

SHENZHEN FEDEREMOTE TECHNOLOGY CO., LTD

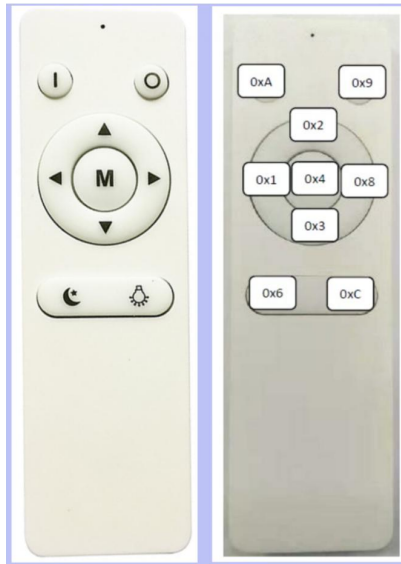
FR-54-433TX-01

(433MHz Remote Control Instructions)

1. Overview

This product is a 433MHz remote control with superior performance, which has the characteristics of long remote control distance, stable working frequency, wide working voltage and ultra-low power consumption. Using 1527 communication protocol, it can match with our receiver modules.

2. Appearance and key Code



3. Electrical parameters

Material	FR4 glass fiber double-sided, 8.76cm*3.1cm*0.1cm
Working Frequency and Modulation	433.92mhz, ASK
Transmit Power	13dBm

Working voltage	2.0-3.6V 1 * 2025 or 2032 Button cell
Working current	<15mA
Stand-by Current	<5uA
Operating Temperature	-20 to +60°C
Controlling Distance	Outdoor open test, with 433RX-01 standard module, control distance >25m
Others	RF radio frequency is susceptible to radiation interference from speakers, motors, transformers and metal shielding. Please try to keep the receiving end away from these interference factors. If it must be installed in a metal case, please pull out the antenna; ensure that the power supply of the module stable.

Note: The control distance varies in different environments, please confirm whether it meets your needs according to your actual situation.

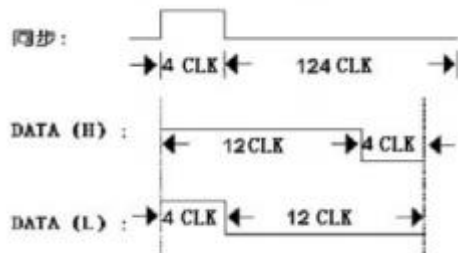
4. The Communication Protocol

(1) The whole data format is: sync header+20bit internal code+4Bit key value.

The high order of the data is in the front, and the low order is in the back, such as the key value 0x1, corresponding to the following figure D0-D1-D2-D3 is 0001

(2) Within one million groups, the internal code of each remote control is different

(3) Trigger the button once will send at least 3 packets, the remote control will go to sleep mode after data sending, there is no long-press and long-send function



Note: 4CLK pulse width is 0.21ms.