

Figuur 5: Reciever

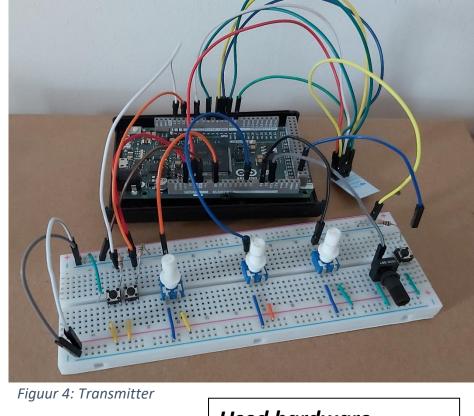
Possible applications

- Wireless PC periphals
- VoIP headsets
- Game controllers
- Sports watches and sensors
- Home and commercial automation
- Active RFID

RF24L01 rf-transceiver

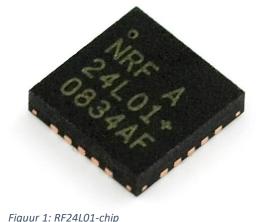
The RF24L01

- Send and receive up to 32 on 6 pipes
- 128 rf-channels between 2400 and 2518 MHz.
- Auto-acknowlegde.
- Low-power usage
- 2 datarate modes (1 and 2 Mbps)
- 4 possible rf-outputpower (-18, -12, -6, 0 dBm)

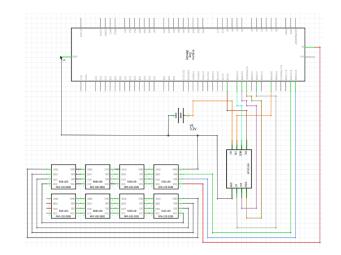


Used hardware

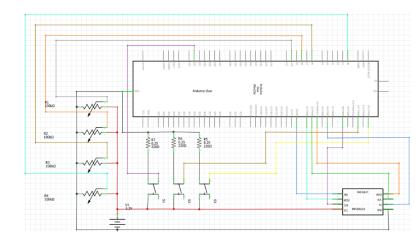
- 4 Potentiometers
- 3 pushbuttons
- 2 arduino dues
- 2 Rf24L01-module (vma322)
- 1 APA102



.g....



Figuur 2: Circuit schematic Reciever



Figuur 3: Circuit schematic Transmitter

The library ● The lib

- The library contains 1 class with 3 subclasses
 - In the subclasses are stored the values of the registers,
 command and the functions of the RF24L01
- In the mainclass are all the functions to read and write data to the RF24L01 and change to specific functions on the RF24L01 by changing the values in the Registers

the mainelass are all the functions to read and write data

Documentation available at https://stephan.zaaijer.net/ipass.html

https://github.com/StephanZaaijer/IPASS

Library available at

Made by: Stephan Zaaijer

Date: 28-06-2021



Figuur 6: VMA322 RF-transcievermodule