

SRWF-RFScanner-SDK Receiver Terminal Of Wireless Scanner user manual



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I. Introduction

The SRWF-RFScanner-SDK receiver terminal is a match product with wireless scanner, realizing the wireless data transmit. The receiver terminal separates the way by using different ID number, supporting point to multi-point communication.

II. Feature of Receiver Terminal

- ※ **Low power transmission:** With the transmission power of 17dBm, carrier frequency of 433MHz
- ※ **Multi- channel:** The standard configuration provides 8 channels, meeting the multiple combinational mode of communication.
- ※ **High anti-interference and low BER(Bit Error Rate):** Based on the GFSK/FSK modulation mode, carry on the verification to the each package of data , guaranteeing the accuracy.
- ※ **Long transmission distance:** Within the range of visibility, the reliable transmission distance is 400 m

III. Technical Specification of Receiver Terminal

| Serial Numeber | Item | Parameter |
|----------------|----------------------------|-----------------|
| 1 | Modulation mode | GFSK |
| 2 | Working frequency | 433 MHz |
| 3 | Transmission power | 17dBm |
| 4 | Receiving sensitivity | -113dBm |
| 5 | Channel counts | 8 channel |
| 6 | Transmitting current | 85±5mA |
| 7 | Receiving current | 28±2mA |
| 8 | Interface velocity | 9600bps |
| 9 | Power supply | +3.3~5VDC |
| 12 | Dimension | 103mm×66mm×22mm |
| 13 | Reliable transmit distance | 400m |

IV. Parameters Setting

Before using, you have to make simple configuration of your system parameter, The



parameters can be saved in EEPROM , and be reserved in it when cutting off the power. you can set the receiver terminal's parameters by pressing special command of PC (both Capital Letters and Lowercase are ok). After setting, the key "Caps Lock" of keyboard must be in small state.

1. Setting of the channel

The system can supply 8 channels, the range is from 0~7. The Frequency of every channel is shown in Table 3, The command of receiver terminal's channel setting is "setc00X", then press enter key. "X" means the channel number you need set. It will display "c=X", when the change is success. For example : when setting the channel as 6,you can input the words "setc006" in the wordpad, then press enter key, It will display "c=6" when the change is success.

Table 3. The Frequency of every channel

| Channel Number | Frequency(MHz) | Channel number | Frequency(MHz) |
|----------------|----------------|----------------|----------------|
| 0 | 433.85 | 4 | 434.80 |
| 1 | 433.45 | 5 | 432.20 |
| 2 | 434.00 | 6 | 432.60 |
| 3 | 434.40 | 7 | 432.80 |

2.Setting source address

The system can offer 255 addresses. The setting range is from 0 to 254. Every receiver terminal has one source address. The method of setting the receiver 's source address is pressing "setc00X" from key, then pressing enter key. "XXX" is the source address that you will set, the data format is 3 decimal digits, if insufficient 3 makes up 0 frontal data. For example: if you want to set source address "45",you need to input "sets045" from keyboards, then press enter key. When the setting is success, it will display "s=045".

3. the edition information inquired

This equipment can be inquired the edition information. It will display the receiver terminal's edition when input the "edition" through the keyboard, For example:

c=0

s=002

d=006

Note: “c” means channel number, “s” means source address, “d” means destination address, “t” means automatic power off time.

***Memo:** when users change parameters of the receive module through the keyboard ,the time between inputting keys must be less than 2s .

V. Installation Guide

(a) The diagram of receiver terminal is shown as follows:

front-view



back-view



Fig.4: The Diagram Of PC Receiving Terminal

(b) Connection Method:

The KB-COM port is connected to key. The PC-COM port is connected to pc, then starts PC.

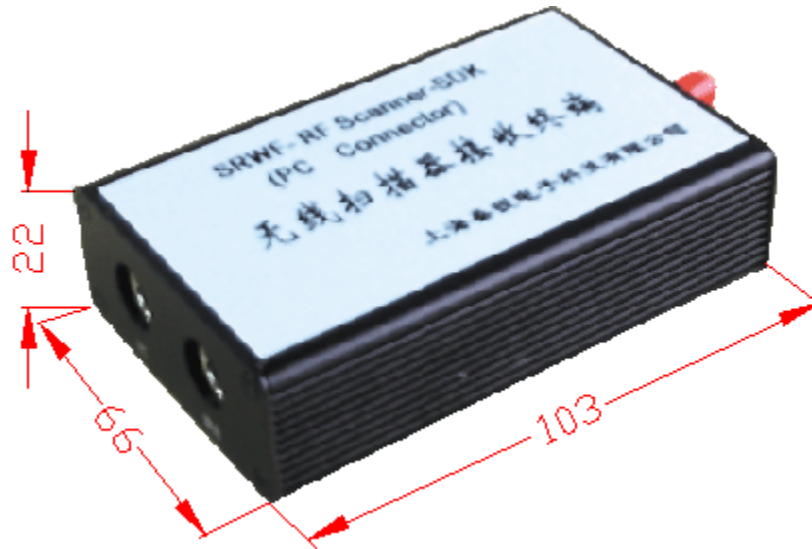
(c) Panel Description:

LED2(Red) : Power director

LED1 (Green): The light will twinkle when in receiving mode,

SW : Switch of the power-on/off.

VI Product Size Of Receiver Terminal (unit: mm)



VII. Technology Support And After Service :

We offer sufficient technology support for user use the module and second development for free;mending broken module one year for free, always offer after service.

To adapt different user structure, we can develop smaller module or various size modules

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Appendix I



number0



number1



number2



number3



number4



number5



number6



number7



number8



number9



setsour



setdest



autopower



setok



copyright



setchan



WIRELESS



WIRED