

AM SuperHeterodyne Receiver

- Miniature Surface Mount
(17 x 12 mm)
- Enhanced Noise immunity
internal PLL
- **Very High sensitivity -112dBm**
- CMOS / TTL Output
- Stable Operating Frequency
- Sleep Mode 0.5 μ A
- 3.3Vdc Operating Voltage
- Analog RSSI Output
- Low Power Consumption



Applications

- Security Systems
- Automation Systems
- Remote Gate Controls
- Remote Sensing
- Data Communications
- Sensor Reporting

Description

The Quasar UK AM-RX1 Super Heterodyne 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 low power consumption allowing for extended battery life without the need to power down the module.

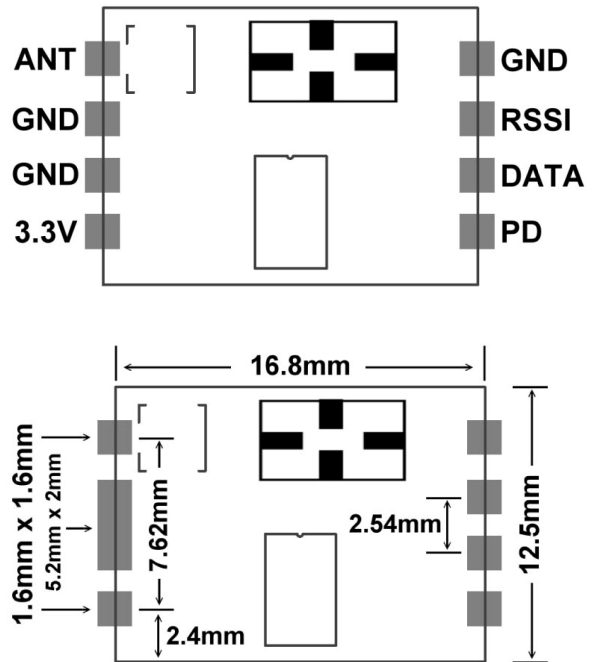
Data can be fed directly into a microprocessor or decoding device, thus keeping the component count down and ensuring a low hardware cost.

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

AM SuperHeterodyne Receiver

Pin Descriptions

Pin	Description
3.3V	Supply Voltage
GND	Ground
ANT	Connect External Antenna
RSSI	Received Signal Strength Output
DATA	Data Output
PD	Power Down Mode (Active High)



Electrical Characteristics

Ambient temp = 25°C unless otherwise stated.

Characteristic	Min	Typical	Max	Dimensions
Supply Voltage		3.3		Vdc
Supply Current		6		mA
Standby Current (PD=+Vcc)		0.5		µA
RF Sensitivity (Vcc=5V, 1Kbps AM 99% Square wave modulation)		-112		dBm @433MHz
Working Frequency		433.92		MHz
Turn On Time	25	30		mS
RSSI DC Output voltage		0.4—2		V
RSSI Response Slope @ -108dBm to -40dBm		25		mV/dBm
Operating Temperature Range	-40		+85	°C

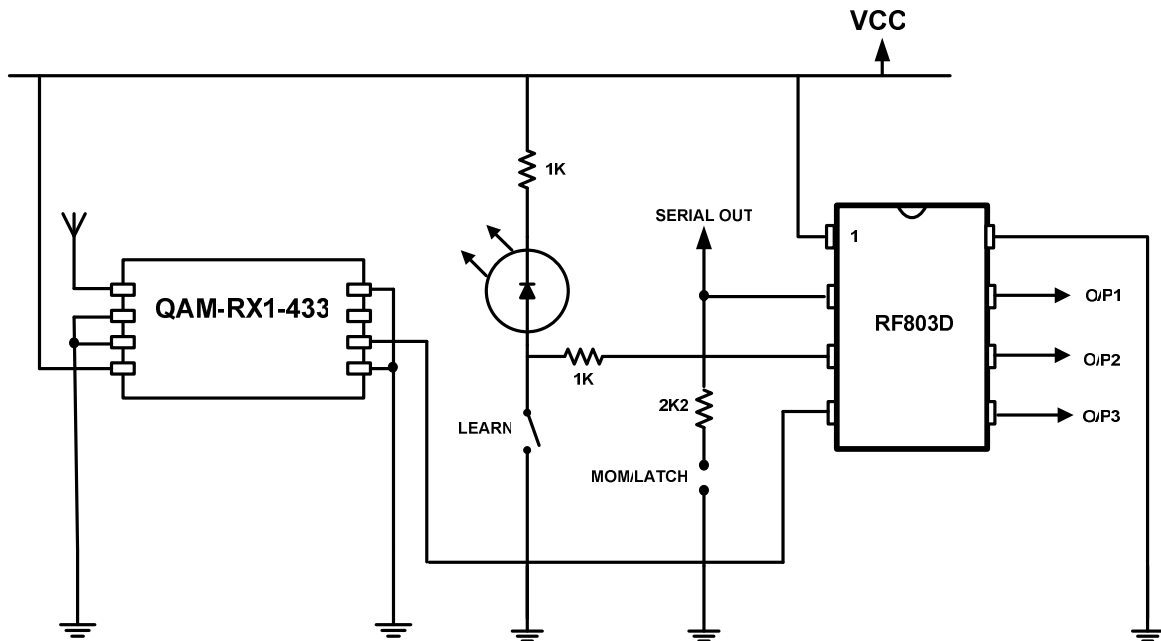
Part Numbers

Part Number	Description	Range** (Metres)
QAM-RX1-315	AM Super Heterodyne Receiver Module, 315MHz	
QAM-RX1-433	AM Super Heterodyne Receiver Module, 433MHz	

**Range stated is optimum, direct line of sight. In worst conditions this can be reduced by over 50%

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Typical Application



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Datasheet: DSQAM-RX3-1

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2. How does this document meet your hardware and software development needs?
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4. What additions to the document do you think would enhance the structure and subject?
5. What deletions from the document could be made without affecting the overall usefulness?
6. Is there any incorrect or misleading information (what and where)?