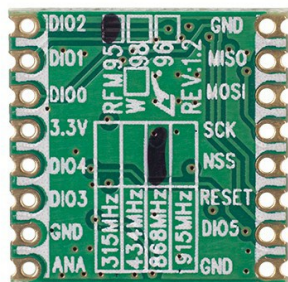
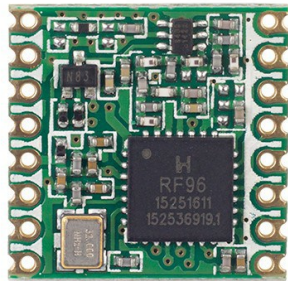
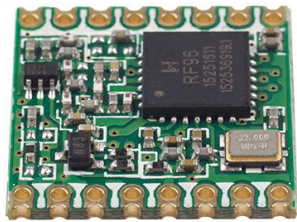
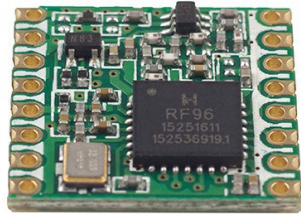
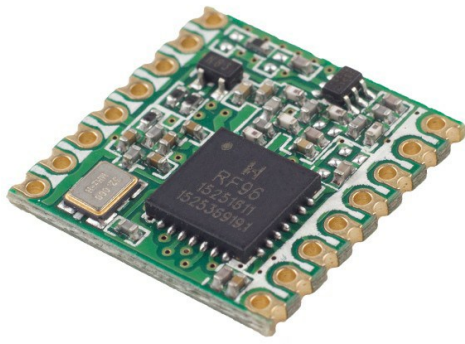


x







## RFM95 Ultra-long Range Transceiver Module/LoRa Module/support 868M frequency

SKU 109990166

ADD TO CART

### Description

The RFM95 transceivers feature the LoRa™ long range modem that provides ultra-long range spread spectrum communication and high interference immunity whilst minimising current consumption.

Using the patented LoRa™ modulation technique RFM95 can achieve a sensitivity of over -148dBm using a low cost crystal and bill of materials. The high sensitivity combined with the integrated +20 dBm power amplifier yields industry leading link budget making it optimal for any application requiring range or robustness.

LoRa™ also provides significant advantages in both blocking and selectivity over conventional modulation techniques, solving the traditional design compromise between range, interference immunity and energy consumption.

These devices also support high performance (G)FSK modes for systems including WMBus, IEEE802.15.4g. The RFM95 deliver exceptional phase noise, selectivity, receiver linearity and IIP3 for significantly lower current consumption than competing devices.

### Features

- LoRa™ Modem.
- 168 dB maximum link budget.
- +20 dBm - 100 mW constant RF output vs. V supply.
- +14 dBm high efficiency PA.
- Programmable bit rate up to 300 kbps.
- High sensitivity: down to -148 dBm.
- Bullet-proof front end: IIP3 = -12.5 dBm.
- Excellent blocking immunity.
- Low RX current of 10.3 mA, 200 mA register retention.
- Fully integrated synthesizer with a resolution of 61 Hz.
- FSK, GFSK, MSK, GMSK, LoRa™ and OOK modulation.
- Built-in bit synchronizer for clock recovery.
- Preamble detection.
- 127 dB Dynamic Range RSSI.
- Automatic RF Sense and CAD with ultra-fast AFC.
- Packet engine up to 256 bytes with CRC.
- Built-in temperature sensor and low battery indicator.
- Module Size: 16\*16mm

### APPLICATIONS:

- Automated Meter Reading.
- Home and Building Automation.
- Wireless Alarm and Security Systems.
- Industrial Monitoring and Control
- Long range Irrigation Systems





### Part List





1 x Lora module (support 868M frequency)

### Documents

[RFM95\\_96\\_97\\_98\\_DataSheet](#)

### Best-sellers

 <p>RFM98 Ultra-long Range Transceiver Module/LoRa Module/support 433M</p>	 <p>LoPy</p>	 <p>Raspberry Pi LoRa/GPS HAT - support 868M frequency</p>	 <p>LoRa LoRaWAN Gateway - 868MHz Kit with Raspberry Pi 3</p>
<p>RFM98 Ultra-long Range Transceiver Module/LoRa</p>	<p>LoPy</p>	<p>Raspberry Pi LoRa/GPS HAT - support 868M</p>	<p>LoRa LoRaWAN Gateway - 868MHz Kit with Raspberry Pi</p>

			
Dimensions ESP-32S Wifi Bluetooth Module	Linkit Smart 7688 Duo	Linkit 7697	65mm x 120mm x 1.8mm LoRa/GPS Shield For Arduino
Battery	Exclude		
ESP-32S Wifi Module	Linkit Smart 7688 Duo	Linkit 7697	LoRa/GPS Shield For Arduino
RFM95 Ultra-long Range Module			

RFM95 Ultra-long Range Module

Have a question about this? Ask people who own this product.

1 Are you going to have the US (915mhz) version in stock?  
 Steven Osborn on Mar 21, 2017  
 Please contact order@seeed.cc.Thanks.

Dragino LoRa Shield support 433M frequency  
 Grove Breakout for Linkit Smart 7688 Duo  
 A17688H

			
Module RF Explorer - 868M	RF Explorer - 433M	RFEMWSUB1G Module	RFEM2.4G module
ADD TO CART	ADD TO CART	ADD TO CART	ADD TO CART

RF Explorer - 868M RF Explorer - 433M RFEMWSUB1G Module RFEM2.4G module

			
RF Explorer model 2.4G	DSO Quad - Aluminium Alloy Silver	DSO Quad - Aluminium Alloy Black	RF Explorer - ISM Combo
SKU 109990166			

RF Explorer model 2.4G DSO Quad - Aluminium Alloy Silver DSO Quad - Aluminium Alloy Black RF Explorer - ISM Combo

IN STOCK 5 Available  
 RF Explorer model 2.4G  
 Description Silver ADD TO CART  
 ADD TO CART ADD TO CART ADD TO CART

RFEM WSUB3G Module  
 RFEM WSUB3G Module  
 ADD TO CART

RF Explorer - ISM Combo





