



## KTX Series Transmitters



### 303, 315, 418, 433 MHz

#### Key Chain Transmitter

The KTX303 series of keyfob transmitters are FCC Part 15 certified which allows for a quick and cost effective solution to wireless remote control system design and production. The KTX303 transmitters are SAW resonator stabilized and compatible with both superhet and regenerative receivers. Signature code is changeable using solder bridges (A series) or it is preprogrammed at factory (B-Series). Power is supplied by a widely available 12-volt alkaline battery (included). The ABS transmitter enclosures are very rugged and will provide long term reliability and service.

#### Features

- Compatible with RCR Series Receivers
- FCC Certified
- Long Range-- Up to 1000 ft<sup>1</sup>
- Battery Included
- Holtek Encoder with PCB Trace Setting or Pre-Addressed Encoder
- One, Two and Three Button Versions

#### Typical Applications

- Remote Control
- Keyless Entry

#### Part Ordering Information

| <b>Frequency<br/>(MHz)</b> | <b>Model Number<br/>Holtek Decoder<sup>2</sup></b> | <b>Matching<br/>RCR Receiver</b> |
|----------------------------|----------------------------------------------------|----------------------------------|
| 303.825                    | <b>KTX303Ax</b>                                    | RCR303A                          |
| 315.000                    | <b>KTX315Ax</b>                                    | RCR315A                          |
| 418.000                    | <b>KTX418Ax</b>                                    | RCR418A                          |
| 433.920                    | <b>KTX433Ax</b>                                    | RCR433A                          |

  

| <b>Frequency<br/>(MHz)</b> | <b>Model Number<br/>Pre-Addressed Decoder<sup>2</sup></b> | <b>Matching<br/>"Learning" RCR Receiver</b> |
|----------------------------|-----------------------------------------------------------|---------------------------------------------|
| 303.825                    | <b>KTX303Bx</b>                                           | RCR303B                                     |
| 315.000                    | <b>KTX315Bx</b>                                           | RCR315B                                     |
| 418.000                    | <b>KTX418Bx</b>                                           | RCR418B                                     |
| 433.920                    | <b>KTX433Bx</b>                                           | RCR433B                                     |

<sup>1</sup> Line of sight range, when used with a 1/4-wave ground plane antenna.

<sup>2</sup> x=Number of buttons (1, 2 or 3)

<sup>1</sup> When used with RCR series receivers, EVRX series Receiver Evaluation boards, or RX Series Receivers. Open Field conditions.



## Decoder Options

### *"A" Series Decoder*

Address is set via cutting or shorting traces to create a "high", "low" or "open" circuit for each address bit. Setting the address for receiver is the same. Default from factory is all "low". A total of  $3^8$  or 6561 address are available.

### *"B" Series Decoder*

The receiver will learn up to 4 different transmitter ID's. A total of  $2^{10}$  or 1024 addresses are available. The transmitters are pre-addressed at the factory.

To learn a transmitter, power up the receiver, remove the antenna, and then press the learn button. The Learn LED will light. With the transmitter close to the receiver (a few feet), press any button on the keyfob transmitter. When the Learn LED goes out, the transmitter has been learned. To learn another transmitter, repeat the process. When a fifth transmitter is learned, the first transmitter learned is eliminated from flash memory.

For operation in high EMI environments (such as around electric motors), the "B" series receiver performs somewhat better than the "A" series.

## Specifications:

Battery Model: 23A

Battery Voltage: 12V

Weight: 0.8 oz. (22g)

Size: 2.42 x 1.45 x 0.52 (62 x 37 x 13 mm)