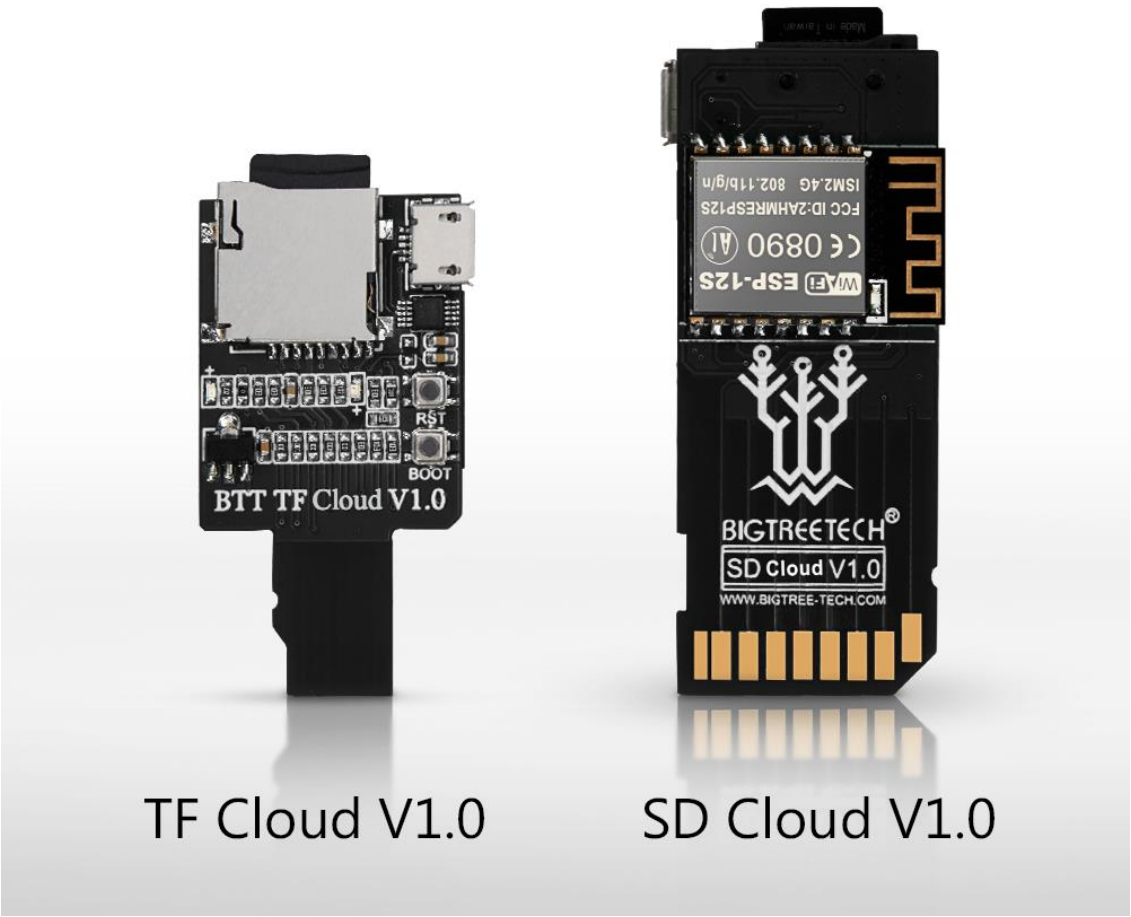
BIGTREETECH
SD/TF Cloud V1.0
Motherboard Operating Instruction



Ⅰ.Introduction of the module

BTT SD/TF Cloud V1.0 is launched by the 3D printing team of ShenZhen BigTree Technology CO.,LTD ., which is a module for wireless file transmission between the master computer and the 3D printer, so that you can get rid of the constraint of plugging SD card.

1. Module parameters：

1) The module adopts ESP-12S, which is based on ESP8266's low-power UART-WIFI chip module;

2) The main frequency supports 80MHz and 160MHz;

3) Spectrum range: 2412-2484MHZ;

4) Logic voltage: DC 3.3v;

5) USB input voltage: DC 5V;

6) Size: SD-24mm *58.3mm; TF - 24 mm * 45.5 mm;

7) Transmission file name format requirements: only support the file name consisting of ASCII code;

2. Scope of application:

Any SD card interface that communicates via SPI can be plugged in and used directly. Such as:
BIGTREETECH SKR series motherboard、GTR motherboard、BIGTREETECH TFT24 V1.1、BIGTREETECH TFT35 V3.0、BIGTREETECH TFT35-E3 V3.0 and so on;

Note: all SD card interfaces that communicate via SDIO mode cannot be used; For example: BIGTREETECH TFT35 V2.0!!!

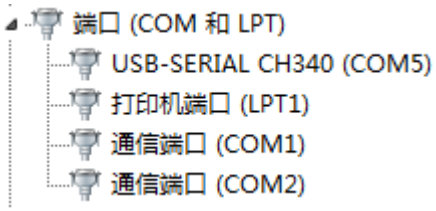
Ⅱ.Module indicator light description

After the module is powered on:
D2 red light is the power indicator: the red light is on, indicating that the power supply is normal;

The green light of D1 is the SD card detection light: it lights up when a card is inserted, and turns off when no card is inserted.

Ⅲ. Module communicates with PC

The motherboard communicates with the PC (Windows system) through the [USB] interface. Before communication, the driver needs to be installed to be used normally; if the computer has installed the CH340 series driver, it can be recognized by plugging it in.



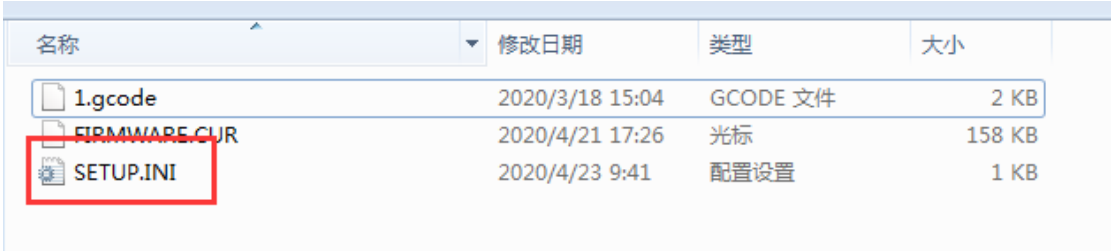
Driver acquisition method:

https://github.com/bigtreetech

Download the file named: CH341SER.ZIP to install it.

Ⅳ. Module operating instructions

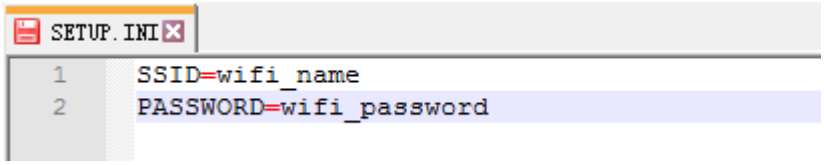
1. Create a new file named "SETUP.INI" in the SD card



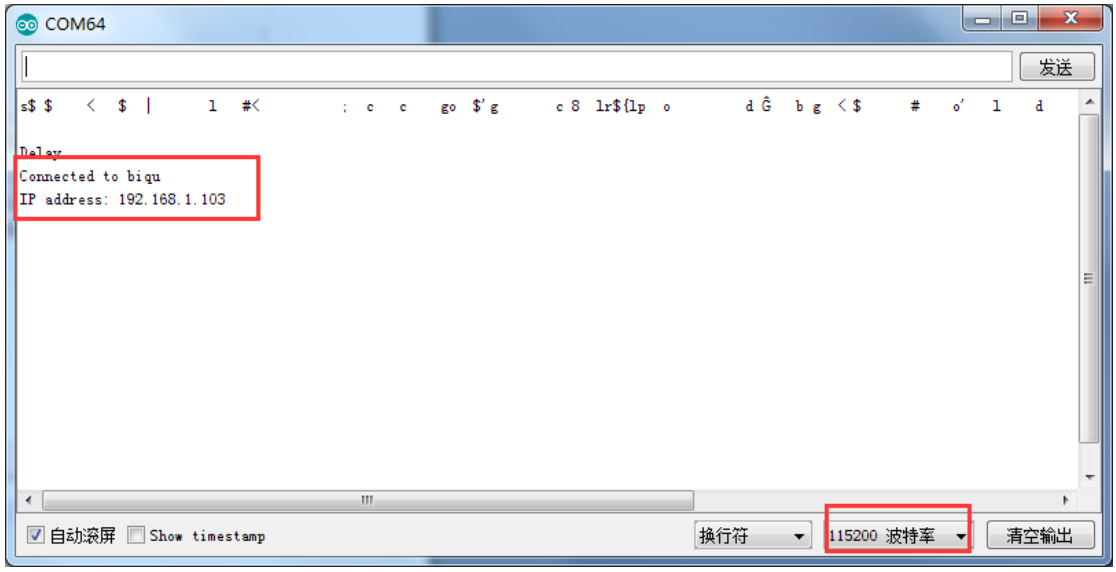
2. Set the actual wifi name and password in the "SETUP.INI" file.

SSID=your_wifi_name

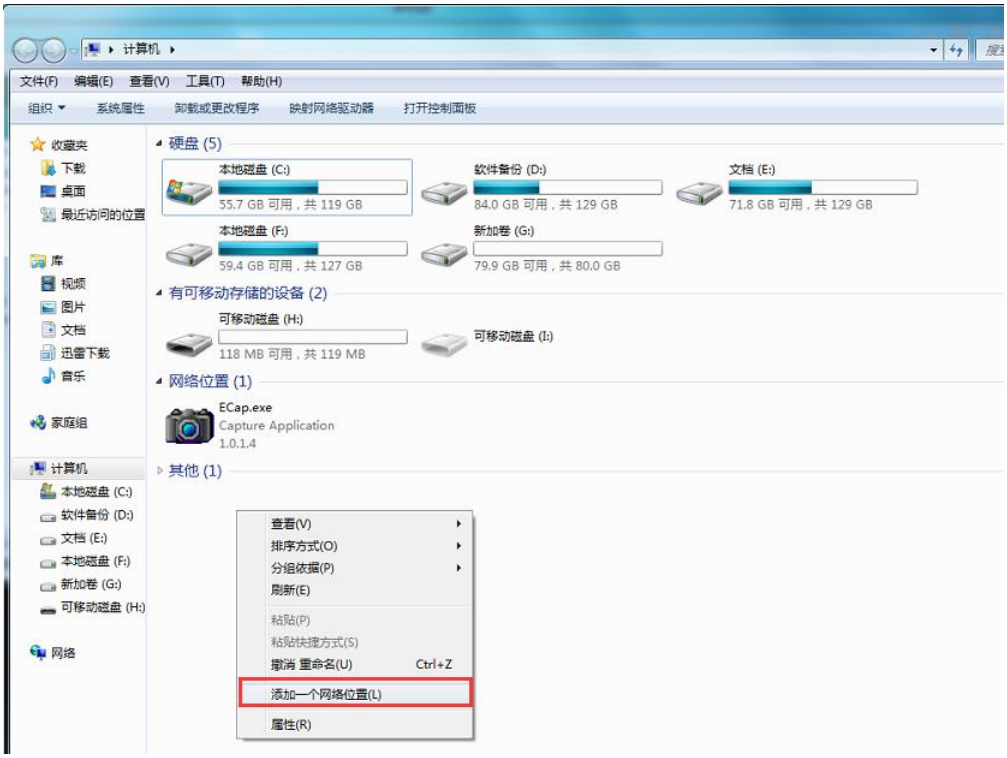
PASSWORD=your_wifi_password



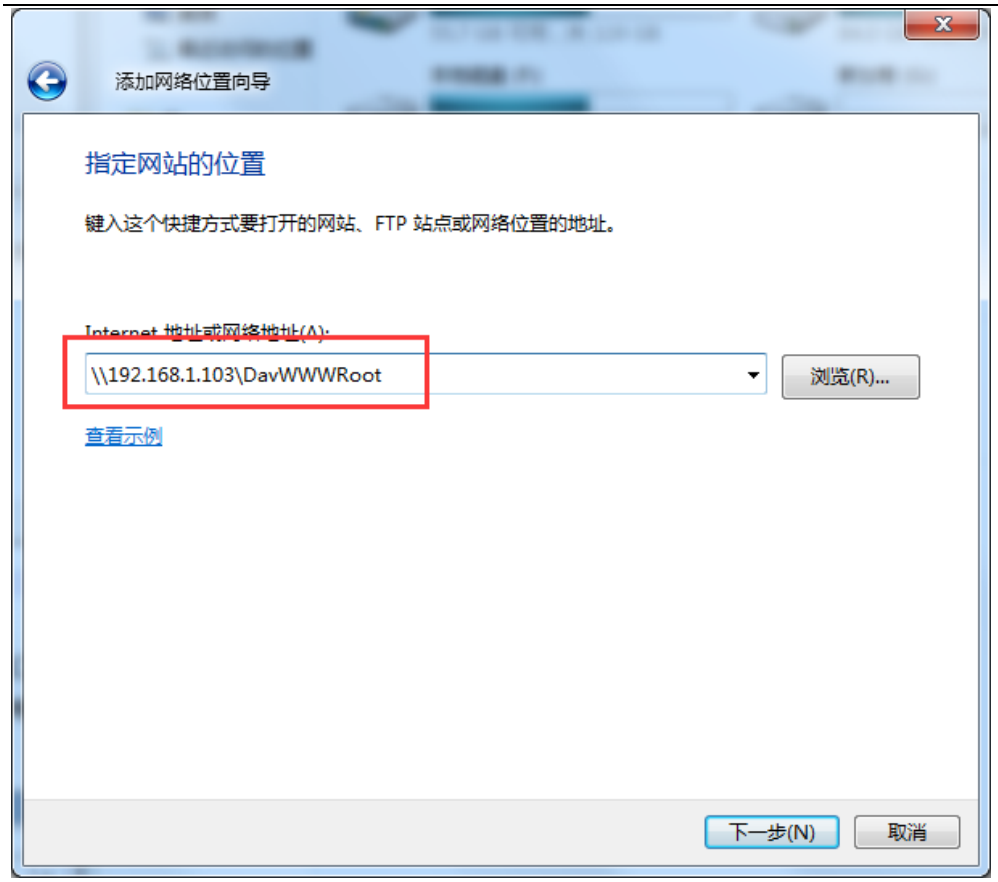
3. Plug the module into the computer with a USB cable (if you have not installed the ch340 driver, please Baidu / google about the ch340 driver installation method). Use the Arduino's own serial monitor (or any software that can receive serial data) Set the baud rate to 115200, then press the RST button on the module to restart the module, and wait for the module to connect to wifi. As shown in the figure below, record the IP address of the module.



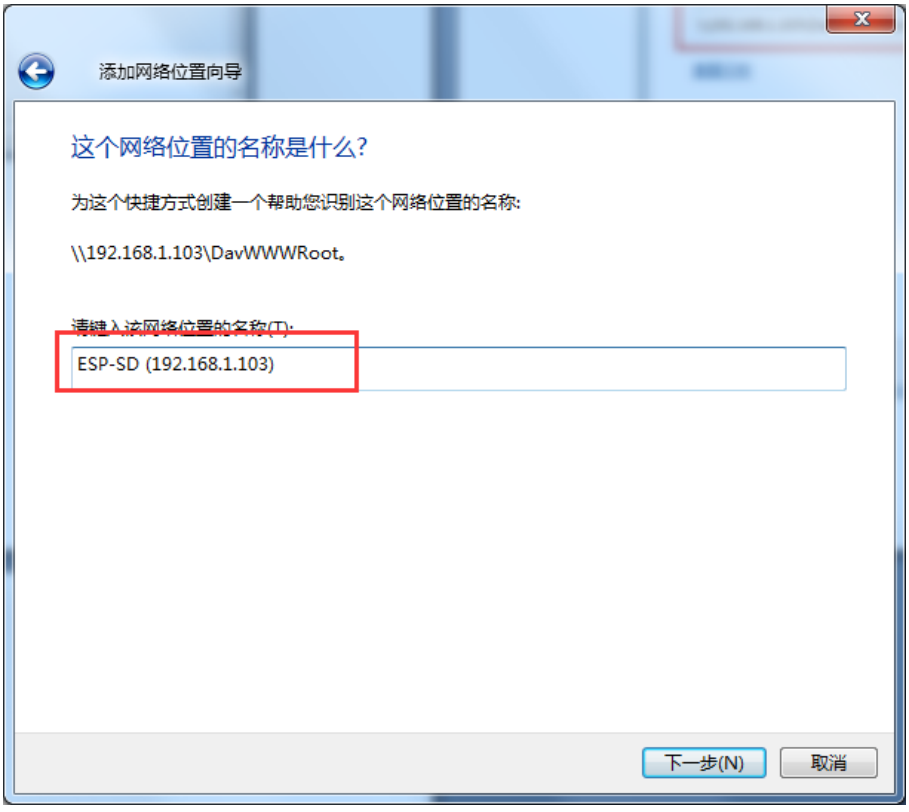
4. Add a network location in the computer (need to be in the same LAN as the wifi connected to the module)



5.Keep clicking Next until you enter the address interface, enter "\\ actual IP address \ DavWWWRoot", the format is as shown in the figure below, and then click Next.

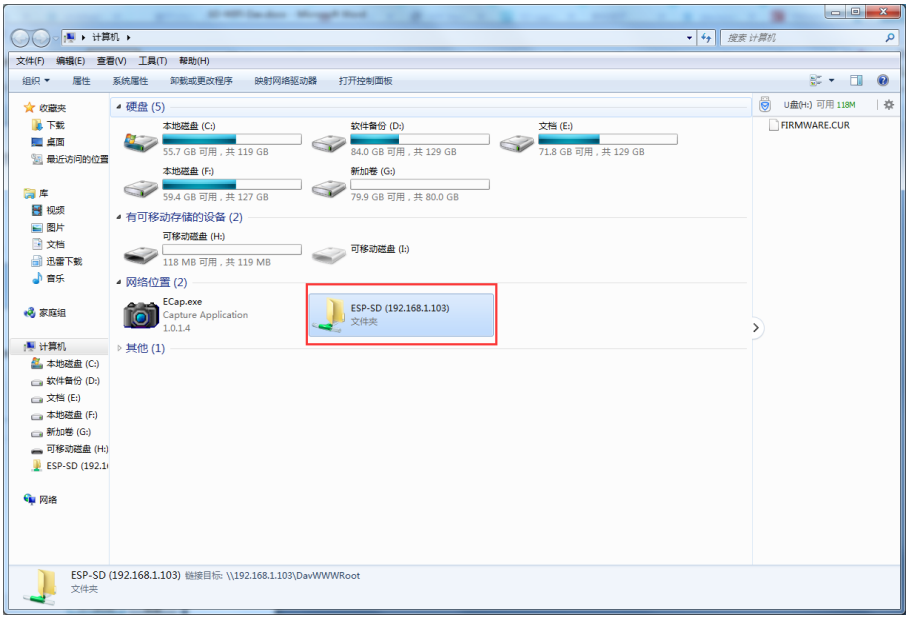


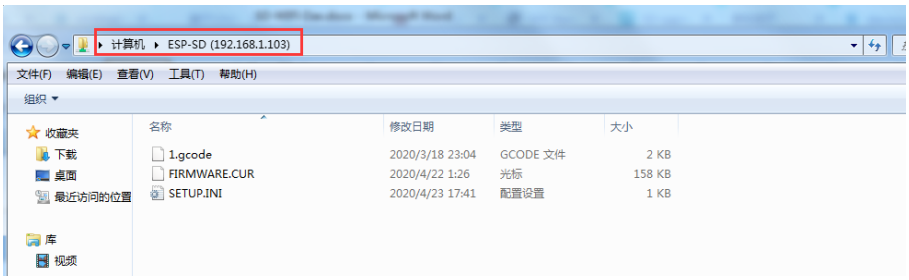
6. Enter a custom name and click Next until the setting is completed.



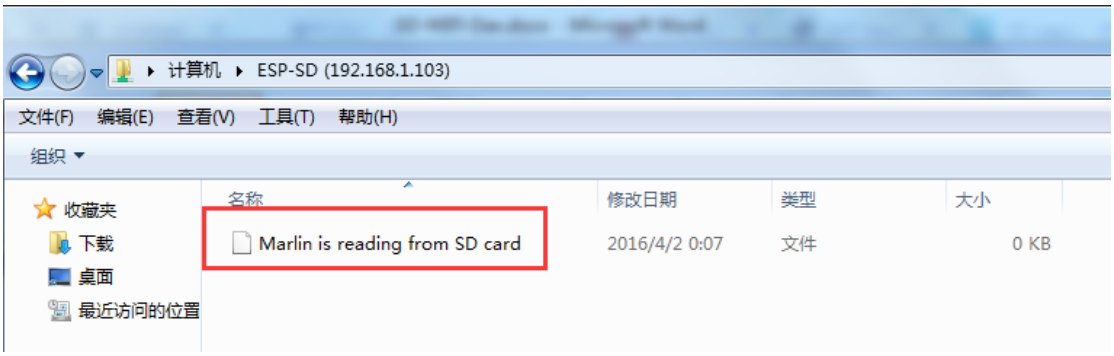
7. At this time, you can see the added network path in the computer. Double-click to access the

sd card on the module.





8. When the host accesses the sd card, the module will prohibit access to the sd card through the local area network, as shown in the figure below. When the host stops accessing and the sd card is idle, it can access the sd card again through the LAN.



Note：The file names written to the sd card in this way currently only support names composed of ASCII! ! !

V. Module firmware description

The factory motherboard has been burned the firmware, users can be directly used after receiving, without repeated burning process.

If users want DIY, they can get the required documents by the following ways:

Ask customer service or technical staff to get it;

Log on our open source website to download: https://github.com/bigtreetech

VI. Notes

1. When using a USB cable, the USB cable needs to be gently plugged in and out, not to be violently plugged in, to prevent damage to the USB interface;

2. The TF card memory shipped from the factory is 128M, you can replace the TF card with large memory according to your needs;

3. The thickness of the BTT TF Cloud V1.0 board is 0.8mm. When inserting and removing the board, please pay attention to it. Do not violently pull and insert to prevent the board body from breaking and causing unnecessary losses;

4. The file name of wireless transmission can only be ASCII code, otherwise it cannot be transmitted;

5. It can only be used on the SD card slot of the SPI communication method, but not on the SDIO card slot (BIGTREETECH TFT35 V2.0)

If you still encounter other problems during use, please contact us. We will answer your questions in detail; if you have any good suggestions on our products, please give us your feedback. We will carefully consider your suggestions.

Thanks for choosing BIGTREETECH products!