

PHIHONG TECHNOLOGY CO., LTD.

RF MODULE

User Manual

MODEL : RCA-RFM(BL)-R

ISSUED : 2013 / 10 / 03

1. Characteristics

1.1 Recommended operating conditions

1.1.1 Operating temperature: $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$

1.2 Electrical characteristics

1.2.1 DC input Power: 5~12Vdc

1.2.2 Operating input W : below 0.4W

1.2.3 RF 2.4GHz : Antenna Gain• 10.40dBi

RF Frequency	2.405GHz (VB = 3.0V)
Data rate	500bps FSK or GFSK (VB = 3.0V)
Range	10m

1.2.4 Working distance (VB = 3.0V)

Working distance should be up to 10 meters when remote control transmitter directly faces the receiver.

1.2.5 The dimming range is from 0% to 100% smoothly through software control.

1.2.6 Each driver contains a hardware ID and a group ID.

1.2.7 The hardware ID is a random value of 1 ~ 255, while the group ID is an initial value of 1(the range of group ID is 1 ~ 6).

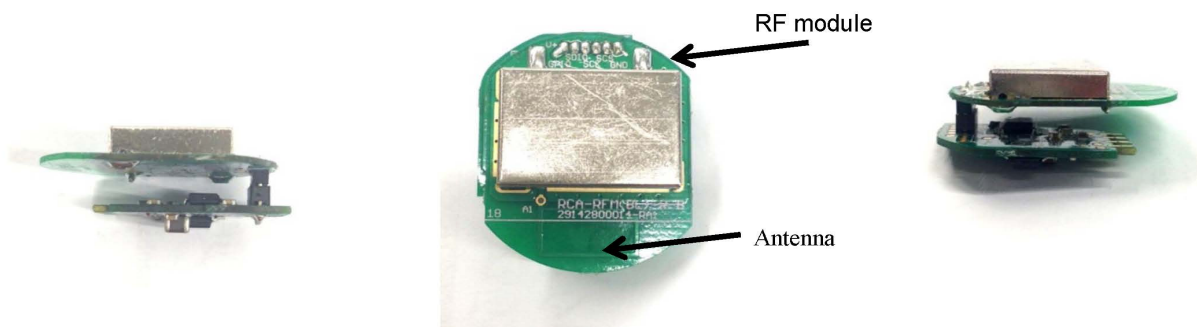


Figure1. Top, front and side views of RF module

WARNINGS :

Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the 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.**

Information To Be Supplied to the End User by the OEM or Integrator The following regulatory and safety notices must be published in documentation supplied to the end user of the product or system incorporating an adapter in compliance with local regulations.

For a host using a certified modular with a standard fixed label, if (1) the module's FCC ID is not visible when installed in the host, or (2) if the host is marketed so that end users do not have straight forward commonly used methods for access to remove the module so that the FCC ID of the module is visible; then an additional permanent label referring to the enclosed module:

“Contains Transmitter Module FCC ID: 2AARNRCARFMBL

” or “Contains FCC ID: 2AARNRCARFMBL” must be used. The host OEM user manual must also contain clear instructions on how end users can find and/or access the module and the FCC ID.

For a Class B digital device

NOTE: 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.**