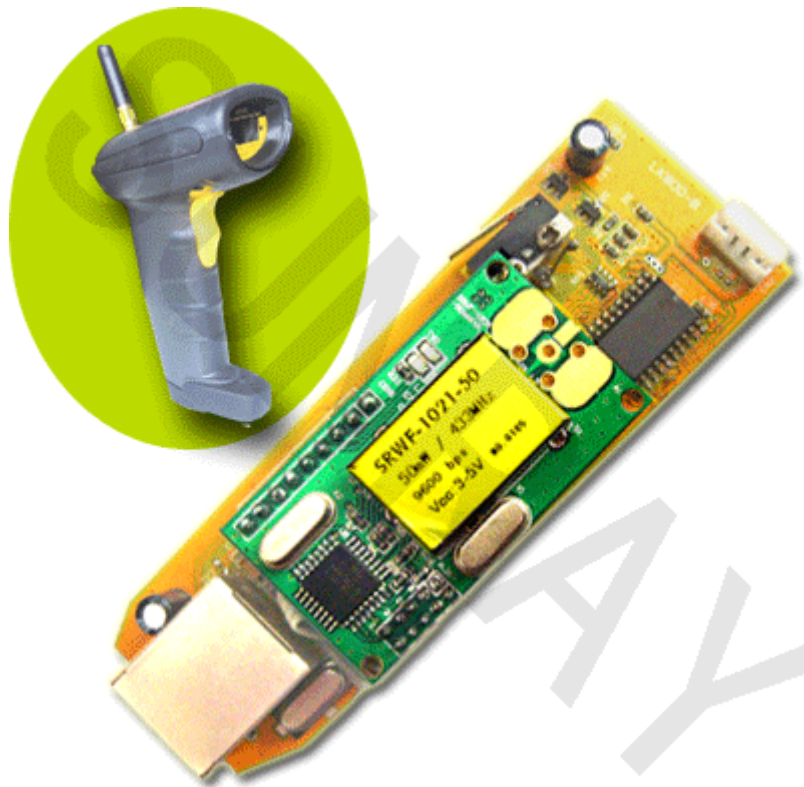


SRWF-RFScanner-SDK Transceiver Data Module Of Wireless scanner user manual



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I. Introduction

SRWF-RFScanner-SDK transceiver data module of wireless scanner transmit the coding data from scanner by wireless to wireless receiver terminal. It has wireless transmit、carrier detect、verification、low voltage alarm, guaranteeing the convenience and veracity of data transmit. module will be in sleeping mode when not receiving data from scanner in the enactment time, and could be wake by switch.

II. Feature

- ※ **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.
- ※ **Low power consumption and sleeping function:** the module will be in sleeping mode when not receiving data from scanner in the enactment time, and cut off the power of scanner. sleep current is $5\pm 2\mu\text{A}$.
- ※ **Low voltage alarm :** when the battery voltage is below 3.6v,the buzzer will have three short call every third minute or so, reminding charge.
- ※ **Long transmission distance:** Within the range of visibility, the reliable transmission distance is 400 m

III. Technical Specification

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	$85\pm 5\text{mA}$
7	Receiving current	$28\pm 2\text{mA}$

8	Sleeping current	5±2uA
9	Interface velocity	9600bps
11	Power supply	+3.3~5VDC
12	Dimension	47mm×26mm×10mm
13	Reliable transmit distance	400m

IV. Interface Definition

SRWF-RFScanner-SDK supplies 6-pin connector (J1) for scanner and 8-pin connector (J2) for indicator (shown in Figure1). The definitions and connection methods are shown in Table 1 and Table 2 , respectively.

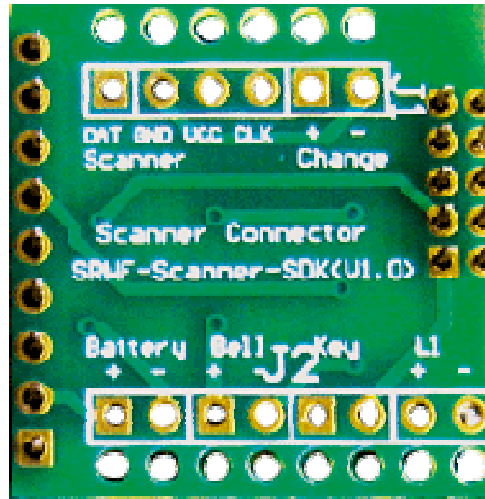


Fig.1

Table 1. Connection method for scanner

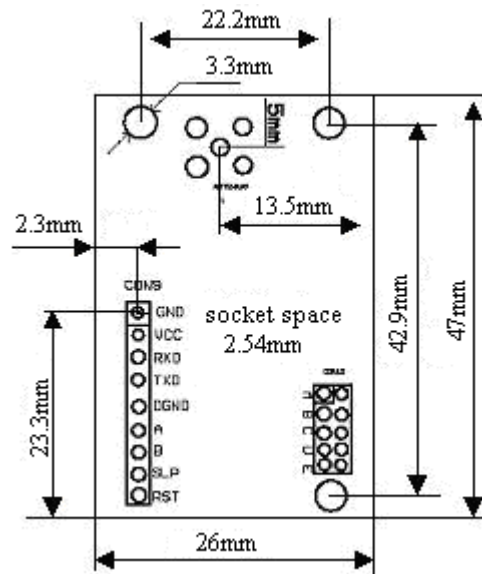
Pin No	Pin Name	Description	Level	Connected To Scanner
1	DAT	Data line		DAT
2	GND	Power Ground		GND
3	VCC	VCC	3.7V	VCC
4	CLK	Clock line		CLK
5	Change +	Battery Charger +	4.2V	
6	Change -	Battery Charger -		

Table 2. Connection method for indicator

Pin No	Pin Name	Description	Lever	Connected To Indicator	Memo
1	Battery +	Vcc +	3.7V	Vcc +	

2	Battery -	Vcc -	0	Vcc -	
3	Bell +	Bell +	3V	Bell +	
4	Bell -	Bell -	0	Bell -	
5	Key	Arouse Switch		Switch	Waken Scanner
6	Key	Arouse Switch		Switch	
7	L1+	LED +	3V	LED +	Twinkle when module is in transmit
8	L1-	LED-			

V . Sketch Map Of Module Size (see below):



VI. 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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