

# UHF Narrow Band Transmitter / Receiver

## CDP-TX-07M, CDP-RX-07M 434MHz

CDP-TX-07M and CDP-RX-07M are low power narrow band FSK transmitter and receiver modules, designed for industrial applications operating in the 434 MHz ISM band. The modules contain most of the components necessary for radio transmission in compact housing. The RF channel is fixed but selectable from 4 preprogrammed channels. The receiver is double-superheterodyne and equipped with a SAW filter, ensuring high sensitivity and very good selectivity for stable and long range communication. The frequency table can be customized according to the customer's requirement. Please contact Circuit Design.

### Features

- Low power narrow band FSK with 25kHz channel spacing
- 4 preprogrammed RF channels
- Low voltage operation
- High receiver sensitivity for long range applications with 600m or more at line of sight
- High reliability for industrial applications
- Robust metal housing, high selectivity and shock resistance
- Compact Size
- RSSI (Received Signal Strength) output terminal
- RED EN 300 220 / RoHs

### Applications

- Industrial remote control
- Security / Alarms
- Telemetry / Monitoring systems
- Tracking systems



### General

Parameter	Specification
Applicable standard	EN 300 220
Communication form	One way
Modulation / Demodulation	FM narrow / FSK
Number of RF channels	4
Frequency (Ch 3) *1	434.0750
(Ch 2)	433.9200
(Ch 1)	434.6000
(Ch 0)	434.7000
Data rate	100 - 4,800 bps
Frequency stability	+/- 2.5 kHz
Operating temp. range (degree C)	-20 to +65

\*1 Factory default frequency channel setting

### CDP-TX-07M (Transmitter)

Parameter	Specification
RF output power	10 mW
Transmitter start up	< 20 ms
Deviation	+/- 3 kHz
Supply voltage	2.2 to 5.5 V
Supply current at 3.0 V	20 mA
Dimension	22 x 12 x 4.5 mm
Weight	3 g
Data in	H=Vcc L=0V

### CDP-RX-07M (Receiver)

Parameter	Specification
Receiver type	Double superheterodyne
Receiver Category	1
IF frequency	21.7 MHz / 450 kHz
Sensitivity (12dB/SINAD) (BER<0.1%)	-120 dBm
Supply voltage	3 to 14 V
Supply current at 3V	23 mA typ.
Dimension	36 x 26 x 8 mm
Weight	13 g

Specifications are subject to change without prior notice