

Bluetooth Class 2 Module

(BT-1010)

USER GUIDE

DEPARTMENT: WIRELESS BU
COMPANY: J-3 INTERNATIONAL HOLDING
DATE: 05-01-03
VERSION: 1.0

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■ FCC STATEMENT

This device 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. If not installed and used in accordance with the instructions, it may 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 and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to 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 Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

■ Information to user

The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

I. FEATURES

- Bluetooth Plug-n-play class 2 module.
- Small Dimension (15mmx23mmx4mm)
- Fully compliant to Bluetooth V1.1 standard
- High sensitivity (typical -80 dBm)

II. APPLICATION

- Personal digital assistants
- Laptop computers
- Bluetooth devices
- Bluetooth enabled consumer appliances.

III. Description

BT-1010 Bluetooth class 2 module is a short-range radio transceiver operating in the unlicensed 2.4 GHz ISM band. BT-1010 fully complies with Bluetooth V 1.1 standard, and it is usually applied in design-in scenarios to provide Bluetooth capabilities. Currently, BT-1010 has been applied in the design of Bluetooth mouse, Bluetooth keyboard, Bluetooth access point, and personal digital assistant (PDA).

I. GENERAL SPECIFICATIONS

Product Description	Bluetooth Class 2 Module
Product Model No.	BT-1010
Standard	Bluetooth V1.1
Frequency Band	2.400GHz ~ 2.480GHz unlicensed ISM band
Spread Spectrum	FHSS (Frequency Hopping Spread Spectrum)
Modulation method	GFSK (Gaussian Frequency Shift Keying)
RF output power	Class II, -6 dBm ~ 4 dBm
Working distance	Max. 10 m in free space
Sensitivity	< 0.1% BER at -80dBm
Power consumption	Tx Typical : 65 mA Rx Typical : 45 mA

II. MECHANICAL SPECIFICATIONS

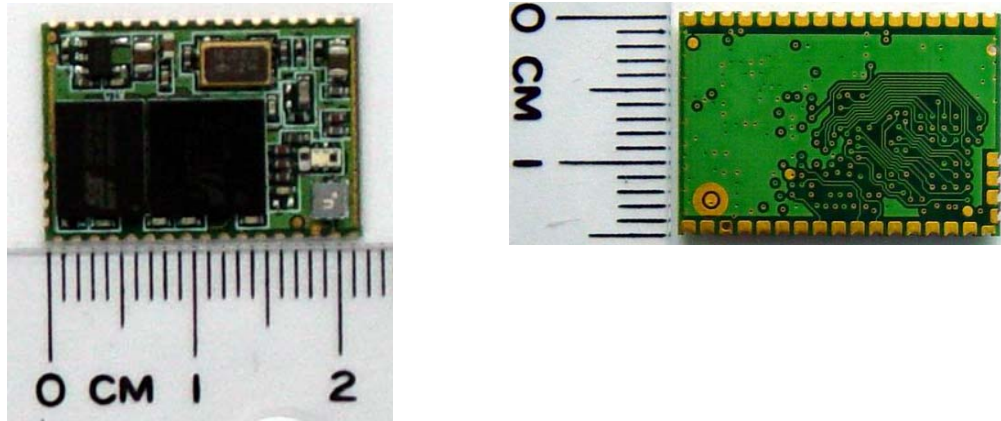


Figure 1: BT-1010 Picture

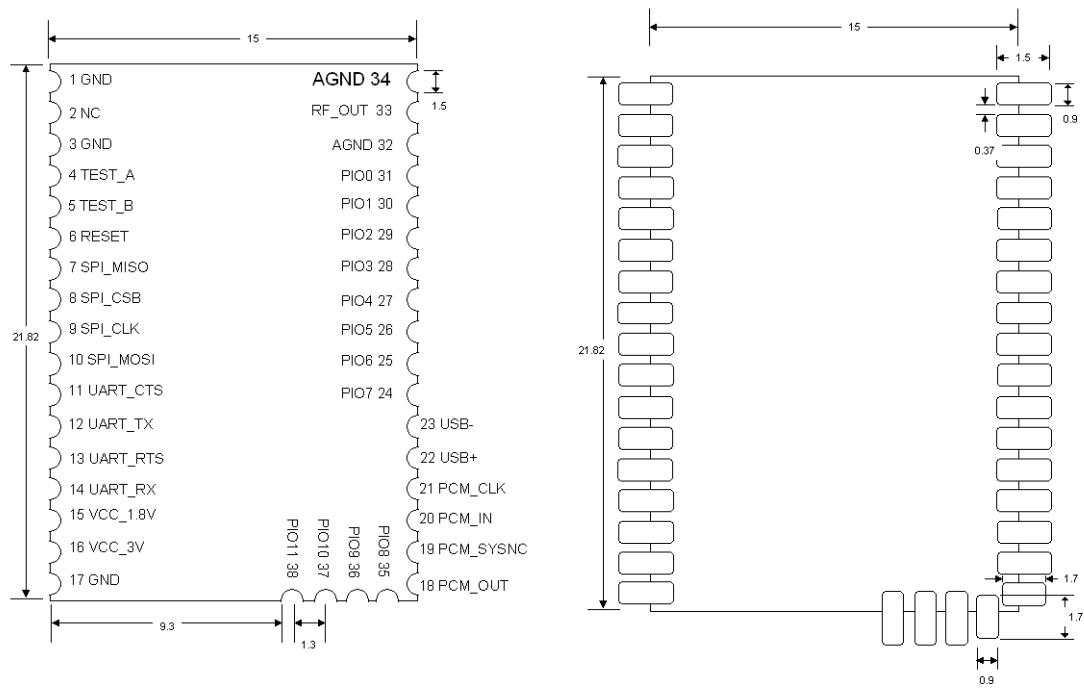


Figure 2: Pad Dimension and Pin Assignment

III. Electrical Characteristics

Absolute Extreme Ratings		
Supply Voltage		Unit
Max.	3.5	V
Typical	3.3	V
Min.	2.8	V
Storage Temperature		Unit
Max.	85	°C
Min	-40	°C

Recommended Operation Conditions		
Supply Voltage		Unit
Max.	3.5	V
Typical	3.3	V
Min.	2.8	V
Max. Operating Temperature	70	oC
Min. Operating Temperature	0	oC