

Lead free

### DESCRIPTION

The CY30-V1.1 is a ASK/OOK compatible superhet receiver module.. CY30-V1.1 is a superior performance receiver for ISM band. With the adoption of Infineon's Industrial RF wireless data receiver chip, CY30-V1.1 has the high receiving sensitivity and strong anti-interference ability. It can do wireless signal input to the data signal output without any external circuit. Its superior performance makes a lot of before market car manufactures adopt this module as the preferred choice for RKE receiver module. Users only need to decode the data plus a simple circuit and then any wireless products development can be easily achieved.

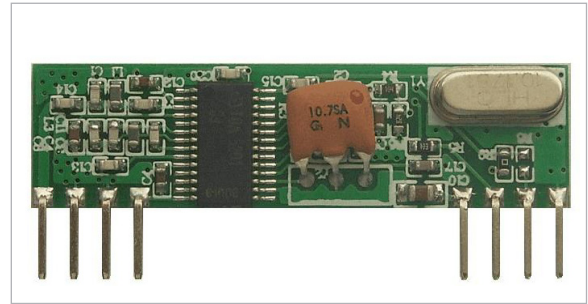
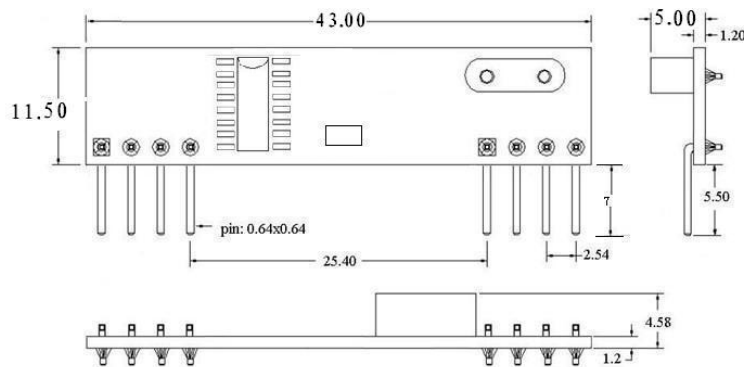
### FEATURES

- Frequency: 315MHz/433.92MHz(custom frequency is available)
- High sensitivity -110dbm@433.92 1kbps BER10E-2;
- Power down mode with very low supply current (100nA typ)
- Higher sensitivity: -110dBm
- Operation temperature: -40°C ~85°C
- Supply voltage: 5V
- Low current: 4.6mA(5V, 315MHz)
- Be compatible with most (ASK/OOK) transmitters
- Fully integrated VCO and PLL Synthesizer

### MECHANICAL DIMENSION

Unit: mm

Figure 2 CY30-V1.1 Dimension

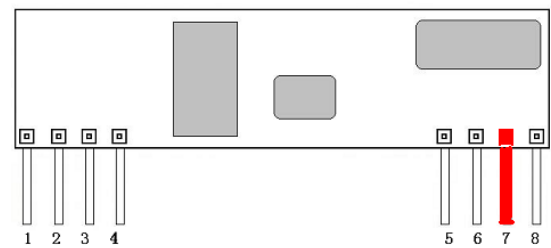


### APPLICATION

- TPMS/RKE/PKE
- Remote controls
- Car alarm systems
- Garage door and gate openers
- Alarm and security system
- Automation systems

### PIN DEFINITION

Figure 1 CY30-V1.1 Shape & Pins



1. ANT 2. GND 3. GND 4. VCC 5. VCC 6. DATA 7. EN 8. GND

Pin-out as showed in figure1 above

Pin Name	Pin Definition
ANT	Antenna In
GND	Connect to negative power supply
GND	Connect to negative power supply
VCC	Connect to positive power supply
VCC	Connect to positive power supply
DATA	Data connected to MCU
EN	Optional output: 1. Empty (default setting); 2. Battery saving mode: (working mode in high level input) (Sleeping mode in low level input)
GND	Connect to negative power supply

Note 1: ANT pin is a 50 Ohm antenna input. The length is about:  
23cm for 315MHz - 17cm for 433.92MHz

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

ELECTRICAL CHARACTERISTICS					
Parameters	Condition	Reference Value			Unit
		Min	Typ	Max.	
Frequency Range	other freq. available	314.90	315.00	315.10	MHz
Receiver Sensitivity	BER=10E-2		-110		dBm
Data Rate	Manchester Code			2.4	Kbaud
Supply Voltage VDD	DC	4.5	5.0	5.5	V
Current	DC			4.6	mA
Operating Temperature		-40		+85	°C

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

ELECTRICAL CHARACTERISTICS					
Parameters	Condition	Reference Value			Unit
		Min	Typ	Max.	
Frequency Range	other freq. available	433.82	433.92	434.02	MHz
Receiver Sensitivity	BER=10E-2		-110		dBm
Data Rate	Manchester Code			2.4	Kbaud
Supply Voltage VDD	DC	4.5	5.0	5.5	V
Current	DC			4.6	mA
Operating Temperature		-40		+85	°C

### ORDER INFORMATION:

**CY 30 - V1.1 - 433.92 X**

