1, 2, 3 & 4CH-SRX Remote Control Receiver

The 1, 2, 3 & 4CH-SRX RF remote control receiver is designed for AM or FM operation with FM being the preferred choice for increased range and improved noise immunity. The SRX series provide a highly versatile system suitable for many different applications. Each output provides a normally open or a normally closed relay contact, which will be either pulsed or latched on upon reception of a valid address and correct channel address. These receiver subassemblies are designed for use with the 1&2CH-REML-xxx, 1&2CH-REM-xxx, 1-6CH-TXM and the WCTL-TX remote control transmitters.

Receiver Features

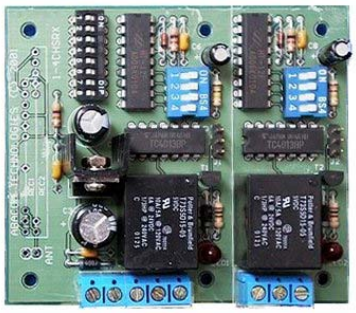
- **256 unique address combinations**
- **Latch or Pulse relay outputs**
- **Wide supply range: 7.5Vdc-15Vdc**
- **Individual channel selection**
- **Customizable pulse timing**
- **Available in 1,2,3,4 channels**
- **Channel status LED's**
- **NO/NC 10amp relay contacts**
- **AM or FM options**
- **Available on 418MHZ and 433MHz for AM and on 433MHz, 868MHz and 915MHz for FM**
- **Reverse polarity protected**
- **The 4CH-SRX includes expansion port for additional channels**

Typical Applications

- **Remote control**
- **Security systems**
- **Smoke / fire alarm systems**

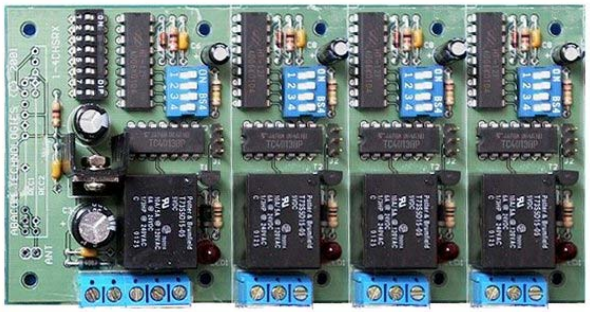
1 Channel

2 Channels

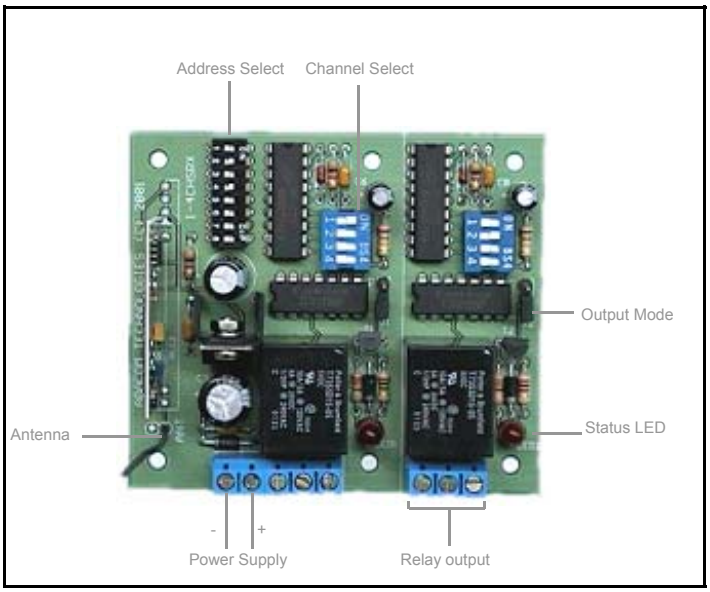


3 Channels

4 Channels (expandable to 8)



ABACOM Technologies, Inc. • 383 Bering Ave • Etobicoke • ON • M8Z 3B1 • Tel +1(416)236-3858 • Fax +1(416)236-8866
www.abacom-tech.com



System Configuration

The system is supplied pre-configured and therefore reconfiguration may only be necessary to suite the user's preferences.

The 8 position address DIP switch on the transmitter and receiver must be configured the same to establish a link. One of up to 256 unique settings may be selected.

The 4 position channel select DIP switch is configured to match the code associated with the transmitter key switch. For example, the codes used with the 2CH-REML-xxx transmitter are:

Receiver Channel DIP Switch	Transmitter Key Switch 1	Transmitter Key Switch 2
1	ON	OFF
2	OFF	ON
3	OFF	OFF
4	OFF	OFF

Note: The 4 position DIP switch on the transmitter is intended for specialized functions when used with the 4channel receiver modules. The default positions are all OFF. Changing these positions will change the code associated each key would therefore will need to match the channel select DIP switches on the receiver. The above table is valid only for the default setting of all positions in the OFF state.

Power Supply Connection

The single channel receiver draws approximately 110mA when the channel is energized. Each additional energized channel will draw an extra 90mA. Therefore, for 1CH-SRX use a power supply rated for at least 150mA. This will also suite the 2,3, and 4CH-SRX where only one channel is to be energized at any given time. If more than one channel will energized then the power supply current rating must be increase by at least 100mA per channel. For example for the 4CH-SRX with all channels energized, the power supply should be rated for at least 450mA. The supply voltage of the power supply may be in the range of 7.5Vdc to 15Vdc.

This may typically be a wall adaptor or battery. The supply polarity should be observed and connected according to the labeled image. The polarity of the power supply terminals is also labeled on the solder side of the receiver printed circuit board.

Relay output Connection:

Each relay has three terminals: Normally Open (NO), Normally Closed (NC) and Common (COM) and are designated on the solder side of the circuit board. The relay contacts are capable of switching current up to 5A . With the receiver channel in its quiescent state—relay off, LED off— the NC and COM terminals will be connected to each other and the NO and COM terminals will be open. With the receiver channel energized—relay ON, LED ON—the NO and COM terminals will be connected to each other and the NC and COM will be open. Based on this operation, the connection to external device will depend on the application.

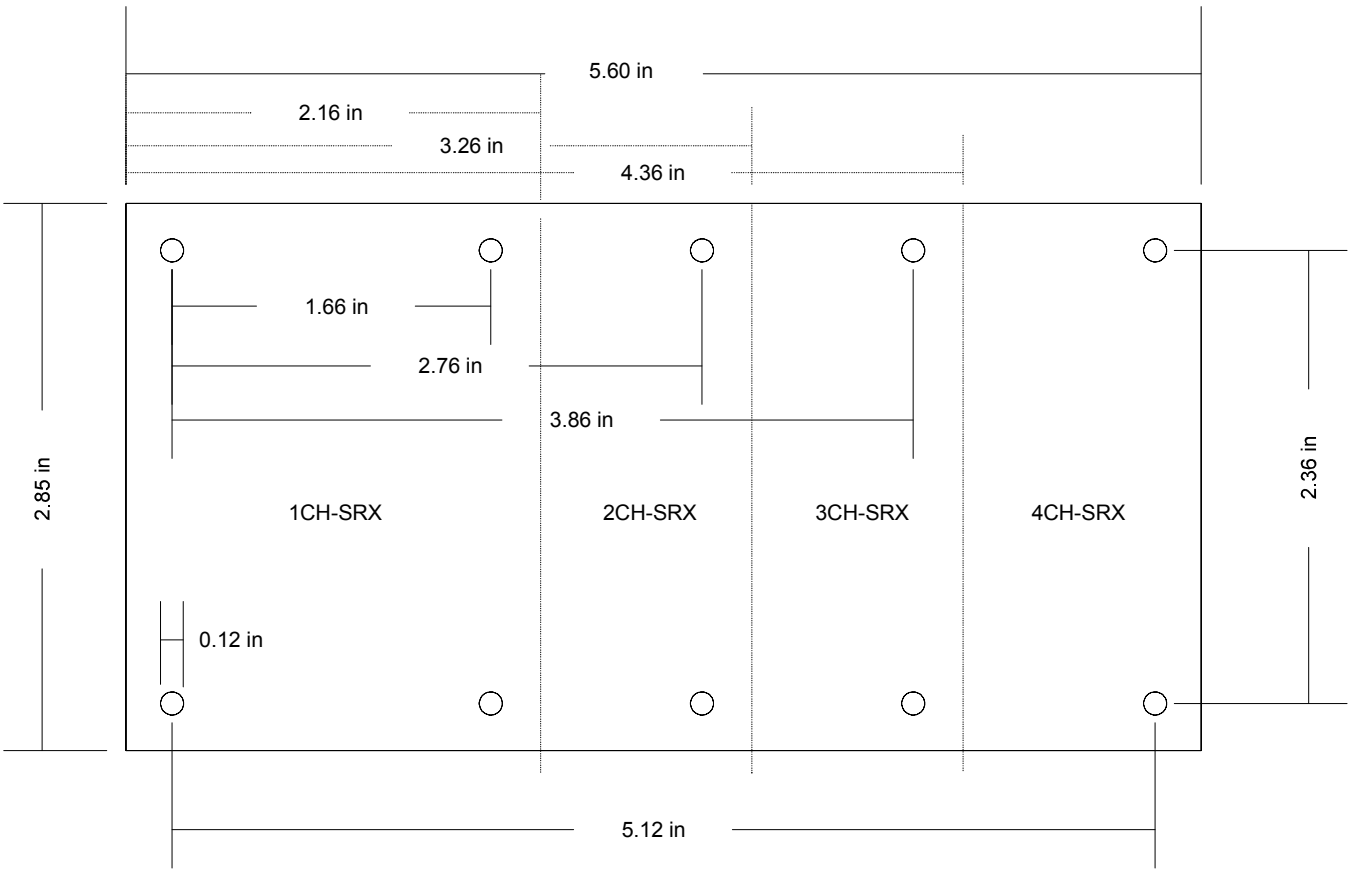
Latched Mode / Pulsed Mode Configuration

Each channel may be independently configured to operate is latched mode or pulsed mode by positioning of the mode jumper.

Latched mode: Upon momentary activation of the associated transmitter key, the channel output relay will energize, and remain energized until the next momentary activation of the transmitter, at which time the associated relay will de-energize.

Pulsed Mode: Upon momentary activation of the associated transmitter key, the channel output relay will energize briefly (0.5sec) and then de-energize automatically. If the transmitter is held down, the relay will remain energized until 0.5s after the key is released.

1,2,3 and 4CH-SRX Mechanical Dimensions



Module Height: 0.9”