ZBS-100 Manual V0.9

1. Introduction

This product is the Zigbee wireless module used through one-to-one

communication. When you make use of the wireless serial communication

instead of the previous wired type of RS232C, it can be effectively used.

Using the module which does not require any special settings, you can directly couple

it with the RXD or TXD port of user's TTL level. Communication speed is set to 9600BPS.

Noparity, 2stop bit (You can Change Communication speed, RF Channel(0B ~ 1A))


2. How to use

- The serial communication between CPUs

: couple the RXD or TXD port with the RXD of the Zigbee module or TXD in a crossed way
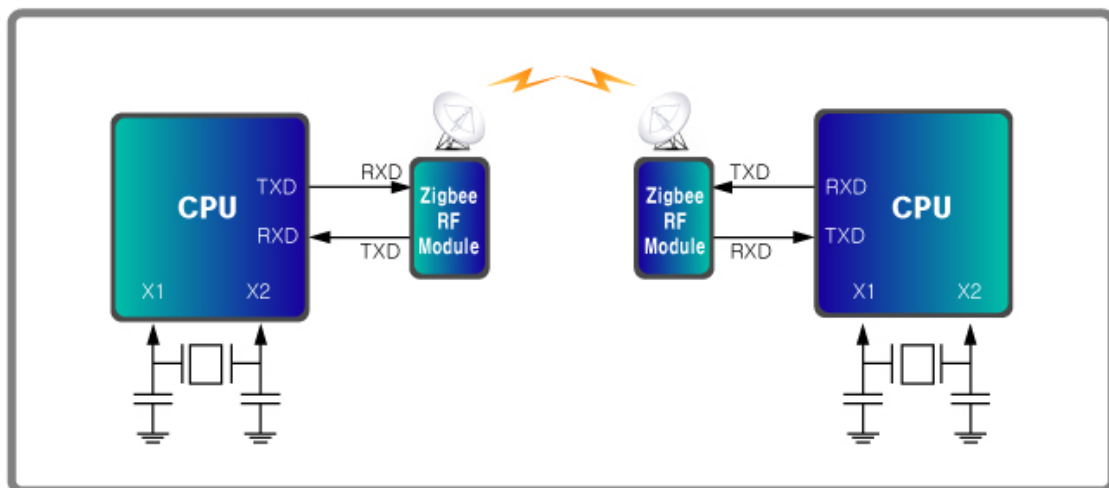

- The serial communication between CPU and PC

: In CPU connection, please directly couple the Zigbee module with the RXD or TXD in a

crossed way, but in PC, you should control by connecting MAX232C to the middle. We

provide you with the base board, so you are able to communicate conveniently with that.
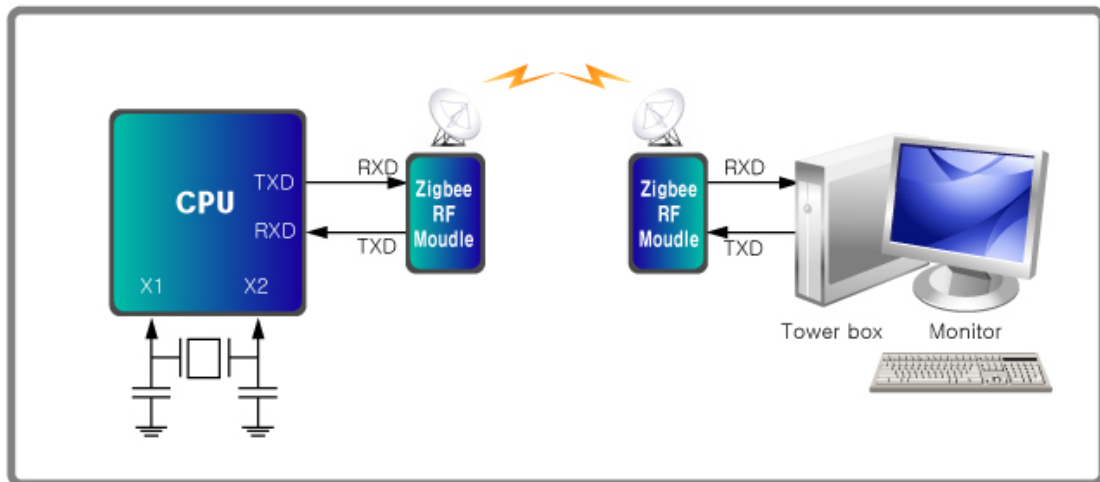
\- The serial communication between PCs

:In communication between PCs, you should connect MAX232C of the exclusive communication chip between Zigbee module and PC. With the base board provided by our company, you can make the best use of it
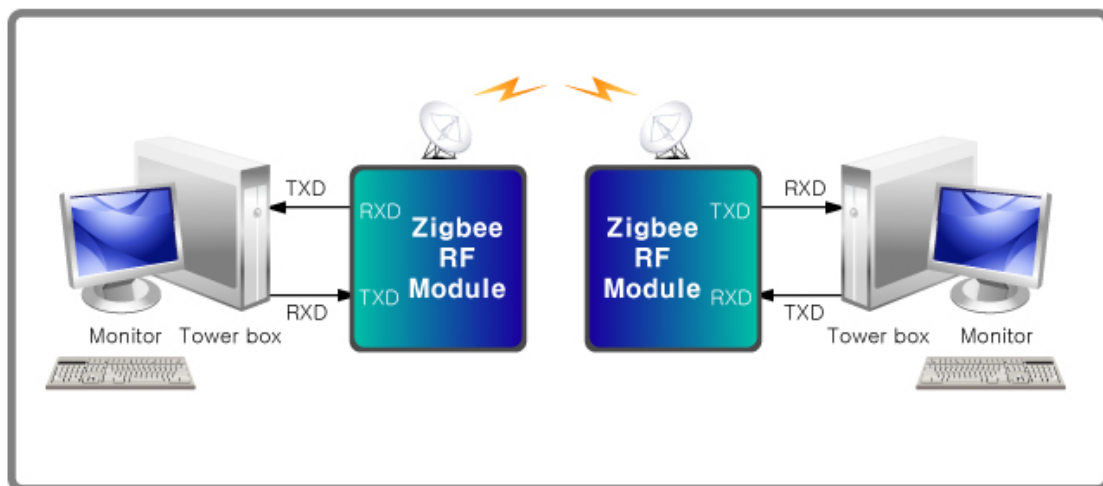
3. Description of Pins

When the module is powered, the thing you need to take notice of is to input voltage. This module is designed to be used with the choice of 5V and 3.3V. Please notice If it is unveiled in the market, its voltage is set to 5V. The module with 3.3V ought to be transformed in line with the Manual
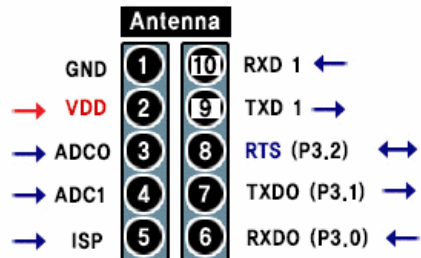
- RS232C 케이블링 대처
- 무선 POS 시스템
- 산업용 무선 기기 제어 및 모니터링
- 공장 자동화 무선 통신 응용
- 교통감시 시스템
- 자동차 진단 시스템
- PLC 프로그래밍
- 무선 물류 시스템

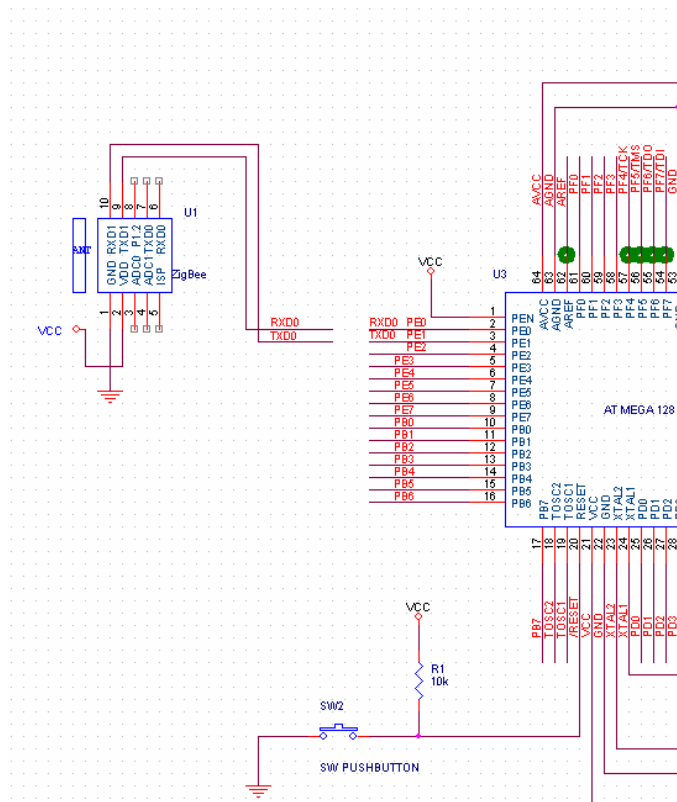| Pin No.	Pin Name	Direction	Description	Signal Level
1	GND		Power Ground	Ground
2	VDD	Input	DC input(3V or 5V)	Power
3	ADC0	Input	Reserved	N.C
4	ADC1	nput	Reserved	N.C
5	ISP	N.C	Not Connected	N.C
6	RXD0	N.C	Reserved	N.C
7	TXD0	Output	Reserved	N.C
8	P3.2(I/O Pin)	Input/Output	Reserved	N.C
9	TXD1(P3.1)	Output	UART1 data output	TTL
10	RXD1(P3.0)	Input	UART1 data output	TTL
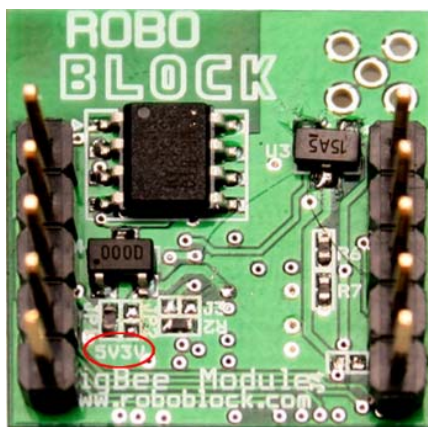
Notice: There is the sign,"0" ohm resistance that is attached in the circular part.

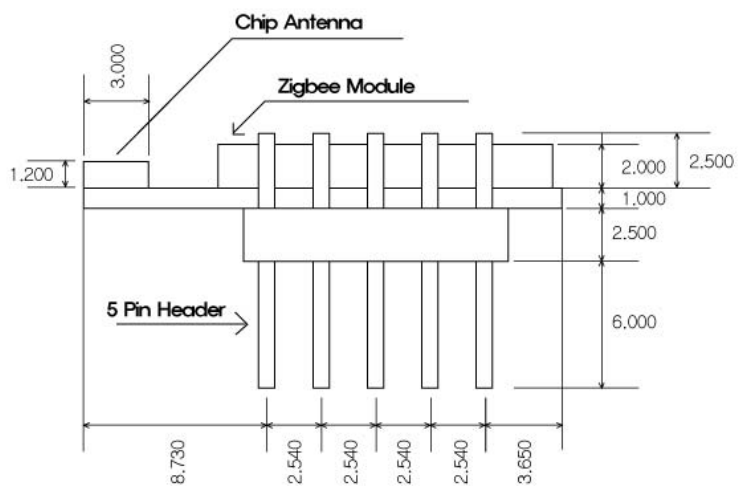When attached to the side of 5V, it is being operated by 5V(3.2V - 6V), and when to
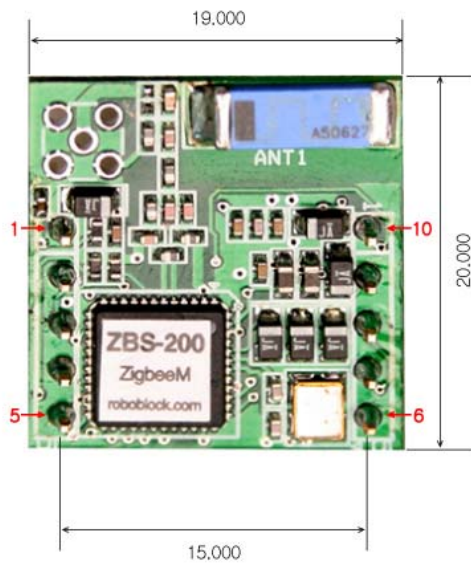
the side of 3V, it is working through 3V(2.8V - 3.3V). When this product is unveiled,

its voltage is 5V, so that if a user use the one with 3V, you must remove "0" ohm

resistance of 5V side, and then transform it to the side of 3V.

4. Application Circuit

- For SP3232 (Serial Port Type)

- For CP2102 USB (USB Port Type)

- For Microcontroller

5. Pin Dimension

6. Information Roboblock

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* Reference: In the size and pin, ZBS-100 and ZBS-200 are the same, but there are differences in functions.