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

Hardware preparation

Power off the mobile logger and the 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.

ESP-M2 TTL-WiFi



пх

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.

ß	Wi-F	i Settin	g		×	+			_		
\leftarrow	\rightarrow	G	()	不安全	19	2.168.0	. 10 /statu	IS	☆	A	÷
ST/	ATUS		MOD	ULE	м	DRE					Î
Мас	∆ddr	224									1
60	0_01	-94-4	۸۵-8	7-13							
Stati	on IP	Addr	ess	1-10							J
10	2 1	38.0	10								
Wi-Fi	i Stat	us	10								J
CC	onne	cted	(rssi	-93)							
Soft/	AP IP	addre	ess	,							1
19	92.10	68.4.	1								
Syste	em R	unnin	g Tin	ıe							
0	days	s 01:	17:0	2							1
ß	Wi-Fi	i Settin	a		×	+		-		;	×
÷	\rightarrow	C	, (j)	不安全	192	.168.0	.10/seria		÷	A	:
•	-	÷	Ű	1 Post	1.00			<u></u>		-	
ST/	ATUS		MOD	ULE	MC	DRE					
Baud	Rate										
11	520	0								,	,
DataE	Bits	_									
8										,	,
Parity	1										
N	ONE									,	·
StopE	Bits										
1										,	·
Serial	Split	t time	out(m	ıs)							
50											

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 <u>Save</u> button at the bottom before you leave this webpage.

🗅 Wi-Fi Setting	×	+		-		×
← → C ③ 不安全	192	2.168.0.	10/wifi_	s	☆	A :
STATUS MODULE	МС	DRE				Î
Soft AP Settings			⊛Ena	ble	Dis	able
SSID Name						_
SES27						
Password						
27272727						
SoftAP IP						
192.168.4.1						
SoftAP netmask						
255.255.255.0						
SoftAP gateway						
192.168.4.1						
🗅 Wi-Fi Setting	×	+		-		×
← → C ▲ 不安全	192	2.168.0.	10/wifi	_S	☆	A :
Station Settings		-	●Ena	ble	Dis	âble
SSID name		1	••••	e de la companya de		
Wireless Router SSI	D					
SSID list						

yhostls Password

Assign IP address IP Address Assign Netmask

Wireless Router Password

Enable DHCR
 Disable DHCP

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.

🕒 Wi-Fi :	New S	w × +	-		×
$\leftrightarrow \rightarrow c$	 不安全 	192.168.0.21/n	et_set 💅	<u>ک</u>	:
STATUS	MODULE	MORE			Î
Networks Socket Type	5 • • • • •				
TCP Ser	ver				-
TCP Server L	ocal Port				
9000	1				
TCP Client	•				
192.168.0	0.15	For TC	P clien	t	
9010		101101			
ODP Server	16				
9000					-

- 2. Remember to click the <u>Save</u> button at the bottom before you do anything else. Then, you must select MORE \rightarrow 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.