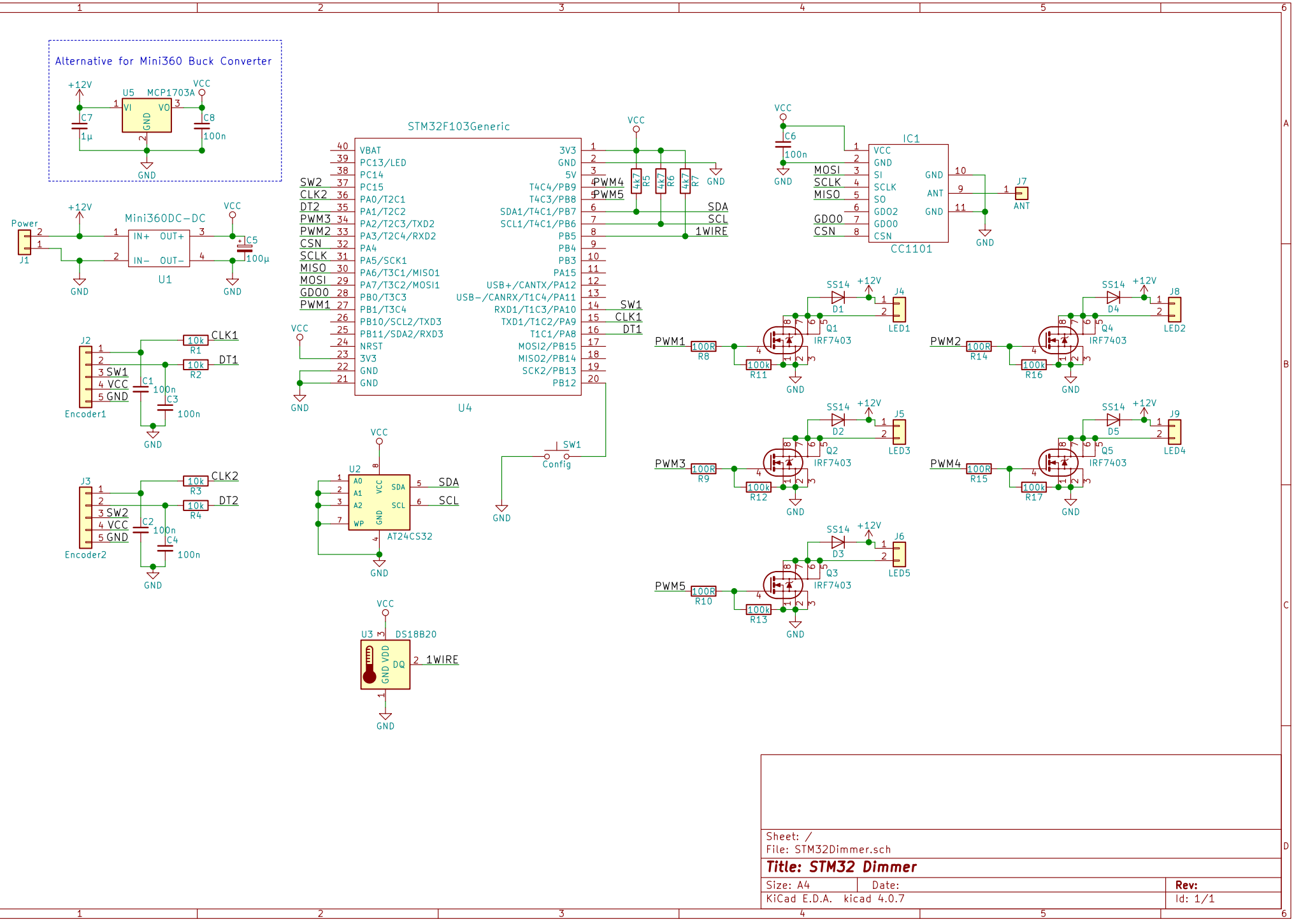

Alternative for Mini360 Buck Converter
+12V
U5 MCP1703A
VCC
VI
VO
GND
C7
1µ
C8
100n
Power
J1
Mini360DC-DC
IN+
OUT+
IN-
OUT-
U1
+C5
100µ
STM32F103Generic
VBAT
PC13/LED
PC14
PC15
PA0/T2C1
PA1/T2C2
PA2/T2C3/TXD2
PA3/T2C4/RXD2
PA4
PA5/SCK1
PA6/T3C1/MISO1
PA7/T3C2/MOSI1
PB0/T3C3
PB1/T3C4
PB10/SCL2/TXD3
PB11/SDA2/RXD3
NRST
3V3
GND
5V
T4C4/PB9
T4C3/PB8
SDA1/T4C1/PB7
SCL1/T4C1/PB6
PB5
PB4
PB3
PA15
USB+/CANTX/PA12
USB-/CANRX/T1C4/PA11
RXD1/T1C3/PA10
TXD1/T1C2/PA9
T1C1/PA8
MOSI2/PB15
MISO2/PB14
SCK2/PB13
PB12
SW2
CLK2
DT2
PWM3
PWM2
CSN
SCLK
MISO
MOSI
GDO0
PWM1
PWM4
PWM5
SDA
SCL
1WIRE
SW1
CLK1
DT1
U4
4k7
R5
R6
R7
IC1
CC1101
C6
100n
MOSI
SCLK
MISO
GDO0
CSN
GDO2
ANT
J7
J2
Encoder1
10k
R1
R2
C1
100n
C3
100n
J3
Encoder2
R3
R4
C2
C4
U2
AT24CS32
A0
A1
A2
WP
SDA
SCL
U3
DS18B20
DQ
SW1
Config
PWM1
PWM2
PWM3
PWM4
PWM5
100R
R8
R9
R10
R14
R15
100k
R11
R12
R13
R16
R17
SS14
D1
D2
D3
D4
D5
IRF7403
Q1
Q2
Q3
Q4
Q5
J4
J5
J6
J8
J9
LED1
LED2
LED3
LED4
LED5
+12V
Sheet: /
File: STM32Dimmer.sch
Title: STM32 Dimmer
Size: A4
Date:
Rev:
KiCad E.D.A. kicad 4.0.7
Id: 1/1