

## FM receive instructions

### Power Supply

1. Module with USB Micro interface, Can use the computer USB power supply.
2. Module corresponding port, it's marked on the PCB board, - + respectively connected with negative electrode and positive electrode of power supply (battery). Suggested that use the battery or other regulated power supply as the power supply. Switching power supply without filter is not recommended, such as Mobile phone charger, Mobile power supply and other switching power supply. Otherwise, the normal operation of the module will be affected by the interference of the power supply. This module works properly Voltage is 3.0-5.0V. Note that the power supply voltage should not exceed this range.

### Antenna

FM\_ANT port used to connect FM antenna, Recommended external pull rod antenna with length 75cm In order to better receive the FM signal.

### Earphone / speaker output

This module comes with 3Wx2 channel audio amplifier, connect speaker port if required, proposed to using 4 /3W speakers. Audio automatically switches to headphone channel when the headset is plugged in, speaker channel auto shutdown at the same time.

### Volume adjust

Turn VOL encoder to adjust the volume, LCD screen display volume series at the same time.

### Frequency regulation

Turn FRE encoder to adjust the launch frequency, LCD screen displays the current frequency at the same time.

### Auto search

Short press FRE encoder, local radio stations are automatically searched until the search to a valid radio, LCD screen displays the current frequency at the same time.

### Mute

Down short press VOL knob to switch mute or un-mute.

### Automatic squelch switch

Down long press VOL knob switch mode for open or close automatic squelch function. Open automatic squelch when the LCD display ON, close automatic squelch when the LCD display OFF.

### Automatic squelch threshold adjustment (Must auto squelch switch is open is effective)

Down long press FRE knob to enter the automatic squelch threshold adjustment interface, Rotary VOL knob to adjust the action of automatic squelch threshold, adjusting range is 0-31. The higher the value, the higher the threshold, weak signal is more likely to be muted. The lower the value, the lower the threshold. Signal too Strong, the more difficult to be mute.

### Serial port (No need to connect if without serial port control)

Module reservation TTL level serial port control interface, TTL serial port and the module communication need to connect the module of the UART\_TX, UART\_RX and GND, it is marked on the corresponding position of PCB. Can use external MCU or computer serial port to send command control module.

Serial port instruction consult FM receive AT instruction list.

