

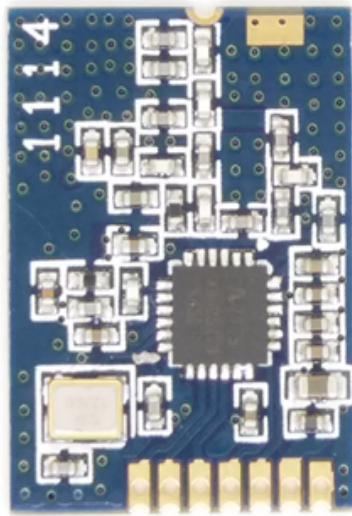
# **M7139-A7139 A7139 Wireless Module (HKW39)**

## **Instructions for use**



#### General Description

A7139 A7139 is a wireless transceiver chip design, and is a complete, compact size, low-power wireless transceiver module. A7139 is an ISM band wireless transceiver chip, the main set 315/433/470/868/915 / MHz ISM / SRD band, the maximum output power up to 20dBm, the maximum transfer rate of 250Kbps. Users do not need to understand RF circuit design, the module can be easily developed using a stable performance and high reliability of wireless products.



#### Basic Features

1, the center frequency of 433MHz, can work in the range of 410-480MHz; 2, maximum output power of 18dBm; 3, high receiver sensitivity;

4, support FSK, GFSKK modulation, programmable control; 5, communication rate 0 ~ 250Kbps, programmable configuration; 6, 64byte separate transmit / receive data buffer; 7, low power consumption, receives current <4mA (AGC Off ); 8, having a low-power mode, power consumption <0.3uA;

9, WOR function can be set and a standby time of switching the receiving state to reduce power consumption; 10, power supply voltage: 2.2 ~ 3.6V DC

#### Applications

1, logistics tracking, warehouse inspection, electronic tags, etc.  
 2 Instead of 232,485 wireless data communication 3, industrial instrumentation, wireless data acquisition and control 4, AMR (water, electricity, gas) meter reading three tables 5, and residential buildings (Smart Home) 6 control, electronic consumer products wireless remote control 7, 8 wireless alarm and security systems, wireless sensor networks

#### Technical Parameters

Test Conditions: Ta = 25 ° C, VCC = 3.3V

Specifications Parameter		Remark
Working voltage of	2.2 ~ 3.6V DC	
Center frequency	433MHz	Operating range 410-480MHz
Frequency error of $\pm$	10ppm	
Modulation	FSK, GFSK	Programmable Configuration
Output Power	- 40 ~ + 18dBm	Programmable Configuration
Reception sensitivity of	-110dBm	100Kbps / FSK / 433.92MHz
Receiving current	<4mA	
Emission current	TBD	
stand-by current	<0.3uA	Please refer to the chip work
Transmission rate	0 ~ 250Kbps	Programmable Configuration

Communication distance	TBD	
Antenna impedance	50ohm	
Operating temperature	- 20 ~ 75 ° C	
Storage temperature	- 50 ~ 125 ° C	
Dimensions	20.6 × 14.8 × 2.4 mm	Pin, and please refer to the detailed dimensions Dimensions

Pin definitions

sequence number	lead foot	class type	Trace State
1	S C S	Electricity source Ground	core sheet sheet selected
2	S C K	S P I Time bell line	S P I Time bell
3	S D I O	S P I number according to line	S P I number according to
4	G D O 1	number word I / O	can Match Put With Property Raw touch hair letter number or Time bell letter number
5	G D O 2	number word I / O	can Match Put With Property Raw touch hair letter number or Time bell letter number
6	V C C	work Make Electricity source	Electricity source Electricity Press , straight flow 2 . 2 ~ 3 . 6 V lose Enter
7	G N D	Electricity source Ground	with system Commission Altogether Ground
8	A N T	day line end mouth	Block anti- 5 0 o h m

