

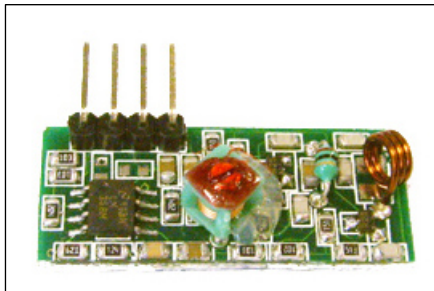


## Xenon Design Limited

### RF products specification

www.xenon-tech.com

#### Receiver XERE01A, CDR03AA (433MHz ASK)



#### Feature

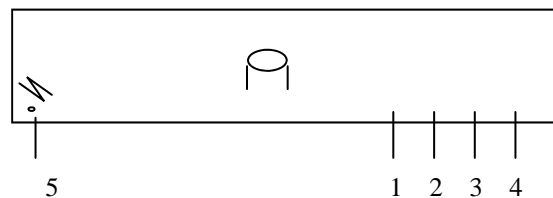
- Best solution for economical short range RF transmission
- Miniature size of 14 x 33 x 10 mm
- High reception sensitivity (-95dBm typ)
- Low power consumption (Typ: 4mA)
- Wide operating temperature range of 0 to +50 degree C

#### Specification

|                       | min | typ | max | unit |
|-----------------------|-----|-----|-----|------|
| Operating Voltage     | 4.5 | 5   | 5.5 | V    |
| Current Consumption   | 2.7 | 4   | 5   | mA   |
| Operating Temperature | 0   | 25  | 50  | °C   |
| Reception Frequency   | -   | *A  | -   | MHz  |
| Data Rate             | -   | 4   | -   | kB/s |
| Sensitivity           | -   | -95 | -   | dBm  |

\*A Frequency also available at 315MHz and 435MHz

#### Pins Assignment



1 - Vcc

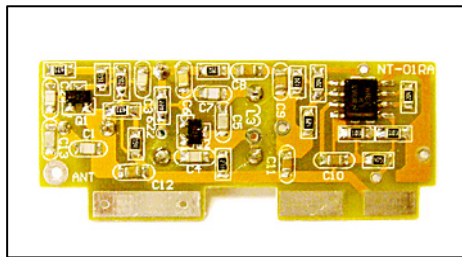
2 – Data Out

3 - No Connection

4 - Gnd

5 - Antenna: 18cm of wire for 433MHz

## Receiver XERE01B, NT-01RA (433MHz ASK)



### Feature

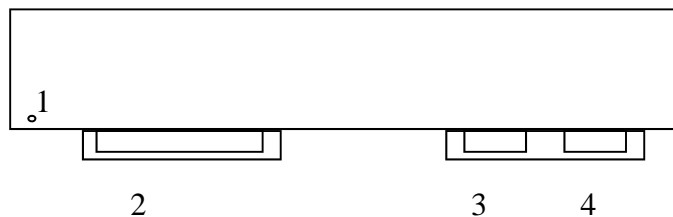
- Best solution for economical short range RF transmission
- Miniature size of 47 x 19 x 13 mm
- High reception sensitivity (-95dBm typ)
- Low power consumption (Typ: 5mA)
- Wide operating temperature range of -10 to +70 degree C

### Specification

|                       | min | typ  | max | unit |
|-----------------------|-----|------|-----|------|
| Operating Voltage     | 4   | 5    | 6   | V    |
| Current Consumption   | 2.7 | 4    | 5   | mA   |
| Operating Temperature | -10 | 25   | 70  | °C   |
| Reception Frequency   | -   | *A   | -   | MHz  |
| Data Rate             | -   | 4    | -   | kB/s |
| Sensitivity           | -   | -103 | -   | dBm  |

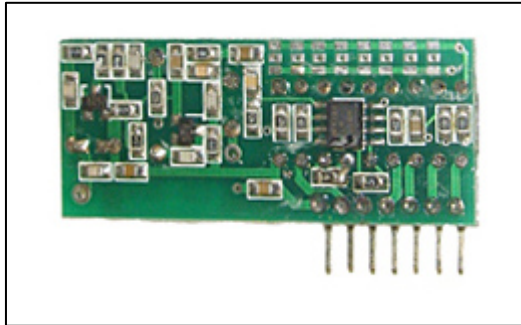
\*A Frequency also available at 315MHz and 435MHz

### Pins Assignment



- 1 - Antenna: 18cm of wire for 433MHz
- 2 - Ground
- 3 - Data Out
- 4 - Vcc

**Receiver for enclosed plastic case transmitter (see transmitter XETX02A)  
XERE02A, CD-R04 (433MHz ASK)**



**Feature**

- Best solution for economical short range RF transmission
- Miniature size of 47 x 20 x 8 mm
- Low power consumption (Typ: 4mA)
- Wide operating temperature range of -10 to +70 degree C

**Specification**

|                       | min | typ | max | unit |
|-----------------------|-----|-----|-----|------|
| Operating Voltage     | 4   | 5   | 6   | V    |
| Current Consumption   | 2.7 | 4   | 7   | mA   |
| Operating Temperature | -10 | 25  | 70  | °C   |
| Reception Frequency   | -   | *A  | -   | MHz  |
| Sensitivity           | -   | -95 | -   | dBm  |

\*A Frequency also available at 315MHz and 435MHz

**Pins Assignment**



- |              |   |
|--------------|---|
| 1 - 5V       | 2 - Data Valid                          |
| 3 - Gnd      | 4 - Output B                            |
| 5 - Output D | 6 - Output C                            |
| 7 - Output A | 8 - Antenna: 18cm of wire for 433MHz cm |

## Transmitter XETX01A, FSI000A (433MHz ASK)



### Feature

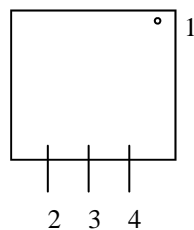
- Best solution for economical short range RF transmission (> 200 meters)
- Miniature size of 19 x 19 x 10 mm
- Low power consumption (Typ: 1uA when no transmission)
- Wide operating temperature range of -10 to +70 degree C

### Specification

|   | min | typ | max | unit |
|---|-----|-----|-----|------|
| Operating Voltage                         | 2.8 | 5   | 8   | V    |
| Current Consumption (during transmission) | 2.7 | 12  | 18  | mA   |
| Operating Temperature                     | -10 | 25  | 70  | °C   |
| Transmission Frequency                    | -   | *A  | -   | MHz  |
| Data Rate                                 | -   | 4   | -   | kB/s |
| Transmission Power                        | -   | 30  | -   | mW   |

\*A Frequency also available at 315MHz and 435MHz

### Pins Assignment



- 1 - Antenna: 18cm of wire for 433MHz
- 2 - Data In
- 3 - Vcc
- 4 - Gnd

## Transmitter XETX02A (433MHz ASK)



### Feature

- Best solution for economical RF transmission  
( > 45 meters)
- Miniature size designed for automotive application
- Low power consumption (Typ: 10nA when no transmission)
- Wide operating temperature range of  
-10 to +70 degree C

### Specification

|   | min | typ | max | unit |
|---|-----|-----|-----|------|
| Operating Voltage                         | 3.3 | 5   | 10  | V    |
| Current Consumption (during transmission) | -   | 4   | -   | mA   |
| Operating Temperature                     | -10 | 25  | 70  | °C   |
| Transmission Frequency                    | -   | *A  | -   | MHz  |
| Data Rate                                 | -   | 4   | -   | kB/s |
| Transmission Power                        | -   | 10  | -   | mW   |

\*A Frequency also available at 315MHz and 435MHz