

## Sub 1GHz Multichannels Radio Transceiver

It is a low cost sub 1GHz multichannels transceiver designed for low-consumption wireless applications. The hardware is based on Texas Instruments CC1101 component.

Programmable from external microcontroller via SPI interface.

Working frequency programmable in the following band : (433.1MHz - 434.7MHz).



### Technical Characteristics

Characteristics	MIN	TYP	MAX	UNIT
Supply Voltage	1.8	3	3.6	VDC
Supply Current (RX mode / TX mode)		18/30		mA
Supply Current Power Down Mode		0.2		µA
Operative Frequency (1)		433.92		MHz
RF Power Output 50ohm		+10		dBm
RF Sensitivity (1.2 Kb/sec data rate)		- 112		dBm
Data Rate (2)	1.2		500	Kbit/s
Tolerance Receiver Frequency		± 1.5		KHz
Frequency deviation (2)	±1.5		±380	KHz
Operative Temperature	-20		+70	°C

(1) The operating frequency is programmable by the user in the band 433.1 - 434.7 MHz. The technical characteristics were measured at the operating frequency of 433.92MHz.

(2) Programmable parameter.

For more information and details, please refer to the CC1101 Texas Instruments datasheet.

### Applications :

- Wireless security systems
- Home and building automation
- Automatic Measure Reading
- Industrial Control and Monitoring
- Wireless Sensor Network

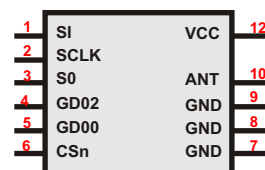
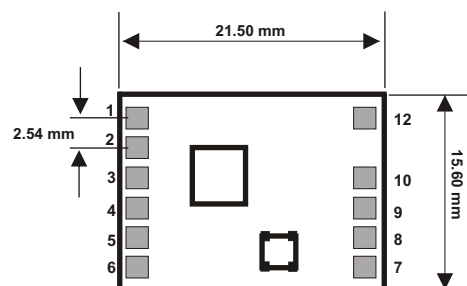
### Feature :

- Bidirectional multichannel Link
- Low consumption technology
- DIL Package

## PIN OUT RC-CC1101-SPI-434

Pads	Name	Description
1	SI	Serial configuration interface SPI -----> Data Input
2	SCLK	Serial configuration interface SPI -----> Clock Input
3	S0	Serial configuration interface SPI -----> Data Output
4	GD02	Digital Output configurable
5	GD00	Digital Output configurable
6	CSn	Serial configuration interface SPI -----> Chip Select
7	GND	Ground
8	GND	Ground
9	GND	Ground
10	ANT	Antenna
11		
12	VCC	Supply Voltage

## Mechanical dimensions



## 434MHz SCHEMATIC VERSION

