RF Transmitter, 433 MHz, ASK

Sunrom Part#
1431

This 433 MHz ASK Wireless transmitter can be used in remote control applications, wireless data transfer applications, mobile robots and burglar alarms.

User's Manual

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SUNROM Electronics

http://www.sunrom.com/m/1431

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Introduction

This model is a RF transmitter ASK/OOK(ON-OFF Keyed) type with true data-in and antenna-out device, eliminating RF tuning resulting in highly reliable yet low cost solution. Data input from encoder like HT12E or your custom microcontroller has to be in Manchester encoding format with 50% duty cycle for efficient use. The data transmitted can be received any general purpose ASK type RF receiver operating at 433 Mhz.

Applications

- Wireless security systems
- Car Alarm systems
- Remote controls.
- Sensor reporting
- Automation systems

Specifications

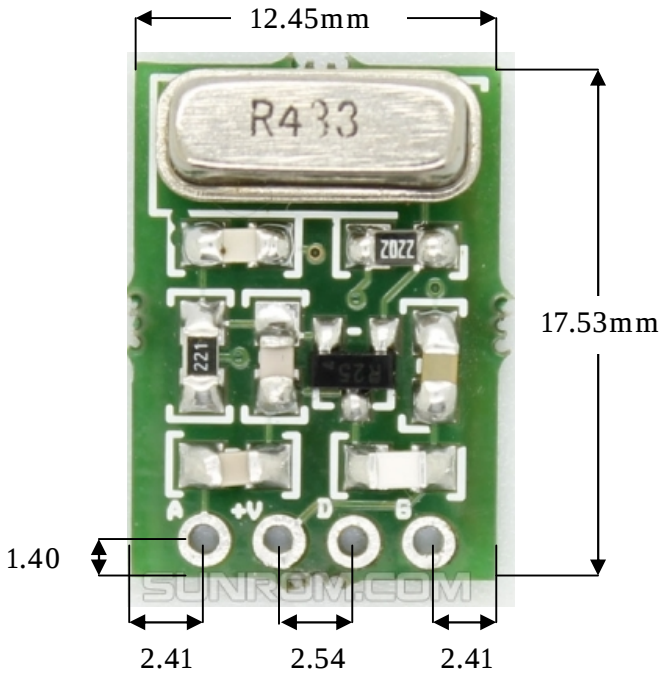
Parameter	Value	3V	5V	12V
Voltage	3V to 12V DC regulated power supply			
Frequency	433.92 Mhz			
RF Bit rate	1 kbps			
Start up Time	20ms			
Data Duty	50%			
Temperature	-20 to +80 deg. C			
RF Power		4 dbm	10 dbm	16 dbm
Current		11 ma	20 ma	57 ma
RF range	Approximate	10 meters	20 meters	50 meters

Module Pin Details

Pin	Details
GND	Common Ground
DATA	Data Input from Encoder like HT12E, Manchester Encoding 50% duty
VCC	Regulated positive power input 3V to 12V DC
ANT	Antenna Output, Can use simple 17cm wire as antenna

Product Dimensions

Board Dimensions in mm



Support

Sunrom Electronics offers **free technical support (www.sunrom.com/contact)** for customers, until the end of the product's lifetime, so if something goes wrong, we're ready and willing to help!

Technical Support is available by email only and scope is limited to problem faced during use of the use of product and does not cover end user programming and hardware troubleshooting.

Each product passes through strict quality checks before it reaches you. So if something is not working out right, the first thing to doubt is the connections or programming of your hardware.

Disclaimer

Sunrom Electronics assumes no responsibility or liability for any errors or inaccuracies that may appear in the present document. Specification and information contained in the present schematic are subject to change at any time without notice.