# Instructions of Standard Radar Sensor with Wi-Fi Protocol

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1.The Wi-Fi module inside the radar sensor needs to set MQTT connection messages first, including server address, client ID, user name and password. It only needs to be configured once and the configuration information will be saved in the module. Specific steps are described below:

1) Press and hold the reset button for longer than 10 seconds. The module will generate a hotspot: RadarConfig-xxxxxxxxxxxx. After connection via mobile phone or computer, type 192.168.0.1 into the browser. The configuration interface for entry via mobile connection hotspot is shown below. There is device ID shown at the interface only, while other information should be configured according to MQTT server.

2) Configure corresponding data according to mqtt server. After filling in, click the button "click to modify" to commit modifications. Server address format is, for instance, tcp://broker.emqx.io:1883.

3) After committing, the page will be refreshed automatically. Then, updated data will be shown in the information form. Click the button "setup completed, exit" to exit configuration. Now, the module will be exited and restarted.
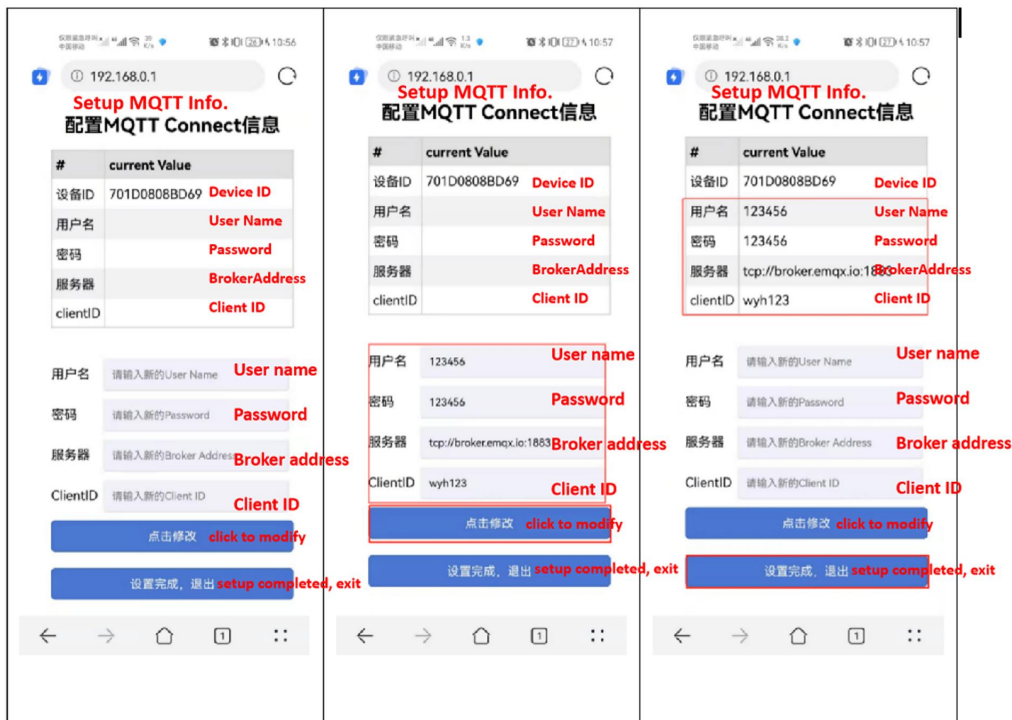
2.Web configuration of Wi-Fi module

1) Press and hold the key for about 5 seconds until led light turns off. Now, LED light is flickering and Wi-Fi module will activate a "Radar_BLE" Bluetooth, for web configuration via App. Module performs the web configuration, which will take 90 seconds at the most. If web configuration of Wi-Fi module is not performed or succeeded within 90 seconds after entering into the configuration state, a web configuration timeout command will be sent to app.

2) Open the web configuration app, choose the Bluetooth and Wi-Fi name and enter Wi-Fi password.

3) Click web configuration.
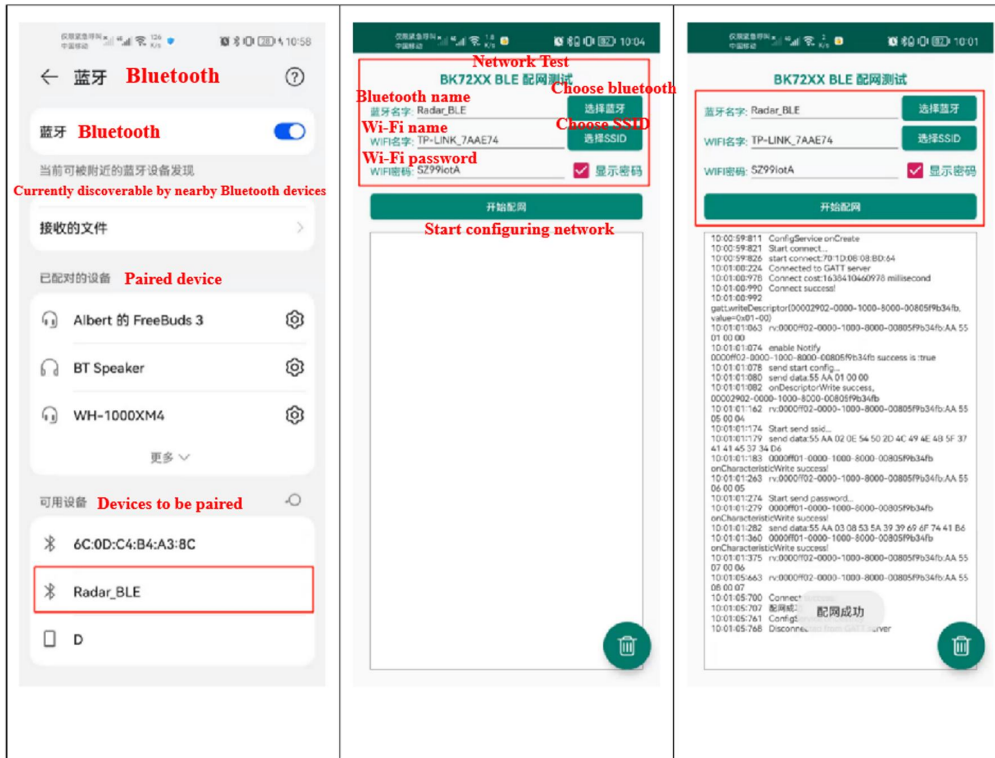
It is the procedure of configuration done via key. Configuration can also be done through serial command. The difference is that it has the same serial port with radar communication. Therefore, there is no need to connect radar before finishing configuration.

Configuration information needs to send command via serial tools, with the baud rate of 9600. Note: Follow every setup command with carriage return and line feed, which are used as the end of input message. Upon completion of configuration, the module will be powered up again.

1) setup on/ off; setup command is used to enable or disable the configuration function; enter setup on, carriage return and line feed, to enable configuration. The following setup command will become effective only after running this command. For example:

    setup on

Return:

    [setup] success

2) mqttUser set | get | erase, used to set name and password, with the supportable length up to 32 bytes. When used, mqttUser set is followed by parameters mqttName and mqttPwd. No parameter needs to be followed when mqttUser get or mqttUser erase is used. For example:

    mqttUser set albert 123456

Return:

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> [mqttUser] success albert 123456

3) mqttBroker set | get | erase, used to set ClientID and url paths for mqttBroker. Among which, ClientID has the max length of 32 bytes while URL has the max length of 64 bytes. When used, mqttBroker set should be followed by parameters ClientId and URL. For example:

> mqttBroker set beken-mqtt tcp://broker.emqx.io:1883

Return:

> [mqttBroker] set success beken-mqtt tcp://broker.emqx.io:1883

4) Wi-FiConfig set | get | erase, used to configure SSID connected and password of Wi-Fi. The max supportable length is 32 bytes for SSID and 64 bytes for password. Parameters ssid and password should be followed only when Wi-FiConfig set is used. For example:

> Wi-FiConfig set Micradar SZ99iotA

Return:

> [Wi-FiConfig] set success Micradar SZ99iotA

5) webConfig enable/disable, used to enable web configuration function. After setup, the module will be restarted and give a hotspot RadarConfig-XXXXXXXXXXXX. After mobile connection, type 192.168.0.1 into the browser to enter into the configuration interface. Enter the information to be modified, click "modify" and commit. Upon setup, click "setup completed" to exit setup function. And then, the module will be restarted. For example:

> webConfig enable

Return:

> [webConfig] success

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