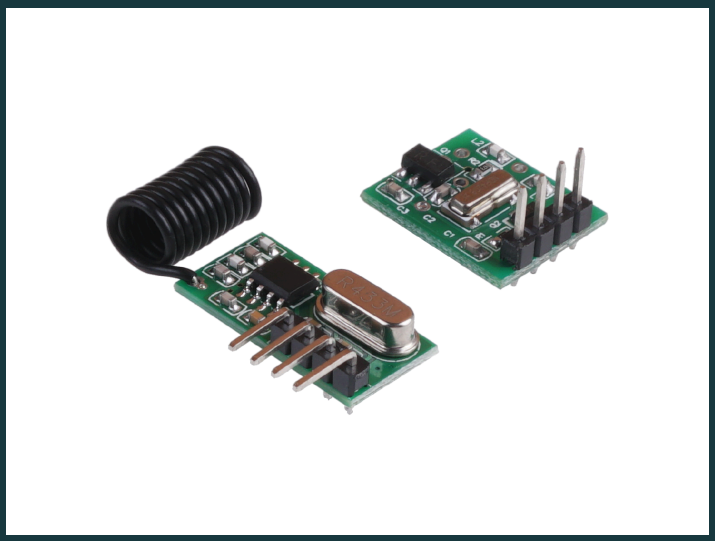
seeed studio

INDUSTRIAL PRODUCT DATASHEET

Superheterodyne wireless transceiver module-433MHz

Superheterodyne wireless transceiver module-433MHz for low-power, high-sensitivity wireless remote control and data transmission applications with wide temperature range and strong radiation suppression.

SKU	UPDATED	PRICE
114992733	2026-10-09 07:45:09	$4.90(Excl. VAT)



Overview

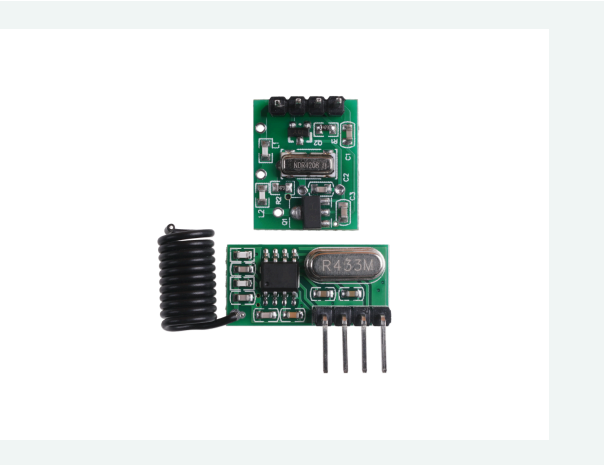


The Superheterodyne wireless transceiver module-433MHz features low power consumption at 3.3V about 3.8mA / 5V about 4.2mA (315MHz), high receiving sensitivity of -109dBm@10kbps, wide temperature range -40~85℃, flexible application for breadboard and PCB, and strong radiation suppression ability with no mutual interference. It is suitable for car remote control door switches (RKE), remote access control, wireless security alarm, remote control curtain machines, wireless industrial controllers, wireless data transmission, and wireless remote control robots.

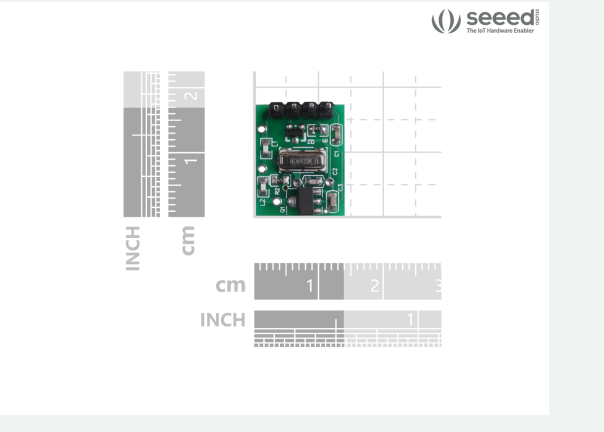
Key Features

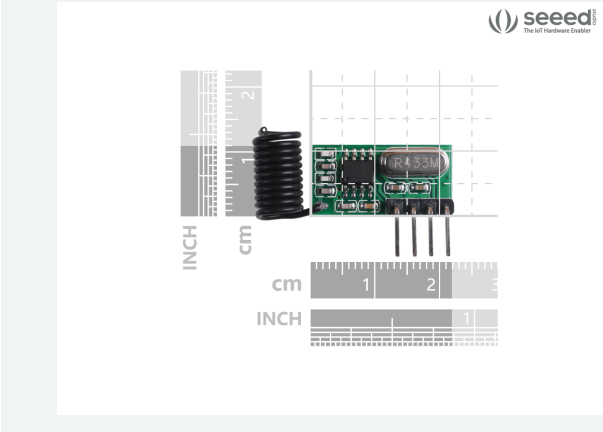
- Low power consumption: 3.3V about 3.8mA / 5V about 4.2mA（315MHz)
- High receiving sensitivity: -109dBm@10kbps
- Wide temperature range: -40~85℃
- Flexible application,breadboard and PCB friendly
- Strong radiation suppression ability:no mutual interference, no influence on receiving distance.

Product Gallery









Specification

Parameter	Description
Working voltage	Transmitter(3-12V),Receiver(3.3-5V)

Working current	Transmitter ：max≤35mA(12V)， min≤2mA(3V) Receiver ：max≤4.5mA(5.5V)， min≤3.8mA(3.3V)
Principle of work	Superhet（VCO, PLL）
Modulation	OOK/ASK
Working band	315MHz ; 433.92MHz (customize service available)
Sensitivity	-109dBm (50Ω)
Modulation rate	<10Kbps
Decoding form	IC decoding
Temperature range	-40~85℃

Pin	Name	Function declaration
1	VCC	Positive pole
2	GND	Negative pole
3	DATA	Signal pin
4	ANT	Antenna pin

Pin	Name	Function declaration
1	ANT	Antenna pin
2	VCC	Positive pole
3	DATA	Signal output
4	DATA	Signal output
5	GND	Negative pole

Dimensions	50mm x29mm x9mm
Weight	G.W 5g
Battery	Exclude

Applications

- **Car remote control door switch (RKE)**
- **Remote access control**
- **Wireless security alarm**
- **Remote control curtain machine**
- **Wireless industrial controller**
- **Wireless data transmission**
- **Wireless remote control robot**

Part List

Transmitter module	1
Receiver module	1

Compliance & Logistics



HSCODE	8517709000
USHSCODE	8517620090
UPC	841454112822
EUHSCODE	8517180000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/Superheterodyne-wireless-transceiver-module-315MHz-433MHz-p-5078.html

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