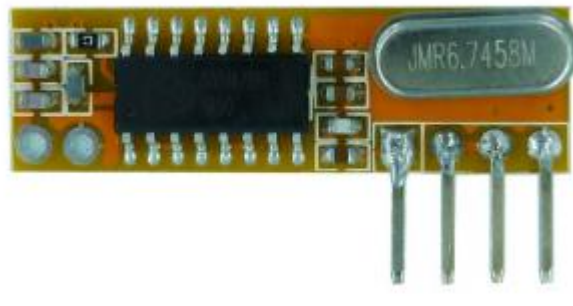


Type: ASK/OOK Super-Heterodyne Receiver Module
Model: CY19-XXX

1. DESCRIPTION:

The CY19 is an ASK/OOK compatible super heterodyne wireless receiving module with high performance for ISM frequency band. With the adoption of branded RF wireless data transferring/receiver chipsets, the module has advantages at high receiving sensitivity and low cost. 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.



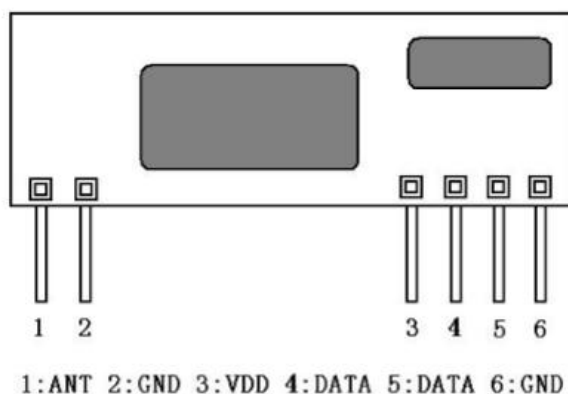
2. FEATURES:

- Low cost ASK/AM radio superhet receiver
- Receiver sensitivity: -107dBm;
- Available frequency: 315/433.92MHz (other Frequency customer selectable);
- Supply voltage: 3~5.5V
- Low power consumption: 5.0V @ 433.92MHz, 3.7-4.1mA; 5.0V @ 315MHz, 2.1-2.5mA;
- Data rate: standard data rate 2.4Kbps (It can be custom to 9.6kbps upon request).
- Excellent inhibiting ability for local oscillator radiation. multiple receivers receive signals from one transmitter simultaneously without any mutual interference and influence on range;
- Working temperature: -30°C ~ 85°C
- Dimension: 30*8.5*5mm

3. APPLICATION:

- Remote keyless entry
- Wireless door ring
- Garage door and gate openers
- Alarm and security system
- Wireless data transmission
- Remote controller

4. PIN DEFINITION:



Please note: CY19 is come with standard 4 PINs (without pin ANT and GND). Please notify us if you would like 6 pins

Pin Name	Pin Definition
ANT	RF signal input pin, connect antenna outside(note1)
GND	Connect to negative power supply
VDD	Connect to positive power supply
DATA	Data output pin, connect to MCU or decoder's input pin
DATA	Data output pin, connect to MCU or decoder's input pin
GND	Connect to negative power supply

Note1: ANT pin is a 50 ohm antenna input. The length is about:
23cm for 315 MHz
17cm for 433.92 MHz

5. ELECTRICAL CHARACTERISTICS:

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

Characteristics	Condition	Value			Unit
		Min.	Typ.	Max.	
Frequency		314.90	315	315	MHz
Modulation		ASK			
Sensitivity	50Ohm antenna input directly/1K Kbps		-107		
Receiving Bandwidth			200		kHz
Working Voltage		3.3	5.0	5.5	
Working Current		2.1	2.3	2.5	mA
Decoding output max. voltage	RL=500K	3.5		5	V
Decoding output min. voltage				0.5	V
Working Temperature		-30		+85	°C

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

Characteristics	Condition	Value			Unit
		Min.	Typ.	Max.	
Frequency		433.82	433.92	434.02	MHz
Modulation		ASK			
Sensitivity	50Ohm antenna input directly/1K Kbps		-107		
Receiving Bandwidth			200		kHz
Working Voltage		3.3	5.0	5.5	
Working Current		3.7	3.9	4.1	mA
Decoding output max. voltage	RL=500K	3.5		5	V
Decoding output min. voltage				0.5	V
Working Temperature		-30		+85	°C

6. MECHANICAL SIZE: (UNIT: mm)

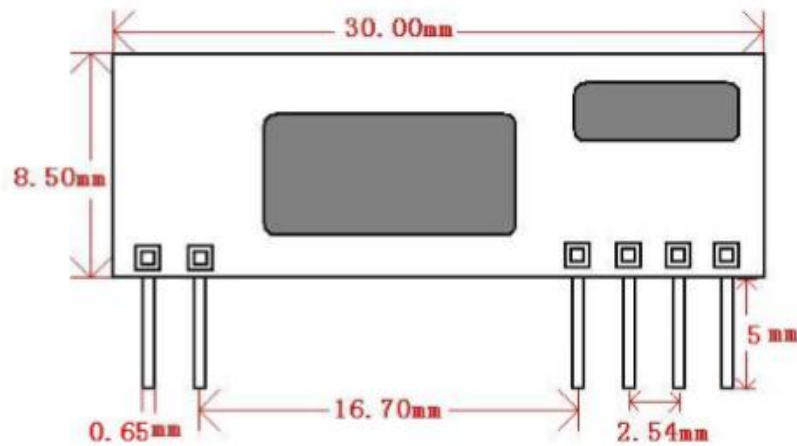


Figure2 CY18 Dimension

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

CY WIRELESS TECHNOLOGY LIMITED

Add: 1407, Block C, Tairan Building, 8th Tairan Road, Futian District,

Shenzhen, Guangdong Province, China

Website: www.rficy.com

Email: info@rficy.com