



## UHF Narrow Band Multi Channel Transmitter/Receiver

## CDP-TX-02NP / CDP-RX-02NP 433MHz

The unique and compact CDP-02NP is a frequency selectable radio data module for 434MHz UHF band. Both CDP-TX-02NP (transmitter) and CDP-RX-02NP (receiver) are equipped by frequency synthesizer system with microprocessor. Frequency range is from 433.875MHz to 434.650MHz in 32 channels which are selectable by

Small size, low voltage operation and frequency selectability of CDP-02NP make it ideal for various applications in sites where many radio transmitters are operated.

- 32 frequency synthesized RF channels
- 5mW/10mW selectable
- Low voltage operation
- High sensitivity receiver
- FM narrow band modulation and high frequency stability
- EN 300 220, EN301 489 compliance

## **Application**

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



Common	Item	Specification	
	Communication form	One way	
	Oscillation system	PLL controlled VCO	
	Frequency range	433.875MHz to 434.650MHz	
	Number of RF channels	32 ch	
	Channel step	25kHz	
	Frequency stability	+/-2.5kHz (-10 to +55 degree C)	
	Baud rate	300 to 4800bps	
	Operating temp, range	-10 to +60 degree C	

CDP-TX-02NP
(Transmitter)

Transmitter type	PLL synthesizer
RF output power	10mW/5mW
Transmitter start up time	80msec
Modulation	FM Narrow
Data input level	2.2 - 12V
Input signal	Digital
Deviation	2.0kHz
Spurious emission	<-60dBm (< 862MHz) , <-46dBm (>= 862MHz)
Adjacent channel power	<200nW
Supply voltage	2.4 - 10V DC
Supply current	30mA (typ)
Dimensions	36 X 26 X 10 mm
Weight	12.5g

CDP-RX-02NP (Receiver)

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Receiver type	Double Superheterodyne PLL synthesizer
Sensitivity	-120dBm (12dB/SINAD at CCITT filter)
Selectivity	+/-7.5kHz at -6dB point
Demodulation	FM Narrow
Distortion	<3% at 1kHz
S/N ratio	35dB overall (AF out)
Data output	Digital
Supply Voltage	3.6 to 12V DC
Supply current	26mA (typ)
Dimensions	50 X 30 X 9mm
Weight	19g

Specifications are subject to change without prior notice

