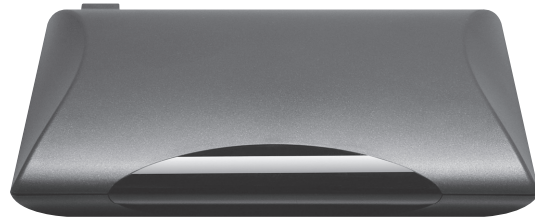


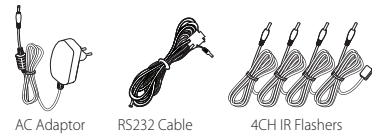
## User's Guide

- Application : RF to IR, RS232
- Power : AC100~240V, 50/60Hz
- Dimension : 130(W)×100(H)×27(D)mm



### RF Transceiver Unit

CE 0678 FCC ID TX4RH55K RS232 Zigbee



AC Adaptor RS232 Cable 4CH IR Flashers

## WARNING!

### FCC Warning

#### NOTE:

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 technical for help.
- Only shielded interface cable should be used.

Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users' authority to operate such equipment.

### CE Warning

! Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

EN Test Regulation Version.  
ETSI EN 300 328 V1.7.1(2006-10)  
ETSI EN 301 489-1 V1.6.1:2005  
ETSI EN 301 489-17 V1.4.1:2004

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## USER'S GUIDE

### USER'S INFORMATION

#### General Information

IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION READ THIS INFORMATION BEFORE USING THIS PRODUCT.

### NOTICE

#### Section 15.19 Labelling requirements.

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.

#### Section 15.21 Information to user.

The changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### IMPORTANT NOTE:

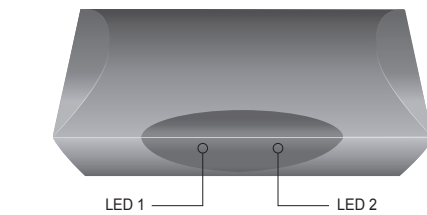
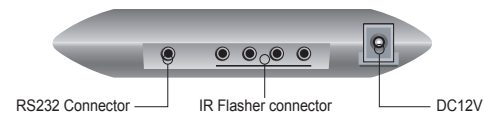
To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

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## 1. Product Package

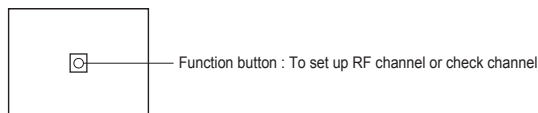
### 1-1. RF Receiver & IR Converter (Optional)

- Adaptor Specs : DC 12V, 500mA
- Receives RF signals from the main remote control and converts them to IR or RS232 signals.



- **LED 1** : Turns on when it is in RX mode (Turns on when Power is supplied)
- **LED 2** : Flashes when receive RF signal and output IR or RS232 signals.

### 1-2. Button at the Bottom of the Relay



Function button : To set up RF channel or check channel

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## 2. OPERATING SET-UP

### 2-1. Channel setting & current channel reading in Receiver

- 2-1-1. After 5 sec. once power is supplied, LED1 and LED2 on receiver flash and indicate firmware version.
- 2-1-2. To check the current channel, press and release function button one time. LEDs turn off temporarily. And then indicate the current channel by the flash of LED1 and LED2 (Ex : A=10, B=11, ...)  
LED1: Ten figures  
LED2: One figure  
0: flash quickly 10 times  
1~9: Flash slowly to indicate digit.  
The initial channel is set up as "0".  
Once indicating channel is completed, LED1 turns on.
- 2-1-3. To change channel, press function button for 2 sec. After all LEDs on receiver turn off, next channel is set up. Channel set up newly is indicated as 2-1-2) method.
- 2-1-4. RF channels are from 0 to F(15). Channel is set up by increasing one by one through 2-1-3) step.  
# This setup is also available by using PC manager program.

### 3. Specification and features

#### 3-1. RF Frequency Range

- 2400 ~ 2483.5 MHz

Ch11: 2405MHz	Ch17: 2435MHz	Ch23: 2465MHz
Ch12: 2410MHz	Ch18: 2440MHz	Ch24: 2470MHz
Ch13: 2415MHz	Ch19: 2445MHz	Ch25: 2475MHz
Ch14: 2420MHz	Ch20: 2450MHz	Ch26: 2480MHz
Ch15: 2425MHz	Ch21: 2455MHz	(16Channel, Fc)
Ch16: 2430MHz	Ch22: 2460MHz	

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### 3-2. Use distance

- IR Blaster : 1meter
- IR Flashers : 5cm
- RF : 20meters (Depending on operating condition, distance can be changed)

### 3-3. RS232

- Speed : 2,400 ~ 115,200 bps
- Interface : Tx, Rx and GND
- Cable Adapter : Male DB9 to Stereo Plug (Need to purchase a converter for PC Firmware upgrade)

### 3-4. Operating temperature : 0°C ~ +35°C

### 3-5. Humidity : 0% ~ 90%

### 3-6. Power : DC12V, Max 1.0A

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