

# Bluetooth Module

## RM3030

### User's Guide

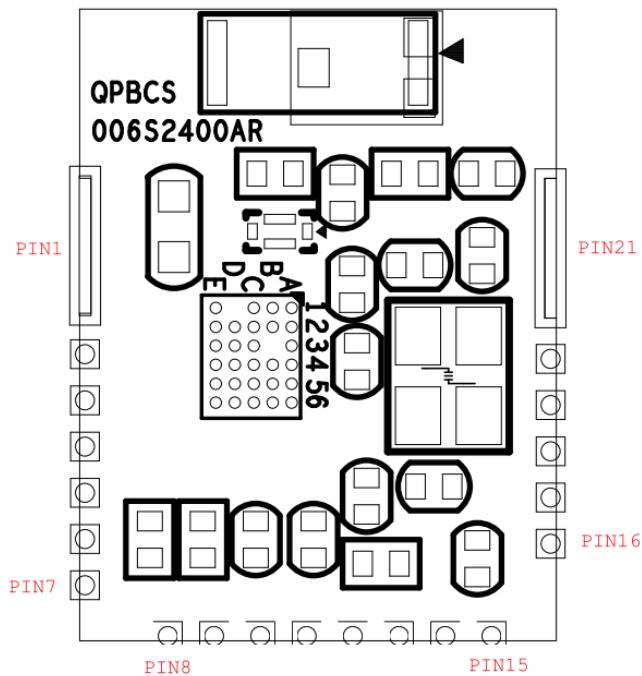
# **Introduction**

You can connect to other Bluetooth wireless devices by integrating the RM3030 module to your device.

# Specification

Product Name	Bluetooth Module
Model Number	RM3030
Standard	Bluetooth v4.0
Frequency Band	2.402GHz ~ 2.480GHz unlicensed ISM band
Transfer rates (Max)	Max UART baud rates up to 4Mbits/s
Antenna terminal	50 Ohms
Dimension	12.5 x 16.6 mm
Operating Temperature	-10 ~ +50°C
Storage Temperature	-40 ~ +70°C
Humidity	5 ~ 95% (non-condensing)

## Pin Assignment

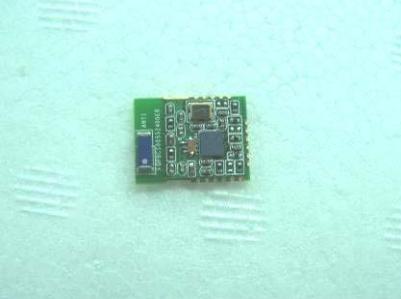


NO.	Pin Name	Description
1	GND	Ground
2	NC	No connect
3	PIO[0]	Programmable input/output line and 32kHz sleep clock input
4	UART_RX	UART data input, active high
5	UART_TX	UART data output, active high
6	UART_RTS	UART request to send, active low
7	UART_CTS	UART clear to send, active low
8	NC	No connect
9	NC	No connect
10	NC	No connect
11	NC	No connect
12	NC	No connect
13	NC	No connect
14	NC	No connect
15	PIO[9]	Programmable input/output line
16	VDD	Power supply
17	VREG_EN_RST#	Take high to enable internal regulators. Also acts as active low reset
18	VDD	Power supply
19	NC	No connect

20	NC	No connect
21	GND	Ground

# Module Installation Manual

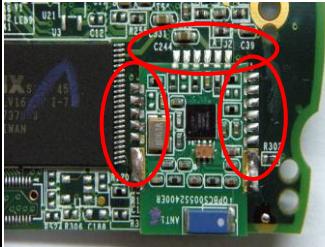
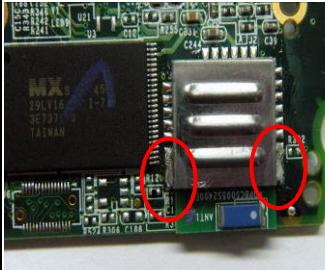
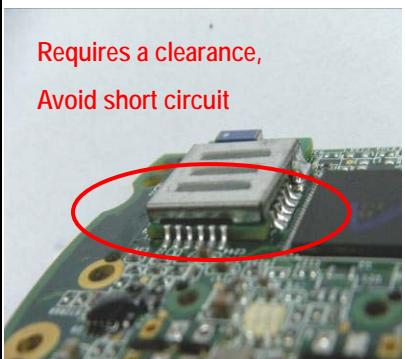
## Material:

Description	Picture	Description	Picture
BT_CSR PCBA Q'ty: 1		Q'ty: 1	
Shielding Case Q'ty: 1			

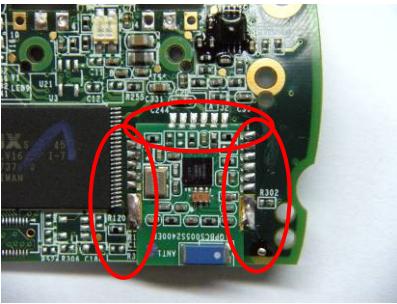
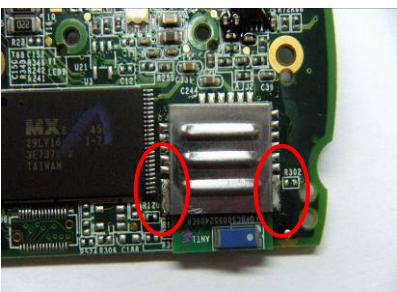
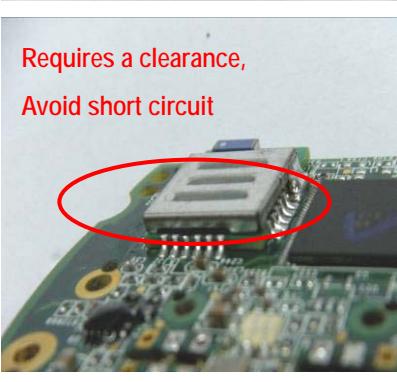
**Tools:**

Description	Picture	Description	Picture
Iron	 A photograph of a soldering iron being used on a component inside a rework station. The station has a control panel with buttons and a small screen.	Tin wire	 A photograph of a spool of tin wire, which is a metal wire used for soldering.
Fan	 A photograph of a standard computer fan with a metal mesh cover and a power cord.		

## Job Description and Notes:

Step	Picture	Description
01		<p>Job Type: Put BT_CSR PCBA on board, solder fixed, avoid short circuits.</p> <p>Note: Welding BT_CSR PCBA temperature of <math>350^0\text{C} \pm 10^0\text{C}</math>, not too high or too low.</p>
02	 	<p>Job Type: The Shielding Case welded on BT_CSR PCBA, careful not to short circuit and BT_CSR PCBA.</p> <p>Note: 1 Welded shielding case temperature of <math>350^0\text{C} \pm 10^0\text{C}</math>, not too high or too low. 2 Shielding Case not skew or subsidence short circuit.</p>

**Finished:**

Picture	Description
	<ol style="list-style-type: none"><li>1. Welded shielding case temperature of <math>350^{\circ}\text{C} \pm 10^{\circ}\text{C}</math>, not too high or too low.</li><li>2. Welding BT_CSR PCBA temperature of <math>350^{\circ}\text{C} \pm 10^{\circ}\text{C}</math>, not too high or too low.</li><li>3. Welding BT_CSR PCBA requires a clearance and avoid short circuit.</li><li>4. Shielding Case not skew or subsidence short circuit.</li></ol>
	
<p>Requires a clearance, Avoid short circuit</p> 	

# Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

## **IMPORTANT NOTE:**

### **FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

## **LABEL OF THE END PRODUCT:**

The final end product must be labeled in a visible area with the following " Contains TX FCC ID: SBC-RM3030 ".

This module will be used for OEM, ODM and own-brand products which are designed, manufactured, supplied, sold, marketed and served by PC Worth Int'l Co., Ltd. - CINO Group who has full control over the final integration and can assure the compliance of those devices and equipment.