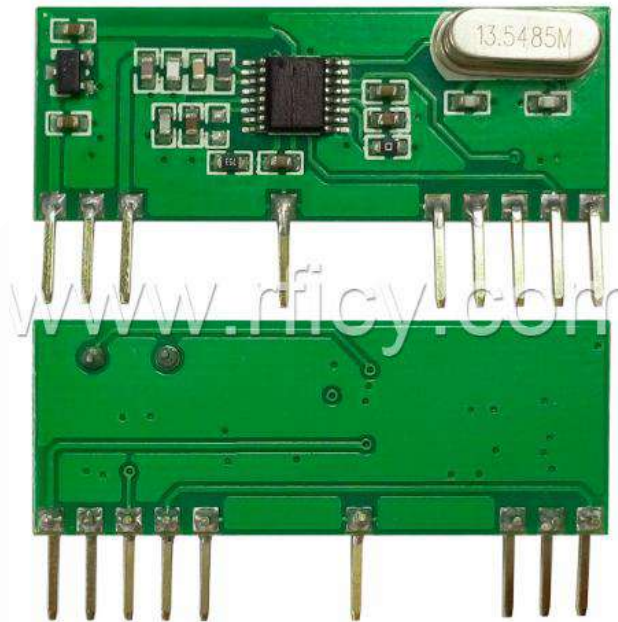


**Type: ASK/OOK Super-Heterodyne Receiver Module**  
**Model: CY60-XXX**

## 1. DESCRIPTION:

The CY60 is a ASK/OOK compatible super heterodyne wireless receiving module with high performance for ISM frequency band. With the adoption of European brand RF wireless data transferring/receiver chipsets. The model has a high receiving sensitivity and strong ability of resisting. From wireless signal input to data output can be done without any electrical circuit. User only use extra simple data decode circuit can achieve wireless products development.

CY60 is for industrial level version.



## 2. FEATURES:

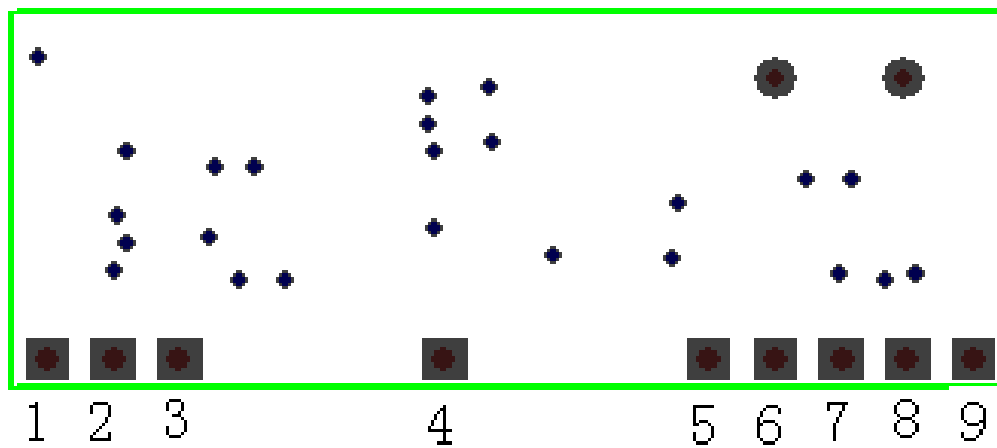
- Frequency: 315MHz/433.92MHz/868.35/915MHz (custom frequency is available);
- High sensitivity -110dBm@433.92 1kbps BER10E-2;
- Supply voltage: VCC= 3.6to 5.5 V;
- IF band: 230KHz;
- Low power consumption: 4.8mA@315M, 6mA@433.92M.
- Wide operating temperature;
- Excellent selectivity and noise rejection;

- Analog RSSI Output(only for V2.0) ;
- SIL(single in line) small package

**3. APPLICATION:**

- Remote gate controls
- Remote keyless entry
- Car alarm systems
- wireless security systems
- Automation systems

**4. PIN DEFINITION:**



| No | Pin Name | Pin Definition                                |
|----|----------|-----------------------------------------------|
| 1  | VCC      | Positive Power Supply                         |
| 2  | GND      | Ground                                        |
| 3  | ANT      | Antenna                                       |
| 4  | GND      | Ground                                        |
| 5  | GND      | Ground                                        |
| 6  | VCC      | Positive Power Supply                         |
| 7  | RSSI     | Indication of Signal Strength                 |
| 8  | DATA     | Data Out                                      |
| 9  | EN       | Enable Mode. Working Mode in low level input. |

**Note1:** ANT pin is a 50 ohm antenna input. The length is about:

- 23cm for 315Mhz
- 17cm for 433.92Mhz
- 8.6cm for 868.35Mhz
- 8.2cm for 915Mhz

## 5. ELECTRICAL CHARACTERISTICS:

Condition: Ta=25°C Vcc=5.0V Frequency=315MHz

| Parameter             | Specification |      |        | Unit | Condition        |
|-----------------------|---------------|------|--------|------|------------------|
|                       | Min           | Typ  | Max    |      |                  |
| Frequency Range       | 314.90        | 315  | 315.10 | MHz  | Others available |
| Receiver Sensitivity  |               | -110 |        | dBm  | BER=10E-2        |
| Data Rate             | 0.58          | 1.2  | 9.6    | Kbps | Manchester code  |
| Supply Voltage, VDD   | 3.6           | 5    | 5.5    | V    | DC               |
| Current               | 4.8           |      | 6      | mA   |                  |
| Operating Temperature | -40           |      | +85    | °C   |                  |

Condition: Ta=25°C Vcc=5.0V Frequency=433.92MHz

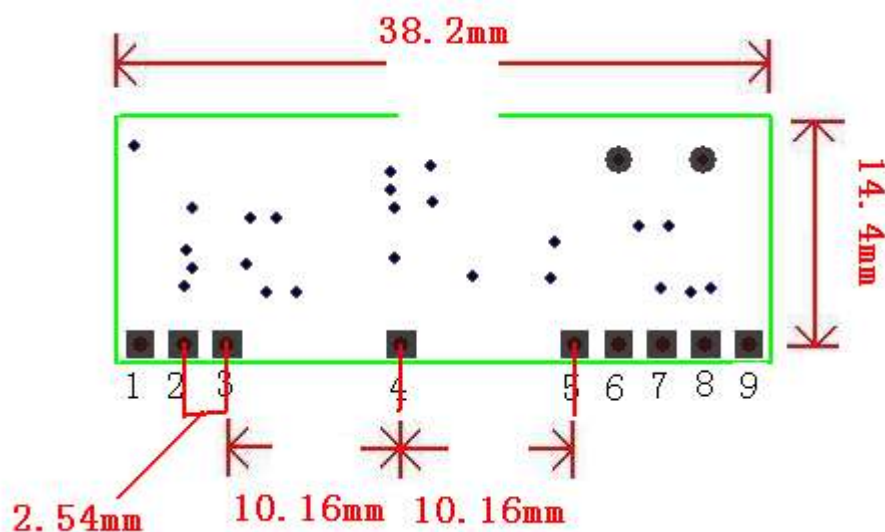


| Parameter             | Specification |        |        | Unit  | Condition        |
|-----------------------|---------------|--------|--------|-------|------------------|
|                       | Min           | Typ    | Max    |       |                  |
| Frequency Range       | 433.82        | 433.92 | 434.02 | MHz   | Others available |
| Receiver Sensitivity  |               | -110   |        | dBm   | BER=10E-2        |
| Data Rate             | 0.58          | 1.2    | 9.6    | KBaud | Manchester code  |
| Supply Voltage, VDD   | 3.6           | 5      | 5.5    | V     | DC               |
| Current               | 4.8           |        | 6.0    | mA    |                  |
| Operating Temperature | -40           |        | +85    | °C    |                  |

Condition: Ta=25°C Vcc=5.0V Frequency=868.35MHz/915MHz

| Parameter             | Specification |            |      | Unit  | Condition |
|-----------------------|---------------|------------|------|-------|-----------|
|                       | Min           | Typ        | Max  |       |           |
| Frequency Range       |               | 868.35/915 |      | MHz   |           |
| Receiver Sensitivity  | -108          | -110       | -110 | dBm   | BER=10E-2 |
| Data Rate             | 0.58          | 1.2        | 9.6  | KBaud |           |
| Supply Voltage, VDD   | 3.6           |            | 5.5  | V     | DC        |
| Current               |               | 9          |      | mA    |           |
| Operating Temperature | -40           |            | +85  | °C    |           |

## 6. MECHANICAL SIZE: (UNIT: mm)



## 7. ORDER INFORMATION:

**CY60 – 433.92M**

CY----Brand Name

60—Receiver model number

433.92M---Working Frequency in 433.92Mhz

For more information and assistance, please contact us as follows:

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