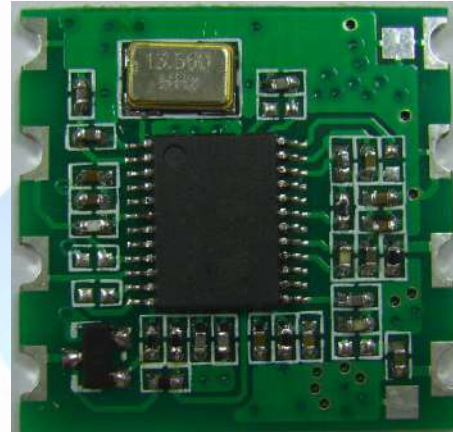


Type: ASK/OOK/FSK Super-Heterodyne Receiver Module Model: CY66-XXX

1. DESCRIPTION:

The CY66-XXX is a ASK/OOK/ FSK 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) , -115dBm(FSK);
- 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.);
- 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:



PIN NAME	Pin Definition
ANT	Antenna In
VDD	Positive Power Supply
GND	Ground
GND	Ground
DO	Data Output
RSSI	YES
EN	Optional output: 1, DATA output(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

Characteristics	Min	Typ	Max	Unit	Note
F _c Carrier Frequency	310	314.98	316	MHz	IF = 220kHz
V _{cc} Supply Voltage	3.6	5.0	5.5	V	5.0v at default
I _s Supply current	4.3	5.7	7.1	mA	ASK
	4.5	5.9	7.3		FSK
Modulation Mode	ASK/FSK				
RF sensitivity		-116		dBm	600bps(Manchester), dev=±40kHz
F _{dev} Frequency Deviation		±40kHz			
B _w -3dB Bandwidth		250		KHz	
Datarate		1.2	9.6	kbps	
T _{on} Turn on time from sleep			3	ms	
V _{IL} “L”level input/output level	0		0.2	mA	
V _{IH} “H”level input/output level	2.6		5.5	V	
Output leak current (H level)		0	2	µA	
V _{DATAL} Output voltage (L level)			0.4	V	I _{DATAL} = 200µA
DR Wave shaping output duty ratio	45	50	55	%	V _{IN} (MIX) = 60dBmVEMFF or single tone
I _{RR} Image Suppression Ratio		35		dB	
T _{op} Opertaing Temperature Range	-40		+85	°C	

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

Characteristics	Min	Typ	Max	Unit	Note
F _c Carrier Frequency	430	433.92	435	MHz	IF = 220kHz
V _{cc} Supply Voltage	3.0	5.0	5.5	V	5.0v at default
I _s Supply current	4.6	6.1	7.6	mA	ASK
	4.7	6.3	7.9		FSK
Modulation Mode	ASK/FSK				
RF sensitivity		-116		dBm	600bps(Manchester), dev=±40kHz
F _{dev} Frequency Deviation		±40kHz			
B _w -3dB Bandwidth		250		KHz	
Datarate		1.2	9.6	kbps	At default



T _{on}	Turn on time from sleep			3	ms	
V _{IL}	“L”level input/output level	0		0.2	mA	
V _{IH}	“H”level input/output level	2.6		5.5	V	
	Output leak current (H level)		0	2	μA	
V _{DATAL}	Output voltage (L level)			0.4	V	I _{DATAL} = 200μA
DR	Wave shaping output duty ratio	45	50	55	%	V _{IN} (MIX) = 60dBmVEMFF or single tone
I _{RR}	Image Suppression Ratio		35		dB	
T _{op}	Opertaing Temperature Range	-40		+85	°C	

6. MECHANICAL SIZE: (UNIT: mm)

Length: 20mm

Width: 20mm

Height: 2.3mm



7.ORDER INFORMATION

CY66-433.92M

CY- --Receiving Module

66-----Model Number

433.92M---Frequency in 433.92MHz;

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