Arkbird Firmware Update Instruction
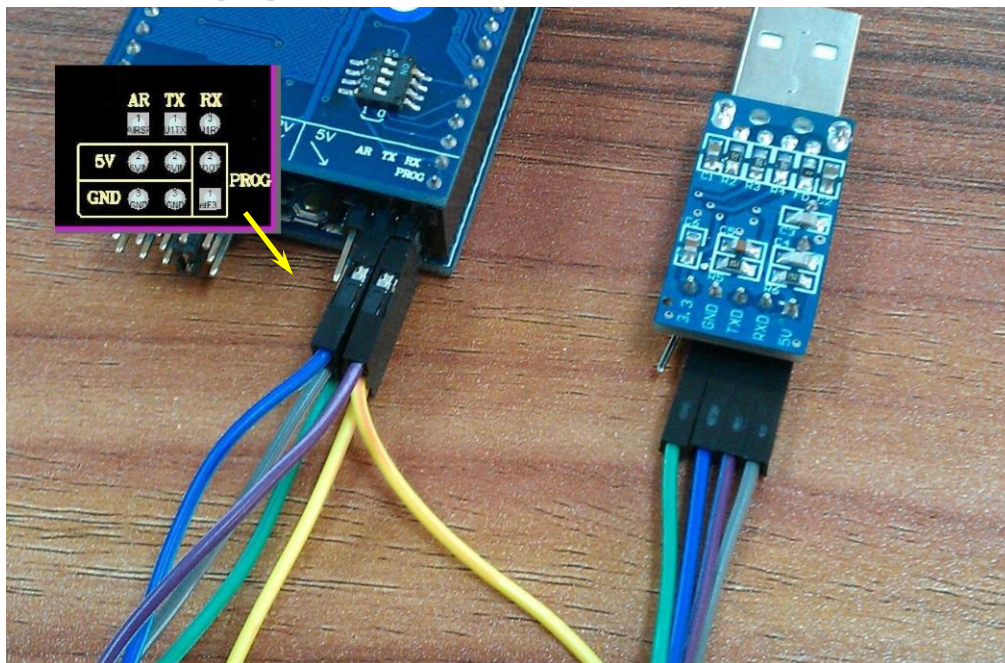
1. Please install" USB to TTL" device driver first. (for PL-2303HX).
2. Connecting Arkbird to" USB-TTL" device. There are TX, RX, GND and 5V pins on Arkbird (see pic.), please connect these four pins to the corresponding pin on USB-TTL device, that is TX to TX, RX to RX. (If you use your own USB-TTL 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).

Note：

If you don't short the PROG pin (see pic.), press RESET button to enter "Normal Mode."
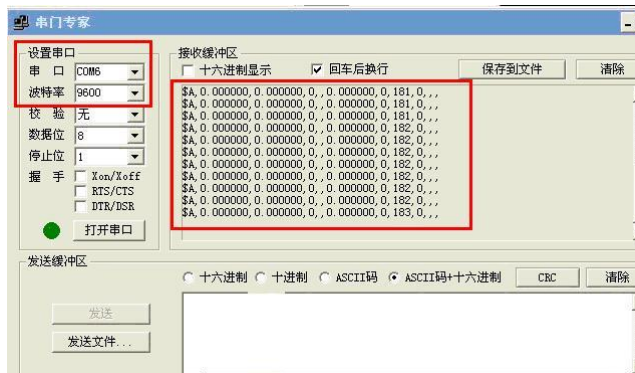If you short the PROG pin, press RESET button to enter "Write Mode."

Doubled board stack-up version

3. Make sure the connection is correct：

Do not short the PROG pin, open "SerialPortExper.exe," and press RESET button on Arkbird.
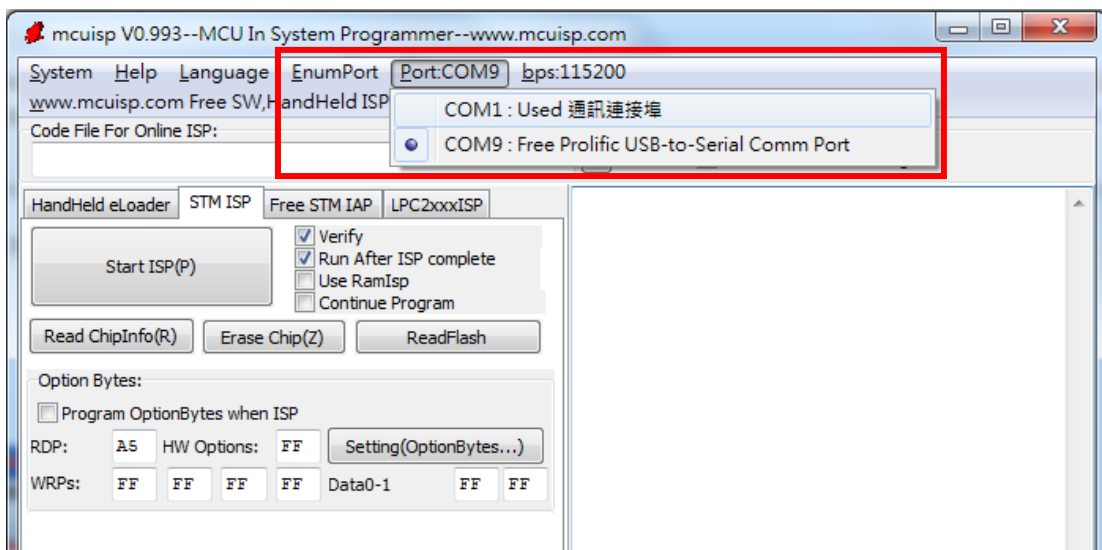
Once choosing correct com port and Baud Rate, there will be $A information output as the picture below, which means the connection is correct.
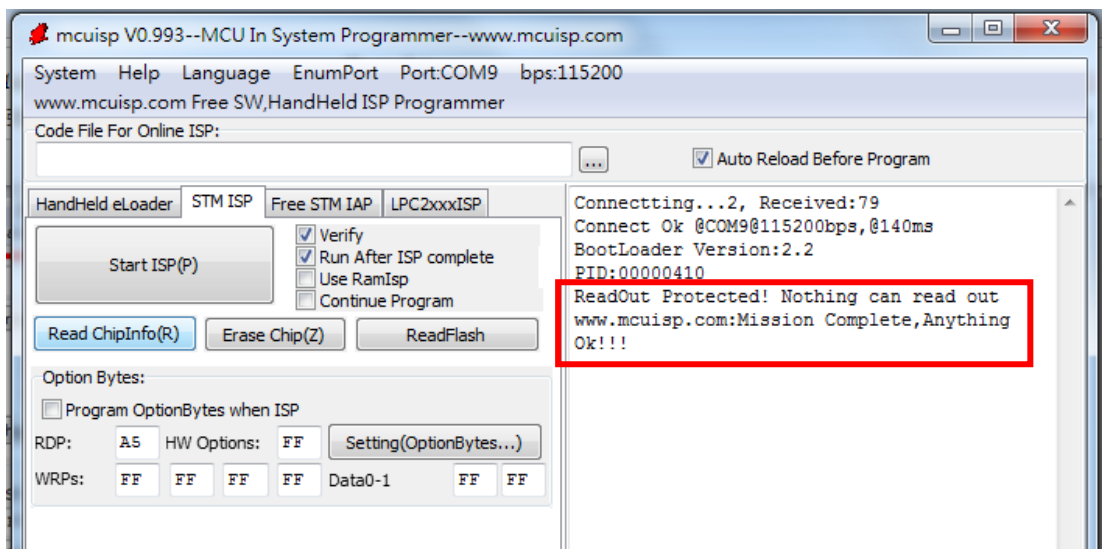

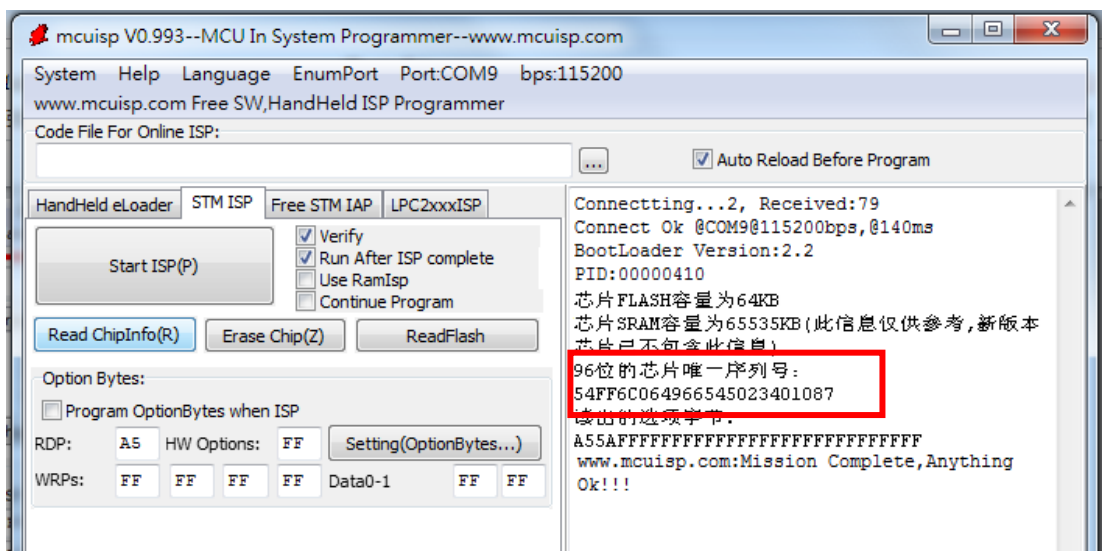4. **Short the PROG pin,** open "mcuisp.exe," and click "EmumPort" (see pic.).

mcuisp.exe

5. Click "Read ChipInfo" (see pic.)to get Arkbird ID Number, when showing "Connectting" please press RESET button to reset.
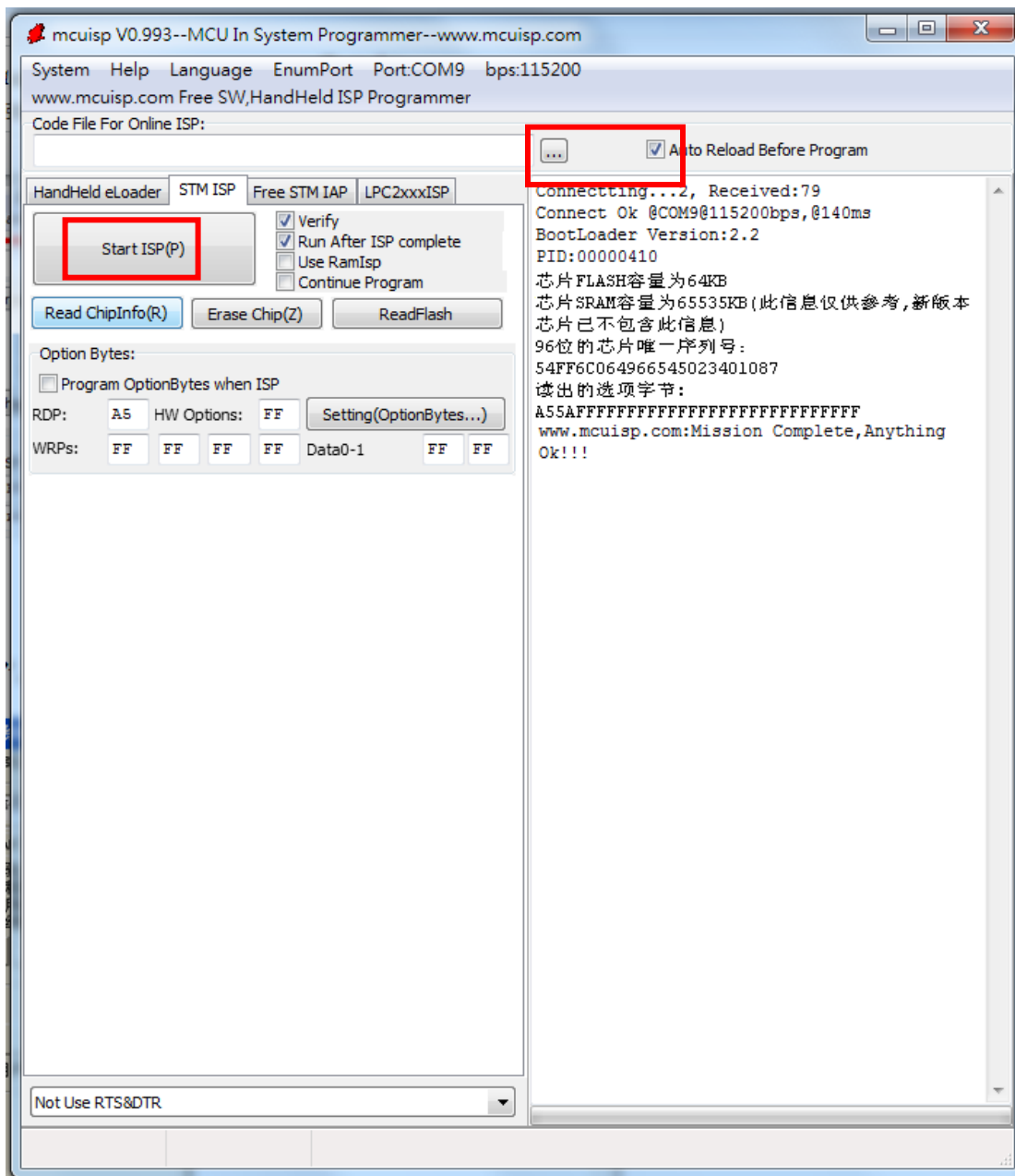
6. If it shows "ReadOut Protected!", which means correct connection, click "Erase Chip" to clean the Read protection（Please note Arkbird won't work once cleaning）.

7. Click "Read ChipInfo" again, then remember the ID Number shown,（The ID Number should be 12 numbers like "54FF6C064966545023401087" shown in the picture below）.

Please mail the unique ID Number to arkbird@foxmail.com we will provide you the new file which is authorized. Do not enter to next step before receiving the new file.

8. Click _____ , choose "firmware file (*.hex)" from factory. Check "Verify" and press "Start ISP" button to write new file to Arkbird.

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 and no $A information output：
    Reset com port on computer, or re-install USB-TTL device driver（for PL-2303HX）.

2. mcuisp is stuck at "Connectting…." and kept counting down, failed to connect：
    The USB-TTL device may not be able to do write processing, please change the device.