

Arkbird Firmware Update Instruction

- 1. Please install" USB to TTL" device driver first. (for PL-2303HX).
- 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.

- 设置串口	接收缓冲区	
串口 COM6 💌	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	保存到文件 清除
波特率 9600 👻	\$A, 0. 000000, 0. 000000, 0, , 0. 000000, 0, 181, 0, , ,	
校验 无 ▼	\$A, 0. 000000, 0. 000000, 0, , 0. 000000, 0, 181, 0, , , \$A, 0. 000000, 0. 000000, 0, , 0. 000000, 0, 181, 0, , ,	
数据位 8 🔹	\$A, 0, 000000, 0, 000000, 0, , 0, 000000, 0,	
停止位 1 🔹	\$A, 0. 000000, 0. 000000, 0, , 0. 000000, 0, 182, 0, , ,	
握 手 「 Xon/Xoff	\$A, 0. 000000, 0. 000000, 0, , 0. 000000, 0, 182, 0, , , \$A, 0. 000000, 0. 000000, 0, , 0. 000000, 0, 182, 0, , ,	
T RTS/CTS	\$A, 0. 000000, 0. 000000, 0, 0. 000000, 0, 182, 0, , ,	
DTR/DSR	\$A, 0. 000000, 0. 000000, 0, , 0. 000000, 0, 102, 0, , , \$A, 0. 000000, 0. 000000, 0, , 0. 000000, 0, 183, 0, , ,	
1开串口		-
告:关:44/中区		
R.K.BRITIL	○ 十六进制 ○ 十进制 ○ ASCII码 ④ ASCII码+-	十六进制 CRC 清除
发送		. <mark>.</mark>
112.136-24-24		

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



mcuisp.exe

System Help Language EnumPort Port:COM9 bps:115200 www.mcuisp.com Free SW,H andHeld ISP COM1 : Used 通訊連接埠 Code File For Online ISP: COM9 : Free Prolific USB-to-Serial Comm Port HandHeld eLoader STM ISP Free STM IAP LPC2xxxISP Verify Verify Verify Verify
HandHeld eLoader STM ISP Free STM IAP LPC2xxxISP
Start ICD/D)
Start 19P(P) Use RamIsp Continue Program Read ChipInfo(R) Erase Chip(Z) ReadFlash
Option Bytes:
Program OptionBytes when ISP
RDP: A5 HW Options: FF Setting(OptionBytes)
WRPs: FF FF FF FF Data0-1 FF FF

5. Click "Read ChipInfo" (see pic.)to get Arkbird ID Number, when showing "Connectting" please press RESET button to reset.

Arkbird

	mcuisp V0.993MCU In System Programmerwww.mcu System - Using - Language - FormPart - Part COM0, here	uisp.com				
	www.mcuisp.com Free SW,HandHeld ISP Programmer					
	Code File For Online ISP:	🔜 🔍 Auto Reload Before Program				
	HandHeld eLoader STM ISP Free STM IAP LPC2xxxISP	Connectting2, Received:79 Connect Ok @COM9@115200bps,@140ms				
	Start ISP(P)	BootLoader Version:2.2 PID:00000410 BeadOut Bretested, Nothing can read out				
5	Read ChipInfo(R) Erase Chip(Z) ReadFlash	www.mcuisp.com:Mission Complete, Anything Ok!!!				
	Option Bytes:					
Program OptionBytes when ISP						
	RDP: A5 HW Options: FF Setting(OptionBytes)					
9	WRPs: FF FF FF FF Data0-1 FF FF					

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

stem Programmerwww.mcu	iisp.com				
System Help Language EnumPort Port:COM9 bps:115200 www.mcuisp.com Free SW,HandHeld ISP Programmer					
Code File For Online ISP:					
	V Auto Reload Before Program				
HandHeld eLoader STM ISP Free STM IAP LPC2xxxISP	Connectting2, Received:79				
Start ISP(P) Verify Start ISP(P) Run After ISP complete Use RamIsp Continue Program Read ChipInfo(R) Erase Chip(Z)	Connect Ok @COM9@115200bps,@140ms BootLoader Version:2.2 PID:00000410 芯片FLASH容量为64KB 芯片FLASH容量为65535KB(此信息仅供參考,新版本 式片已不包含此信息)				
Option Bytes:	96位的芯片唯一序列号: 54FF6C064966545023401087				
Program OptionBytes when ISP	读出的选项字节.				
RDP: A5 HW Options: FF Setting(OptionBytes)	A55AFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF				
WRPs: FF FF FF FF Data0-1 FF FF	Ok!!!				

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.

	Code File For Online ISP:			
8.	Click		, choose	"firmware
	file (*.hex)" from factory. Check "Verify" and press "Start ISP"	button	to write	new file to

Arkbird.

🚅 mcuisp V0.993MCU In System Programmerwww.mcuisp.com	x				
System Help Language EnumPort Port:COM9 bps:115200					
www.mcuisp.com Free SW,HandHeld ISP Programmer					
Code File For Online 13P:					
HandHeld eLoader STMISP Free STMIAP LPC2xxxISP Connecting2, Received:79 Connecting2, Received:79 Connecting2	^				
Start ISP(P) Verify BootLoader Version:2.2 Start ISP(P) Use RamIsp Bit D:00000410 Continue Program 芯片FLASH容量为64KB					
Read ChipInfo(R) Erase Chip(Z) ReadFlash 芯片 SRAM容量为65535KB (此信息仅供参考,新版本	芯片SRAM容量为65535KB(此信息仅供参考,新版本 芯片已不包含此信息) 96位的芯片唯一序列号: 54FF6C064966545023401087				
0-fier Bitter 96位的芯片唯一序列号:					
Option Bytes: 54FF6C064966545023401087					
Program OptionBytes when ISP 读出的选项字节:					
WWW.mcuisp.com:Mission Complete,Anything					
WRPs: FF FF FF FF Data0-1 FF FF Ok!!!					
Not Lise RTS&DTR	-				
	at				

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.

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).

 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.