

1. DESCRIPTION:

The keyboard remote control, model KWR600001/01 consists of remote control keys and keyboard keys.

The product use infrared and radio frequency. The infrared used by remote control keys for infrared devices and radio frequency used by keyboard keys as input device of internet TV.

There is a RF module interface as the main circuit. It is a FSK modulation type and the carrier frequency is 2.402GHz ~ 2.480GHz.

This remote control is a portable device designed to work with the internet TV (connect to internet) and infrared devices that connect to TV as auxiliary devices.

It is an infrared universal remote control that able to program and control other devices like Set Top Box or DVD player.

The product operated by 2 pieces of alkaline AA batteries.

2. FUNCTION:

By default after shipped by factory, once insert battery, the product will performance searching (through RF module) to pair with target devices.

During this period, pressing any button on the product (except keyboard key) will activate the product transmit infrared code.

After pairing with TV, the keyboard function will be activated and remote key will able to transmit RF code instead of infrared code when a remote control key is pressed.

After pairing with TV, if there is not any key pressed, the RF module will activate the product goes into sleep mode and wakes up upon a key pressed.

The KWR600001/01 transmits either IR or RF depends on the setting. It will not transmit IR and RF together.

The RF module will perform key scanning function once there is a key pressed. It will determine either keyboard or remote control key. If the key press is from keyboard key, the RF module will modulate data signal in envelope form with carrier frequency. The modulated signal will be transmitted to target device via the antenna.

Likewise, if the key press is from remote control key, the RF module will module and transmit to target device via the antenna if pairing is done. Otherwise, the RF module will activate the infrared module to modulate the infrared signal with infrared carrier. The modulated infrared signal will transmit to target device via infrared LED.

3. SPECIFICATION

For infrared mode, the carrier frequency of infrared: 36kHz ~ 38kHz.

For radio frequency mode, the carrier frequency: 2402MHz ~ 2480MHz.

Operating voltage: DC 3.4 volts ~ 2.4 volts. (2 X AA alkaline battery)

Modulation Type: FSK