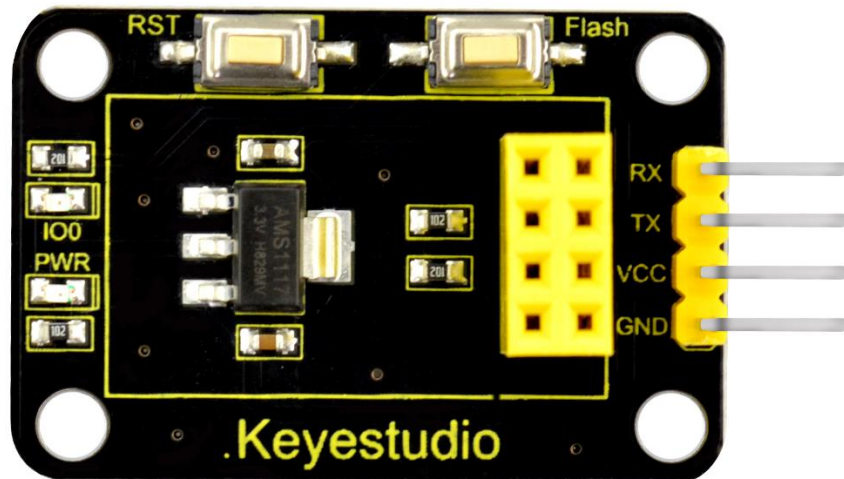


Keyestudio ESP-01S WiFi to Serial Shield for Arduino (Black and Eco-friendly)



1. Description:

This is an expansion board for the ESP-01S WiFi module. After power-on, the module is in BOOT flash mode. The AT command can be directly tested through the serial port on the shield. To burn the firmware, first press and hold the **Flash** button on the shield, then click on burning on the software interface, and press the **RST** button.

When release the Flash button, the module will enter the download mode and start burning the firmware.

2. Technical Parameters:

- Working voltage: DC 5V
- Working current: minimum 500mA
- Communication voltage: 3.3V
- Environmental attributes: ROHS
- Dimensions: 24mm*41.3mm*11.9mm
- Weight: 3.8g

3. Connection Method:

Shield	USB to Serial Module (FT232 Module)
3.3V	5V
GND	GND
TX	RX
RX	TX

4. Use Method:

1) AT Command Settings

When testing the AT command, you should use a USB to Serial module, that is [FT232 module](#), and an [ESP8266 WIFI module](#).

Connect well and then connect them to your computer using mini USB cable.



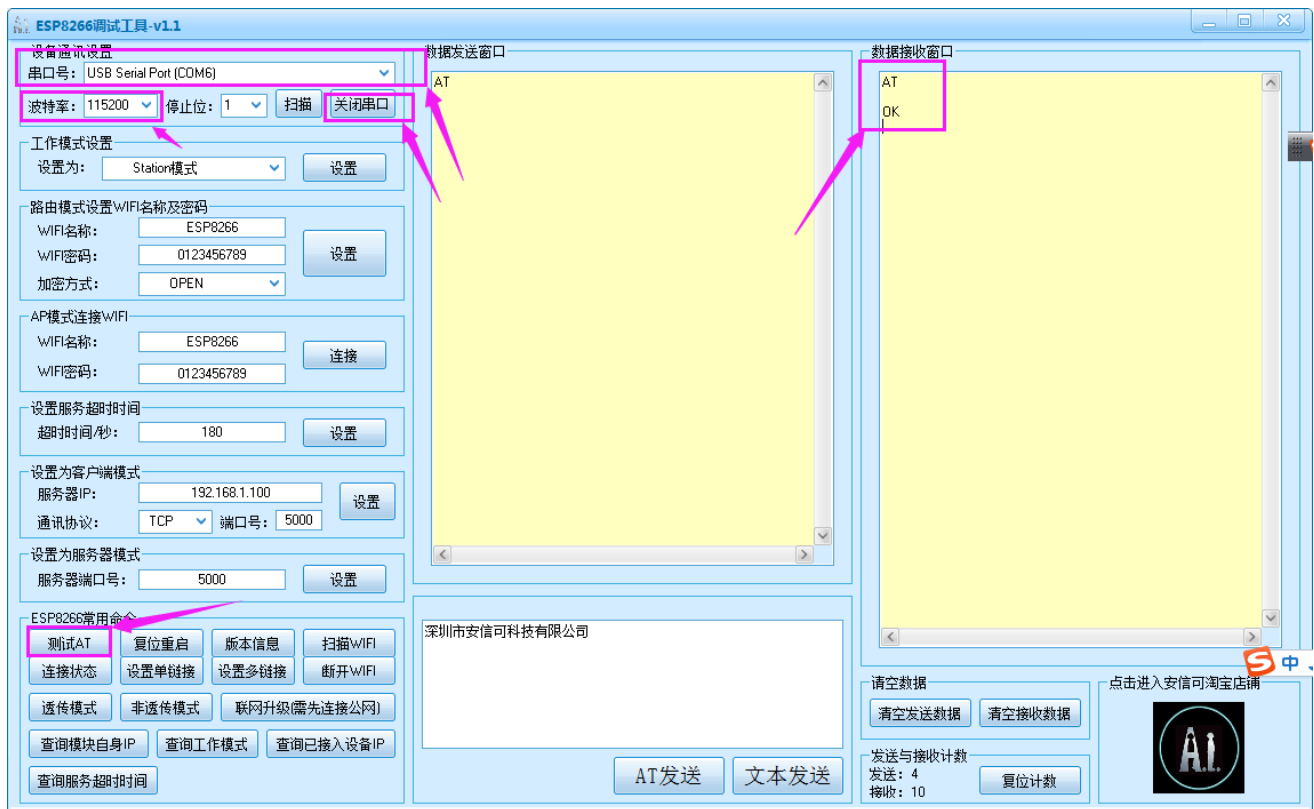
Connected successfully, open the [ESP8266 debugging tool](#), set the baud rate to 115200, click to open the Serial Port, and click Test the AT.

You should see the data received window will print out **AT OK**.

To set other AT commands, the method is similar.

You can download the ESP8266 debugging tool from the link below:

<https://drive.google.com/open?id=1UAYAhdqr2iXO49ibkLyV4c2Aieteihs6>



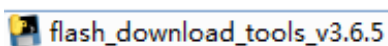
2) Firmware Programming

When setting the AT command, you should use a USB to Serial module, that is [FT232 module](#), and a [WIFI to serial shield](#).

Connect well and then connect them to your computer using mini USB cable.

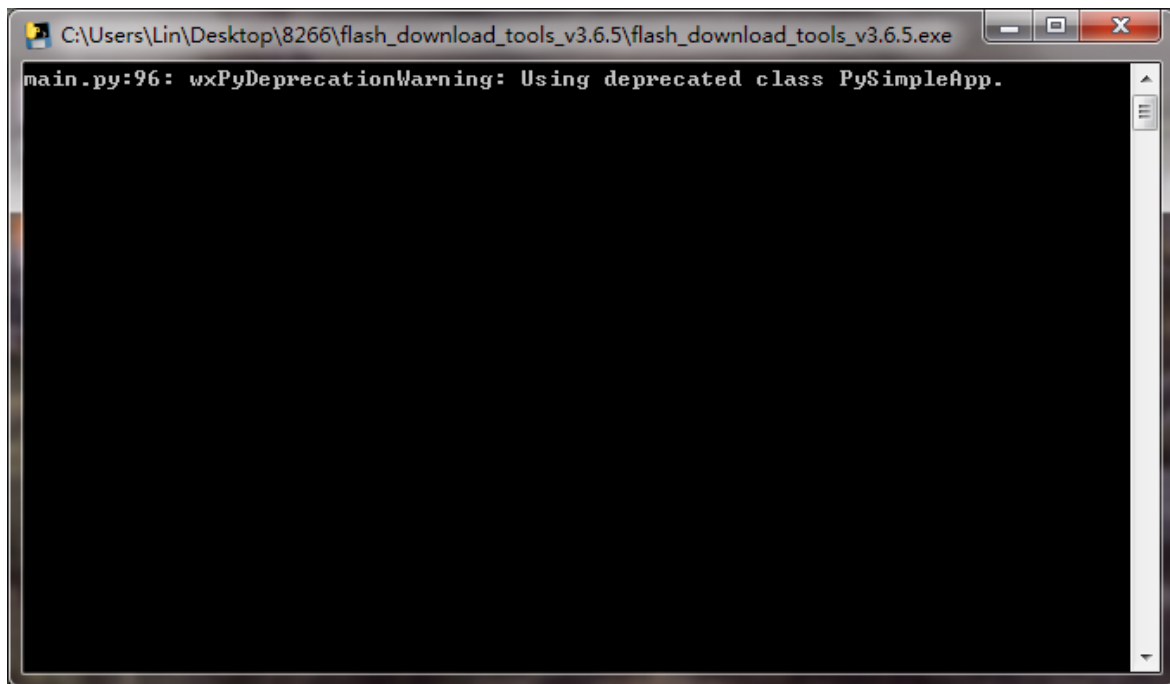


Then open [flash download tools v3.6.5 software](#), click to open.

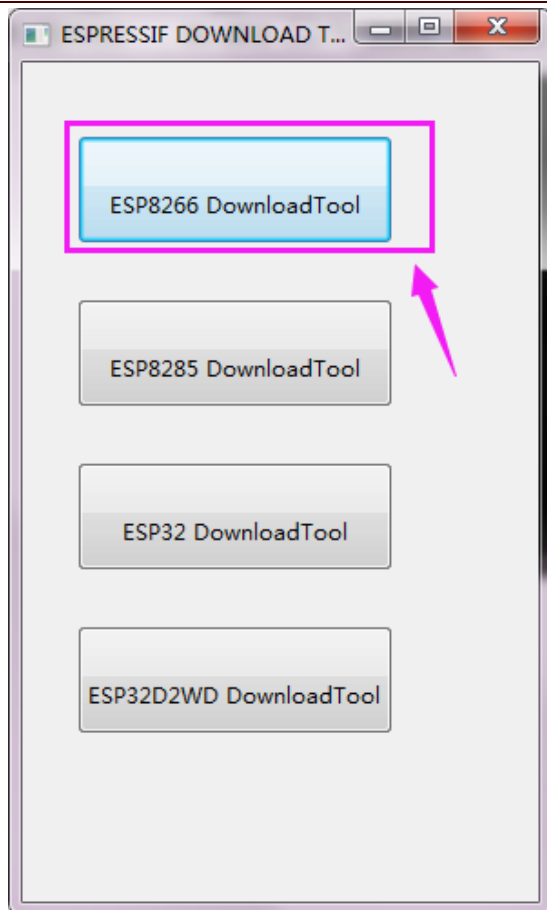


You can download the flash download tools v3.6.5 from the link:

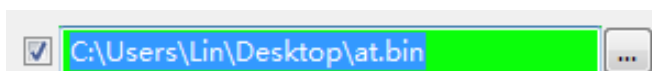
https://drive.google.com/open?id=1Zjg-lq7ySsmN4C3A0Oz9UJCdXqtkdf_R

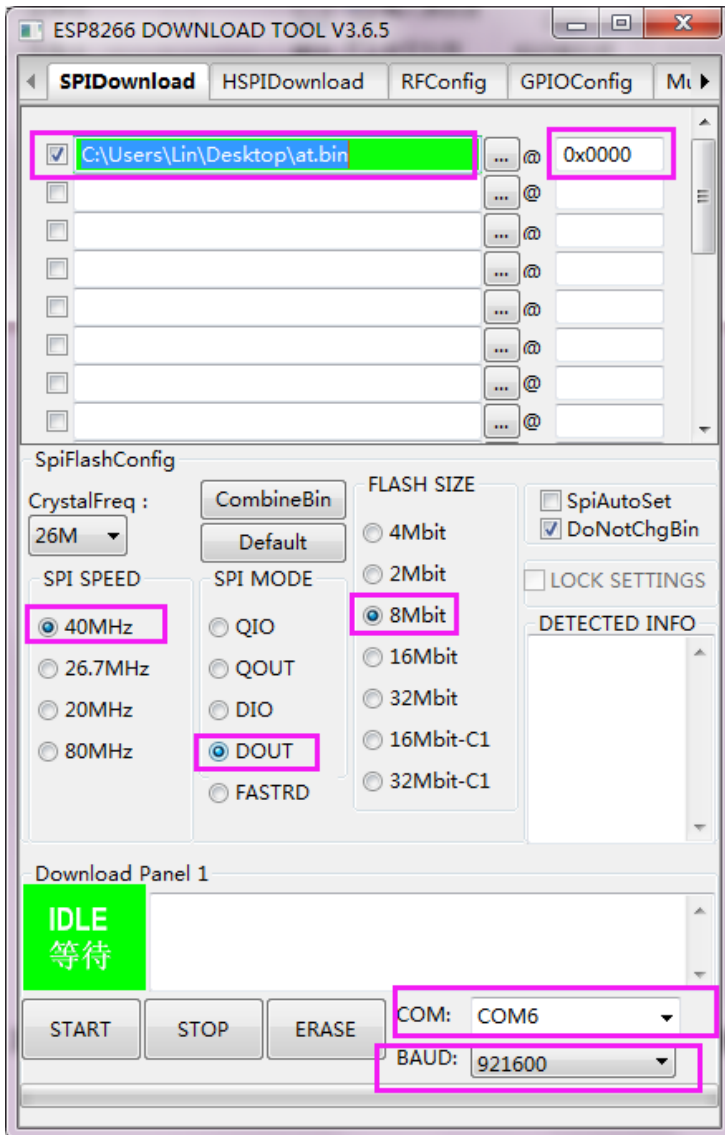


Wait for a minute, pop up the below interface, click the **ESP8266 Download Tool**.



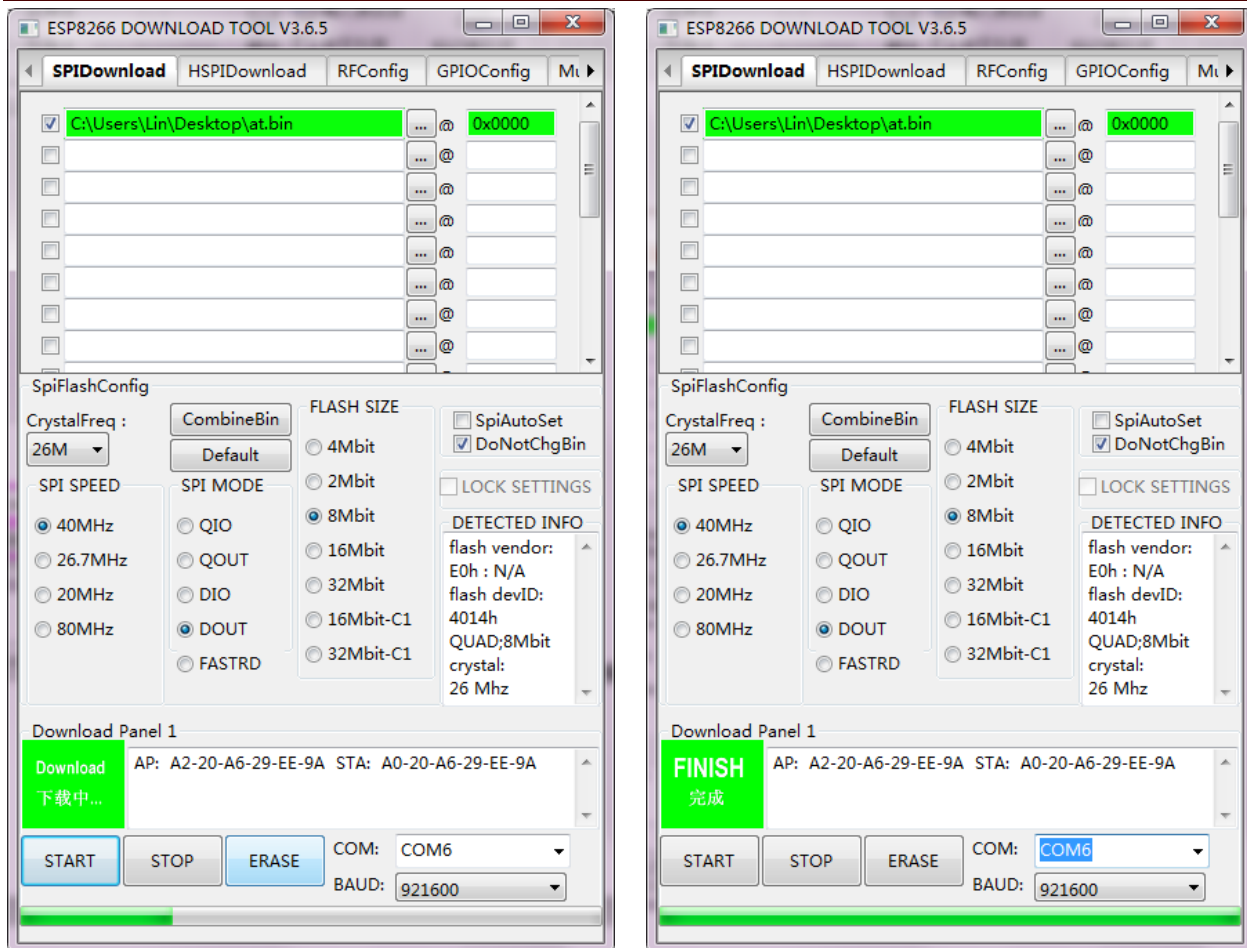
Enter the interface to set the firmware burning. This is the address of firmware burning.





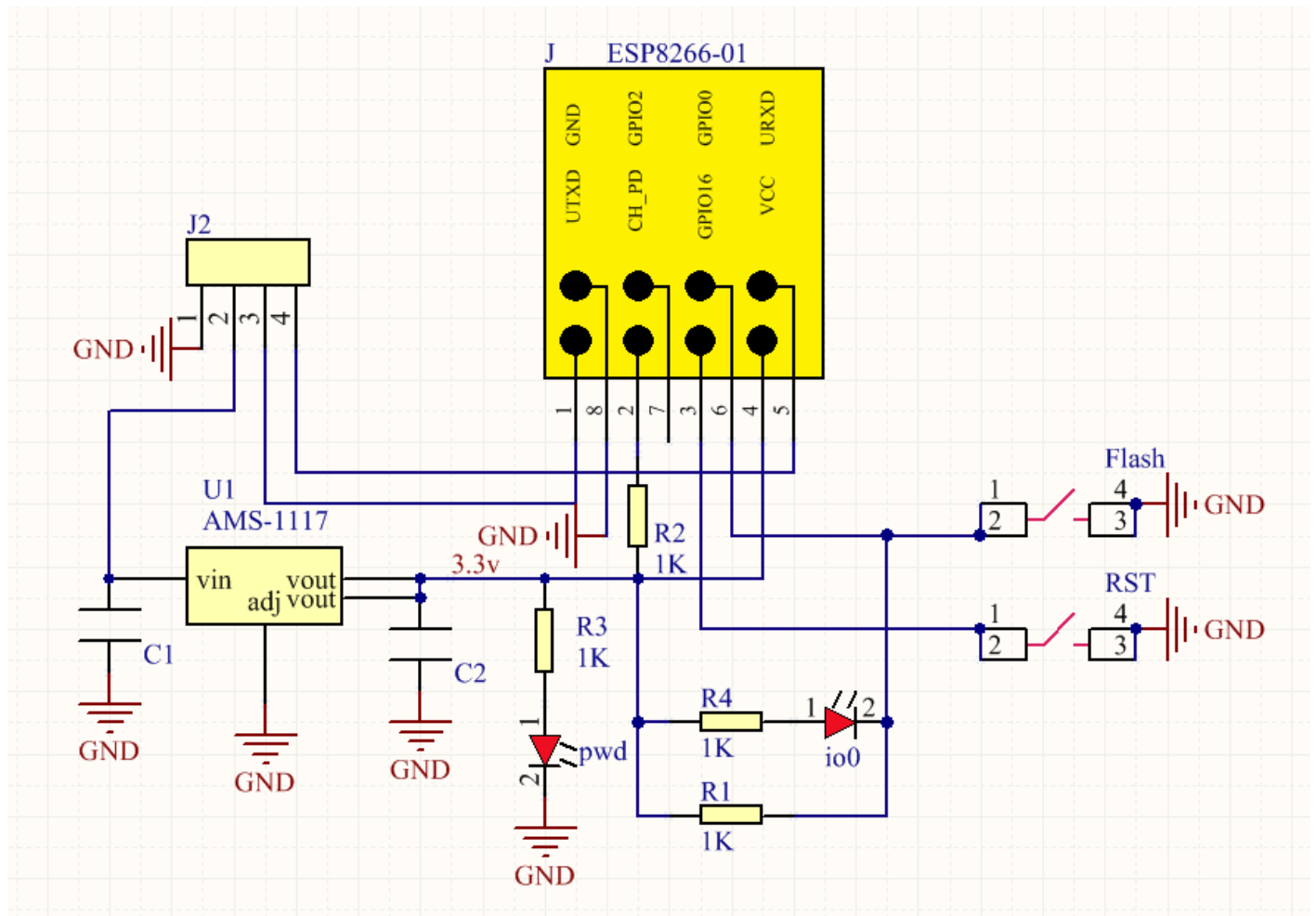
Hold the **FLASH** button on the shield, and Tap **START**  button, then press **RST** button on the shield, release the **FLASH** button.

The module will enter the download mode. Shown below.



Firmware download completed, can enter the corresponding software to set the AT command.

5. Schematic Diagram:



6. Resources Download:

<https://drive.google.com/open?id=1cOrE27cVk8ChNXTur8Gm4CGIRHdDuETL>