

# ESP-01S basic guide (With BTT TFT35)

Note: This guide is written for the ESP-01S WIFI module from Bigtreetech official stores, we cannot promise it can use for all WIFI modules.

The connection between BTT skr pro v1.1/ BTT skr v1.4 also can refer this guide.

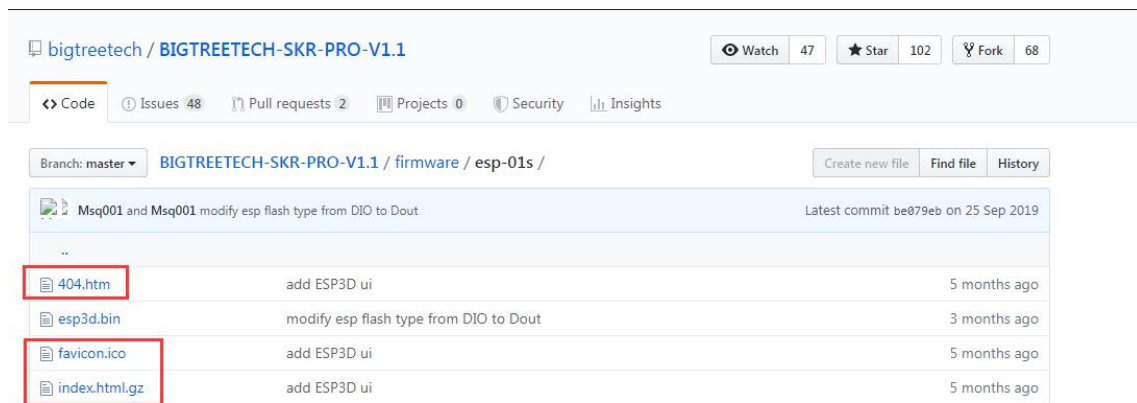
First, flash the ESP3D firmware for the WIFI module according to this manual:

<https://github.com/bigtreetech/BTT-WRITER-V1.0/blob/master/BTT%20Writer%20V1.0%20manual.pdf>

(The skr pro v1.1 can flash the WIFI module firmware with Marlin directly, needn't use the CH340 module)

And download the 3 files in this link:

<https://github.com/bigtreetech/BIGTREETECH-SKR-PRO-V1.1/tree/master/firmware/esp-01s>



bigtreetech / BIGTREETECH-SKR-PRO-V1.1

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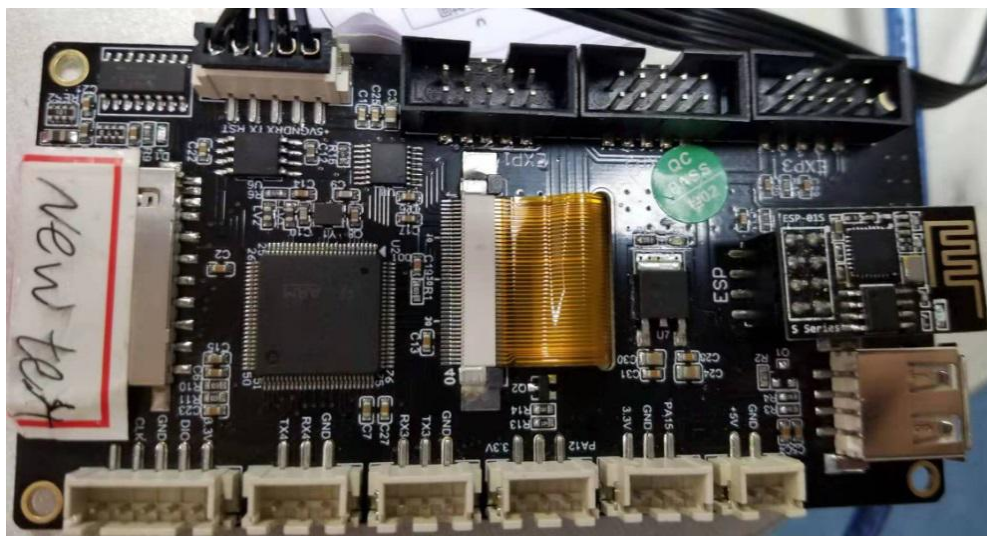
Branch: master BIGTREETECH-SKR-PRO-V1.1 / firmware / esp-01s /

Create new file Find file History

Msq001 and Msq001 modify esp flash type from DIO to Dout Latest commit be079eb on 25 Sep 2019

404.htm	add ESP3D ui	5 months ago
esp3d.bin	modify esp flash type from DIO to Dout	3 months ago
favicon.ico	add ESP3D ui	5 months ago
index.html.gz	add ESP3D ui	5 months ago

Then connect the wifi module to the TFT35(-E3) V3.0 / TFT35 V2.0 and connect the display to the motherboard.



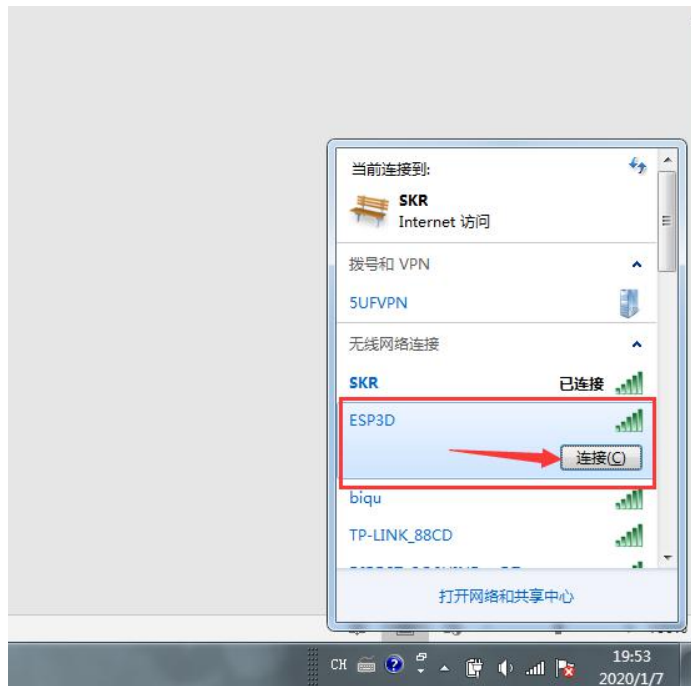
Power on the motherboard, the display will also light up and shows the M117 window ("Connecting...") automatically.



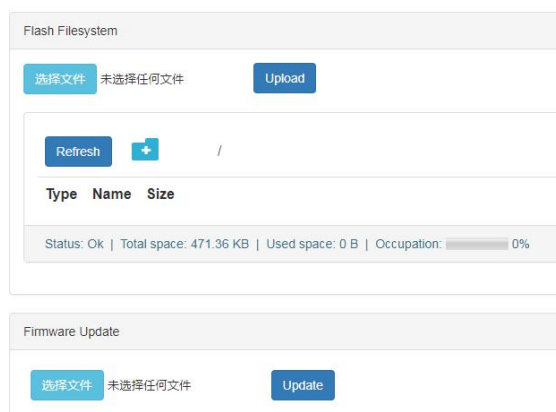
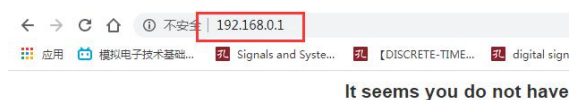
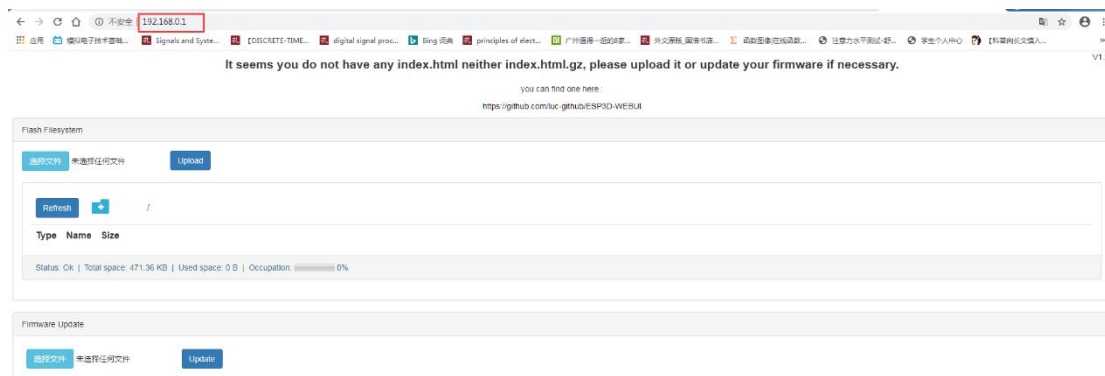
A few seconds later the display will show an IP address on the screen. (The default IP address is 192.168.0.1)



At that time a WIFI hotspot ESP3D will appear on the laptop (or any other device can receive the WIFI signal), connect it



Input the IP address 192.168.0.1 in explorer in laptop then enter this page.



Click this button then choose the 3 downloaded files

Flash Filesystem

选择文件

未选择任何文件

Upload

Refresh

+

/

Type

Name

Size

Status: Ok

|

Total space: 471.36 KB

|

Used space: 0 B

|

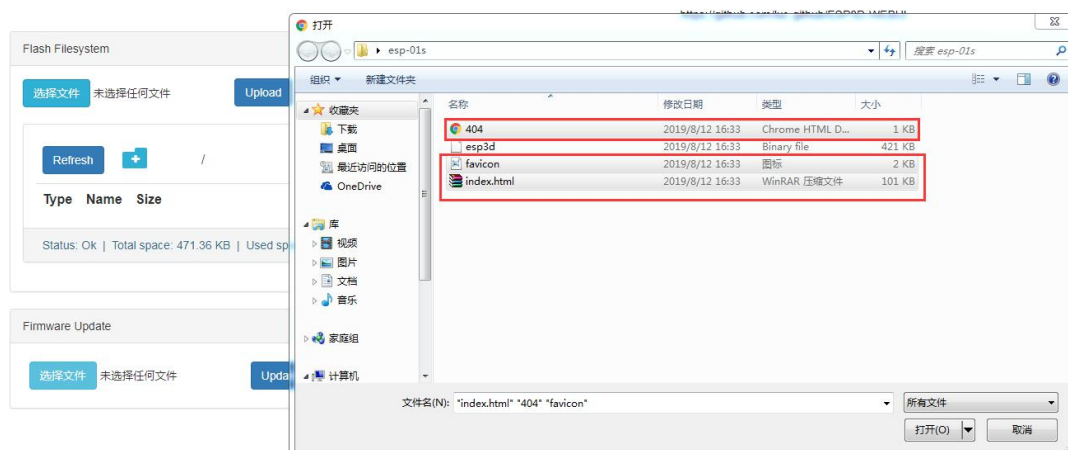
Occupation:  0%

Firmware Update

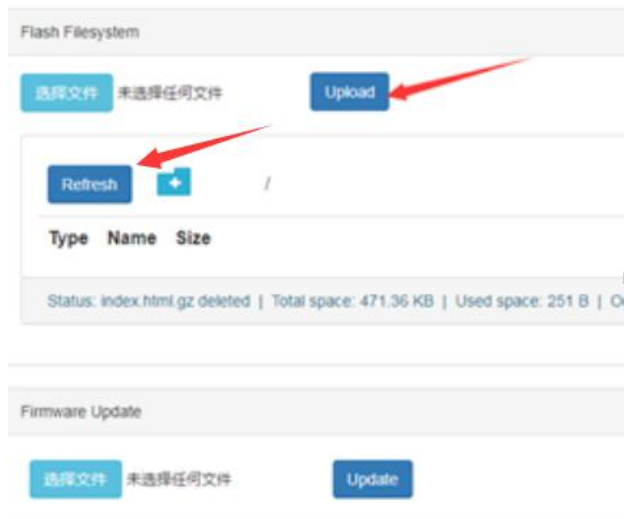
选择文件

未选择任何文件

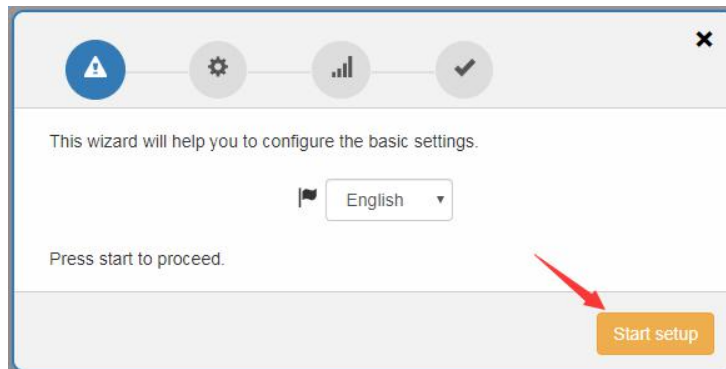
Update



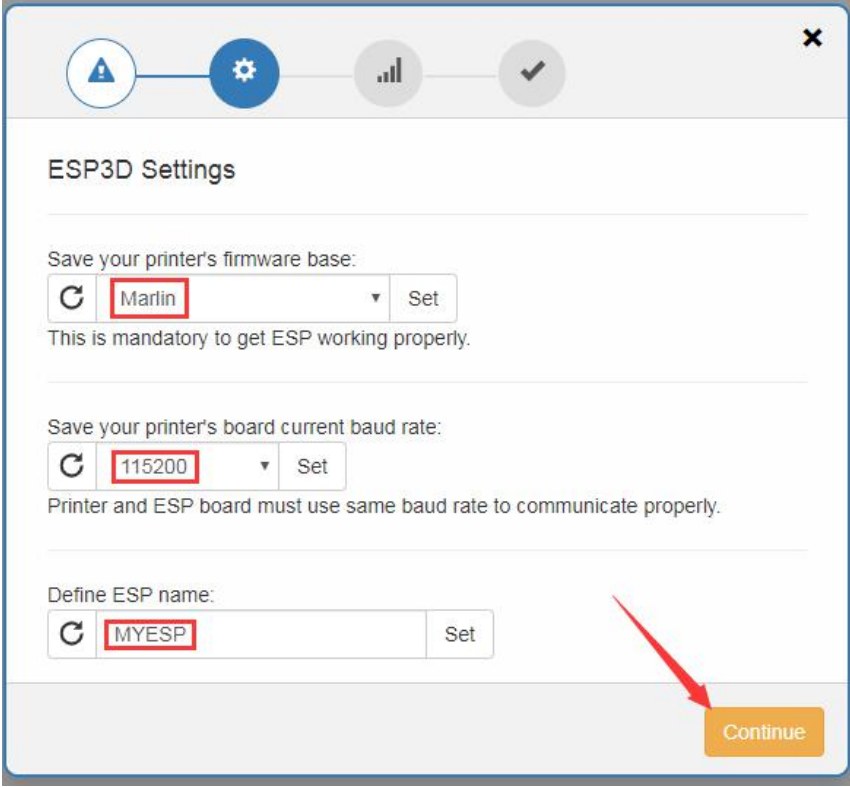
Click the “Upload” and “Refresh”



The page will turn into this wizard, set the language then click the “start setup”



ESP3D Settings: Make sure the firmware is Marlin and the baud rate is 115200, set the ESP name then click “continue”

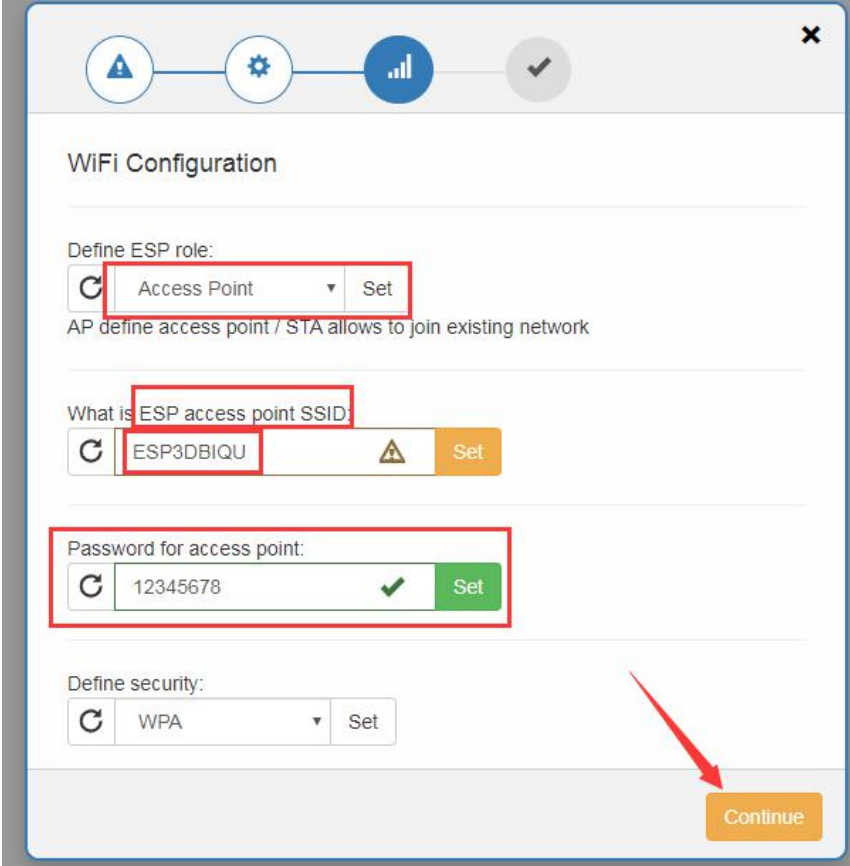


The image shows the 'ESP3D Settings' window. At the top, there is a progress bar with four icons: a warning triangle, a gear, a signal strength indicator, and a checkmark. The window title is 'ESP3D Settings'. Below the title, there are three sections for configuration:

- Save your printer's firmware base:** A dropdown menu is set to 'Marlin', with a 'Set' button next to it. Below this, a note states: 'This is mandatory to get ESP working properly.'
- Save your printer's board current baud rate:** A dropdown menu is set to '115200', with a 'Set' button next to it. Below this, a note states: 'Printer and ESP board must use same baud rate to communicate properly.'
- Define ESP name:** A text input field contains 'MYESP', with a 'Set' button next to it.

At the bottom right, there is an orange 'Continue' button, which is highlighted by a red arrow.

WiFi Configuration: Define ESP role (Access Point or Client Station), set the access point SSID and password, then click “continue”



The image shows the 'WiFi Configuration' window. At the top, there is a progress bar with four icons: a warning triangle, a gear, a signal strength indicator, and a checkmark. The window title is 'WiFi Configuration'. Below the title, there are four sections for configuration:

- Define ESP role:** A dropdown menu is set to 'Access Point', with a 'Set' button next to it. Below this, a note states: 'AP define access point / STA allows to join existing network'.
- What is ESP access point SSID:** A text input field contains 'ESP3DBIQU', with a 'Set' button next to it.
- Password for access point:** A text input field contains '12345678', with a green checkmark and a 'Set' button next to it.
- Define security:** A dropdown menu is set to 'WPA', with a 'Set' button next to it.

At the bottom right, there is an orange 'Continue' button, which is highlighted by a red arrow.

\*\*\*: Define the Client Station as the ESP role:  
Set the lower 2 options then click “Continue”

### WiFi Configuration

Define ESP role:

Client Station

Set

AP define access point / STA allows to join existing network

What access point ESP need to be connected to:

SKR

Set

You can use scan button, to list available access points.

Password to join access point:

\*\*\*\*\*

Set

Continue

Finally the explorer enter the ESP3D console page

ESP3D for Marlin

Dashboard

Printer

ESP3D

Controls

auto-check position every: 3 sec

XY: 1000 mm/min Z: 100 mm/min Motors off

Temperatures

auto-check every: 3 sec

Name	Options	Value	Target
Heater T0		0 °C	

Extruders

Name	Options
Extruder T0	
Flow (50-300%)	100 %
Feed (25-150%)	100 %

Extrude 5 mm @ 400 mm/min

SD Files

Commands