

- Super Heterodyne Radio Receiver
- Enhanced Noise immunity internal PLL
- CMOS / TTL Output
- Stable Operating Frequency
- Sleep Mode $0.5\mu\text{A}$
- 5Vdc Operating Voltage
- Analog RSSI Output
- Low Power Consumption
- High sensitivity
 - -113dBm @315MHz
 - -108dBm @433MHz



Applications

- Car Security Systems
- Automation Systems
- Remote Gate Controls
- Remote Sensing
- Data Capture
- Sensor Reporting

Description

The Quasar UK AM-RX3 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.

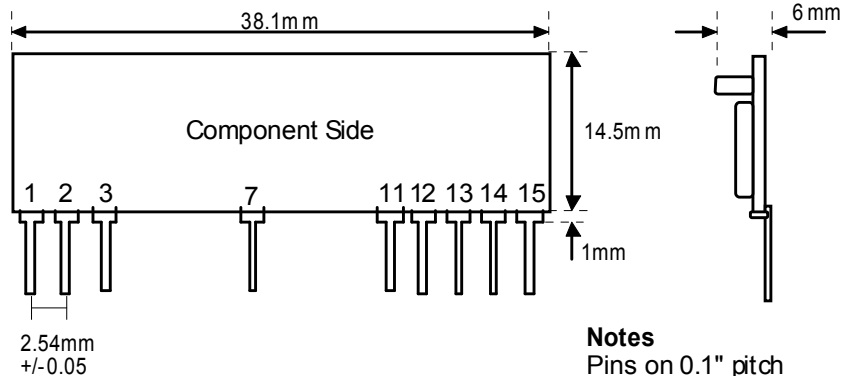
The module is very simple to operate and offers low power consumption allowing for extended battery life without the need to power down the module.

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.

Pin Descriptions

Pin	Description
1, 12	Supply Voltage
2, 7, 11	Ground
3	External Antenna
13	RSSI
14	Data Output
15	Power Down (Active High)



Notes
 Pins on 0.1" pitch
 Pin Dims :0.6 x 0.02mm
 Pin length: 6mm+/-0.2
 Recommended PCB hole
 Ø 0.65-0.7mm

Electrical Characteristics

Ambient temp = 25°C unless otherwise stated.

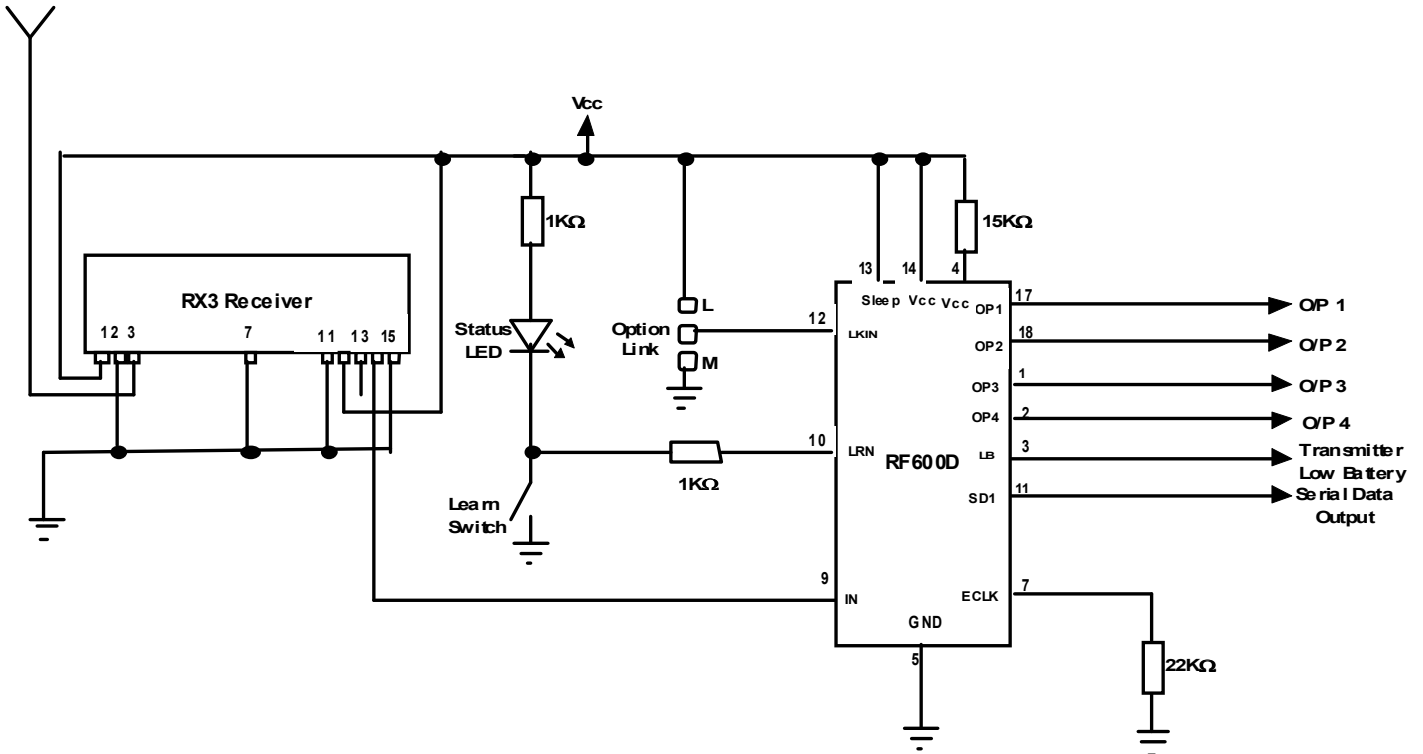
Characteristic	Min	Typical	Max	Dimensions
Supply Voltage	3.3	5	8	Vdc
Supply Current		6		mA
Standby Current (PD=+Vcc)		0.5		µA
RF Sensitivity (Vcc=5V, 1Kbps AM 99% Square wave modulation)		-108		dBm @433MHz
Working Frequency		433.92		MHz
Turn On Time	25	30		mS
RSSI DC Output voltage		0.4—2		V
RSSI Response Slope @ -108dBm to -40dBm		25		mV/dBm
Operating Temperature Range	-40		+85	°C

Part Numbers

Part Number	Description	Range** (Metres)
QAV-RX3-315	AM Super Heterodyne Receiver Module, 315MHz	
QAV-RX3-433	AM Super Heterodyne Receiver Module, 433MHz	

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

Typical Application



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AM SuperHeterodyne Receiver

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Datasheet: DSQAM-RX3-1

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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)?
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