

# AVR Update Tool User Guide (*ZRIB board*)

## Step 1.

Copy the HEX file to the directory of tools.

## Step 2.

Connect the printer to PC USB port. Open the device manager to get the correct port number.

## Step 3.

Power on the printer. and then Double click [UpdateFw\\_ZRIB.bat](#), press any “ENTER” of keypad.

## Step 4.

Input the firmware file name, don't include extension([.HEX](#)).

## Step 5.

Input your com port, only need to type the number (for example type [3](#) if the port is [COM3](#)). If you don't known [the port number of serial communication](#) , please find it out in the “[device manager](#)” on your PC.

If the uploading process is start, wait for about 2 minutes to finish.

If you find “[ERROR](#)” message on the windows, please following the prompt to input “filaname” again.

## Step 6.

If you find “[avrdude: ser\\_open\(\): can't open device '\\.\COMx':](#)” message on the windows, please check if the com port number is right, and you can ensure it is right, just type the com port again and retry.

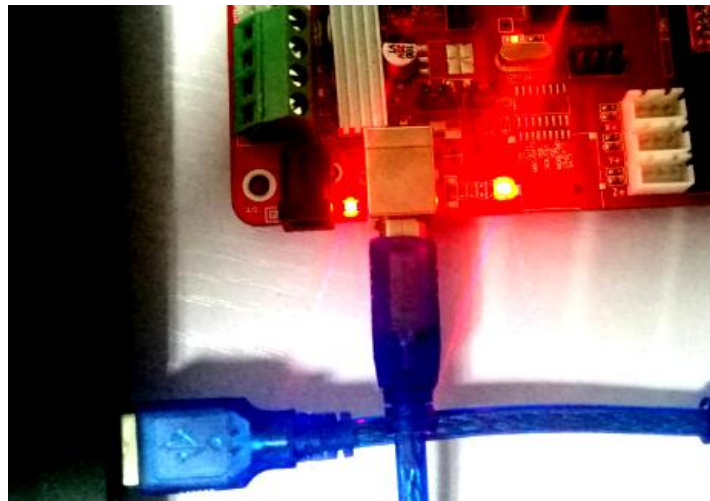
If you find “[avrdude: stk500v2\\_ReceiveMessage\(\): timeout](#)” message on the windows, please plug the USB cable and wait the upload retry again.

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## Step 1.

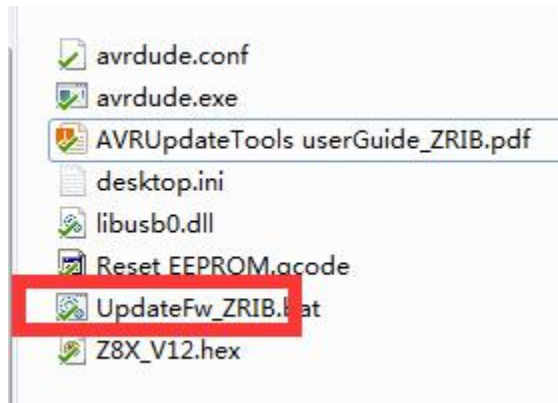
名称	修改日期	类型
avrdude.conf	2014/3/13 7:09	CONF 文件
avrdude.exe	2014/3/13 7:09	应用程序
AVRUpdateTools userGuide_ZRIB.mp4	2017/1/16 15:46	MP4 视频
AVRUpdateTools userGuide_ZRIB.pdf	2017/1/13 14:13	PDF 文档
desktop.ini	2017/5/25 11:37	Configuration Se...
libusb0.dll	2008/12/5 3:35	应用程序扩展
Reset EEPROM.gcode	2017/8/23 15:02	gcode (.gcode)
UpdateFw_ZRIB.bat	2018/7/9 19:18	Windows 批处理...
Z8X_V12.hex	2017/10/10 13:29	HEX 文件

## Step 2.



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## Step 3.



```
#####  
3D Printer Control Board Firmware Updata Tool  
for AVR ATMEGA MCU ONLY  
Date:2018-05-05  
Author:Hally  
Web:www.zonestar3d.com  
#####  
请按任意键继续. . .
```

## Step 4.

```
=====
Please Input Firmware File Name<None suffix> and press ENTER;
Por favor, ingrese el nombre del archivo de firmware <ninguno sufijo> y pulse E
ter.:
veuillez entrer le micrologiciel nom de fichier <aucune suffixe> et appuyez sur
la touche enter:
пожалуйста, введите имя файла <не прошивки с
уффикс> и нажмите Enter.
请输入固件文件名<不要后缀名>后按回车键:
=====
Z8X_U2
```

## Step 5.

```
Please Input ComPort Number<only numbers> and press ENTER;
Por favor introduzca el número de Puerto serie <solo números>, después de pulsar
la tecla Enter:
Saisissez le numéro de port série <numérique> et appuyez sur la touche:
пожалуйста, введите COM - порт номер <только ц
ифры> и нажмите Enter:
请输入串口端口号<仅数字>后按回车键:
3_
```

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## Step 6.

```
avrdude: AVR device initialized and ready to accept instructions

Reading : ##### : 100% 0.05s

avrdude: Device signature = 0x1e9801
avrdude: reading input file "Z8X_U12.hex"
avrdude: writing flash (194638 bytes):

Writing : ### : 5% 1.51s
```

Start to upload, wait for finished.

```
=====
上传完毕!
Upload Finished!
Subir terminado!
téléchargement terminé!
загрузка завершена!
=====
请按任意键继续. . .
```

Successed!

```
avrdude: ser_open(): can't open device "\.\COM2":
```

Com Port Number is error or USB connection failure, please try to:

1. Re-plug USB cable
2. Reset the printer

Then input the port number and try again.


If the issue is still the same after tried several times, please reboot your PC and try again.

```
=====
失败! 自动重试
Failure! Retry
Fracaso! Reintentar
l'échec! rejouer
провал! повторите
=====
Retry times = 1
Please Input ComPort Number (only numbers) and press ENTER:
Por favor introduzca el número de Puerto serie (solo números), después de pulsar
la tecla Enter:
Saisissez le numéro de port série (numérique) et appuyez sur la touche:
пожалуйста, введите COM - порт номер (только ц
ифры) и нажмите Enter:
请输入串口端口号<仅数字>后按回车键:
```



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```
avrdude: stk500v2_ReceiveMessage(): timeout
avrdude: stk500v2_ReceiveMessage(): timeout
avrdude: stk500v2_ReceiveMessage(): timeout
avrdude: stk500v2_ReceiveMessage(): timeout
avrdude: stk500v2_ReceiveMessage(): timeout
avrdude: stk500v2_ReceiveMessage(): timeout
avrdude: stk500v2_getsync(): timeout communicating with programmer
```



## MCU reset failure:

1. Power off and on and the try again.
2. Check if the LED which near MCU will flash twice when power on, if not, means the bootload in the MCU has been damagered, you have to upload the bootloader again by a programmer tool.