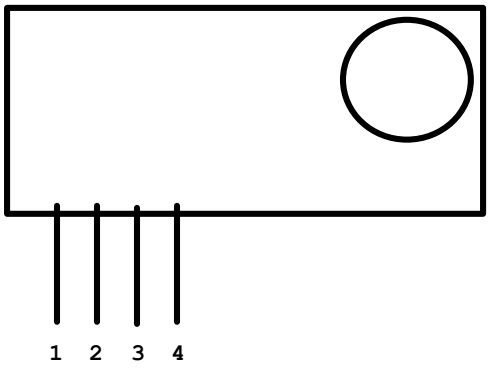
SM TX – 433 AM / ASK TRANSMITTER MODULE

The SM TX – 433 is an AM / ASK transmitter module which can facilitate OEM manufactures to design remote control application in shortest way. Low Power Consumption and wide operating voltage makes the module ideal for battery operated low power application. The SM TX – 433 is small enough to fit in almost any cabinet.



PIN CONFIGURATION :-

- **Pin1 : Antenna**
- **Pin2 : Data In**
- **Pin3 : Ground**
- **Pin4 : Vcc**

KEY FEATURES :-

- **Frequency : 433.92 MHz**
- **5 – 12V Single Supply Operational**
- **OOK / ASK Data Format**
- **Up to 9.6 kbps data rate**
- **4 Pin compact size module**
- **+ 5 dbm out put power (12V, Vcc)**
- **SAW based architect**
- **Vertical / Horizontal mount**
- **Directly connect to microcontoller**
- **Low Power Consumption suitable for battery operated devices**
- **Direct plug and use**
- **No external components required**
- **High performance SAW based Architecture with a maximum range of 100 feet at 4800 bps data rate**
- **Interface directly to Encoders and Microcontrollers with ease**
- **Can be directly in your PCB**
- **Right Angle Pin (Flat Out) is the standard in these modules**
- **Can be used with Fixed Code and Rolling Code Encoders or direct with Microcontrollers**

APPLICATIONS :-

- **Remote Gate Opener**
- **Wireless DATA Link**
- **Security Systems**
- **Home Automation**
- **Remote Sensors**
- **Automobile Security**

TECHNICAL SPECIFICATIONS

Supply Voltage	**5V – 12V DC**
Stand By Current	**2 uA**
Out Put Power	**+ 5 dbm**
Max Data Rate	**9600 bps**
Typical Distance	**500 mtrs with 45 cm wire antenna**

Out Put v/s Consumption

VCC	O/P	Current
5V DC	- 3 dbm	1.0 mA
12V DC	+ 5 dbm	3mA

SPECIFICATIONS

PARAMETRE	MINIMUM	TYPICAL	RANGE	UNITS
Voltage	2.7V	3	5.2V	DC
Supply Current		5	5.5	mA
Stand by Current			3	mA
Output Power into 50 Ohms	-2	0	0	dbm
Overall frequency accuracy	-250		250	KHz
Data Input Low	0		0.8	Volts
Data Input High	>0.8		Vcc	Volts
Operating temp. range	0		70	Deg. Cel
Operating frequencies	433.67	433.92	434.17	MHz
Max. Data Rate			2400	bps
Package	SMD			

SM RX – 433 RECEIVER MODULE

This is a SR series of radio frequency module which can facilitate the OEM designers to design their applications in remote in the quickest way. The circuit is designed with SMD components and the module size is small enough to be able to be fitted inn many remote control applications. This compact receiver module is very sensitive and heavy immune to other radio interference. Wide operating voltage, low current makes this module ideal for battery operated or miniature instrument design application. This miniature module is specially designed for rigid application. It shows high stability and reliability even at worst environment conditions. Direct plug and use to the mother board makes the receiver for various design applications.

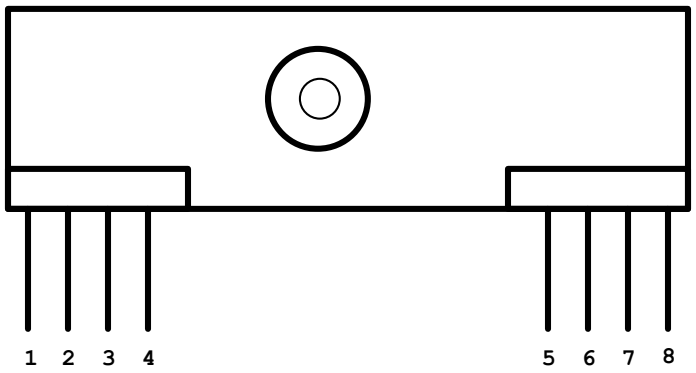
FEATURES:-

- **Miniature Size**
- **Wide Operating Range**
- **Low Power Consumption**
- **Improved Data Transmission**
- **No Alignment Required**
- **No External Components PIN Configuration and Size**
- **Wide Range of Application**
- **Analogue and Digital Output**

APPLICATION :-

- **Automative Remote Entry System**
- **Car / Bike Alarm System**
- **Gate and Garage Openers**
- **Electronic Door Locks**
- **Burglar Alarm System**
- **Remote Switching System**
- **Short Range Data Reception**

PIN CONFIGURATIONS :-



- **Pin1 : Ground**
- **Pin2 : Digital Out**
- **Pin3 : Linear Out**
- **Pin4 : Vcc 5V**
- **Pin5 : Vcc 5V**
- **Pin6 : Ground**
- **Pin7 : Ground**
- **Pin8 : Antenna**

TECHNICAL SPECIFICATIONS :-

Working Voltage	**4.5V – 5.5V DC**
Band Width	**12 MHz**
Sensitivity	**- 103 dbm**
Date Rate	**4800 bps**
Max Data Rate	**9600 bps**
Stand By Current	**1, 2 mA**
Antenna	**Whip, Strip Line or Helical**

NOTE :-

- **Use 17 – 20 cm antenna in the receiver**
- **Do not feed more than 5V to the receiver**
- **Do not mount the receiver in side a metal box**
- **Place antenna at out side if metal box is used**

On Line Support & Contact Information

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