



UHF Narrow Band Multi Channel Transmitter/Receiver

CDP-TX-02N / CDP-RX-02N 433MHz

The unique and compact CDP-02N is a frequency selectable radio data module for 434MHz UHF band. Both CDP-TX-02N (transmitter) and CDP-RX-02N (receiver) are equipped by frequency synthesizer system with microprocessor. Frequency range of CDP-02N is from 433.875MHz to 434.650MHz in 32 channels which are selectable by the use of an onboard 4 bits switch.

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

Feature

- 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



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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
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CDP-TX-02N (Transmitter)	Transmitter type	PLL synthesizer
	RF output power	10mW/5mW
	Transmitter start up time	80msec

CDP-TX-02N (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 - 12V DC
	Supply current	30mA (typ)
	Dimensions	36 X 26 X 10 mm
	Weight	12.5g

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CDP-RX-02N (Receiver)	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

Specifications are subject to change without prior notice



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Weight

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