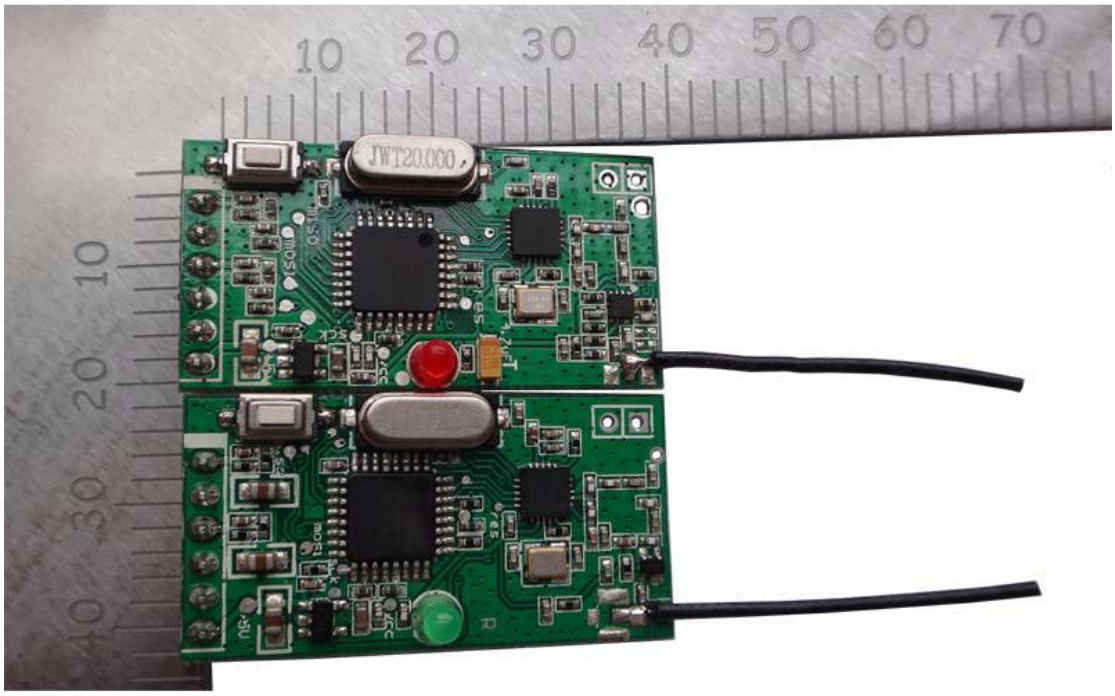
XL - 01 M digital audio module Manual



Dear customer:

Thank you for choosing the Company's wireless module, in order to use this product in better and faster way, please read this manual carefully. Wireless transmission distance is infected by the environment, output rate, antenna as well as other factors. The distance marked by our company is based on the company's open test environment, so the result is only for your reference. Wuhan Lilly Electronics Co., LTD is a professional wireless module manufacturer, we have many years of experience in design & development & Manufacture of wireless module development design and manufacture, If there are any technical problems in using our products, please contact the company's technical support timely.

1. Introduction of the module

XL - 01 m wireless digital audio transceiver module is the company's high-quality digital wireless audio transceiver with high fidelity and good anti-interference performance. The product is simple to use, with direct audio input and audio output, like using antenna directly, it has good sound quality, small volume, etc

2. Module function

2.1

(1)Send and receive frequency range: 2400-2483 m

(2)Channel number: 16

(3)Channel spacing: 5 m

(4)Digital processing, safe and reliable

(5)More can arise

(6)More groups can work in parallel

(7)Open distance of 150 meters (external SMA antenna)

(8)Easy to use

2.2 Application range

(1)CD, DVD player or other device

(2)Wireless families surround speakers

(3)Radio listeners

(4)Wireless microphone

(5)Wireless microphone

(6)Ordinary speakers

(7)Reread machine learning machine

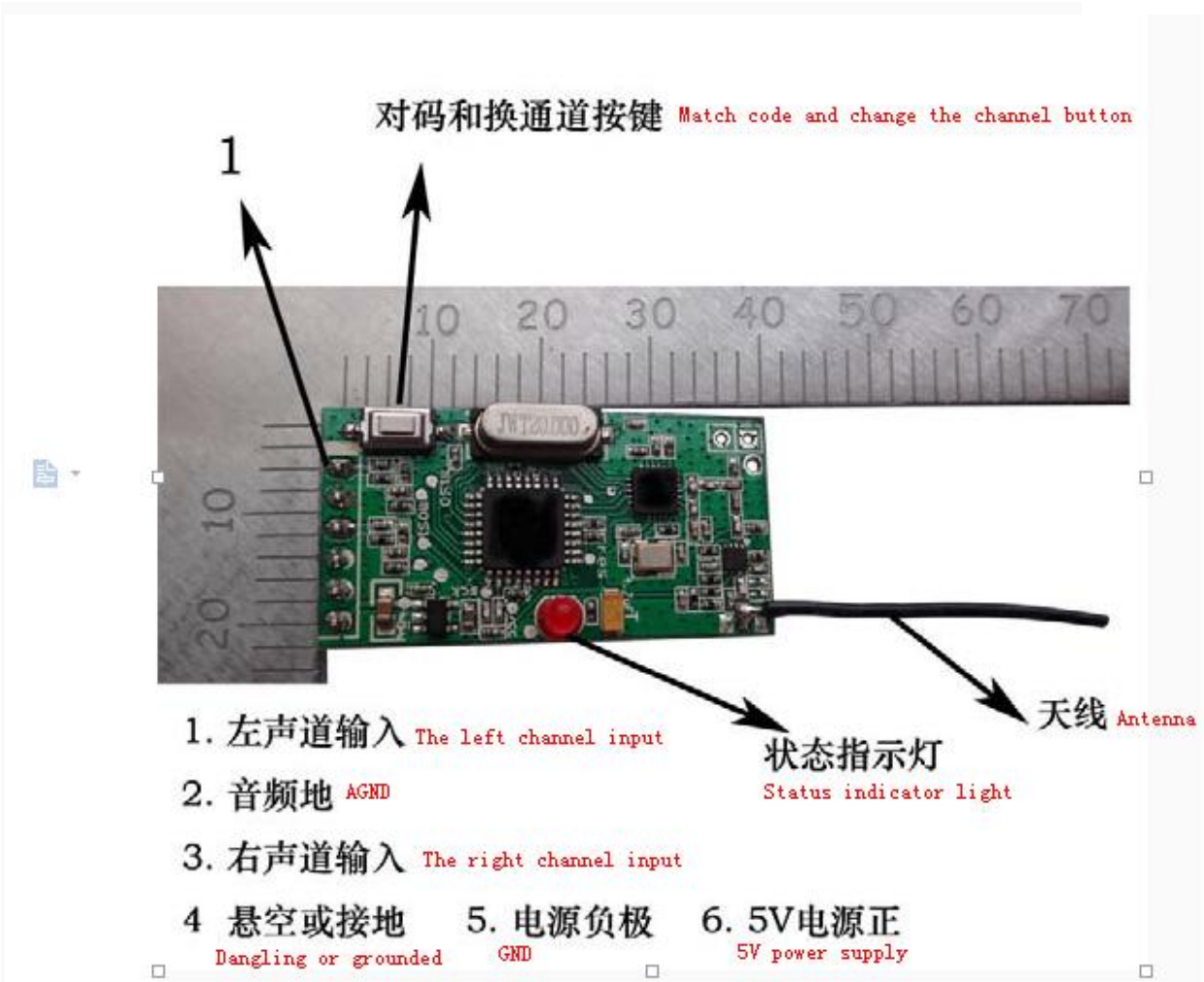
2.3 Electrical characteristics

Electrical performance			
Serial Number	**Describe**	**Emitter**	**Receiver**
1	**Working voltage**	**3.6-5V**	**3.6-5V**
2	**Working current**	**Max 100mA**	**Max 40mA**
3	**Frequency response**	**20‐20KHZ**	**20‐20KHZ**
4	**The temperature of environment**	**‐15—60°C**	**‐15—60°C**
5	**Sampling rate**	**44.1K**	**44.1K**
6	**Signal-to-noise ratio SNR**	**95dBC**	**95dBC**
7	**Distortion degree of TDH**	**<1%**	**<1%**
4	**Frequency range**	**2400‐2480MHZ**	**2400‐2480MHZ**

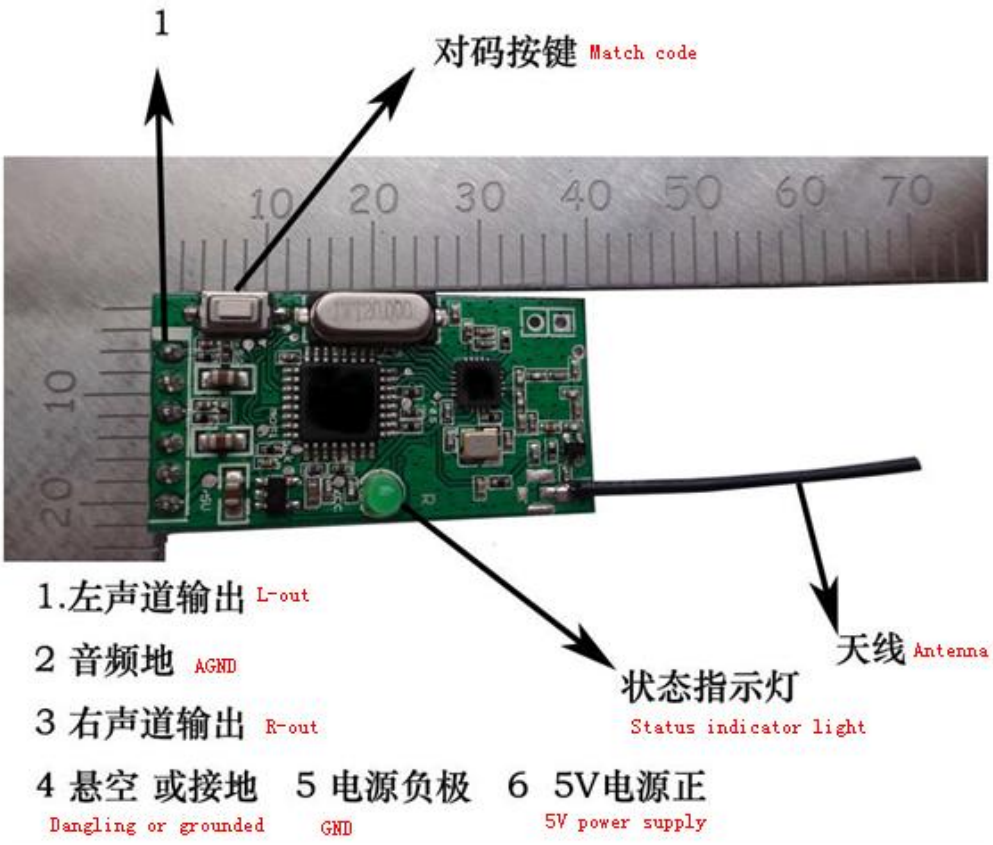
5	5 channel spacing	5MHZ	5MHZ
6	FM(Frequency Modulation) way	GFSK	GFSK
7	Baud rate	2MBps	2MBps
8	Frequency stability	+/ - 80KHZ	+/ - 80KHZ
9	Channel selection	Button one-directional	Automatic search option
10	Working channel	16	16

3. Method of application

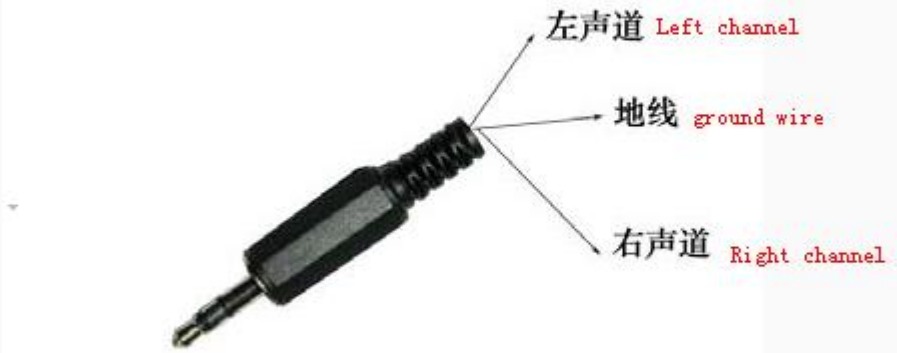
3.1 Launch module

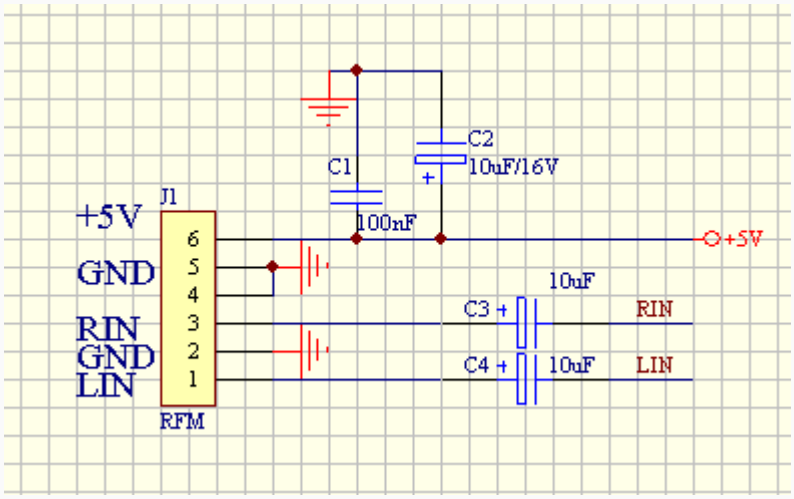


3.2 Receiving module



3.3 Mode of connection





For the audio input and output of the module, need to connect to a capacitor of 10uF, and then weld wires or stereo plug wire. Supply 5V DC power supply to modules, or use 3xAA batteries. If the power supply is from 5V switching power supply, need to add decoupling capacitor 100uF, it is best to connect a inductor in series to the positive pole.

3.4 Instructions

3.4-1 After connection is made ready according to the picture, the analog audio signal that is input into the transmitter can be received at the receiving end..

3.4-2 To ensure more group work at the same time, This module can do code group and Button manual frequency hopping, Electricity before press the buttons on the Optical Transceivers to give two modules with electricity, The LED 2 flashes on the two modules is succeed, If multiple receiving and a launch of extra code can arise.

3.4-3 If there is interference in the process of using cause audio features is bad, Can be pressed fired button to Launch the red light flashing, Accordingly after receiving side received the red light flashing, Two modules jump to the next clean idle channel automatically, The work module sets 16 channels in total.

4.Using the matters needing attention

4.1 Electrostatic

Wireless module is electrostatic sensitive device, Please note that when using electrostatic protection, especially in the dry winter, try not to touch the module on the device, so as not to cause unnecessary damage.

4.2 The power supply

Wireless module is recommended to use small ripple of dc power supply, working voltage advice in 5 v voltage, Module grounding should be stable and reliable, Ground near the power supply as far as possible, If with switching power supply, must strengthen the back lotus root, so as not to switch power supply ripple and spike pulse module operating

characteristics, but on the power supply chain of a 10 uh inductance, inductance plus 100 uf capacitance grounded at both ends.

4.4 Test

The module uses the wire antenna, when used, please don't walk around or put any device under the antenna, 2.4 G frequency is higher, all kinds of material all have certain influence, general plastics Has little effect, such as Metal objects have an obvious effect, At this point it is recommended to use SMA feeder to external SMA antenna.