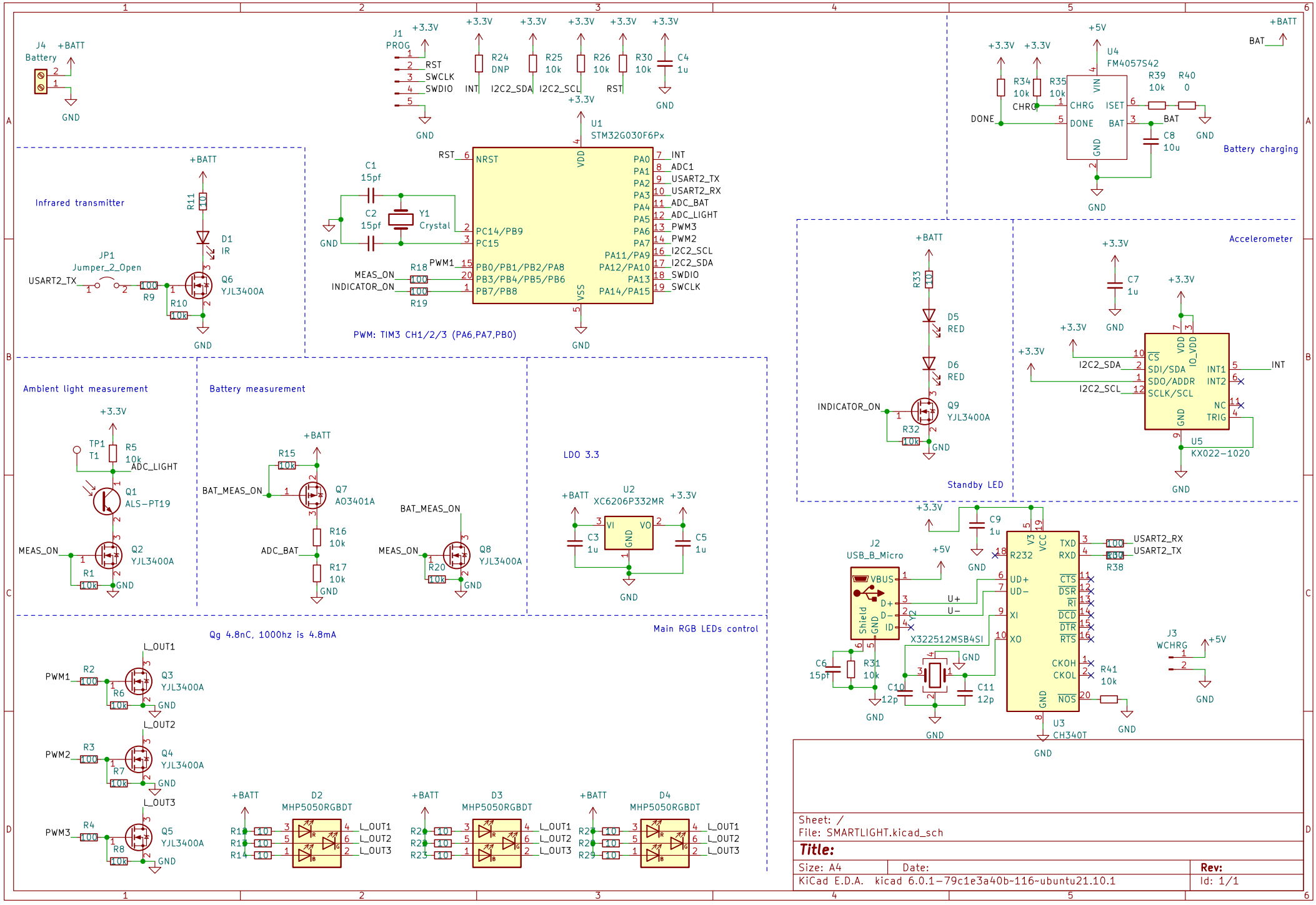
J4 Battery
+BATT
GND
J1 PROG
+3.3V
RST
SWCLK
SWDIO
R24 DNP
R25 10k
R26 10k
R30 10k
C4 1u
INT
I2C2_SDA
I2C2_SCL
U1 STM32G030F6Px
NRST
VDD
VSS
PC14/PB9
PC15
PB0/PB1/PB2/PA8
PB3/PB4/PB5/PB6
PB7/PB8
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA11/PA9
PA12/PA10
PA13
PA14/PA15
ADC1
USART2_TX
USART2_RX
ADC_BAT
ADC_LIGHT
PWM3
PWM2
I2C2_SCL
I2C2_SDA
SWDIO
SWCLK
C1 15pf
C2 15pf
Y1 Crystal
PWM1
MEAS_ON
INDICATOR_ON
R18 100
R19 100
PWM: TIM3 CH1/2/3 (PA6,PA7,PB0)
Infrared transmitter
R11 100
D1 IR
JP1 Jumper_2_Open
USART2_TX
R9 100
R10 10k
Q6 YJL3400A
Battery charging
U4 FM4057S42
+5V
VIN
CHRG
DONE
ISET
BAT
GND
R34 10k
R35 10k
R39 10k
R40 0
C8 10u
Ambient light measurement
TP1 T1
R5 10k
ADC_LIGHT
Q1 ALS-PT19
Q2 YJL3400A
R1 10k
Battery measurement
R15 10k
BAT_MEAS_ON
Q7 AO3401A
R16 10k
R17 10k
Q8 YJL3400A
R20 10k
LDO 3.3
U2 XC6206P332MR
VI
VO
C3 1u
C5 1u
Standby LED
R33 100
D5 RED
D6 RED
Q9 YJL3400A
R32 10k
Accelerometer
C7 1u
U5 KX022-1020
CS
SDI/SDA
SDO/ADDR
SCLK/SCL
VDD
IO_VDD
INT1
INT2
NC
TRIG
Main RGB LEDs control
Qg 4.8nC, 1000hz is 4.8mA
L_OUT1
L_OUT2
L_OUT3
R2 100
R3 100
R4 100
R6 10k
R7 10k
R8 10k
Q3 YJL3400A
Q4 YJL3400A
Q5 YJL3400A
D2 MHP5050RGBDT
D3 MHP5050RGBDT
D4 MHP5050RGBDT
R10 10
R11 10
R14 10
R2 10
R23 10
R29 10
J2 USB_B_Micro
VBUS
D+
D-
ID
Shield
U+
U-
X322512MSB4SI
C6 15pf
R31 10k
C10 12p
C11 12p
C9 1u
R232
UD+
UD-
XI
XO
V3
VCC
TXD
RXD
CTS
DSR
RI
DCD
DTR
RTS
CKOH
CKOL
NOS
R38 100
R41 10k
U3 CH340T
J3 WCHRG
Sheet: /
File: SMARTLIGHT.kicad_sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad 6.0.1-79c1e3a40b~116~ubuntu21.10.1
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