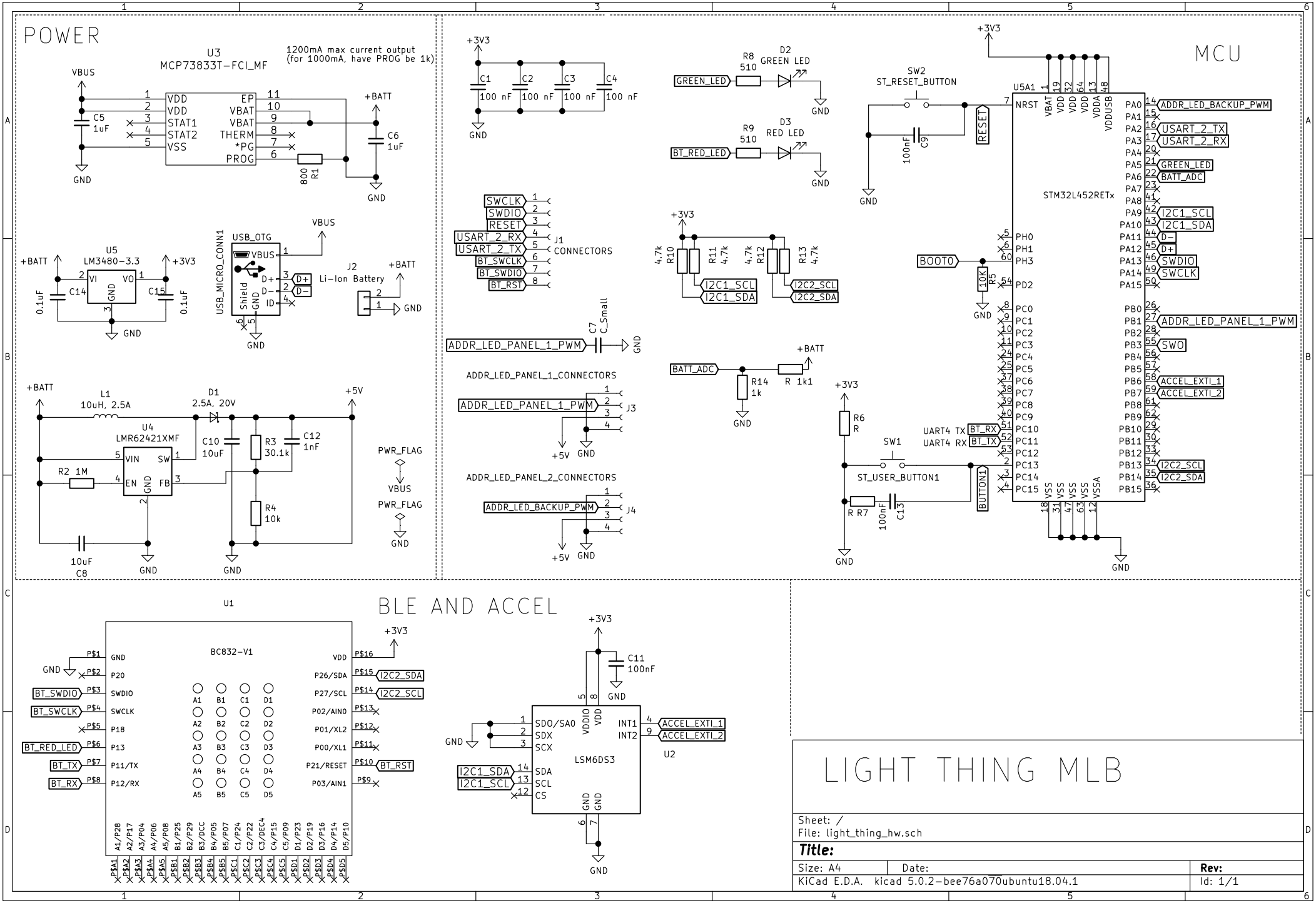
POWER
U3
MCP73833T-FCI_MF
1200mA max current output
(for 1000mA, have PROG be 1k)
VDD
VDD
STAT1
STAT2
VSS
EP
VBAT
VBAT
THERM
*PG
PROG
VBUS
+BATT
C5
1uF
C6
1uF
800
R1
GND
U5
LM3480-3.3
+3V3
C14
0.1uF
C15
0.1uF
USB_OTG
USB_MICRO_CONN1
Shield
J2
Li-Ion Battery
L1
10uH, 2.5A
D1
2.5A, 20V
+5V
U4
LMR62421XMF
VIN
SW
EN
FB
R2 1M
C10
10uF
R3
30.1k
C12
1nF
R4
10k
10uF
C8
PWR_FLAG
MCU
+3V3
C1
100 nF
C2
100 nF
C3
100 nF
C4
100 nF
R8
510
D2
GREEN LED
GREEN_LED
R9
510
D3
RED LED
BT_RED_LED
SW2
ST_RESET_BUTTON
C9
100nF
RESET
U5A1
NRST
VBAT
VDD
VDDA
VDDUSB
STM32L452RETx
SWCLK
SWDIO
RESET
USART_2_RX
USART_2_TX
BT_SWCLK
BT_SWDIO
BT_RST
J1
CONNECTORS
R10
4.7k
R11
4.7k
R12
4.7k
R13
4.7k
I2C1_SCL
I2C1_SDA
I2C2_SCL
I2C2_SDA
BOOT0
R5
10K
C7
C_Small
ADDR_LED_PANEL_1_PWM
ADDR_LED_PANEL_1_CONNECTORS
J3
ADDR_LED_PANEL_2_CONNECTORS
ADDR_LED_BACKUP_PWM
J4
BATT_ADC
R14
1k
R 1k1
R6
R
SW1
ST_USER_BUTTON1
R 7
100nF
C13
BUTTON1
UART4 TX
UART4 RX
BT_RX
BT_TX
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9
PA10
PA11
PA12
PA13
PA14
PA15
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PB8
PB9
PB10
PB11
PB12
PB13
PB14
PB15
PH0
PH1
PH3
PD2
PC0
PC1
PC2
PC3
PC4
PC5
PC6
PC7
PC8
PC9
PC10
PC11
PC12
PC13
PC14
PC15
D-
D+
SWO
ACCEL_EXTI_1
ACCEL_EXTI_2
VSS
VSSA
BLE AND ACCEL
U1
BC832-V1
GND
P20
SWDIO
SWCLK
P18
P13
P11/TX
P12/RX
VDD
P26/SDA
P27/SCL
P02/AIN0
P01/XL2
P00/XL1
P21/RESET
P03/AIN1
BT_SWDIO
BT_SWCLK
BT_RED_LED
BT_TX
BT_RX
BT_RST
A1/P28
A2/P17
A3/P04
A4/P06
A5/P08
B1/P25
B2/P29
B3/DCC
B4/P05
B5/P07
C1/P24
C2/P22
C3/DEC4
C4/P15
C5/P09
D1/P23
D2/P19
D3/P16
D4/P14
D5/P10
C11
100nF
SDO/SA0
SDX
SCX
SDA
SCL
CS
VDDIO
INT1
INT2
LSM6DS3
U2
LIGHT THING MLB
Sheet: /
File: light_thing_hw.sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. kicad 5.0.2-bee76a070ubuntu18.04.1
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