Power_management

File: Power_management.kicad_sch

Microcontroller

File: Microcontroller.kicad_sch

Peripherals

File: Peripherals.kicad_sch

Connectors

File: Connectors.kicad_sch

Title: DATALOGGER01A

Universal battery powered SDcard datalogger.

Author: Mlab www.mlab.cz

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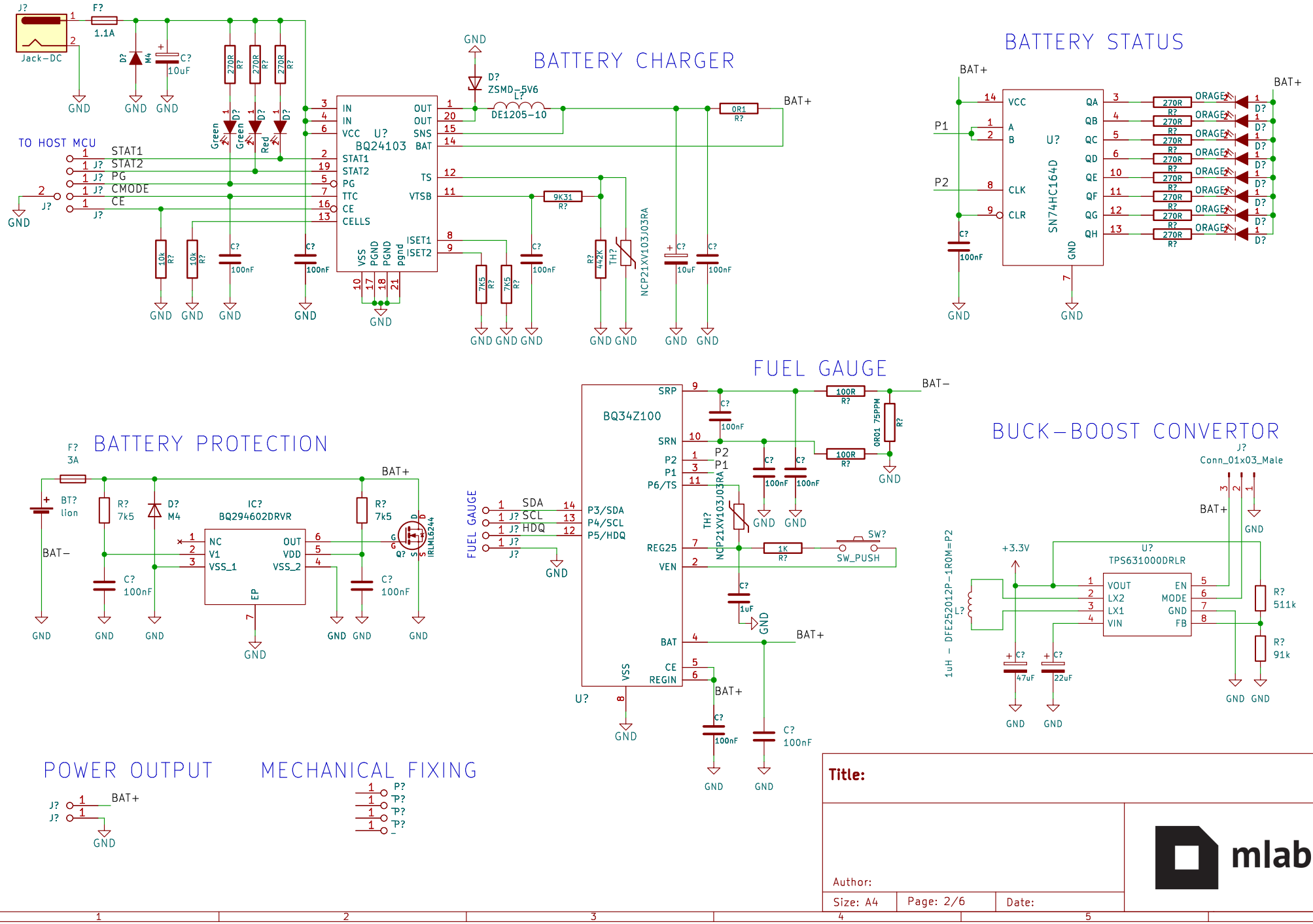
BATTERY CHARGER
BATTERY STATUS
FUEL GAUGE
BATTERY PROTECTION
BUCK–BOOST CONVERTOR
POWER OUTPUT
MECHANICAL FIXING
BQ24103
BQ34Z100
BQ294602DRVR
SN74HC164D
TPS631000DRLR
DE1205-10
ZSMD-5V6
NCP21XV103J03RA
IRLML6244
Jack-DC
TO HOST MCU
STAT1
STAT2
PG
CMODE
CE
BAT+
BAT-
GND
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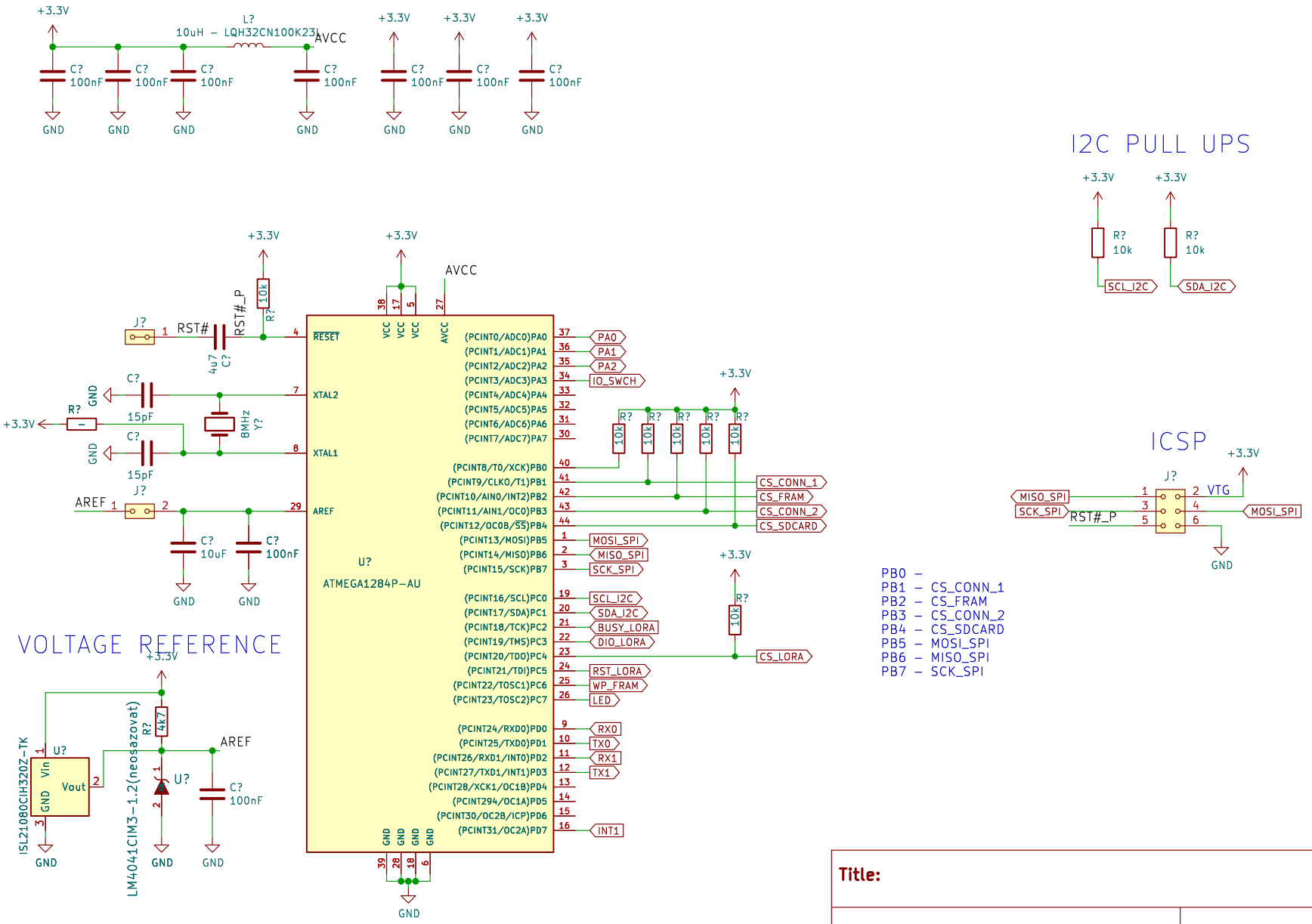
+3.3V
L?
10uH – LQH32CN100K23
AVCC
C? 100nF
GND
I2C PULL UPS
R? 10k
SCL_I2C
SDA_I2C
ICSP
MISO_SPI
SCK_SPI
RST#_P
VTG
MOSI_SPI
J?
RST#
4u7
AREF
15pF
8MHz
Y?
10uF
U?
ATMEGA1284P-AU
RESET
XTAL2
XTAL1
AREF
VCC
AVCC
(PCINT0/ADC0)PA0
(PCINT1/ADC1)PA1
(PCINT2/ADC2)PA2
(PCINT3/ADC3)PA3
(PCINT4/ADC4)PA4
(PCINT5/ADC5)PA5
(PCINT6/ADC6)PA6
(PCINT7/ADC7)PA7
(PCINT8/T0/XCK)PB0
(PCINT9/CLKO/T1)PB1
(PCINT10/AIN0/INT2)PB2
(PCINT11/AIN1/OC0)PB3
(PCINT12/OC0B/SS)PB4
(PCINT13/MOSI)PB5
(PCINT14/MISO)PB6
(PCINT15/SCK)PB7
(PCINT16/SCL)PC0
(PCINT17/SDA)PC1
(PCINT18/TCK)PC2
(PCINT19/TMS)PC3
(PCINT20/TDO)PC4
(PCINT21/TDI)PC5
(PCINT22/TOSC1)PC6
(PCINT23/TOSC2)PC7
(PCINT24/RXD0)PD0
(PCINT25/TXD0)PD1
(PCINT26/RXD1/INT0)PD2
(PCINT27/TXD1/INT1)PD3
(PCINT28/XCK1/OC1B)PD4
(PCINT294/OC1A)PD5
(PCINT30/OC2B/ICP)PD6
(PCINT31/OC2A)PD7
PA0
PA1
PA2
IO_SWCH
CS_CONN_1
CS_FRAM
CS_CONN_2
CS_SDCARD
MOSI_SPI
MISO_SPI
SCK_SPI
SCL_I2C
SDA_I2C
BUSY_LORA
DIO_LORA
CS_LORA
RST_LORA
WP_FRAM
LED
RX0
TX0
RX1
TX1
INT1
VOLTAGE REFERENCE
ISL21080CIH320Z-TK
LM4041CIM3-1.2(neosazovat)
4k7
PB0 –
PB1 – CS_CONN_1
PB2 – CS_FRAM
PB3 – CS_CONN_2
PB4 – CS_SDCARD
PB5 – MOSI_SPI
PB6 – MISO_SPI
PB7 – SCK_SPI
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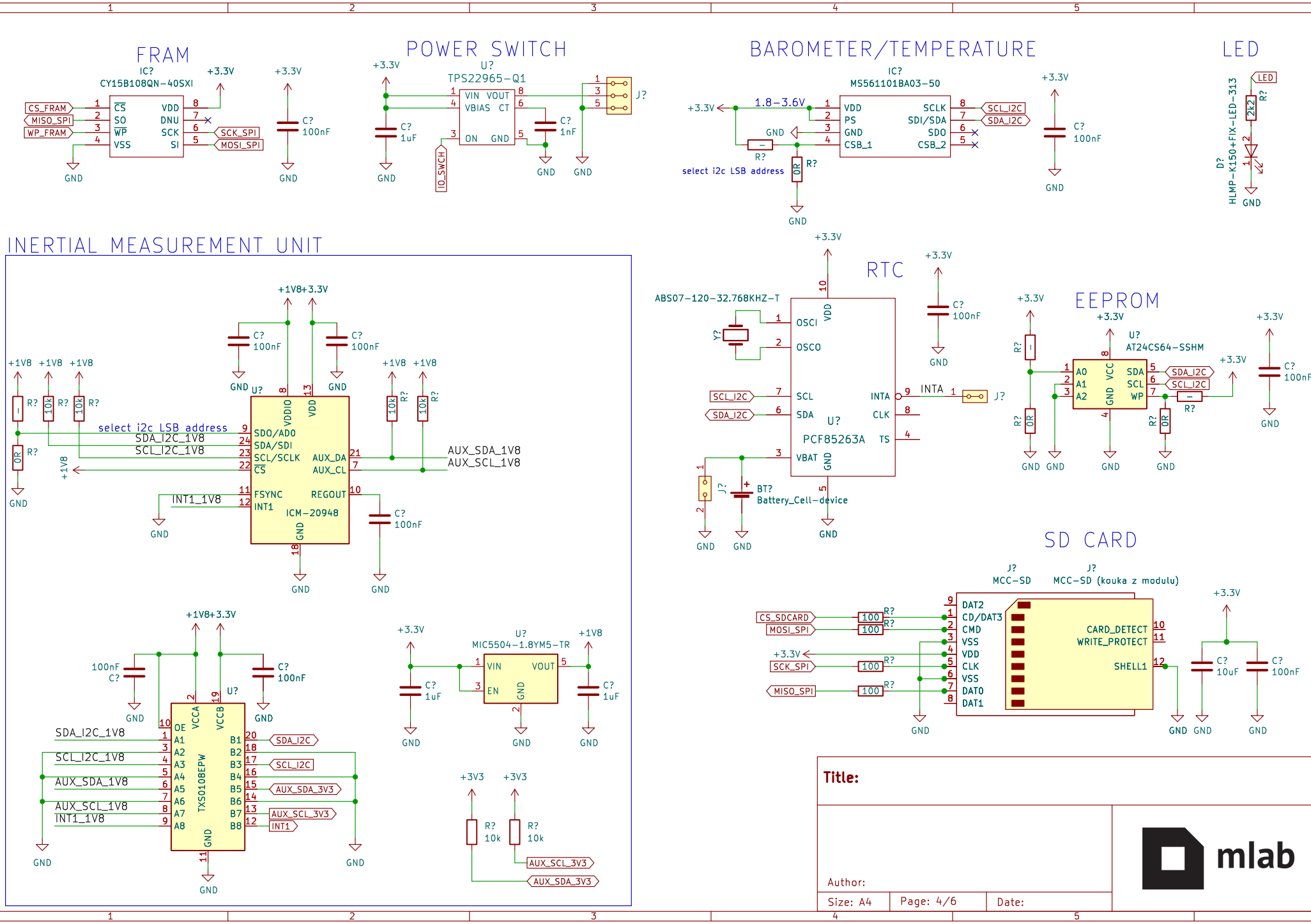
FRAM
IC?
CY15B108QN-40SXI
+3.3V
CS_FRAM
MISO_SPI
WP_FRAM
CS
SO
WP
VSS
VDD
DNU
SCK
SI
SCK_SPI
MOSI_SPI
GND
C?
100nF
POWER SWITCH
U?
TPS22965-Q1
VIN VOUT
VBIAS CT
ON GND
C?
1uF
C?
1nF
IO_SWCH
J?
BAROMETER/TEMPERATURE
IC?
MS561101BA03-50
1.8-3.6V
VDD
PS
GND
CSB_1
SCLK
SDI/SDA
SDO
CSB_2
SCL_I2C
SDA_I2C
select i2c LSB address
R?
0R
LED
D?
HLMP-K150+FIX-LED-313
2k2
INERTIAL MEASUREMENT UNIT
+1V8+3.3V
+1V8
10k
select i2c LSB address
SDA_I2C_1V8
SCL_I2C_1V8
SDO/AD0
SDA/SDI
SCL/SCLK
CS
VDDIO
VDD
AUX_DA
AUX_CL
AUX_SDA_1V8
AUX_SCL_1V8
FSYNC
INT1
REGOUT
INT1_1V8
ICM-20948
TXS0108EPW
OE
VCCA
VCCB
A1
A2
A3
A4
A5
A6
A7
A8
B1
B2
B3
B4
B5
B6
B7
B8
AUX_SDA_3V3
AUX_SCL_3V3
MIC5504-1.8YM5-TR
VIN
VOUT
EN
+3V3
RTC
ABS07-120-32.768KHZ-T
Y?
OSCI
OSCO
SCL
SDA
INTA
CLK
TS
VBAT
PCF85263A
BT?
Battery_Cell-device
EEPROM
AT24CS64-SSHM
A0
A1
A2
SDA
SCL
WP
SD CARD
J?
MCC-SD
MCC-SD (kouka z modulu)
CS_SDCARD
MOSI_SPI
SCK_SPI
MISO_SPI
100
DAT2
CD/DAT3
CMD
VSS
VDD
CLK
VSS
DAT0
DAT1
CARD_DETECT
WRITE_PROTECT
SHELL1
C?
10uF
Title:
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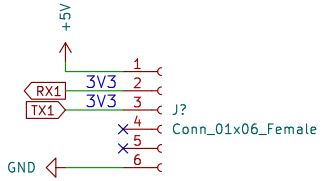
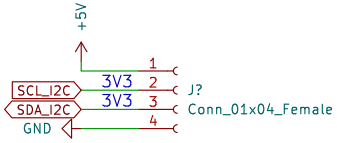
PIXHAWK STANDARD HEADERS

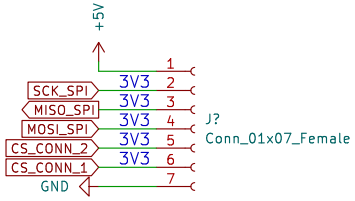
UART CONN.



I2C CONN.

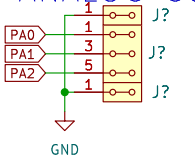


SPI CONN.

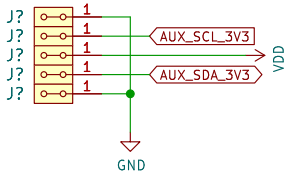


PIN HEADERS

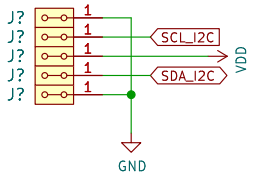
ANALOG CONN



AUX_I2C CONN



I2C CONN



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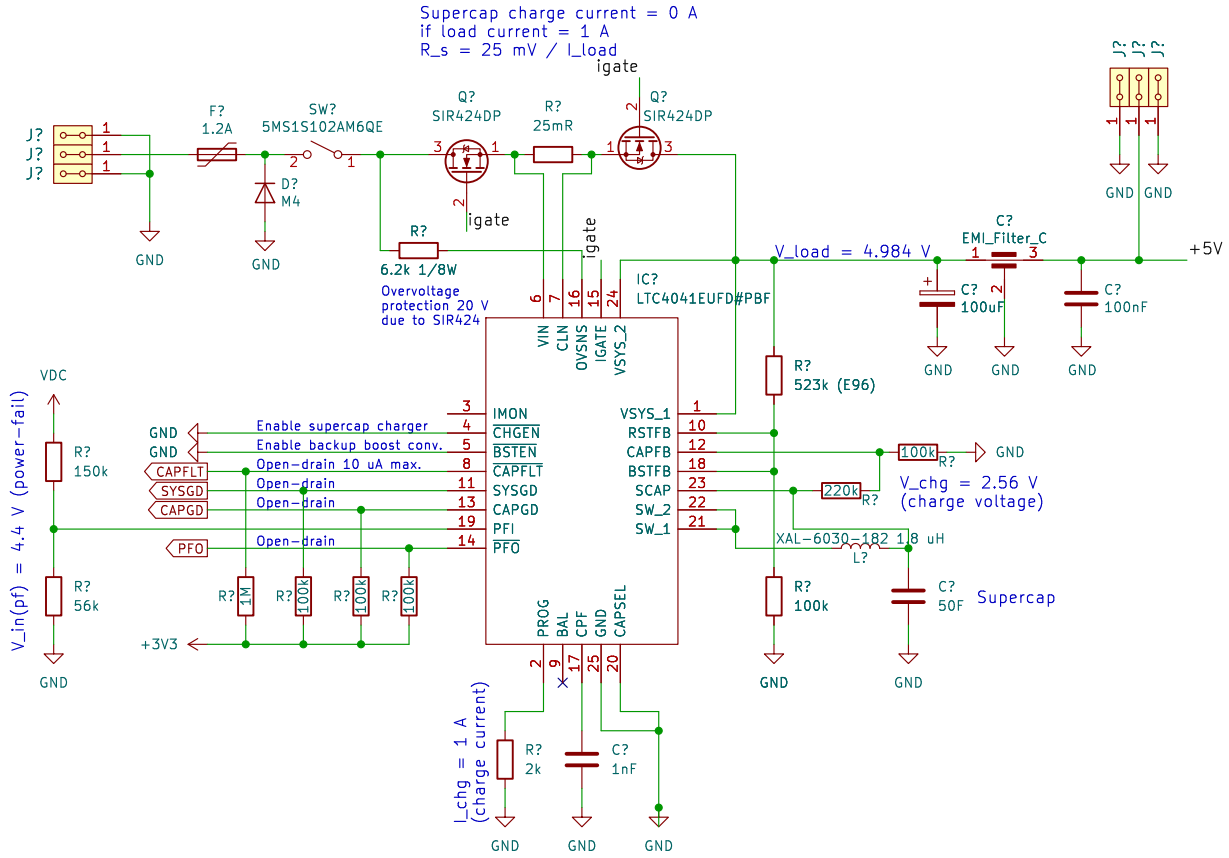
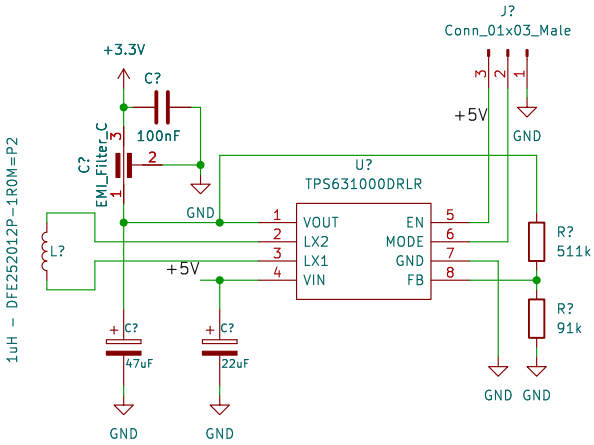
SUPERCAP MANAGEMENT



BUCK–BOOST CONVERTOR



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