

# Life without Wires.

## Transmitters and Receivers

Radiotronix line of "Ultra Tiny" RF transmitter modules are designed for fast integration into most uni-directional control type applications. The modules come in matched sets in 315/418 and 433MHz frequencies to provide low-cost flexible worldwide RF solutions. Radiotronix's new low cost RK-433-RC design development kit allows for easy design for all engineers without the need for RF equipment or experience. Radiotronix offers excellent technical support and design tools to allow the engineer to customize his application to fit specific needs.



### RCT-XXX-AS/ ASBR/ UTR Series

The RCT-AS series of RF transmitter modules offer a cost effective, high performance solution for remote control type applications. The modules come in very small surface mount (6mm x 9mm) packages and operate at ranges of 2-12v, and can deliver 0dBm output power into a 50 ohm load at 3V. The SAW stabilized design guarantees that the center frequency is accurate to +/- 40Khz @3V making the modules suitable for any ASK/OOK receiver selection. The module is also available in a higher temp ceramic ROHS version, RCT-ASBR series. The new RCT-UTR is an Ultra Tiny 433MHz transmitter module designed for higher output power +10dBm and comes shipped in a high insertion tape and reel surface mount package designed for volume manufacturing. The module is a only 5mm x 7mm!

### RCR-XXX-RPR/ MPR Series

The RCR-RPR and RCR-MPR series RF receiver modules are a line of pin compatible low cost receivers designed to support most ASK/OOK transmitters and all Radiotronix transmitter modules. The receivers work in ranges from 100-300ft and are perfect for long battery life, low cost applications. The receivers operate at 5V and draw less than 4.5mA. The RCR-MPR series receivers are industrial temp spec -40 to +85C.

### RCR-XXX-HPR/ EPR Series

The RCR-HPR series Rf receiver modules offer a cost effective, high-performance solution for remote control type applications. The receivers are compatible with most ASK/OOK transmitters and all Radiotronix transmitter modules. The receivers provide longer range options to customers seeking 600 ft range. The receivers come in both 3V and 5V versions and have current draw less than 4.5mA. The extended performance RCR-EPR receivers are also industrial spec -40 to +85C.

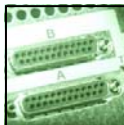
### Applications



Remote Controls



Medical



Access Controls



Industrial



Machine Controls

### Features

#### Development Kit

- 433-433.92MHz
- RK-433-RC Contains:
  - a. 2 ea. 433MHz SecureFOB™ transmitters
  - b. 4 ea. 433MHz RF Receiver modules
  - c. MicroChip KEELOQ™ encoder/ decoder
  - d. Multi-Receiver Unit Development Platform

#### Transmitter Modules

- Available in 315/ 418/ and 433Mhz
- ASK/ OOK
- Ultra-tiny Packages
- RCT-433-UTR (5 x 7mm)
- RCT-XXX-ASBR (6 x 9mm)
- 2 to 12 V

#### Receiver Modules

- Available in 315/ 418/ and 433Mhz
- Works with any LC/ SAW based transmitter
- 4800 Baud Operation
- 3 or 5 V options
- 4.5 mA Current Drain
- Flexible Pin Footprints

#### Antennas

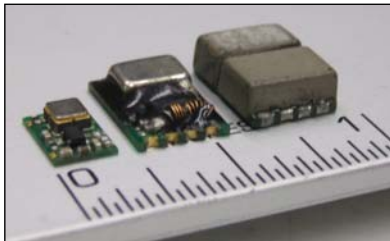
- ANT-433-07A



(P) 405.794.7730 - (F) 405.794.7747 - [www.radiotronix.com](http://www.radiotronix.com)

For 24 hour Sales and Tech. Support: [www.radiotronix.com/support/](http://www.radiotronix.com/support/)

# Transmitters and Receivers



RCT-433-UTR, RCT-433-AS, RCT-433-ASBR  
(from left to right)



## Ordering Information

Part Number	Description	Frequency	Size (in mm)
<b>RF Transmitter Modules</b>			
RCT-315-ASBR	Remote Control (ASK/ OOK) Transmitter	315MHz	6 mm x 9 mm
RCT-418-ASBR	Remote Control (ASK/ OOK) Transmitter	418MHz	6 mm x 9 mm
RCT-433-ASBR	Remote Control (ASK/ OOK) Transmitter	433MHz	6 mm x 9 mm
RCT-433-UTR	Remote Control (ASK/ OOK) "Ultra-tiny" Transmitter	433MHz	5 mm x 7 mm
<b>SecureFOB™ Transmitters</b>			
KFB-433-TX1-UTR	SecureFOB™ with RCT-433-UTR Transmitter	433MHz	5 mm x 7 mm (RCT-433-UTR)
KFB-433-TX2-ASBR	SecureFOB™ with RCT-433-ASBR Transmitter	433MHz	6 mm x 9 mm (RCT-433-ASBR)
<b>RF Receiver Modules</b>			
RCR-315-EPR	Remote Control (ASK/ OOK) Receiver	315MHz	43.32 mm x 19.77 mm
RCR-315-HPR	Remote Control (ASK/ OOK) Receiver	315MHz	50.67 mm x 25.20 mm
RCR-315-HPR3V	Remote Control (ASK/ OOK) Receiver	315MHz	50.67 mm x 25.20 mm
RCR-315-MPR	Remote Control (ASK/ OOK) Receiver	315MHz	43.32 mm x 19.77 mm
RCR-315-RPR	Remote Control (ASK/ OOK) Receiver	315MHz	43.45 mm x 19.92 mm
RCR-418-HPR	Remote Control (ASK/ OOK) Receiver	418MHz	50.67 mm x 25.20 mm
RCR-418-RPR	Remote Control (ASK/ OOK) Receiver	418MHz	43.45 mm x 19.92 mm
RCR-433-EPR	Remote Control (ASK/ OOK) Receiver	433MHz	43.32 mm x 19.77 mm
RCR-433-HPR	Remote Control (ASK/ OOK) Receiver	433MHz	50.67 mm x 25.20 mm
RCR-433-HPR3V	Remote Control (ASK/ OOK) Receiver	433MHz	50.67 mm x 25.20 mm
RCR-433-MPR	Remote Control (ASK/ OOK) Receiver	433MHz	43.32 mm x 19.77 mm
RCR-433-RPR	Remote Control (ASK/ OOK) Receiver	433MHz	43.45 mm x 19.92 mm
<b>RF Multi-Receiver Unit</b>			
MRU-433-EPR	Multit-Receiver Unit with RCR-433-EPR Receiver	433MHz	43.32 mm x 19.77 mm
MRU-433-HPR	Multit-Receiver Unit with RCR-433-HPR Receiver	433MHz	50.67 mm x 25.20 mm
MRU-433-MPR	Multit-Receiver Unit with RCR-433-MPR Receiver	433MHz	43.32 mm x 19.77 mm
MRU-433-RPR	Multit-Receiver Unit with RCR-433-RPR Receiver	433MHz	43.45 mm x 19.92 mm
<b>Development Kits</b>			
RK-433-RC*	Development Kit (includes 2 SecureFOBs™ and 4 Receivers)	433MHz	N/A

\*RK-433-RC

## Placing Orders

The part number is provided below to ensure ordering correctly. Pricing is available at qualified Radiotronics distributors. For more product lines and all distributor information contact Radiotronics sales at 405.794.7730, visit [www.radiotronics.com](http://www.radiotronics.com), or email [sales@radiotronics.com](mailto:sales@radiotronics.com).