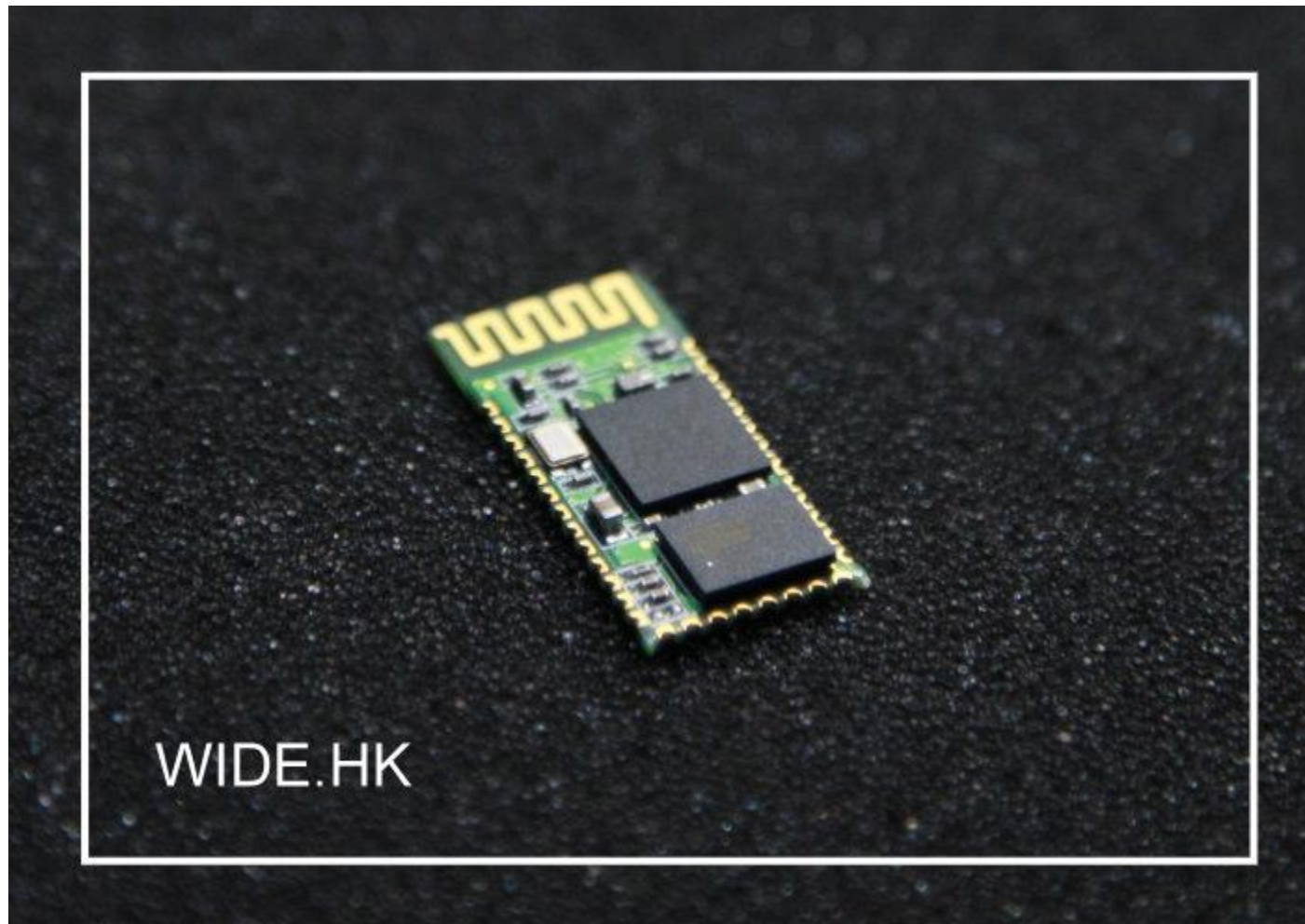


# Wireless Bluetooth Transceiver Module RS232 / TTL

Professional Parts supply from China SHENZHEN





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**This Bluetooth with Blue2.0, Modify master & slave mode at any time, master and slave mode is the same as the hardware to support the AT command set to support the baud rate 2400 to 1382400.**

**The current firmware has been modified for the new version: The default setting for serial port 【9600, N, 8,1】 , password: 1234.**

**Support the AT command to modify the baud rate, device name, passkey, master or slave mode (master and slave mode can be modified by AT commands), require additional baud rate or the principal mode of an order, please indicate the support of the baud rate 2400---1382400.**

#### **Product features**

- ◆ Build-in CSR company Bluetooth chip BC417143
- ◆ Bluetooth specification v2.0 + EDR
- ◆ High-board antennas
- ◆ Paired with various Bluetooth adapter, Bluetooth phone use, master-slave can also be used in double
- ◆ Can be set for the module control parameters and control commands issued via AT commands
- ◆ The maximum serial baud rate: 1382400bps, support for hardware flow control transfer
- ◆ Provide seven input and output ports, scalable user IO resources
- ◆ Work status indicators; connection with the non-connection state signal output, easy to track the status of module MCU
- ◆ Used for embedded wireless serial transmission alternatives
- ◆ Size: 26.9mm x 13mm x 2.2 mm

## Applications

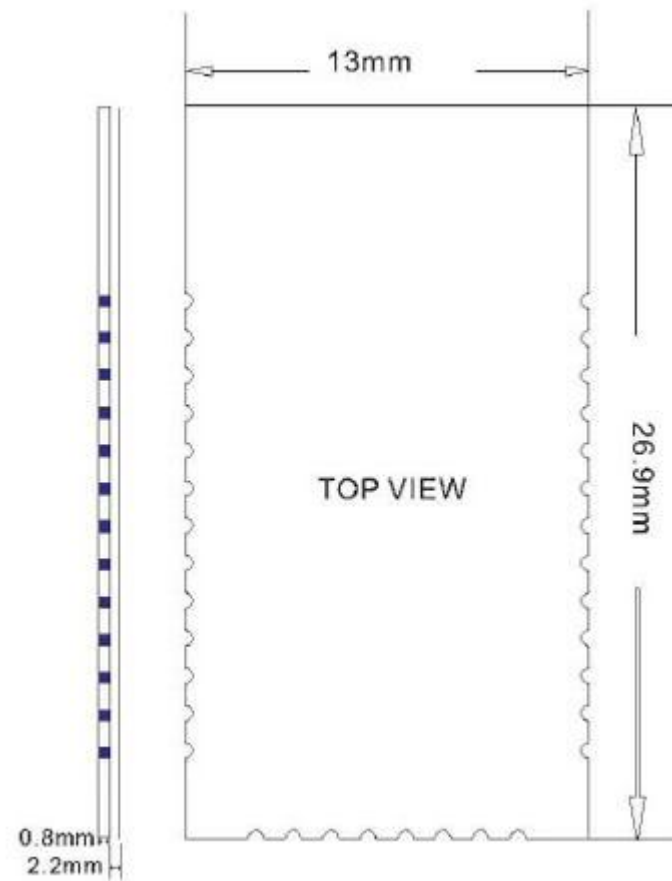
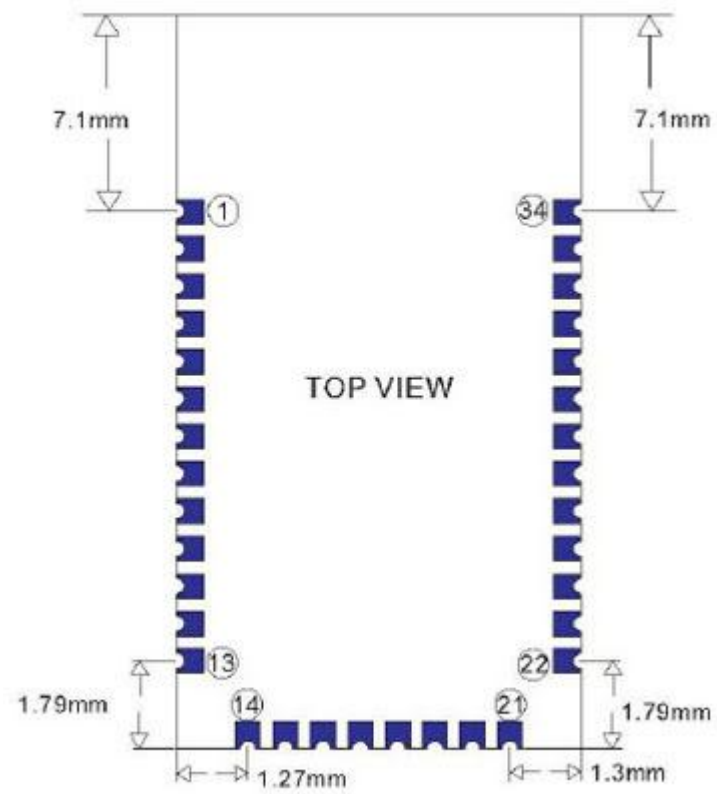
- ◆ Mouse, keyboard, joystick
- ◆ Computers and peripherals
- ◆ GPS Receiver
- ◆ Instrument
- ◆ Industrial control

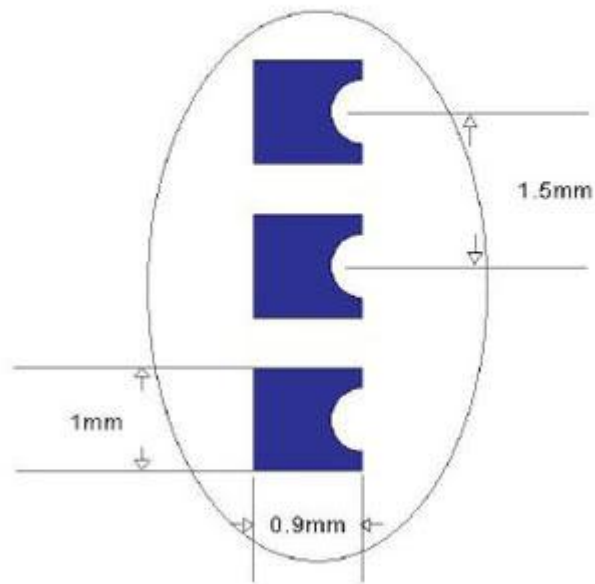
## Product Specifications

Bluetooth protocol	Bluetooth Specification v2.0+EDR
USB protocol	USB v1.1/2.0
Frequency	2.4GHz ISM band
Modulation	GFSK(Gaussian Frequency Shift Keying)
Transmit power	≤4dBm, Class 2
Sensitivity	≤-84dBm at 0.1% BER
Rate	Asynchronous: 2.1Mbps(Max) / 160 kbps Synchronous: 1Mbps/1Mbps
Security features	Authentication and encryption
Support profiles	Bluetooth serial port (master & slave)
Power Supply	+3.3VDC 50mA
Working temperature	-5 ~ +45 Centigrade

## Packing List

**Wireless Bluetooth Transceiver Module X1 PCS**





NO	PIN NAME	NO	PIN NAME
1	UART-TX	18	SPI-MISO
2	UART-RX	19	SPI-CLK
3	UART-CTS	20	USB D+
4	UART-RTS	21	GND
5	PCM-CLK	22	GND
6	PCM-OUT	23	PIO(0)
7	PCM-IN	24	PIO(1)
8	PCM-SYNC	25	PIO(2)
9	AIO(0)	26	PIO(3)
10	AIO(1)	27	PIO(4)
11	RESET	28	PIO(5)
12	3.3V	29	PIO(6)
13	GND	30	PIO(7)
14	GND	31	PIO(8)
15	USB D-	32	PIO(9)
16	SPI-CSB	33	PIO(10)
17	SPI-MOSI	34	PIO(11)

Typical application schematic, Power and 2 X RS232 (TTL) interface.

