



### **Arkbird 2.0/LITE Autopilot Update manual**

**2.0 Autopilot has two CPUs which have to be updated separately.**

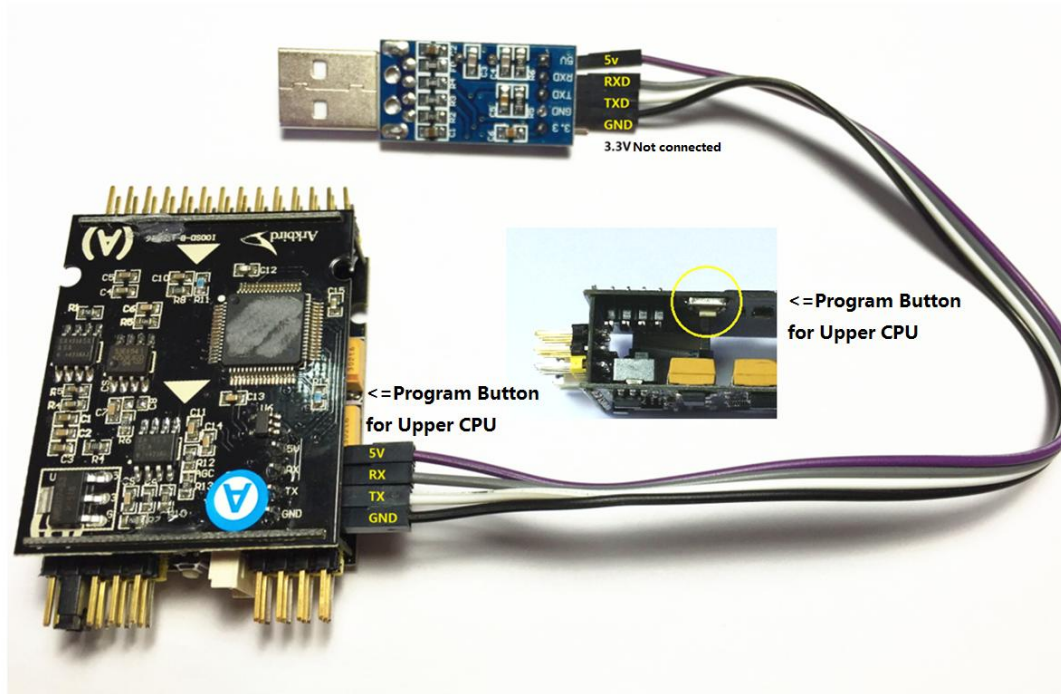
**The upper CPU can be updated directly with provided file , but you have to send back the lower CPU 's ID for registration. Once registered, you can directly update your Autopilot with provided file form our website.**

**LITE Autopilot has only one CPU, which's firmware is as the same as 2.0's Lower one. Register and update this CPU referring to this manual.**

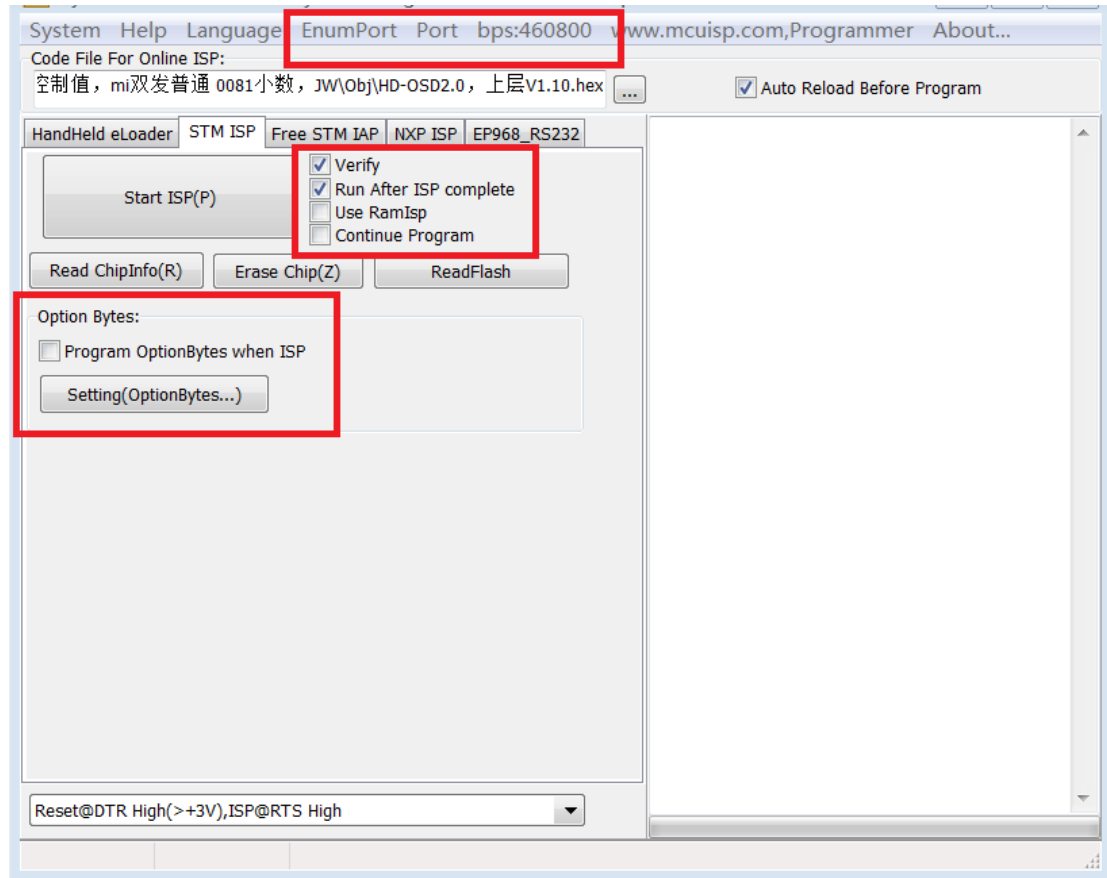
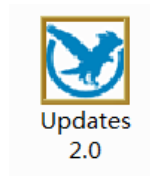
### Upper CPU:


1. Please install" USB to TTL" device driver first. (for PL-2303HX).
2. Connecting Arkbird to" USB-TTL" device. There are **TX, RX, GND and 5V pins** on Arkbird (see pic.), please connect these four pins to the corresponding pin on USB-TTL device, that isn TX to TX, RX to RX.(If you use your own USB-TTL device, sometimes TX should be connected to RX and RX should be connected to TX. If failed to connect to computer, please do cross-check).

Connect wires referring to the graph, **connect the USB port while PERSSING program button**



3. Open Updates software, and click "EmumPort" (see pic.).



4. Press , Select the Upper CPU's .hex file and press "Start ISP", to update corresponding CPU directly.

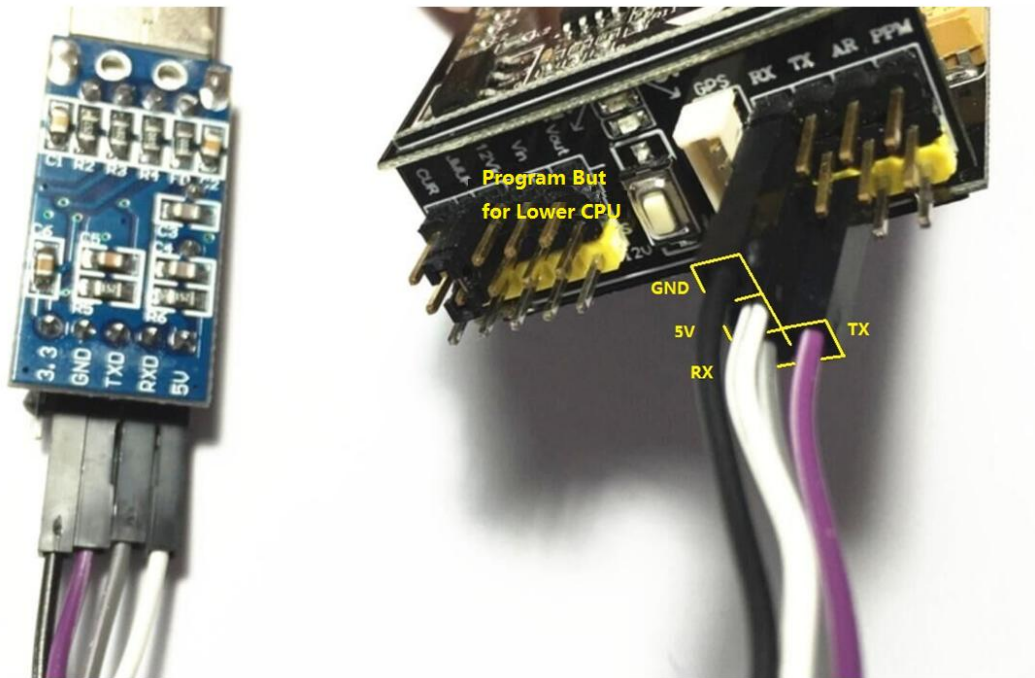
**NOTICE:**

- a) **DO NOT** select "Program OptionBytes when ISP"
- b) **DO NOT** select Use RamIsp.

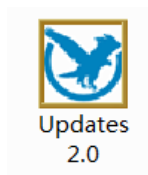
## Lower CPU

### 1. Read its ID

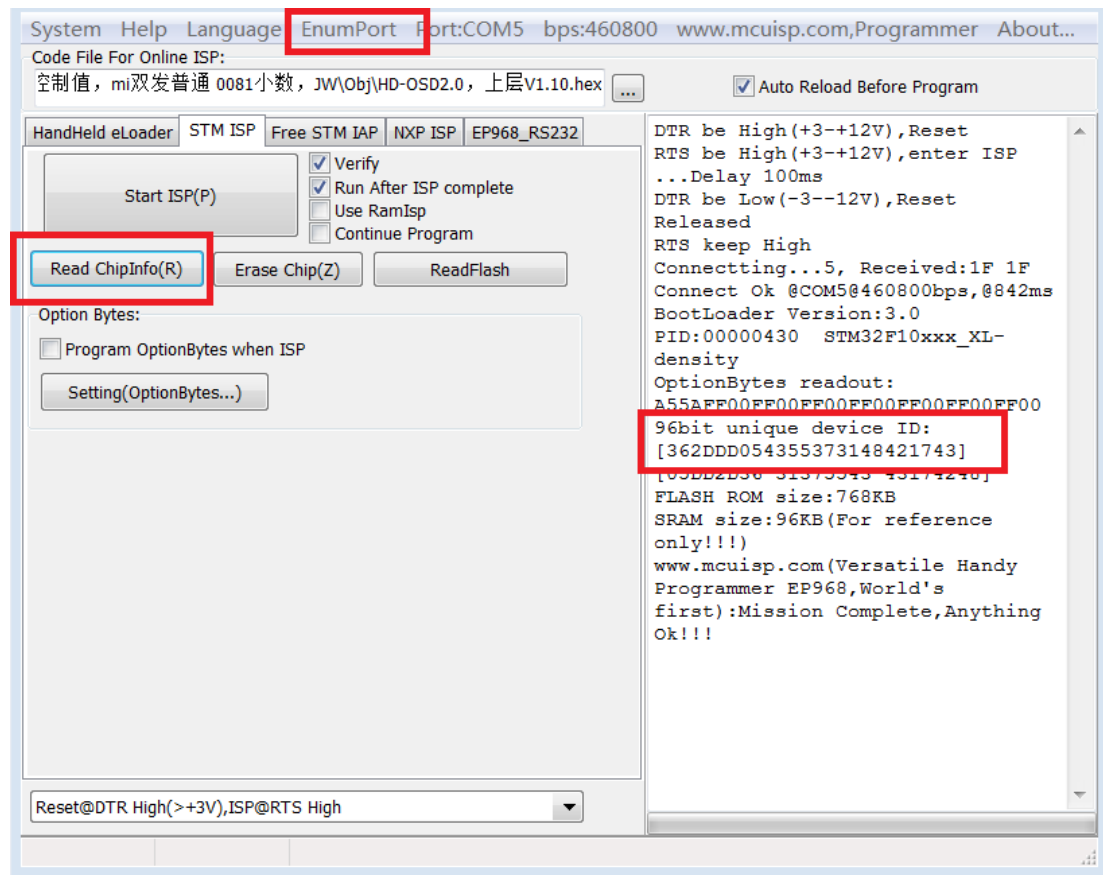
Connect wires referring to the graph, **connect the USB port while PRESSING** program button, which is on the other side of the board



### 2. Open Updates software, and click "EmumPort"



4. Click "Read ChipInfo" (see pic.) to get Ground ID Number (The ID Number should be 12 numbers like "362DDD054355373148421743" shown in the picture below).



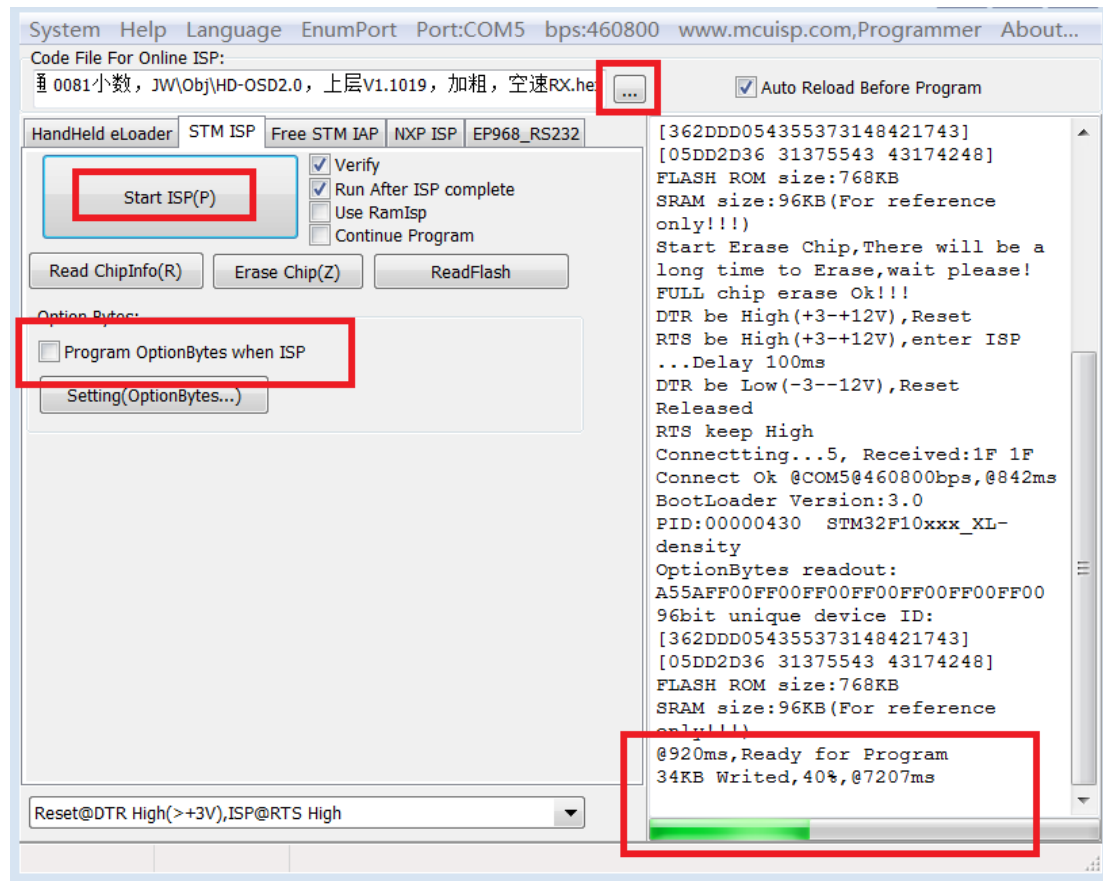
6. Please mail the unique ID Number to [arkbird@foxmail.com](mailto:arkbird@foxmail.com),

**Note the id is Arkbird Autopilot 2.0**, we will provide you two new file within 2 working days.

when authorized. Do not enter to next step before receiving the new file.

## 5. **DO NOT** select "Program OptionBytes when ISP"

Press , Select the Lower CPU's .hex file and press "Start ISP", to update corresponding CPU directly.



Arkbird will run automatically while 100% finished.

**It will do neutral point alignment automatically while power on at the first time.**

**Attention:** You cannot proceed write processing without ID Number and authorized file, and the device is possible to be damaged.

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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.

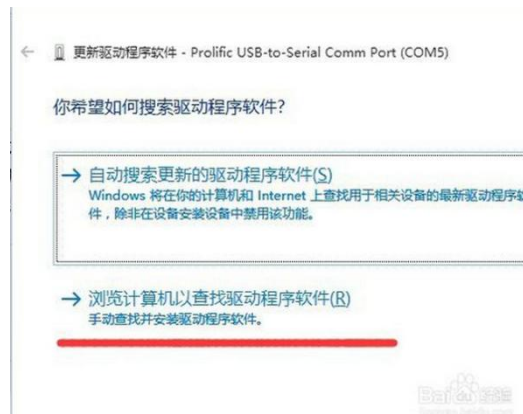
3. In Win10 OS, if you are unable to install the driver

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.



