



Type: ASK/OOK Super-Heterodyne Receiver Module

Model: CYTD1-XXX

Description:

CYTD1 ASK wireless transmitting module is using the surface acoustic resonator and high power RF circuit. This circuit will have current consumption only if you press the button which means there is no electricity consumption at ordinary times. It is simple to use. CYTD1 can cooperate with the commonly used ASK super-regenerative receiver circuit or super heterodyne receiver circuit. CYTD1 is with high frequency stability. The data port can direct access to the data signals of the single chip microcomputer or wireless encoding chip and it can easily achieve the function from data to the wireless signal emission.



Order Information:

Model NO.	Frequency
CYTD1-315	315 MHz
CYTD1-433	433.92 MHz



Features:

- High output power, when using with CY11, it can reach 2000 meters in open area.
- Transmitting Power > 0.5W.
- Operating Voltage: DC5V
- Operating Current: About 120mA
- Operating Frequency: 315MHz/433MHz (custom frequency is available)
- Modulation: ASK/OOK
- Using SAW frequency stabilization (+-75Khz), working frequency is stable.
- There is no current consumption when there is no data transmitting. The current consumption with low emission is 120mA.
- Shape Size: 30×20×6.5mm
- Operating Temperature: -20℃~+70℃
- Input Signal: TTL level

Application

- RKE – remote keyless entry
- Gate/Access Control
- Wireless alarm
- Remote Shutter/Curtain
- Home automation system
- Security and alarm systems
- Wireless Industry Control

Pin Description

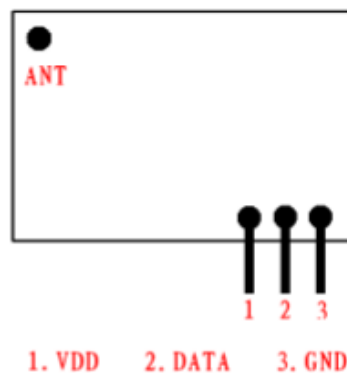


Figure1 CYTD1 Shape & Pins



Pin-out as showed in figure 1 above

Pin Name	Pin Function
VDD	Positive Power Supply
DATA	Data connected to MCU
GND	Connect

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

Electrical Characteristics:

Condition: Working voltage: 5.0V, temperature = 25°C

Characteristics	Symbol	Condition	Value			Unit
			Min.	Typ.	Max.	
Frequency	Fc		315		433.92	MHz
Modulation Mode			ASK			
Output power		5V/50Ω		28		dBm
Data-rate				2.4	4.8	Kbps
Frequency Tolerate	Fc			±75		kHz
Current	IRC				120	mA
Working Voltage	VCC			5		V
Working Temperature	TC		-20		+70	°C

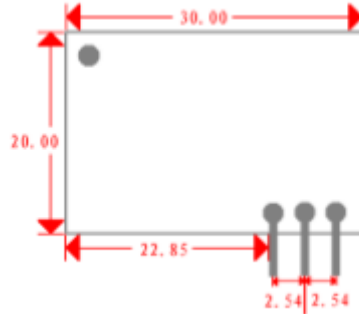
**Mechanical Size: (Unit: MM)**

Figure2 CYTD1 Dimension

CAUTION

---Transmitting time: < 500ms (less than 500ms for each emission).

---Power off when CYTD1 is not transmitting. It is suggested to add an electric switch circuit to control this. It is suggested to allow 3 minutes for the module to cool down before next transmitting.

---It's a high output power transmitting module, it's normal that the heat is higher than standard modules.

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

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