

# **AM SUPER HETERODYNE RECEIVER**

**QAM-RX5** 

#### **Features**

- Super Heterodyne Radio Receiver
- High Sensitivity -106dBm
- CMOS / TTL Output
- Stable Operating Frequency
- Low Current Consumption
- 3-5Vdc Operating Voltage
- ASK Demodulation
- Available as 315 or 433 MHz



- Wireless Security Systems
- Garage Door controller
- Remote Gate Controls
- Remote Sensing
- Data Capture
- Sensor Reporting



## **Description**

The Quasar UK AM receiver module provides a complete Radio receiver which can be used to receive undecoded data from the range of Quasar (UK) transmitter modules.

The module is very simple to operate and offers a low current consumption, allowing for extended battery life when used in mobile applications.

Data can be fed directly into a microprocessor or decoding device, thus keeping the component count down and ensuring a low hardware cost.

All receivers are compatible, producing a CMOS/TTL output, and only require connections to power and antenna.

### **Part Numbers**

Part Number	Description			
QAM-RX5-433	AM Super Regen Receiver Module, 433MHz			
QAM-RX5-315	AM Super Regen Receiver Module, 315MHz			

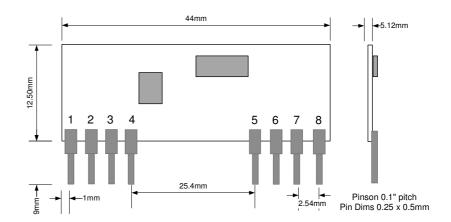


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# **Technical Specifications**

# **Pin Descriptions**

Pin	Description		
1	External Antenna		
2, 3, 8	Ground		
6, 7	Data input		
4,5	Supply Voltage		



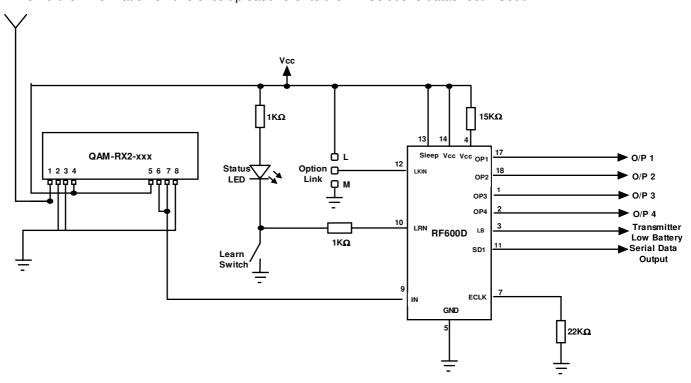
## **Electrical Characteristics**

Ambient temp = 25 ℃ unless otherwise stated. Vcc=5V 1KB/s AM99% Square Wave Modulation

Characteristic	Min.	Тур.	Max.	Dimensions
Supply Voltage	2.5	5	5.5	Vdc
Supply Current		4.7		mA
RF Sensitivity		-106		dBm
Working Frequency		315 / 433.92		MHz
High Level Output	0.7Vcc			Vdc
Low Level Output			0.3Vcc	Vdc
Turn On Time		25		Ms
Data Rate	200	1,000	3,000	Hz
Bandwidth		800		KHz

# **Typical Application**

For further information on this circuit please refer to the RF Solutions datasheet DS600



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## Contact Us:

## > Address:

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

## > Sales:

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

## Customer Service :

Email service@ameya360.com

# Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com