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SparkFun Transceiver Breakout - nRF24L01+ (RP-SMA)

WRL-00705 ROHS ✓

★★★★★ 3



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\$19.95Shipping outside of
the US?[Click here for info](#)

1

quantity

24 in
stock

\$19.95 1+ units

\$18.95 10+ units

\$17.96 25+ units

\$16.96 100+
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program

Description: The nRF24L01 module is the latest in RF modules from SparkFun. This module uses the 2.4GHz transceiver from Nordic Semiconductor, the nRF24L01+. This transceiver IC operates in the 2.4GHz band and has many new features! Take all the coolness of the nRF2401A and add some extra pipelines, buffers, and an auto-retransmit feature - very nice!

This board features a reverse polarized SMA connector for maximum RF range. Please remember, you will need a mating RP-SMA 2.4GHz antenna (listed below).

Because of lower costs and better performance, we recommend the nRF24L01 over the original nRF2401A modules.

This unit has an onboard 3.3V regulator and has 5V tolerant IO lines. This makes it very flexible, but you will need to power the unit with 3.3V or higher voltage for the regulator to perform properly.

Note: We now populate these boards with the nRF24L01+. The '+' version of the IC has improved range, sensitivity, and data rates. The command set is backward compatible with the original nRF24L01.

Features:

- On-board 3.3V LDO Regulator (3.3 to 7V supply allowed)
- Reverse Polarized SMA Connector for external 2.4 GHz Antenna
- 100m Range at 250kbps
- 250kbps to 2Mbit Data Rate
- Auto Acknowledge
- Auto Re-Transmit
- Multiceiver - 6 Data Pipes
- 32 Byte seperate TX and RX FIFOs
- 5V tolerant input pins
- Software selectable channel from 2400MHz to 2525MHz (125 Selectable channels)
- Minimum number of external components
- Pins broken out : VCC, CE, CSN, SCK, MOSI, MISO, IRQ, GND
- Lots of application notes and support on Nordic Semiconductor Website

Documents:

- Schematic
- Eagle Files
- Hookup Guide
- Nordic VLSI website
- nRF24L01 with RPSMA Dimensional Drawing - Please note this does not show the RP-SMA connector
- nRF24L01 Datasheet
- Great Nordic tutorials
- mbed Example
- Example PIC Code
- GitHub

Recommended Products

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SPARKFUN RECOMMENDED

HackRF One

WRL-13001

\$299.95

★★★★☆ 27



SPARKFUN RECOMMENDED

SparkFun Transceiver**Breakout - nRF24L01+**

WRL-00691

\$19.95

★★★★☆ 2



SPARKFUN RECOMMENDED

2.4GHz Duck Antenna RP-
SMA - Large

WRL-00558

\$9.95

★★★★☆ 1



SPARKFUN RECOMMENDED

2.4GHz Duck Antenna RP-
SMA

WRL-00145

\$7.95

★★★★★ 1

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Customer Reviews

★★★★★ 5 out of 5

Based on 3 ratings:

5 star	3
4 star	0
3 star	0
2 star	0

1 star

0

1 of 1 found this helpful:

★★★★★ Best RF24

about a year ago by alohawild ✓ verified purchaser

I have been trying for years with various versions of RF24 to get a stable communications running. This works and I had it up for hours and it did not miss anything.

I have written basic code to control a servo from a slider pot on another one.

Command to Slave is here enjoy: <https://github.com/alohawild/RF24>

★★★★★

about 8 months ago by Member #528453 ✓ verified purchaser

The breakout board is good but you will need to get the soldering done yourself. Pretty standard equipment .
