## CIRQUIT DESIGN, INC.

## **UHF Narrow Band Multi Channel Transceiver** STD-402TR

The UHF FM-narrow band semi-duplex radio data module STD-402 equipped PLL controller in its robust metal housing. Unlike other transceivers, the STD-402 is ready to transmit RF data without complicated controller board. The compact size and low power consumption of the STD-402 make it ideal for battery operated applications where its interference rejection and practical distance range are much better than similar RF modules based on wide band SAW-resonator frequency devices.

Most of RF setting are done by internal microcomputer, which allows you to manipulate the module without professional knowledge of RF circuit.

## Feature

- EN 300 220 / EN 301 489 compliance
- High technology into compact module for easy operation
- Low voltage operation from 3.6 V DC
- Low current consumption, ideal for battery operated applications
- 9600bps data rate
- Carrier sense output for Multi Channel Access operation

## Application

- Remote control system
- Security systems
- Bi-directional communication systems
- Telemetry systems
- Handy terminal



Common	Item	Specification
	Communication form	Semi duplex
	Oscillation system	PLL controlled VCO
	Frequency range	433.200MHz to 434.775MHz
	Number of FR channels	64 channels
	Channel step	25kHz
	Frequency stability	+/- 2.0kHz
	Baud rate	9600bps max
	Operating temp. range	-10 to +55 degrees C
	Supply voltage	3.6 - 12V (Direct mode)
		3.6 - 5V (Auto mode)
	Dimensions	53 x 35 x 12mm
	Weight	34 g
Transmitter	Transmitter type	PLL synthesizer
	RF output power	10mW
	Modulation	FM narrow
	Data input level	3.6 - 12V (Direct mode)
		3.6 - 5V (Auto mode)
	Input signal	Digital
	Deviation	+/-2kHz
	Spurious emission	<-60dBm (<1GHz)
	Adjacent channel power	<200nW
	Supply current	36mA
Receiver	Receiver type	Double Superheterodyne PLL synthesizer
	Sensitivity	-117dBm (12dB/SINAD, CCITT filter)
	Selectivity	+/-4kHz at -6dB point
	Demodulation	FM narrow
	Data output	Digital
	Supply current	26mA

Specifications are subject to change without prior notice



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