

FSK/ASK RECEIVER MODULE

General Description:

The RXB16 is an FSK/ASK receiver module, which is based on a single-conversion super-heterodyne receiver

architecture and incorporates an entire Phase-Locked Loop (PLL) for precise local oscillator generation.

Frequency available: 434/868 MHz

In Fsk mode Sensitivity: -106dBm for 434MHz and -105dBm for 868MHz

Supply Current: 5.7mA for434MHz and 7mA for 868MHz

In Ask mode Sensitivity: -112dBm for 434MHz and -108dBm for 868MHz

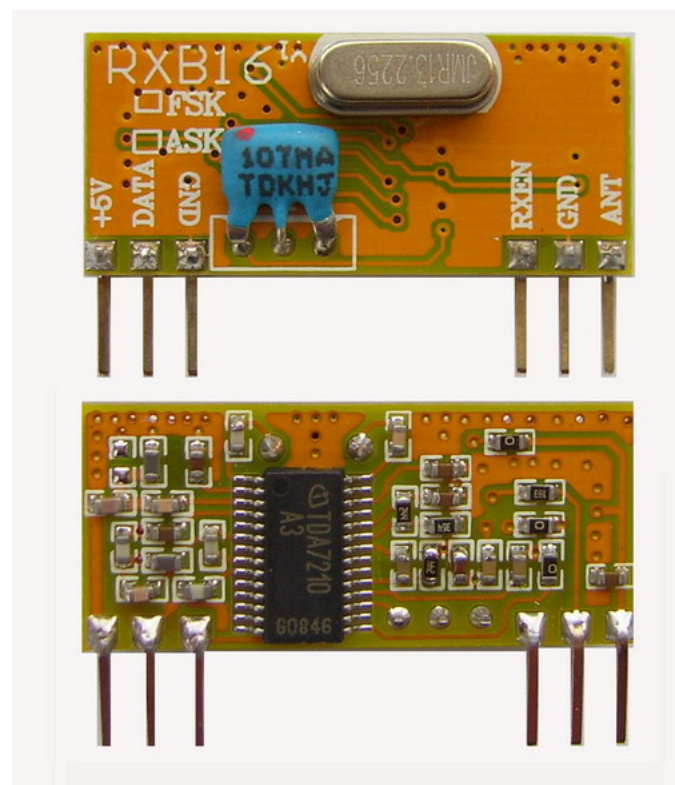
Supply Current: 4.6mA for434MHz and 5.2mA for 868MHz

Features:

- Easy for application.
- Operation temperature range : -20°C ~ +85°C
- Lower power consumption.
- Operation voltage: 5Volts.
- Available frequency at: 315/434/868 MHz

Applications

- Car security system
- Wireless security systems
- Sensor reporting
- Automation system
- Remote Keyless entry



Product Identification

FSK 433.92MHZ	FSK RXB16-434M
FSK 868MHZ	FSK RXB16-868M
ASK 433.92MHZ	ASK RXB16-434M
ASK 868MHZ	ASK RXB16-868M

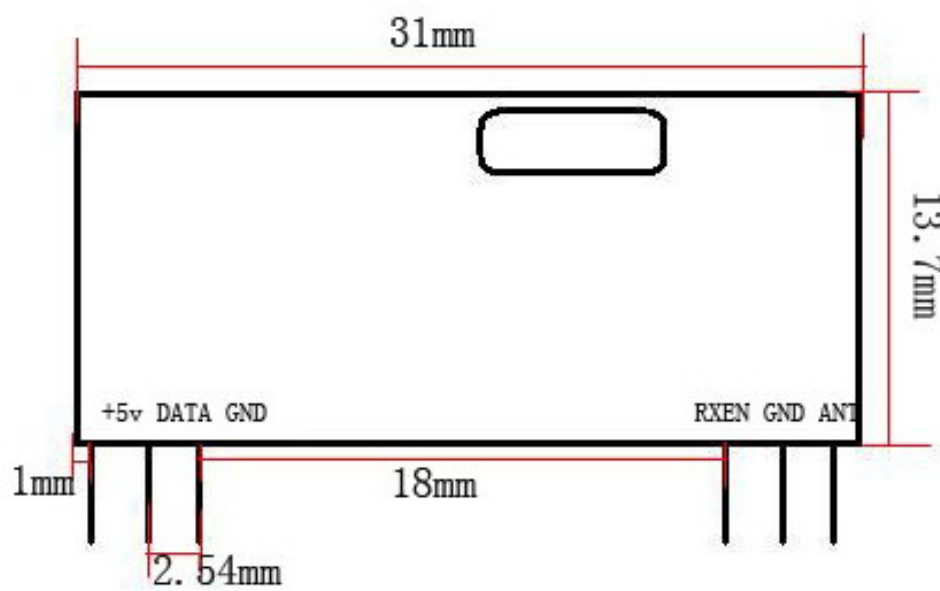
Absolute Maximum Ratings

Parameter	Rating	Units
Supply Voltage	5.5	V DC
Operating Temperature	-20 to +85	°C

Electrical Characteristics :

CHARACTERISTIC		MIN	TYP	MAX	UNIT
Vcc	Supply Voltage	4.5	5.0	5.5	VDC
Is	Supply Current	FSK	5.7(434MHz) 7.0(868MHz)		mA
		ASK	6.6(434MHz) 5.2(868MHz)		
FR	Receiver Frequency	434/868			MHz
RF Sensitivity(Vcc=5V)	FSK	-106(433.92MHz) -105(868MHz)		dBm	
	ASK	-112(433.92MHz) -108(868MHz)			
Data Rate			4.8k	20k	bps
Turn On Time(Vcc off-Turn on)			2		ms
TOP Operating Temperature Range		-20		+85	°C
Output Duty		40		60	%

Mechanical Dimension:



PIN:

PIN	1	2	3	4	5	6
NAME	+5V	DATA	GND	RXEN	GND	ANT
Description	RF Input	Power Supply GND	RF GND	DATA SHUT	Digital data output	RF Input

Notes:

Antenna : Length = 17.2cm for 433.92MHz ; Length = 8.7 cm for 868.35MHz.