

Arkbird 433 Firmware Upgrade Instructions

Upgrading Introduction:

Arkbird 433 RX 171104Upgrading: (only upgrading the receiver)

Optimized self-adaption algorithm for the best frequency point, increase the efficient data packets quantity at the communication critical point, and make a better stability at the flight limitation point. Arkbird 433 will automatically save each frequency points communication losing data packets rates, recognizing the best frequency point and make the full advantage of it.

The latest firmware has been greatly improved at the long range flight limitation point, for example: near the 60km distance mark

1. **Arkbird LITE and 2.0 V3.3028** updates a serial port to SBUS protocol analysis support, please pay attention that the electrical level of SBUS protocol is opposite to the common serial port.
A SBUS inverter is needed when switching from one to the other.
2. Connect the SBUS serial port to the autopilot RX port through the SBUS inverter. The autopilot will automatically recognize the SBUS signal within 3 seconds, and will show an "S" at the original RSSI position on the OSD.



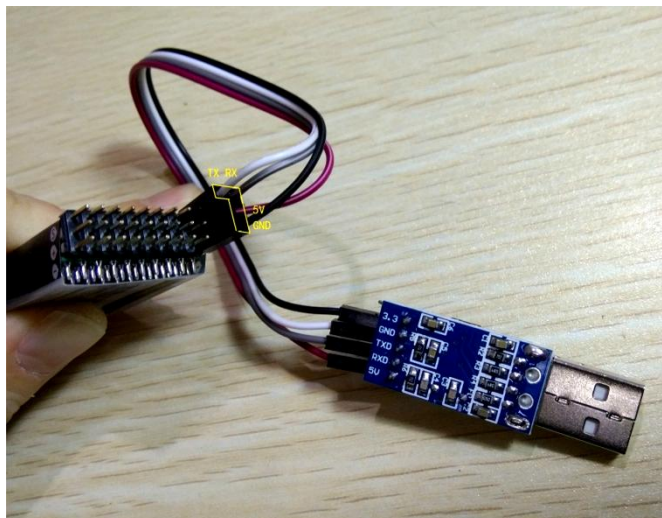
NOTE: Since Futaba's SBUS has many types of protocols, (some "end bytes" are 0x00 and some are 0x04 0x14 0x24 0x34 circulation), could happen that you'll find some incompatibility issues after connecting the SBUS inverter and cannot be recognized automatically. If that's the case, please add our QQ group 19329609 or contact Arkbird@foxmail.com for getting proper assistance.

At the same time, Arkbird 433 receiver updated the function of output SBUS mode signal through serial port. Arkbird 433 receiver has been updated to the newest version, after connecting the SBUS inverter, it can connect with other types of SBUS controllers.



How to Upgrade?

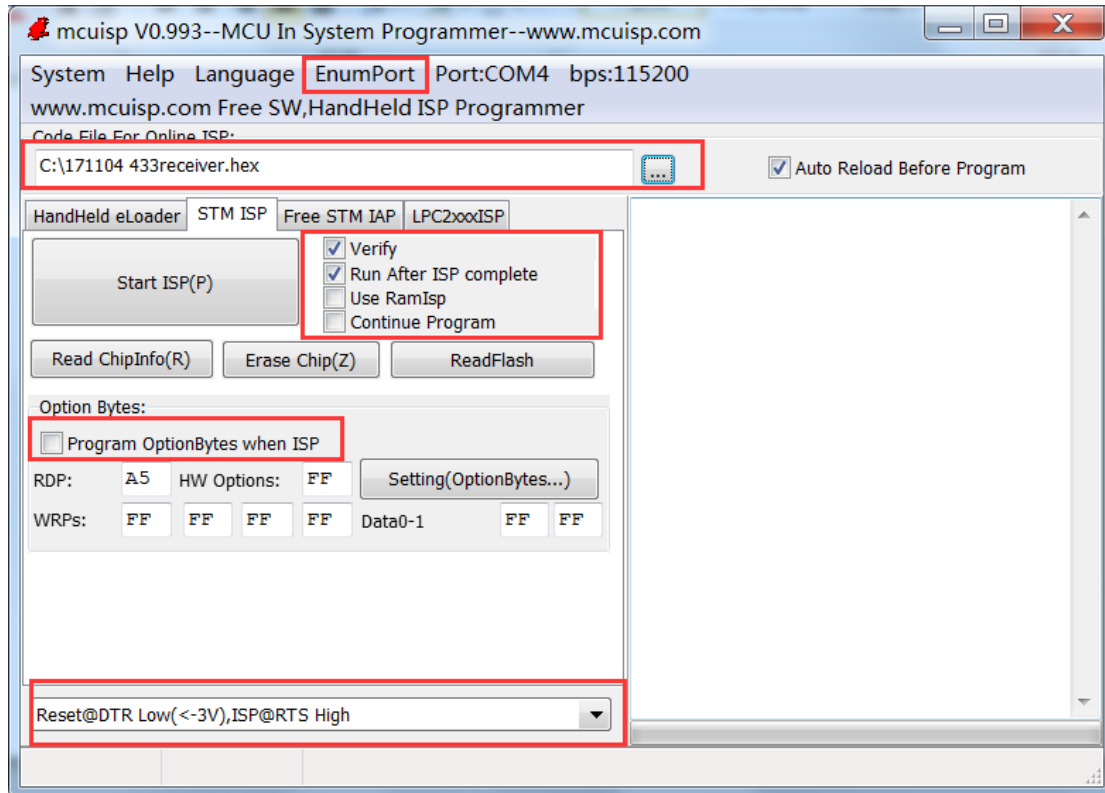
1. At the first start, please install the USB to ttl upgrading board **driver** (PL-2303HX).
2. Wiring the receiver as below, and then press the **bind button on the receiver** when plug **the** USB to PC.



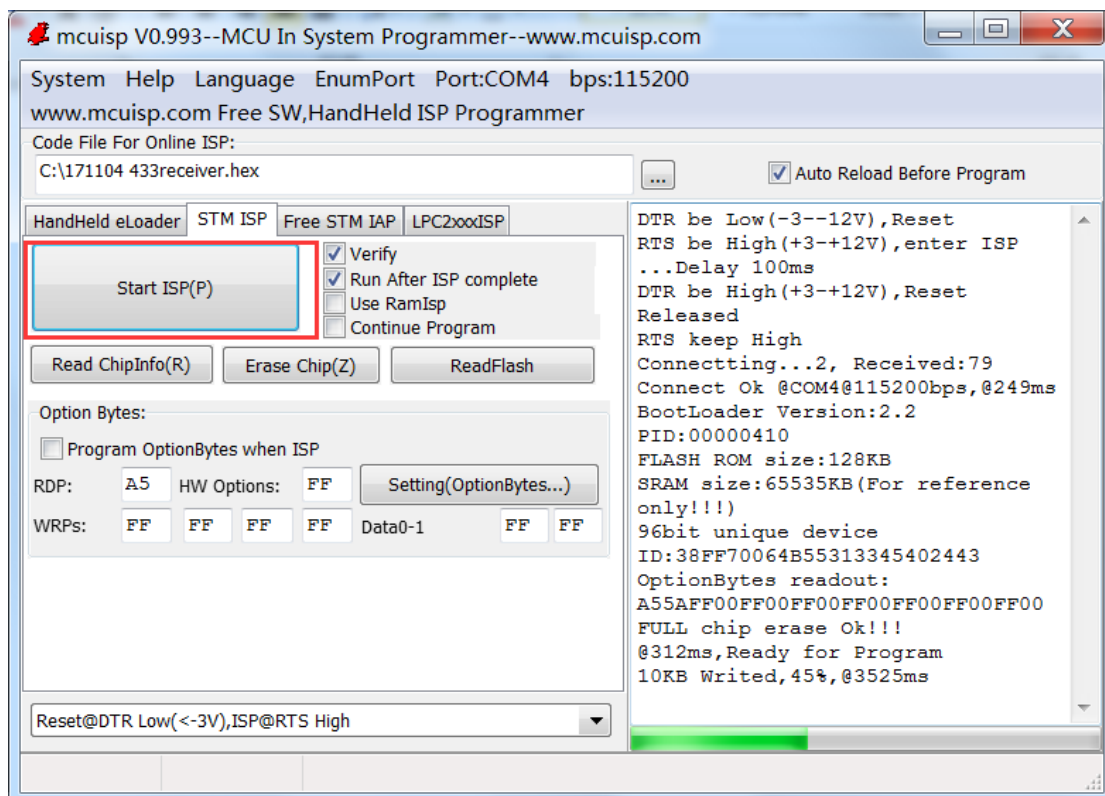
3. Open the "mcuisp" software, click the "EnumPort " button. (If port has been occupied, please close any software which may occupy ports or restart your computer and **re-connect** again.)
4. Choose the **ONLY the** hex file provided by the supplier, and then set all information just like the picture showing as below, pay more attention to the red marks.

PS:

Rename the hex file (for example: abc.hex) and then save it to root directory, like C:\ .



5.Click "Start ISP"



6.After progress finish 100%, unplug USB and install.

Q and A

Q: I can't search and find out the COM port, what should I do?

A: Your computer needs to have a COMM port available, please check there's no conflict on COMM ports, reinstall the drivers or restart your computer.

Q: Software "mcuisp" always showing "Start connecting...", but I can't connect. Why?

A: It is probably the USB to ttl converter can't be programmed, please change to another one. Or try to check the wiring, crossing connection with the TX, RX.

Issue that may occur:

1. Searching no COM PORT :

Reset com port on computer, or re-install USB-TTL device driver (for PL-2303HX) .

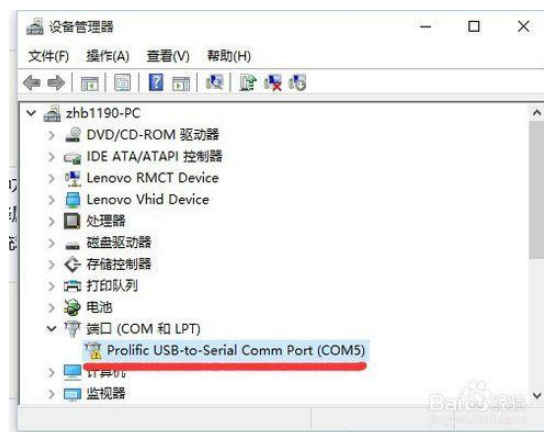
2. mcuisp is stuck at "Connecting..." and kept counting down, failed to connect:

The USB-TTL device may not be able to do write processing, please change the a computer to test.

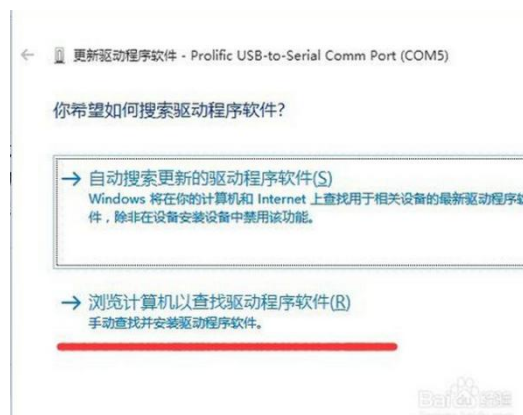
3. In Win10 OS, if you are unable to install the driver

Select the right click menu of "This PC", open the Device Manager

You can see an exclamation mark in the corresponding driver of PL2303 COM



Right-click the device with exclamation mark, select "update the driver" ,
Select "manually search and install the driver"



Select “select from the list of computer drivers”. Select the driver with version “3.0.1.0”, then click the next step to wait for the update of driver and readily use it.

