

UHF Narrowband Telecommand Module

CDT-TX-02M-R, CDT-RX-02M-R

CDT-TX-02M-R and CDT-RX-02M-R are telecommand transmitter and receiver which are specially designed for switching signal transmission. The RF channel is fixed but selectable from 4 preprogrammed channels. In addition to the RF part, the module includes MSK modem and Photo MOS relays (RX) in its robust metal housing.

A handy transmitter can be easily made only by connecting a switching board to the CDT-TX-02M-R.

Features

- 6 switch inputs and outputs
- Standby mode in TX
- 4 operation modes in RX
- Low voltage and consumption current
- MSK modem equipped
- Long range control
- RED EN 300 220

Applications

- Remote control for motor operated shutter blinds, garage doors, gates etc.
- Industrial remote control
- Security / Alarms
- Paging system



General

Parameter	Specification	Remarks
Applicable standard	EN 300 220	
Communication method	One way	MSK 1,200 bps
Emission type	F2D (Sub-carrier MSK)	
Communication range	500 to 1,000 m	Line-of-sight
Number of RF channels	4	Adjust using DIP switches
Frequency*	434.075 / 433.920 / 434.600 / 434.700 MHz	
Operating temperature	-20 to +60 °C	No dew condensation

CDT-TX-02M-R
(Transmitter)

Parameter	Specification	Remarks
Transmitter type	PLL controlled VCO	
RF output power	10 mW	
Supply voltage	2.2 to 12 V (Max. rating 14.5 V)	
Supply current	TX: 27 mA, Stand-by: 1 uA	
Inputs	6 Switch inputs	Negative logic
Antenna	1/4 lambda whip antenna	
Dimensions	36 x 26 x 8 mm	Excluding protrusion
Weight	15 g	

CDT-RX-02M-R
(Receiver)

Parameter	Specification	Remarks
Sensitivity	-120 dBm	BER 1%
Supply voltage	3.0 to 12 V (Max. rating 14.5 V)	
Supply current	6-outputs Off: 16 mA, On: 50 mA	
Operation mode	One-shot, Toggle, Keying, Continuous	Set by 3 input ports
Outputs	6-photo MOS relay outputs	
Output relay	Max switching voltage and current, 48 V 100 mA	
Antenna	1/4 lambda whip antenna	
Dimensions	53 x 35 x 12 mm	Excluding protrusion
Weight	35 g	

Specifications are subject to change without prior notice

*Other frequency: Please contact Circuit Design, Inc.