

How to set up the Wi-Fi module and related services

Hardware preparation

Power off the mobile logger and then open its top plate using a screw driver. Take out the Bluetooth module and then insert a Wi-Fi module of compatible configuration (i.e. VCC, GND, TXD, RXD as the inner 4 pins for the DOIT's DT-06 ESP-M2 TTL-WiFi module) into the corresponding pins originally set for the Bluetooth module. You may leave the outermost two pins (EN and STATE) unused.

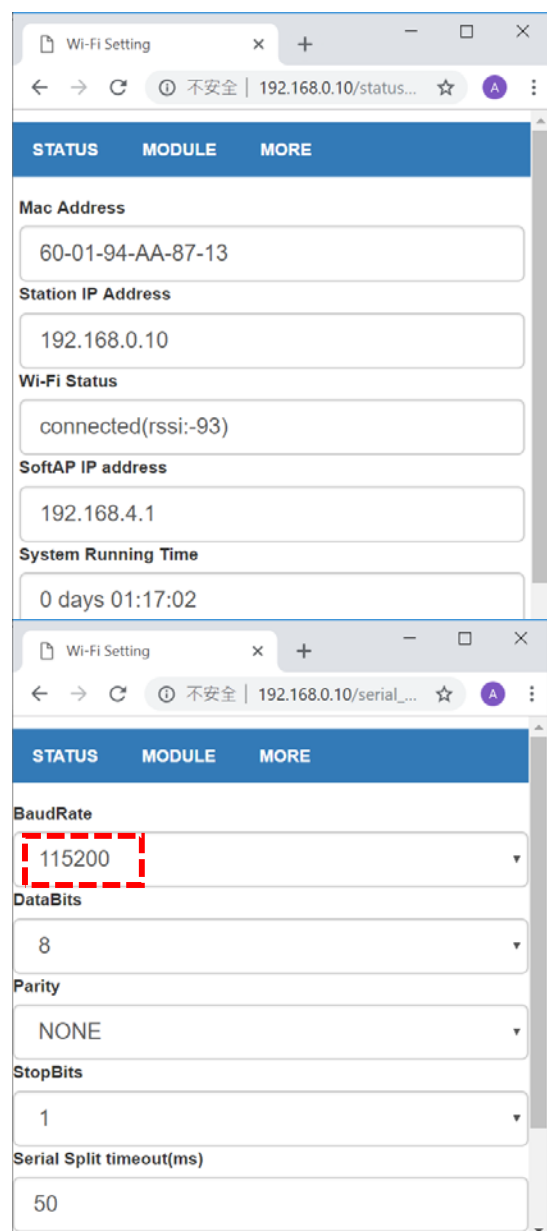


STATUS

Note the IP addresses of the Station and SoftAP. If the Wi-Fi Status is not connected, the Station IP will look like 0.0.0.0. You should/may not change any values shown. The default Wi-Fi AP name will be Doit-WiFi- plus the last six digits of the MAC address.

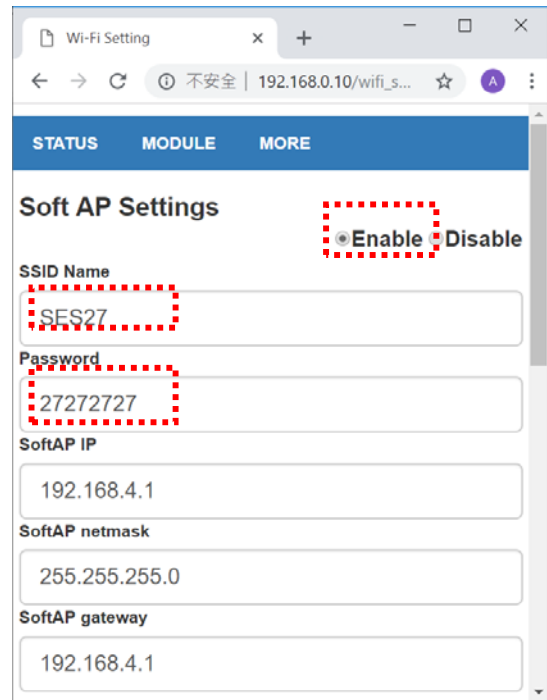
MODULE→Serial

Use the default settings but the BaudRate must be set to 115200. Click the Save button.

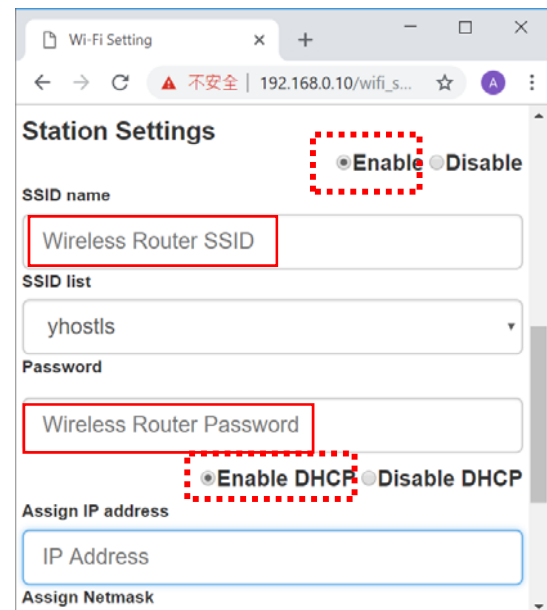


MODULE→WiFi

1. Select Enable in the Soft AP Settings. Use your mobile logger's name as the SSID Name and set the Password to the last two digital of the Name (repeated 4 times). Use the default values of the IP and gateway unless they are in conflict with other local Wi-Fi services.

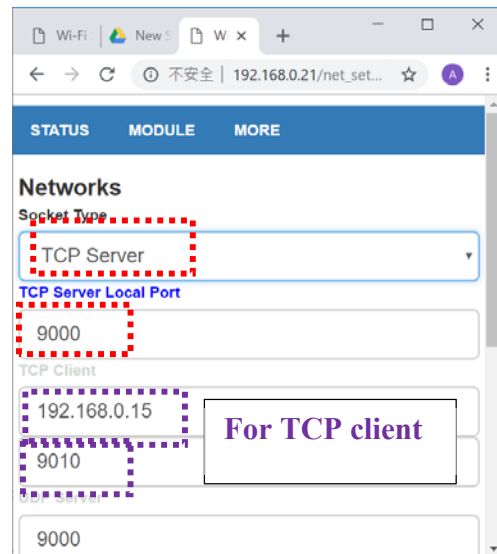


2. Scroll to the lower portion of the webpage to select Enable in the Station Settings. Enter the SSID name (e.g. IoT) and password for your local Wi-Fi service. Check Enable DHCP.
3. Remember to click the [Save](#) button at the bottom before you leave this webpage.



MODULE→Networks

1. Select TCP Server as the Socket Type and set 9000 (or other value) for its port. If you have another machine to serve as a TCP server to receive data from this mobile logger, you should select TCP Client and provide the IP address and port (for IoT connection) of the machine in the **TCP client** box below.



2. Remember to click the **Save** button at the bottom before you do anything else. Then, you must select MORE→Restart.
3. After 10-20 seconds, you also need to reboot your mobile logger by pressing D and then B in the keypad (or power off and on).
4. When the logger starts, it should show WiFi and its IP address. If not (e.g. BT: or BLE: shown), you need to set the logger to the Wi-Fi mode by pressing D and then * in the keypad. If it is still BT: or BLE:, you need to repeat the last step once or twice.
5. If the IP shown is 192.168.4.1, it means the logger cannot get connected with your local Wi-Fi service. You need to use its AP Wi-Fi service.