MhomeElectronic PK-305 Module PCB User Manual

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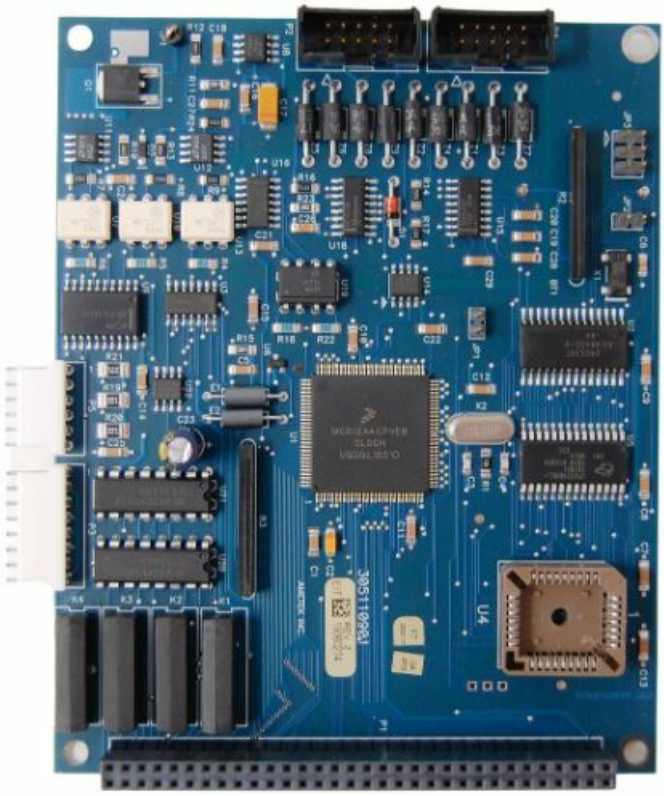


Product Information

The PK-305 Module is a communication module that operates on a frequency of 433.92MHz ISM RF. The module contains the necessary circuitry for wireless communication. The module is equipped with a PCB antenna, connected through an F-type connector on the PCBA. The module requires a 3V power supply.

The module features three sets of buttons and LED indicators. Each set consists of an ON button, an OFF button, and a LED diode. The LED diode indicates the status of signal transmission. When the LED diode is off, no signal is being transmitted. When the LED diode turns red, a signal is being transmitted.

Product Usage Instructions

To use the PK-305 Module, follow these steps:

1. Identify the desired function or device you want to control using the module.
2. Locate the corresponding ON and OFF buttons on the module.
3. To turn on the function or device, press the ON button associated with it. This will send a signal to activate the function.
4. To turn off the function or device, press the OFF button associated with it. This will send a signal to deactivate the function.

Note: The LED diode will indicate the status of signal transmission. If the LED diode is off, no signal is being transmitted. If the LED diode turns red, it means a signal is being transmitted.

Module

- PK-305 Module
- 433.92Mhz

- Manual and spec revison1.0

Reference Documents

1. MRF212D IC product specification
2. PK-305 Module schematic
3. PMN:433.92MHz Modular

Description

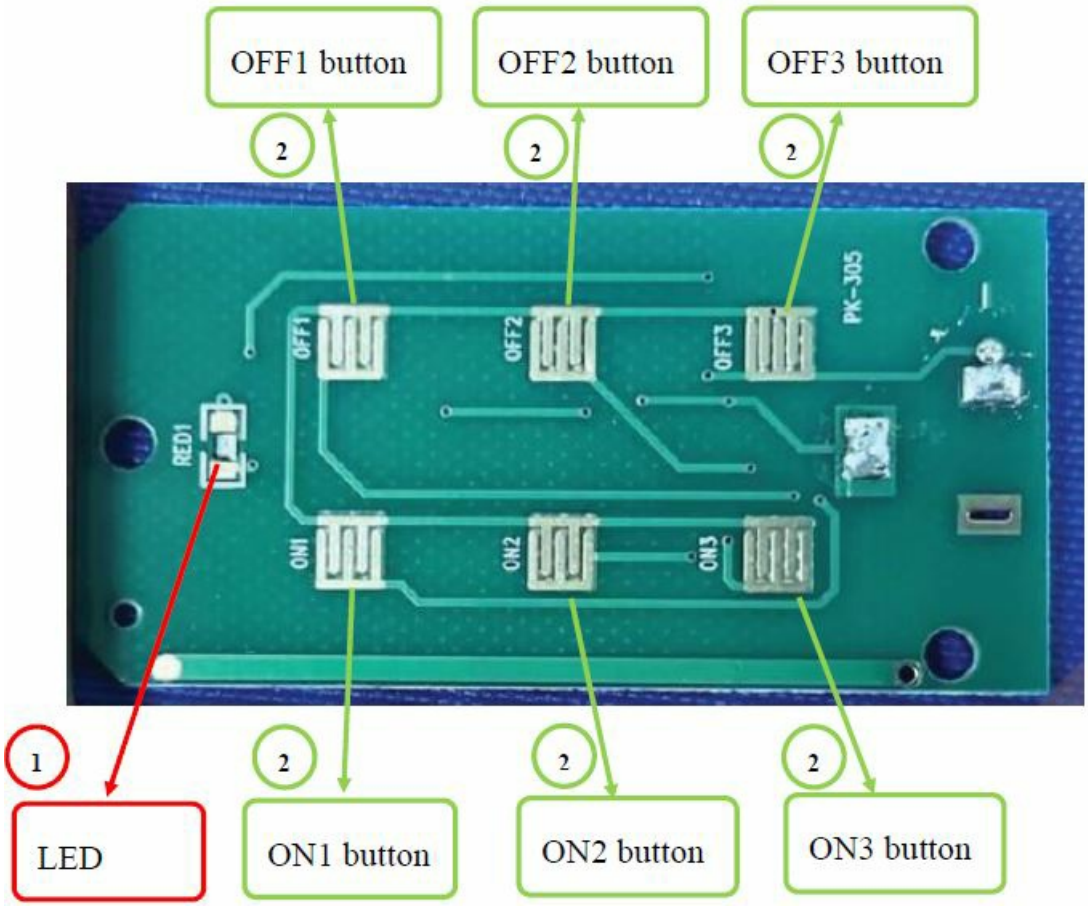
PK-305 Module PCB Assembly is an i/o board used in the family of REMOTE POWER SWITCH PRODUCTS,The board has RF+MCU POWER circuit OSC circuit RESET circuit and wireless module.

CIRCUIT DESCRIPTION

Referring to the block diagram there are four main sections of circuit:

1. MRF212D IC MCU CIRCUIT
2. CLOCK CIRCUIT
3. ANTENNA CIRCUIT
4. RESET CIRCUIT

- Communication with the PK-305 Module is accomplished through two side PCB PADS, the 433.92Mhz ISM RF circuitry is contained on the module. Device radio output from the module connects to an F-type PCB antenna on the PCBA.
- The PK-305 Module operates from 3v supply soure on the main



LED diode

- LED diode OFF – No signal is transmitted.
- LED diode RED – Transmit a signal

Button

- Press the ON1 button to send the signal to turn on the function.
- Press the OFF1 button to send and turn off the signal function.
- Press the ON2 button to send the signal to turn on the function.
- Press the OFF2 button to send and turn off the signal function.
- Press the ON3 button to send the signal to turn on the function.
- Press the OFF3 button to send and turn off the signal function.

FCC Statement

FCC& ISDE Statement

This device complies with Part 15 of the FCC Rules and with Industry Canada licence-exempt RSS standard(s).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.

Changes or modifications to this unit not expressly approved by the party responsible forcompliance could void the user's authority to operate the equipment.
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 reasonableprotection 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 withthe instructions, may cause harmful interference to radio communications. However, there is noguarantee that interference will not occur in a particular installation. If this equipment doescause harmful interference to radio or television reception, which can be determined by turningthe equipment off and on, the user is encouraged to try to correct the interference by one ormore of the following measures:

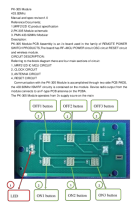
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

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

Radiation Exposure Statement for camera
This equipment should be installed and operated with minimum distance 0cm between the radiator & your body.

Documents / Resources

	MhomeElectronic PK-305 Module PCB [pdf] User Manual 433, 2AM2X-433, 2AM2X433, PK-305, PK-305 Module PCB, Module PCB, PCB