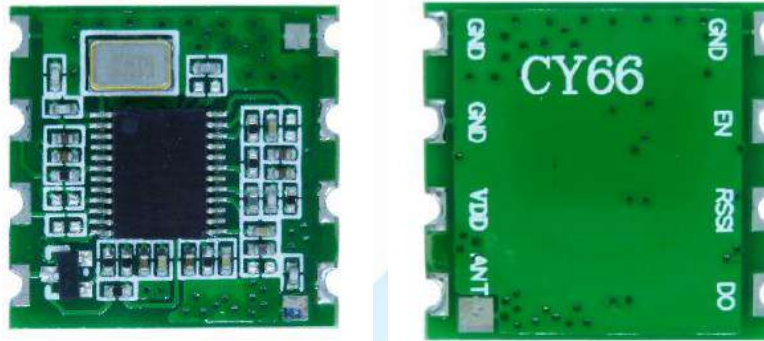


Type: ASK/OOK Super-Heterodyne Receiver Module

Model: CY66-XXX

1. DESCRIPTION:

The CY66-XXX is a ASK/OOK compatible superhet receiver which is designed with high sensitivity and long distance transmission. It can easily achieve the development of wireless products by adding a simple data decoding circuit.



2. FEATURES:

- Frequency: 315MHz/433.92MHz(custom frequency is available);
- High sensitivity -116dBm (ASK/OOK);
- Supply voltage: VCC= 3.6 to 5.5 V;
- IF band: 220KHz;
- Low power consumption: Icc=6.3mA(FM mode, Vcc=5.0V@434MHz);
- Consumption current during BS(battery saving)mode: 0uA(typ.);
- Temperature: -40 ~ 85°C
- Easy for application;
- Wide operating temperature;
- Fast response time.

3. APPLICATION:

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

4. PIN DEFINITION:



Figure1 CY66 Shape & Pins

Pin Name	Pin Definition
ANT	Antenna In
VDD	Positive Power Supply
GND	Ground
GND	Ground
DO	Data output
RSSI	YES
EN	Optional output: 1, No Connect (default setting) 2, Battery Saving Mode: (Working mode in High level input) (Sleeping mode in Low level input)
GND	Ground

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

5. ELECTRICAL CHARACTERISTICS

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

Parameter	Specification			Unit	Condition
	Min	Typ.	Max		
Carrier Frequency	310	314.98	316	MHz	IF = 220kHz
Supply Voltage	3.6	5.0	5.5	V	5.0v at default
Supply current	4.3	5.7	7.1	mA	
Modulation Mode	ASK				
RF sensitivity		-116		dBm	600bps(Manchester), dev=±40kHz
Frequency Deviation		±40		kHz	
-3dB Bandwidth		250		KHz	
Data Rate		1.2	9.6	Kbps	
Turn on time from sleep			3	ms	
“L” level input/output level	0		0.2	mA	
“H” level input/output level	2.6		5.5	V	
Output leak current (H level)		0	2	μA	
Output voltage (L level)			0.4	V	I _{DATAL} = 200μA
Wave shaping output duty ratio	45	50	55	%	V _{IN} (MIX) = 60dBm VEMFF or single tone
Image Suppression Ratio		35		dB	
Operating Temperature Range	-40		+85	°C	

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

Parameter	Specification			Unit	Condition
	Min	Typ.	Max		
Carrier Frequency	430	433.92	435	MHz	IF = 220kHz
Supply Voltage	3.0	5.0	5.5	V	5.0v at default
Supply current	4.6	6.1	7.6	mA	
Modulation Mode	ASK				
RF sensitivity		-116		dBm	600bps(Manchester), dev=±40kHz
Frequency Deviation		±40		kHz	
-3dB Bandwidth		250		KHz	
Data Rate		1.2	9.6	Kbps	
Turn on time from sleep			3	ms	
“L” level input/output level	0		0.2	mA	
“H” level input/output level	2.6		5.5	V	
Output leak current (H level)		0	2	μA	
Output voltage (L level)			0.4	V	I _{DATAL} = 200μA
Wave shaping output duty ratio	45	50	55	%	V _{IN} (MIX) = 60dBm VEMFF or single tone
Image Suppression Ratio		35		dB	
Operating Temperature Range	-40		+85	°C	

6. MECHANICAL SIZE: (UNIT: mm)

Length: 20mm

Width: 20mm

Height: 2.3mm

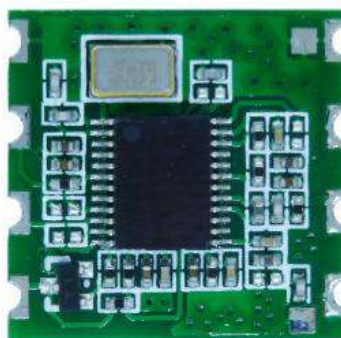
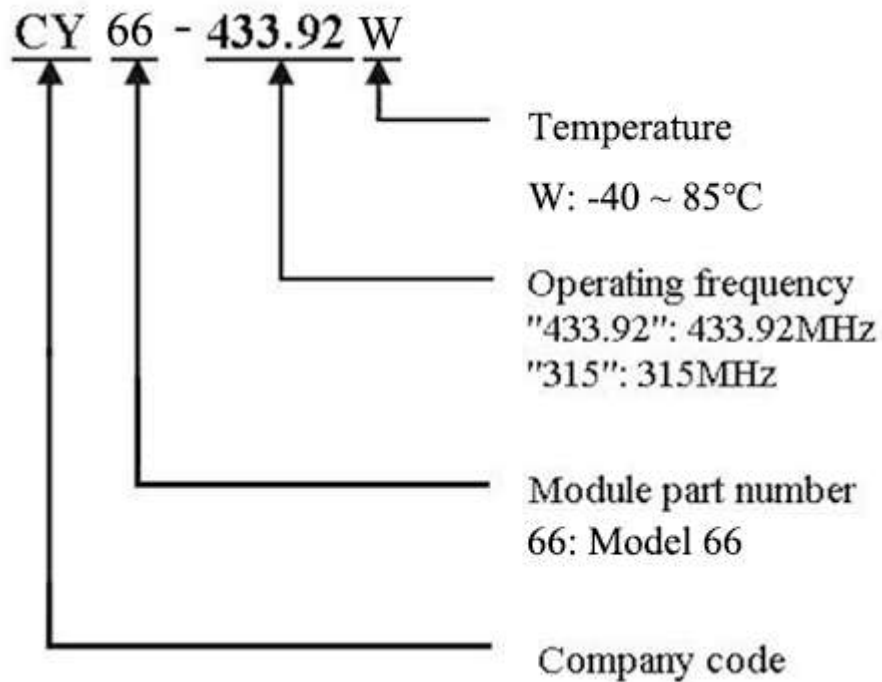


Figure2 CY66 Dimension

7. ORDER INFORMATION



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

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