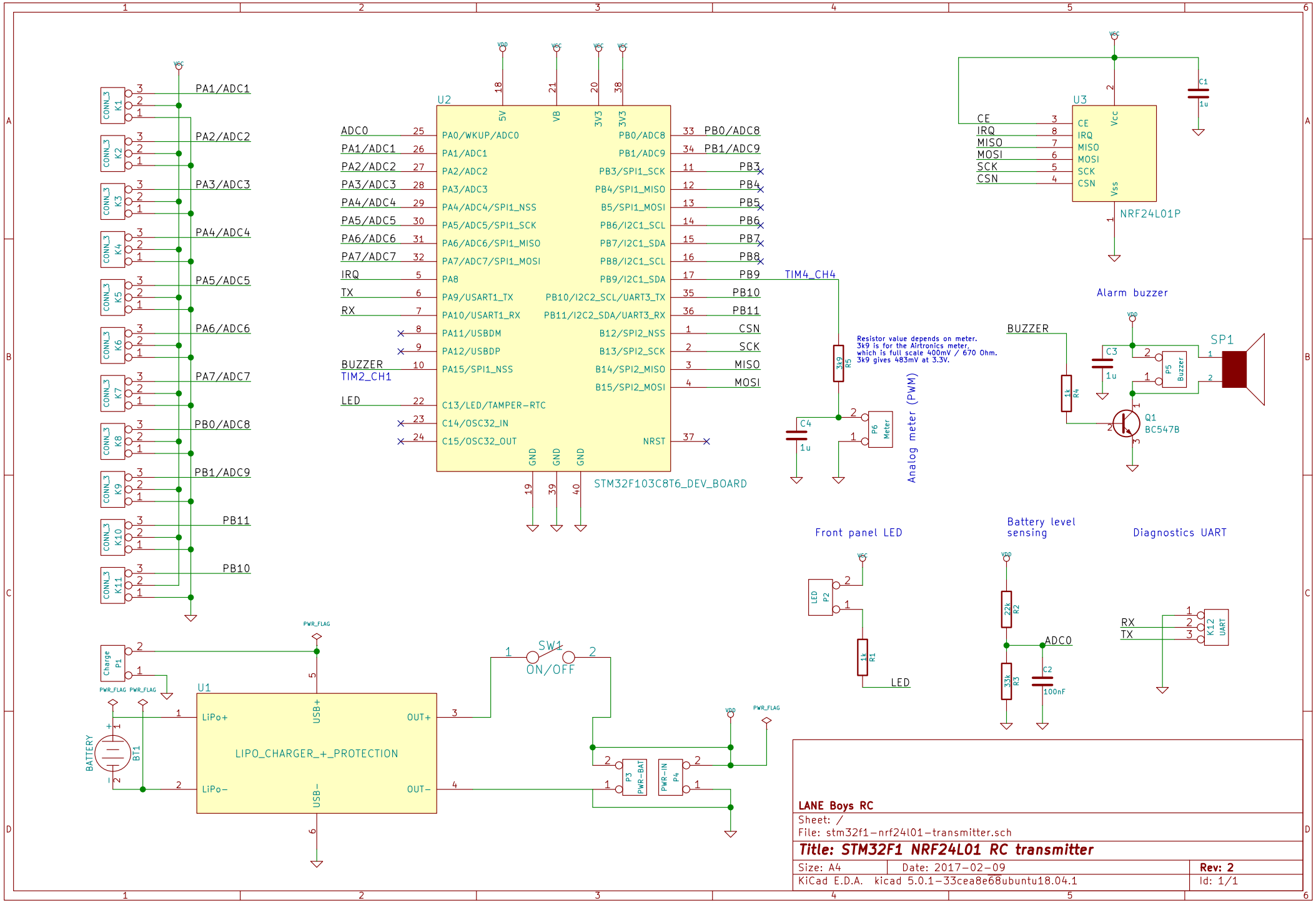
U2
STM32F103C8T6_DEV_BOARD
PA0/WKUP/ADC0
PA1/ADC1
PA2/ADC2
PA3/ADC3
PA4/ADC4/SPI1_NSS
PA5/ADC5/SPI1_SCK
PA6/ADC6/SPI1_MISO
PA7/ADC7/SPI1_MOSI
PA8
PA9/USART1_TX
PA10/USART1_RX
PA11/USBDM
PA12/USBDP
PA15/SPI1_NSS
C13/LED/TAMPER-RTC
C14/OSC32_IN
C15/OSC32_OUT
PB0/ADC8
PB1/ADC9
PB3/SPI1_SCK
PB4/SPI1_MISO
B5/SPI1_MOSI
PB6/I2C1_SCL
PB7/I2C1_SDA
PB8/I2C1_SCL
PB9/I2C1_SDA
PB10/I2C2_SCL/UART3_TX
PB11/I2C2_SDA/UART3_RX
B12/SPI2_NSS
B13/SPI2_SCK
B14/SPI2_MISO
B15/SPI2_MOSI
NRST
ADC0
IRQ
TX
RX
BUZZER
TIM2_CH1
LED
TIM4_CH4
PB11
PB10
U3
NRF24L01P
CE
IRQ
MISO
MOSI
SCK
CSN
Vcc
Vss
C1
1u
Alarm buzzer
BUZZER
SP1
Q1
BC547B
C3
1u
R4
1k
P5
Buzzer
Resistor value depends on meter.
3k9 is for the Airtronics meter,
which is full scale 400mV / 670 Ohm.
3k9 gives 483mV at 3.3V.
R5
3k9
C4
1u
P6
Meter
Analog meter (PWM)
Front panel LED
LED
P2
R1
1k
Battery level sensing
R2
22k
R3
33k
C2
100nF
Diagnostics UART
K12
UART
Charge
P1
PWR_FLAG
U1
LIPO_CHARGER_+_PROTECTION
LiPo+
LiPo−
USB+
USB−
OUT+
OUT−
BATTERY
BT1
SW1
ON/OFF
P3
PWR-BAT
PWR-IN
P4
K1
K2
K3
K4
K5
K6
K7
K8
K9
K10
K11
CONN_3
PA1/ADC1
PA2/ADC2
PA3/ADC3
PA4/ADC4
PA5/ADC5
PA6/ADC6
PA7/ADC7
PB0/ADC8
PB1/ADC9
PB11
PB10
LANE Boys RC
Sheet: /
File: stm32f1-nrf24l01-transmitter.sch
Title: STM32F1 NRF24L01 RC transmitter
Size: A4
Date: 2017-02-09
Rev: 2
KiCad E.D.A. kicad 5.0.1-33cea8e68ubuntu18.04.1
Id: 1/1