



16CHTX-xxx-FM/AM 16 Channel RF Remote Control

Description

The 16CHTX AM or FM remote control transmitter features sixteen tactile feedback pushbuttons. Up to 256 unique DIP switch configurable address settings allow for multiple units to operate within the same environment and provide the necessary coding required for reliable operation with the companion RF remote control receivers.

The 16CHTX is compatible with the 16CHRX, as well as the 1,2,3 and 4CH-SRX and 10R8D remote control receiver subassemblies. When used these receiver boards, up to sixteen independent remote control operations may be performed.

To provide for applications that require connection to external switches or dry contacts, the 16CHTX is available in a version that excludes the keyboard section, is shorter in length with the eliminated keyboard and includes a 16x2 pin header located at the bottom right hand edge of the board.

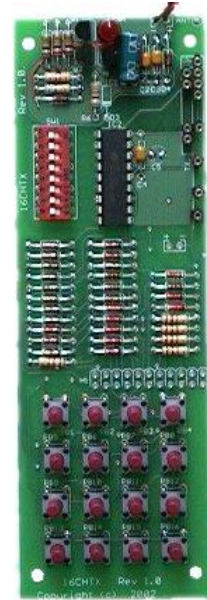
Features

- 433.92MHz, AM or FM options
- 16 Key keyboard
- Tactile Feedback pushbuttons
- 7.5V-16V operation
- Off in standby, 12mA typical during transmit
- 16x2 pin header for external switch connection
- Transmit StatusLED
- 256 Address codes
- Compatible with 16CHRX and 1,2,3,4, and 8CH-SRX receivers
- Compatible with the 10R8D 10 relay plus 8 digital receiver
- Typical range up to 500ft (FM models)
- PCB size: 45.78mm(1.8in.) x 139,75mm (5.5in.)

Enclosure Option

The 16CHTX is supplied as printed circuit board subassembly or housed in an black ABS plastic handheld enclosure with a lexan graphic overlay.

We offer a custom graphic overlay service to cater for OEM customers specific requirements.



The 16CHTX transmitter complete with enclosure and custom overlay

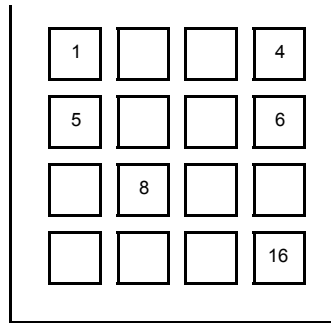


Operation

Set the 8 position DIP switch to a configuration of choice. The configuration must be set to match that of the receiver. This sets the system address and provides a high level of security. It is not recommended to use a configuration where all the switches are ON or all OFF.

The 16CHTX transmitter module will accept dc power supplies of between 7.5Vdc and 15Vdc. It is suitable for battery operation or dc adaptor operation.

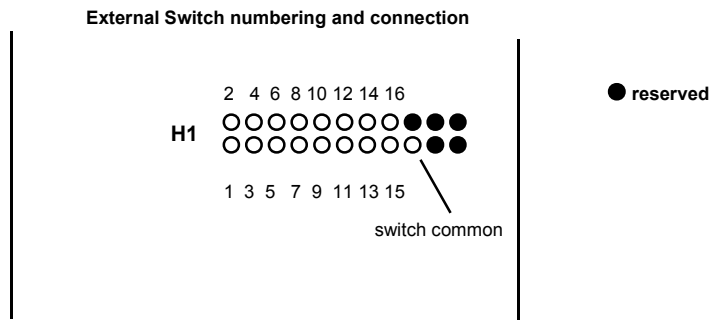
The tactile channel switches are numbered from left to right to correspond with the 16CHRX remote control receiver. Pressing one of the keys will transmit its associated code to the receiver which in turn will activate the relevant output.



Keyboard channel numbering

Keyboard Header

The 16CHTX transmitter includes a header for applications that require connection to external switches or dry contacts. The header pads are connected in parallel to the keyboard so that either the external switches or dry contacts may be used alternatively to the keyboard. The one pole of all external switches or dry contacts connect to the switch common pad. The 16 remaining contacts connect to H1 pads 1 through 16.



Switch Code Generation:

The following table lists the associated switch code generated with each key press of the transmitter. This code may be used to set up the SRX series receiver so that the receiver output will respond to a particular switch on the 16CHTX transmitter.

For example, if you required switch # 4 on the 16CHTX to switch a chosen channel on the SRX series receivers, you would configure that receiver channel's 4 position DIP switch to :

DIP SWITCH 1.....ON

DIP SWITCH 2.....ON

DIP SWITCH 3.....OFF

DIP SWITCH 4.....OFF

16CHTX Switch #	SRX Receiver 4 Position DIP Switch Settings			
	Switch 1	Switch 2	Switch 3	Switch 4
1	ON	ON	ON	ON
2	ON	ON	ON	OFF
3	ON	ON	OFF	ON
4	ON	ON	OFF	OFF
5	ON	OFF	ON	ON
6	ON	OFF	ON	OFF
7	ON	OFF	OFF	ON
8	ON	OFF	OFF	OFF
9	OFF	ON	ON	ON
10	OFF	ON	ON	OFF
11	OFF	ON	OFF	ON
12	OFF	ON	OFF	OFF
13	OFF	OFF	ON	ON
14	OFF	OFF	ON	OFF
15	OFF	OFF	OFF	ON
16	OFF	OFF	OFF	OFF

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