

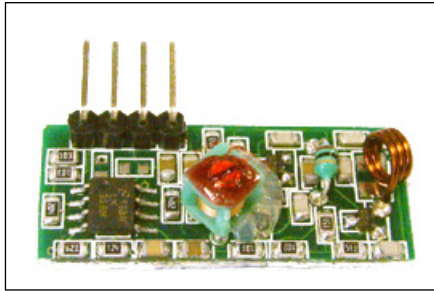


# Xenon Design Limited

## RF products specification

www.xenon-tech.com

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



#### Feature

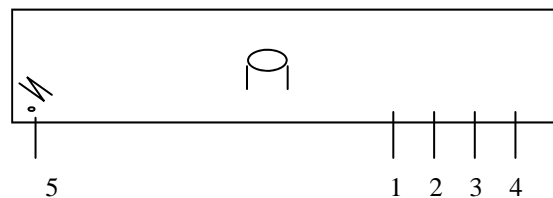
- Best solution for economical short range RF transmission
- Miniature size of 14 x 33 x 10 mm
- High reception sensitivity (-95dBm typ)
- Low power consumption (Typ: 4mA)
- Wide operating temperature range of 0 to +50 degree C

#### 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

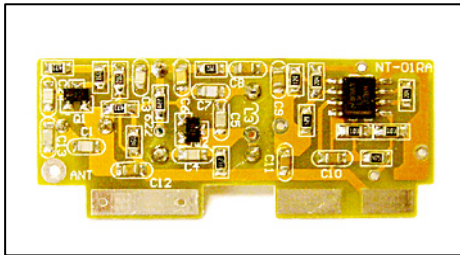
\*A Frequency also available at 315MHz and 435MHz

#### 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

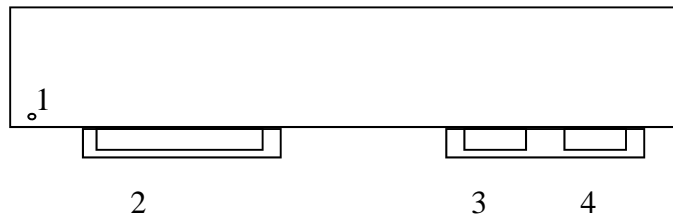
- Best solution for economical short range RF transmission
- Miniature size of 47 x 19 x 13 mm
- High reception sensitivity (-95dBm typ)
- Low power consumption (Typ: 5mA)
- Wide operating temperature range of -10 to +70 degree C

### 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

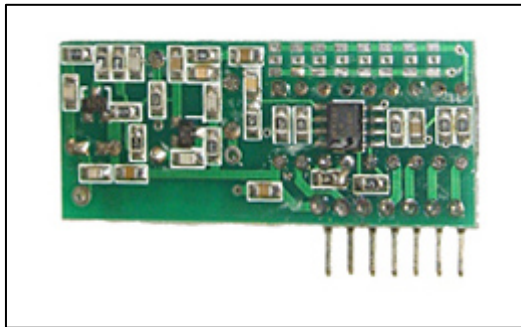
\*A Frequency also available at 315MHz and 435MHz

### 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

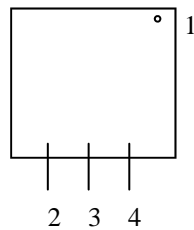
- Best solution for economical short range RF transmission (> 200 meters)
- Miniature size of 19 x 19 x 10 mm
- Low power consumption (Typ: 1uA when no transmission)
- Wide operating temperature range of -10 to +70 degree C

### 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