



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

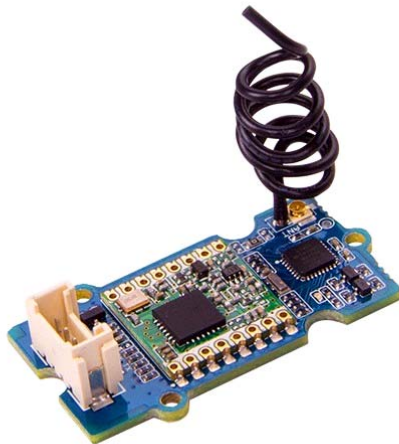
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Grove - LoRa Radio 433MHz

SKU 113060007

- Using RFM95 module based on SX1276 LoRa®
- Inputting voltage : 5V/3.3V
- ~28mA(Avg) @+20dBm continuous transmit
- ~8.4mA(Avg)@standby mode
- ~20mA(Avg) @receive mode, BW-500kHz



Description

Grove is a very powerful platform developed by Seeed Studio to simplify your IoT projects. We have integrated the grove connector to most boards produced by Seeed to make them become a system. This time, we combined Grove with LoRa to provide an ultra-long-range wireless module for you.

The main functional module in Grove - LoRa Radio 433MHz is **RFM98**, which is a transceiver features the LoRa long range modem that provides ultra-long range spread spectrum communication and high interference immunity whilst mini-missing current

consumption. The heart of Grove - LoRa Radio 433MHz is ATmega168, a widely used chip with very high-performance and low power consumption, especially suitable for this grove module.

There we already integrated a simple wire antenna to receive signal, if the signal is too weak to receive, don't worry, the MHF connector next to the antenna is for adding a second antenna which has MHF interface to gain more signal.

This is the 433MHz version, which can be used for 433MHz communication. You can also find the version for 868MHz at [Grove - LoRa Radio 868MHz](#).

Note:

- Please keep the antenna vertical to the board and as straight as possible to make the best performance.
- Please avoid making any big metal object near the antenna and a metal cape is also not recommended if you need to add a cape for your device.

Features

- Using RFM95 module based on SX1276 LoRa®
- Inputting voltage : 5V/3.3V
- ~28mA(Avg) @+20dBm continuous transmit
- ~8.4mA(Avg)@standby mode
- ~20mA(Avg) @receive mode, BW-500kHz
- Working Temperature : -20 – 70°C
- Communication Interface : UART
- Simple wire antenna or MHF Connector for external high gain antenna
- Working Frequency : 433MHz
- +20dBm - 100 mW Power Output Capability
- Size : 20*40mm