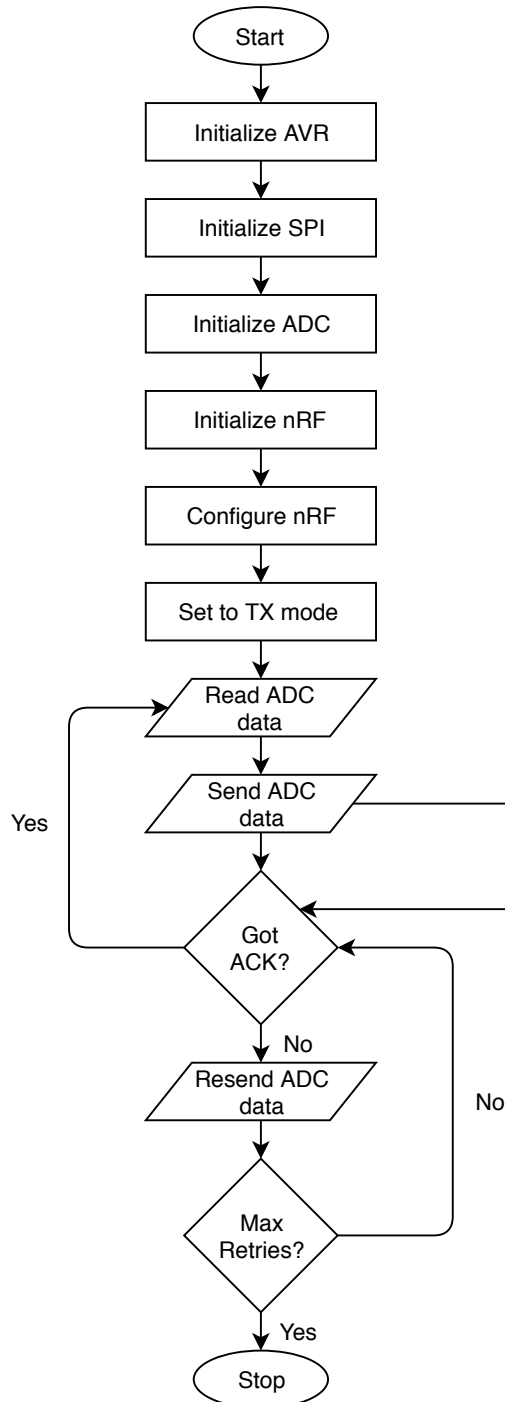


nRF_TX_test



Configure GPIOs as I/P or O/P if required

Set MOSI, SCLK as output and MISO as input
Initialize both SPIs in master mode with SCLK = 4 MHz

Set the ADC resolution to 8-bit
Set the ADC frequency to 125 kHz
Enable the ADC

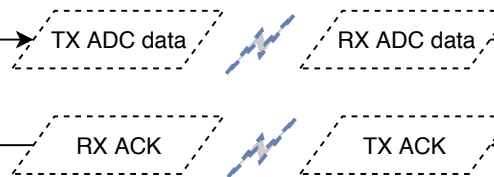
Set the Baud to 9600
Set to asynchronous mode
Enable TX and RX

Set the CSN and CE control pins as outputs
Set CE low and CSN high

Refer the nRF_Config(); flowchart for the configuration

Note: nRF requires typically 5.3ms settling time after POR.
When nRF24L01 is in power down mode it must settle for 1.5ms before it can enter the TX or RX modes. If an external clock is used this delay is reduced to 150µs. CE should be held low/high for a minimum of 10µs.

Communication



nRF24L01 settings:

RF Channel frequency: 2.505 GHz
Default data pipe : 0
Address width : 5 bytes
Air data rate : 2 MBPS
Output power : 0 dBm
LNA : Disabled
Auto ACK : Enabled
CRC : Enabled 1 byte
Retry : Disabled
Dynamic payload : Disabled

Created on 20th June 2018
by Frederic Philips

nRF_RX_test

