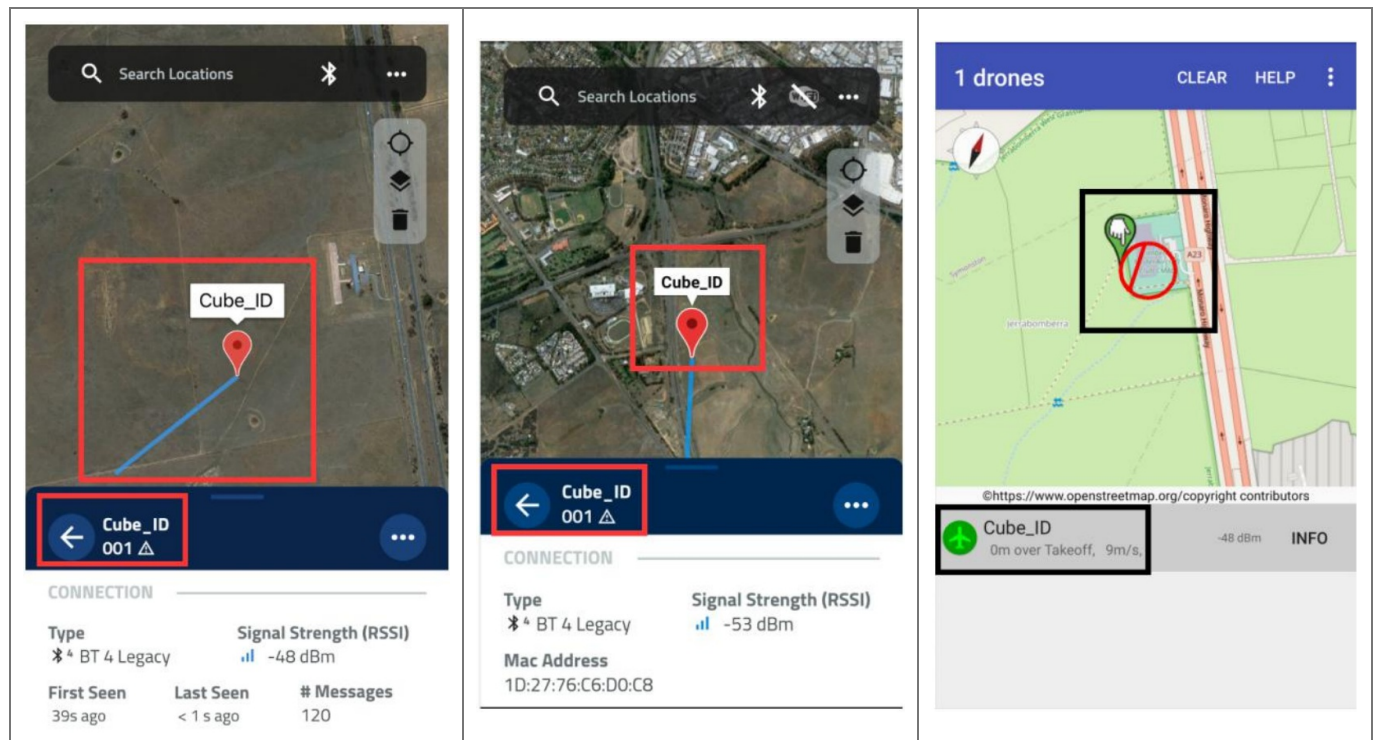


Go to Operation to set (1)Operator ID , (2)Oper ID Type , (3)Self ID DESC and (4)Self ID Type



Testing

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



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: 2A7W3-HX406252"

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

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



References

- Manuals+.