

## UHF Narrow Band Single Channel Transmitter/Receiver **CDP-TX-01 / CDP-RX-01S**

The crystal-controlled single frequency radio data module CDP-TX-01 (transmitter) and CDP-RX-01S (receiver) are suitable for various application fields, such as wireless data communication, remote control, telemetry or wireless security systems.

The small size and low power consumption of the CDP-01 make it ideal for mobile applications where its interference resistance and effective range are far superior to that of similar RF modules based on wide band SAW-resonator frequency generators.

### Feature

- European I-ETS 300 220 compliance
- Very small compact integrated device with robust metal housing
- Low current consumption
- FM narrow band modulation and high frequency stability
- High sensitivity 300m range

### Application

- Remote control systems
- Security systems
- Alarms
- Telemetry systems



### Common

Item	Specification
Communication form	One way
Oscillation system	Crystal
Frequency range	433.920MHz, 434.075MHz
Number of RF channels	Single (fixed)
Frequency stability	+/-2.5kHz (-10 to +55 degree C)
Baud rate	300 to 4800bps
Operating temp. range	-10 - +60 degrees C

### CDP-TX-01 (Transmitter)

Transmitter type	Fixed channel
RF output power	10mW +0,-3dB at 50ohm
Transmitter start up time	10msec
Modulation	FM Narrow
Data input level	5V
Input signal	Digital
Deviation	2.5kHz
Spurious emission	<-60dBm (<1GHz)
Adjacent channel power	<200nW
Supply voltage	5.5 - 10V
Supply current	18mA (typ.)
Dimensions	36 X 26 X 10 mm
Weight	9.8g

### CDP-RX-01S (Receiver)

Receiver type	Double Superheterodyne fixed channel
Sensitivity	-120dBm (12dB/SINAD at CCITT filter)
Selectivity	+/-5kHz at -6dB point
Demodulation	FM Narrow
Distortion	< 5% at 1kHz
S/N ratio	50dB overall (AF out)
Data output	Digital
Supply Voltage	4.5 to 14V DC
Supply current	10mA (typ)
Dimensions	50 X 30 X 7.5mm
Weight	19g

Specifications are subject to change without prior notice