

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.

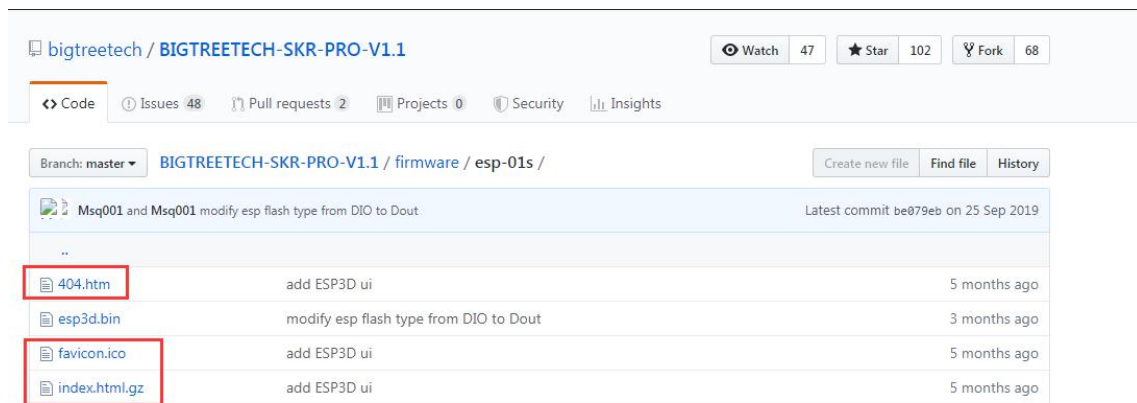
First, flash the ESP3D firmware for the WIFI module according to this manual:

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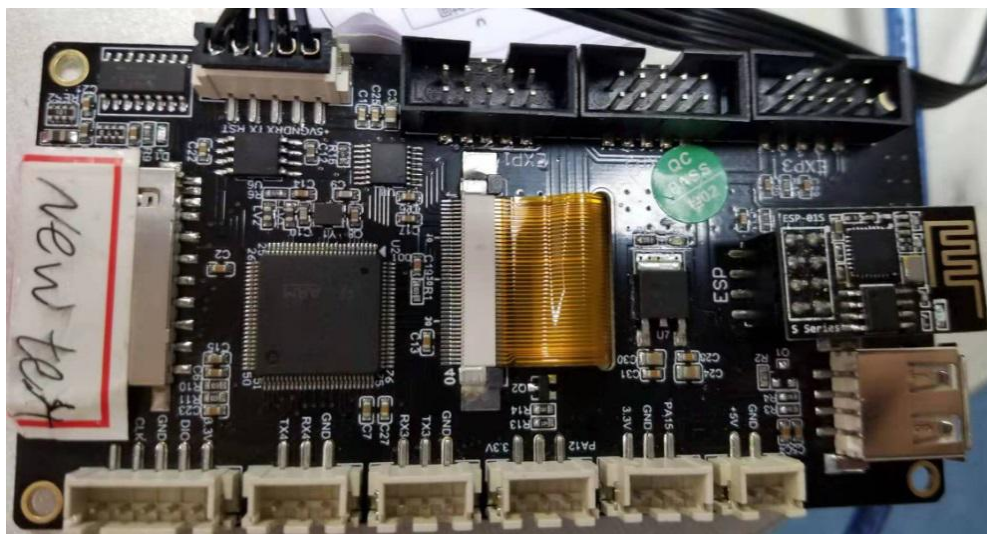
Branch: master BIGTREETECH-SKR-PRO-V1.1 / firmware / esp-01s /

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.



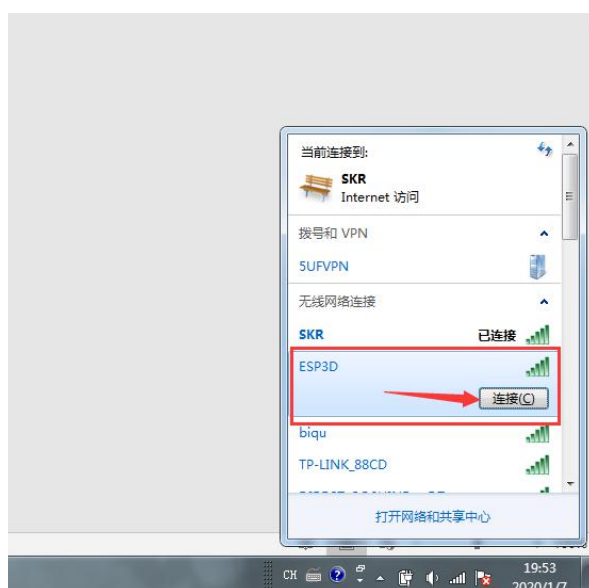
Power on the motherboard, the display will also light up and shows the M117 window ("Connecting...") automatically.



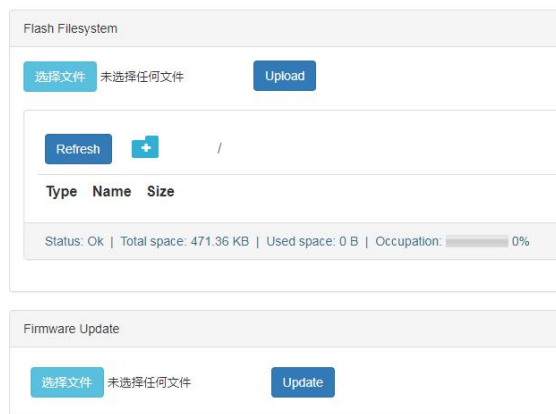
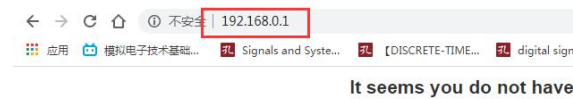
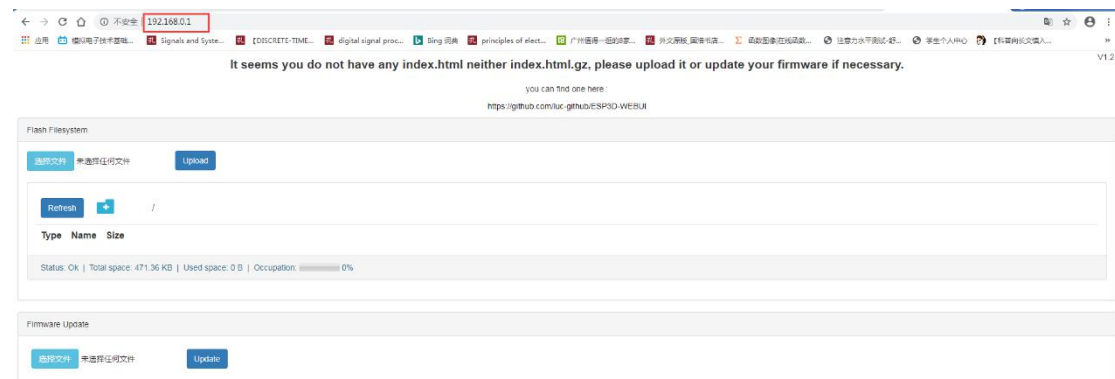
A few seconds later the display will show an IP address on the screen. (The default IP address is 192.168.0.1)



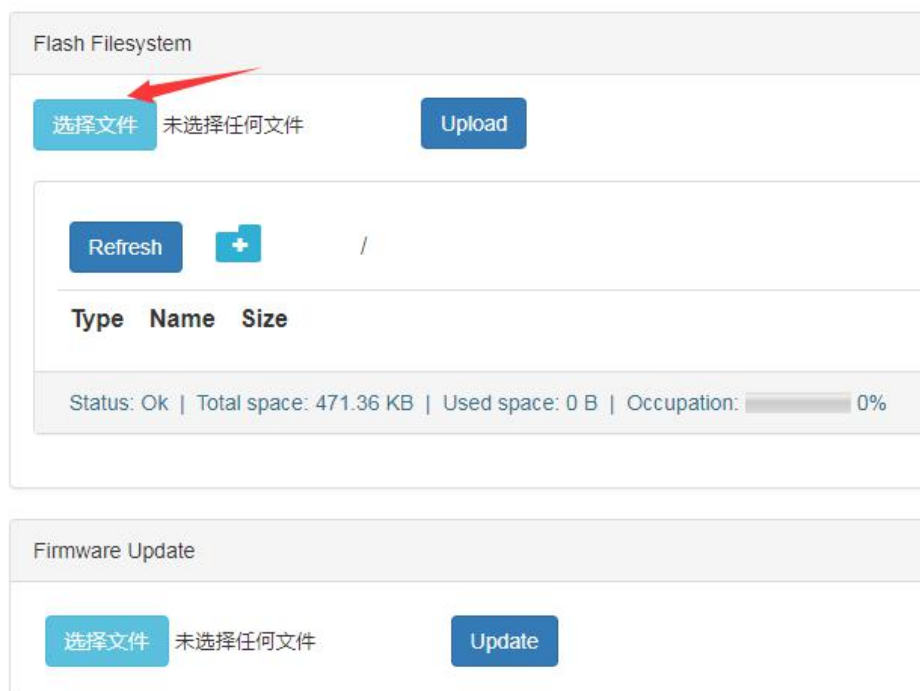
At that time a WIFI hotpot ESP3D will appear on the laptop (or any other device can receive the WIFI signal), connect it (If it need the password, the default password is 12345678)

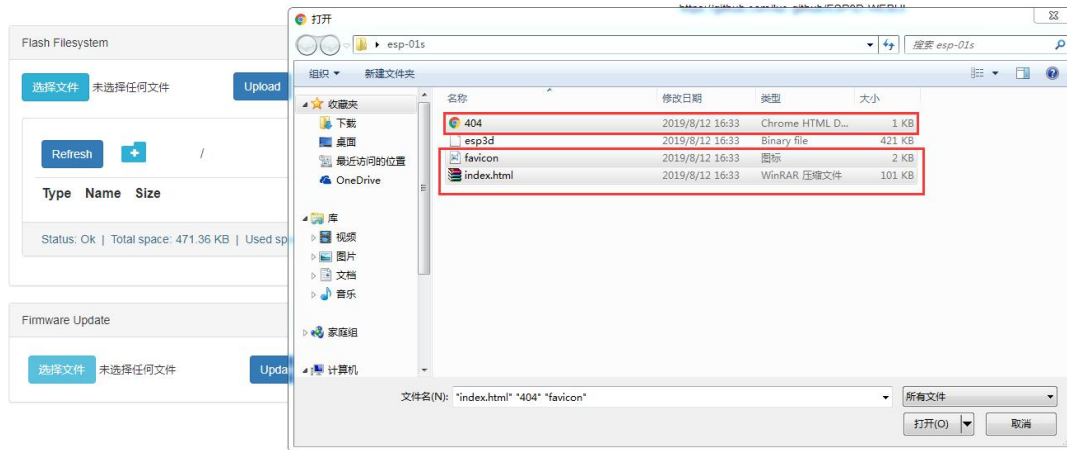


Input the IP address 192.168.0.1 in explorer in laptop then enter this page.

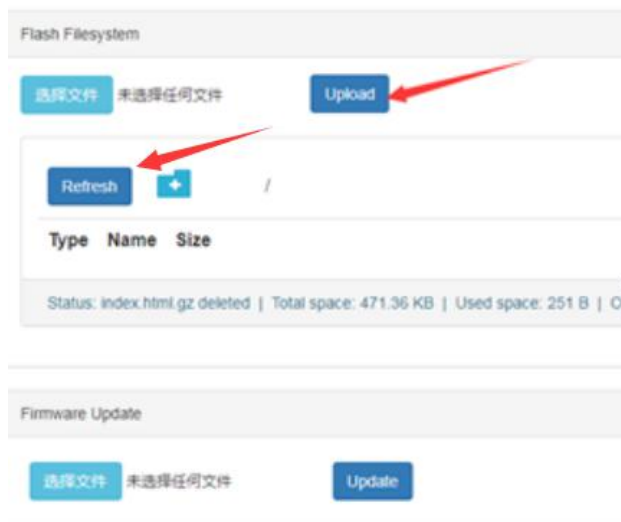


Click this button then choose the 3 downloaded files

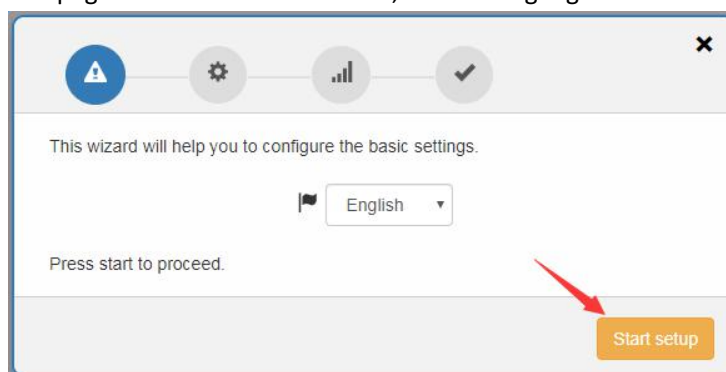




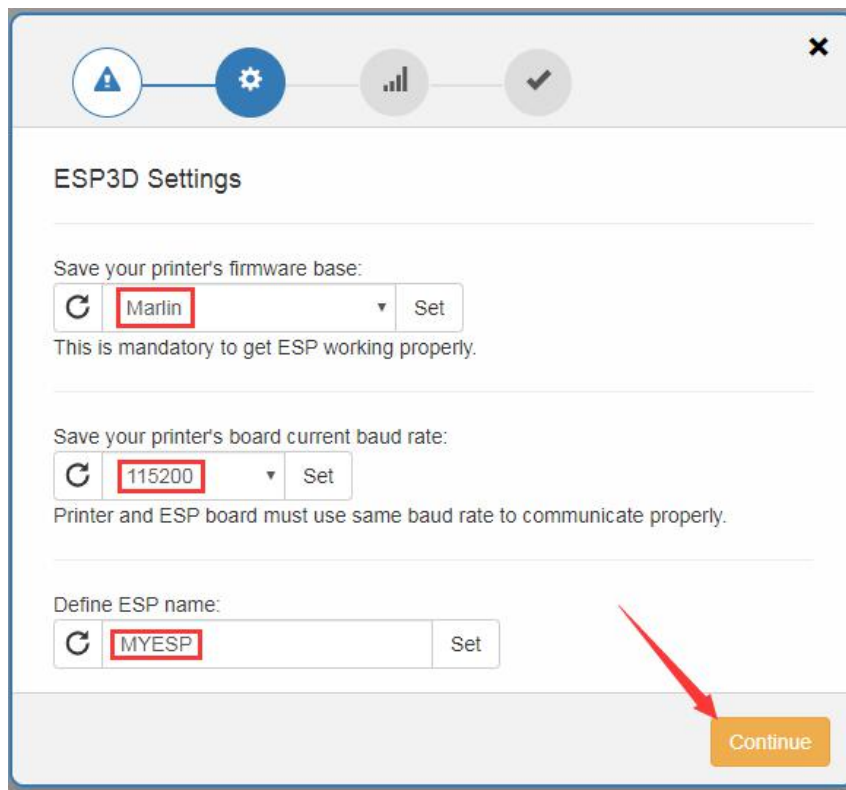
Click the “Upload” and “Refresh”



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”

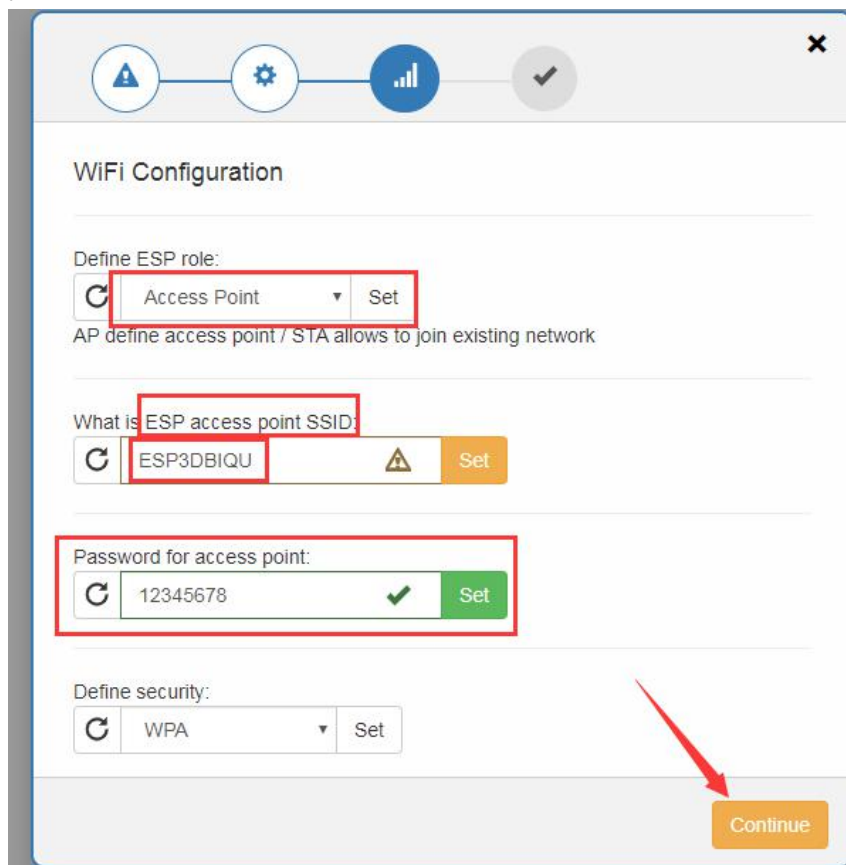


The image shows a configuration window titled "ESP3D Settings". At the top, there is a progress bar with four icons: a warning triangle, a gear, a signal strength indicator, and a checkmark. The first icon is active. Below the title, there are three sections:

- Save your printer's firmware base:** A dropdown menu is set to "Marlin", with a "Set" button to its right. 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 to its right. 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 to its right.

A red arrow points from the bottom right towards an orange "Continue" button.

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

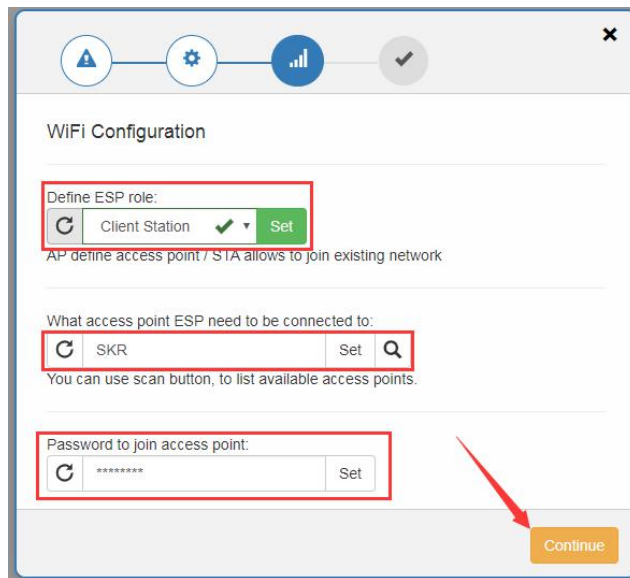


The image shows a configuration window titled "WiFi Configuration". At the top, there is a progress bar with four icons: a warning triangle, a gear, a signal strength indicator, and a checkmark. The third icon is active. Below the title, there are four sections:

- Define ESP role:** A dropdown menu is set to "Access Point", with a "Set" button to its right. 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 warning icon and a "Set" button to its right.
- Password for access point:** A text input field contains "12345678", with a green checkmark and a "Set" button to its right.
- Define security:** A dropdown menu is set to "WPA", with a "Set" button to its right.

A red arrow points from the bottom right towards an orange "Continue" button.

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



The image shows a 'WiFi Configuration' dialog box with a progress bar at the top. It contains three sections, each with a red rectangular highlight. The first section, 'Define ESP role:', has a dropdown menu set to 'Client Station' and a green 'Set' button. The second section, 'What access point ESP need to be connected to:', has a dropdown menu set to 'SKR' and a 'Set' button. The third section, 'Password to join access point:', has a text field with asterisks and a 'Set' button. A red arrow points from the 'Continue' button at the bottom right to the 'Set' button in the password section.

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

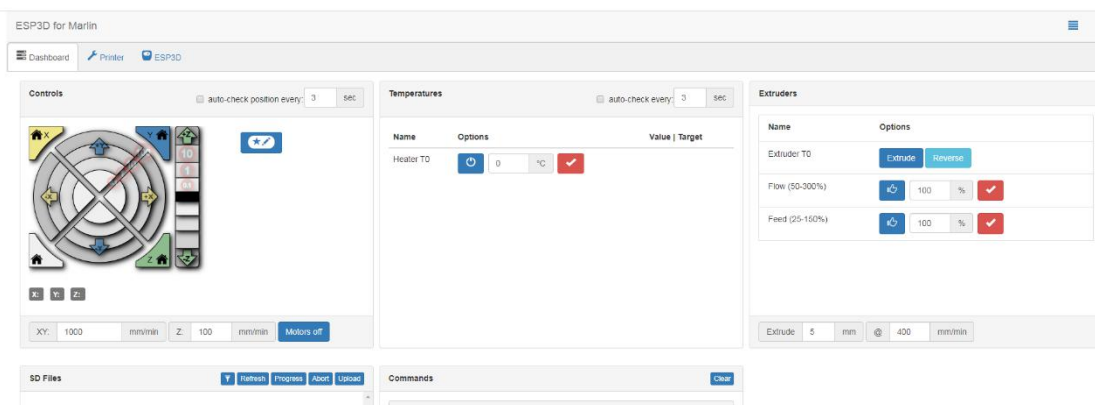
You can use scan button, to list available access points.

Password to join access point:

Set

Continue

Finally the explorer enter the ESP3D console page



The image shows the 'ESP3D for Marlin' console page. It has a top navigation bar with 'Dashboard', 'Printer', and 'ESP3D'. The main area is divided into four panels: 'Controls' with a joystick and buttons, 'Temperatures' with a table of heater temperatures, 'Extruders' with a table of extruder settings, and 'SD Files' with buttons for file management. The 'Temperatures' and 'Extruders' panels have 'auto-check every' dropdowns set to '3 sec'.

ESP3D for Marlin

Dashboard Printer ESP3D

Controls auto-check position every: 3 sec

Temperatures auto-check every: 3 sec

Extruders

SD Files Refresh Progress Abort Upload

Commands Clear