Chipsmall

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.

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SparkFun Transceiver Breakout - nRF24L01+ (RP-SMA)

WRL-00705 ROHS✔

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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-Trasmit
- 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