

## Wireless Scanning Solution



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## I. Introduction

The Traditional barcode scanner must have a line connect to PC, which limits the sphere of scanner, and the quantity of a PC connection to the scanner is also extremely limit , which causes the data terminal equipment waste extremely. All of these give the scanner revolutionary challenge, so this article gives a wireless scanning solution based on 433M wireless transmit technology

## II. The Principle of system

The system of scanner consist of scanner, wireless module ,wireless receiver terminal, PC ( shown as figure1 ) ,The module's pins are separately connect to corresponding pin of scanner ,and also connect to indicating circuit. The wireless receiver terminal is connected to pc through USB or PS/2 connector of PC. After the scanner scan the barcode , the wireless module read the data from the data pin, and transmit the data after coding(the indicate light is twinkle),when receiving the data, the receiver terminal do a check, then transmit to pc, and give a respond to scanner. after receiving the right respond, the buzzer is tweet, prompting the barcode is successfully transmit. it realizes the wireless data transmit, expands the sphere of action ,and is easy to operate. The System separates the way by using different ID number, supporting point to multi-point communication.



Fig.1



### **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±5mA
7	Receiving current	28±2mA
8	Sleeping current	5±2uA
9	Interface velocity	9600bps
11	Power supply	+3.7~5VDC
13	Reliable transmit distance	400m

### **IV. The feature of wireless scanner system**

- I Easy to install and maintenance, low cost
- I Using the verification and high reliability
- I Convenience, flexible, and not constrained to the line.

### **V. Technology Support And After Service**

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

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