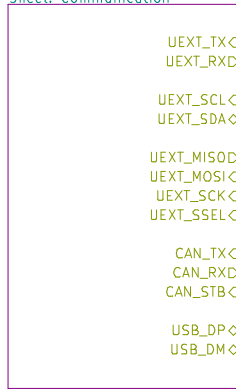
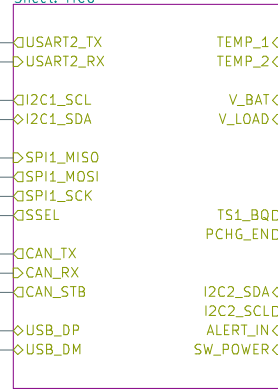


Sheet: Communication



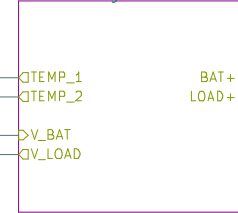
File: interfaces.sch

Sheet: MCU



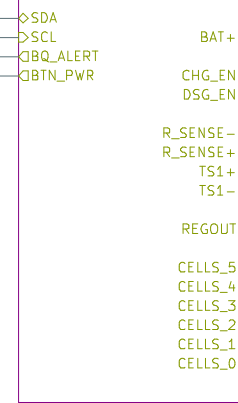
File: mcu.sch

Sheet: Analog Frontend



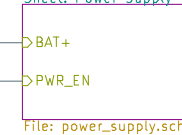
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Sheet: BQ76920

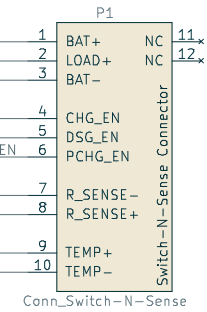


File: bq76920.sch

Sheet: Power Supply



File: power_supply.sch



Conn_Switch-N-Sense



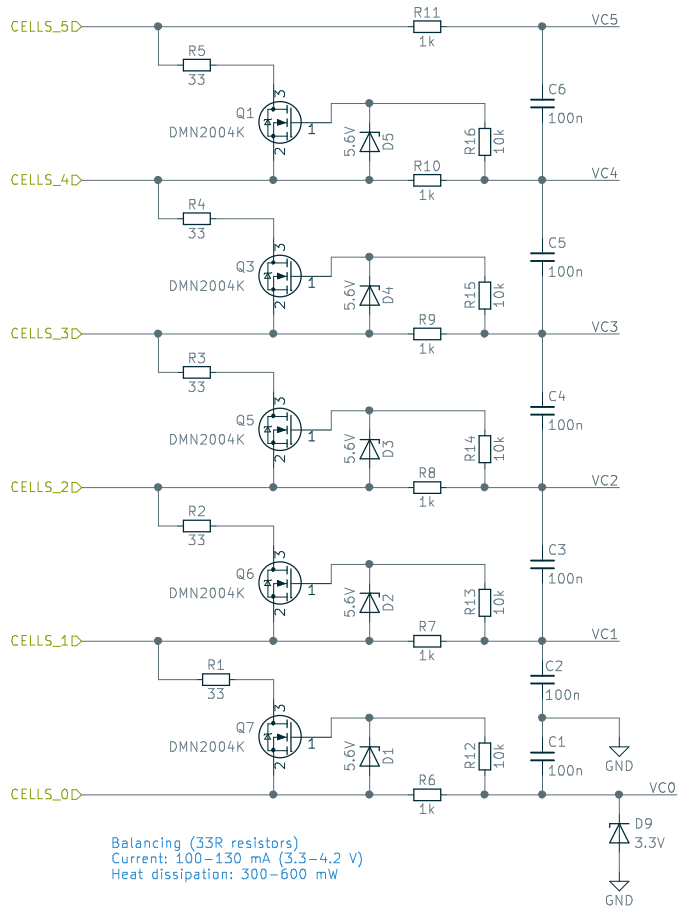
Author: Martin Jäger
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Libre Solar (<http://libre.solar>)

Sheet: /
 File: BMS-5s.sch

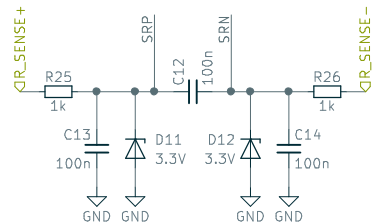
Title: Libre Solar BMS 5s

Size: A4 Date: 2017-05-27 Rev: 0.1
 KiCad E.D.A. kicad (2017-05-10 revision 747583606)-makepkg Id: 1/6

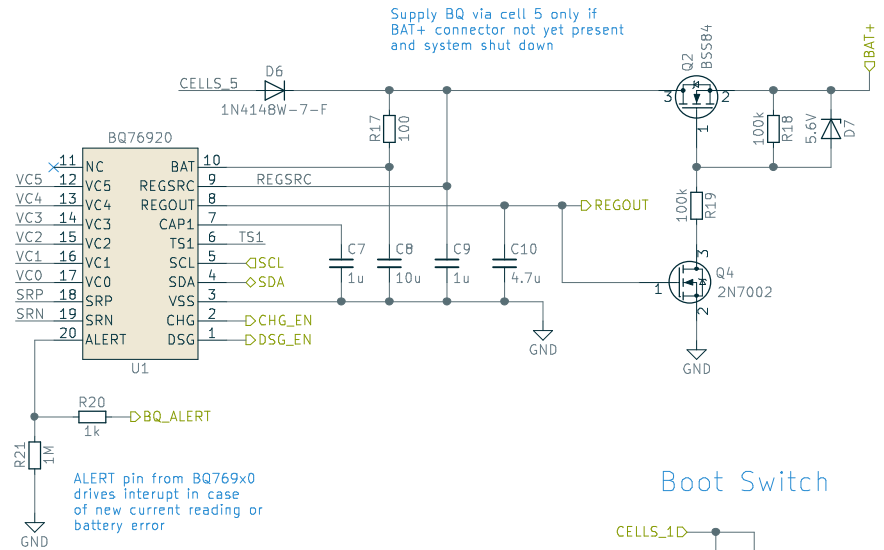
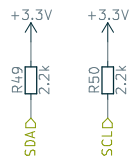
Balancing circuits



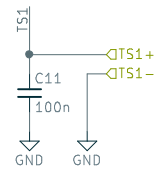
Current sense filter



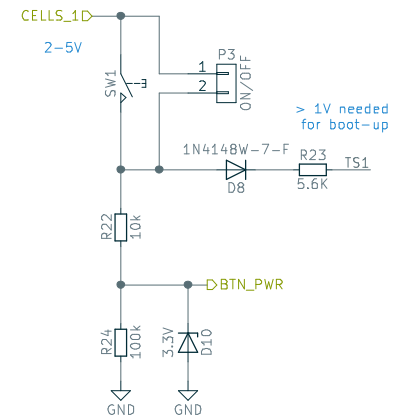
I2C pull-ups



Temperature sensor



Boot Switch



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Sheet: /BQ76920/

File: bq76920.sch

Title: Libre Solar BMS 5s

Size: A4

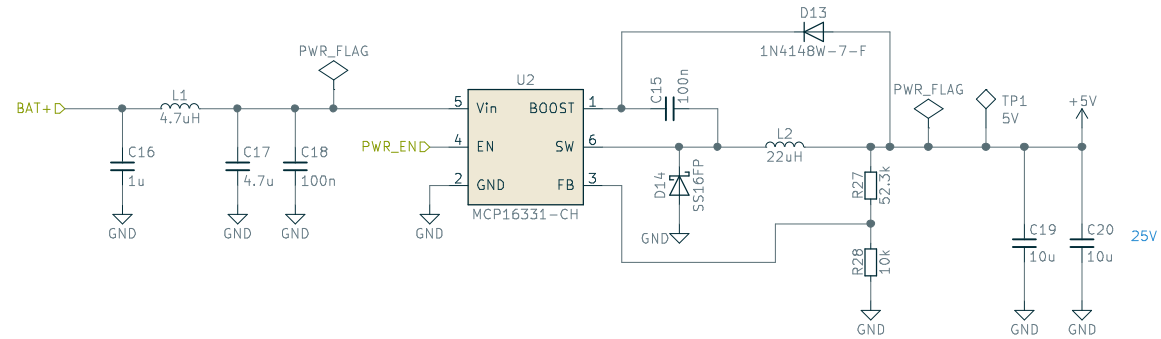
Date: 2017-05-27

KiCad E.D.A. kicad (2017-05-10 revision 747583606)-makepkg

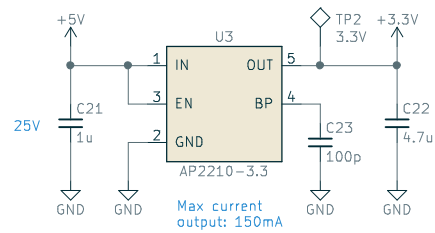
Rev: 0.1

Id: 2/6

Battery to 5V (SMPS)



5V to 3.3V (LDO)



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Sheet: /Power Supply/
File: power_supply.sch

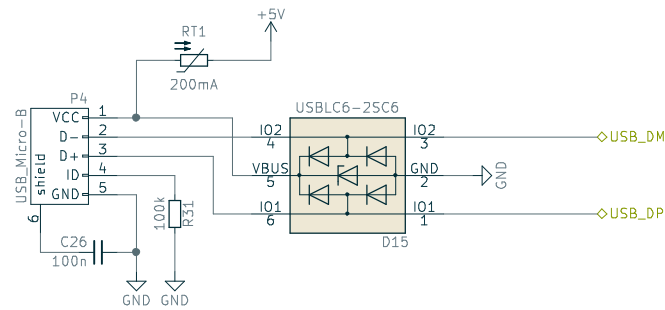
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Size: A4 Date: 2017-05-27
KiCad E.D.A. kicad (2017-05-10 revision 747583606)-makepkg

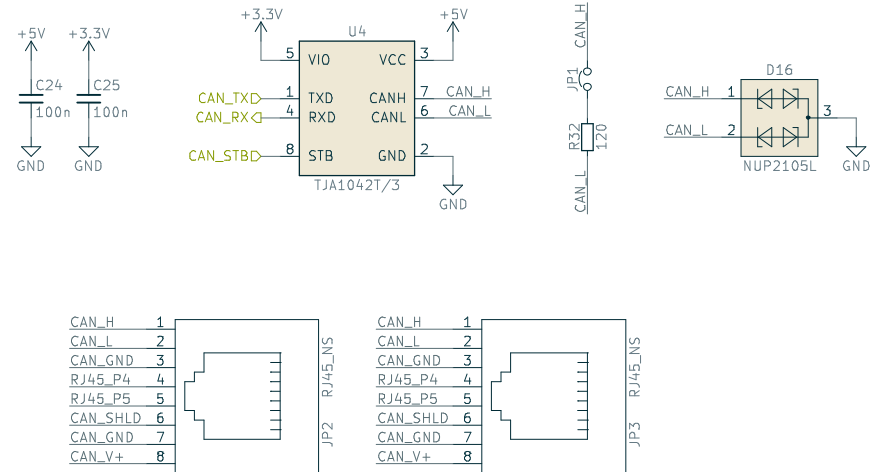
Rev: 0.1

Id: 3/6

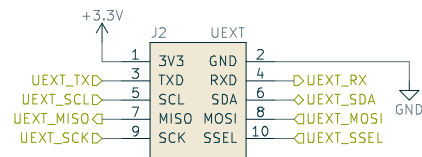
USB connector



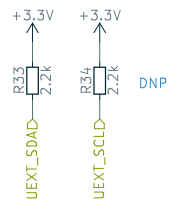
CAN interface



Extension connector



I2C pull-ups



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Sheet: /Communication/

File: interfaces.sch

Title: Libre Solar BMS 5s

Size: A4

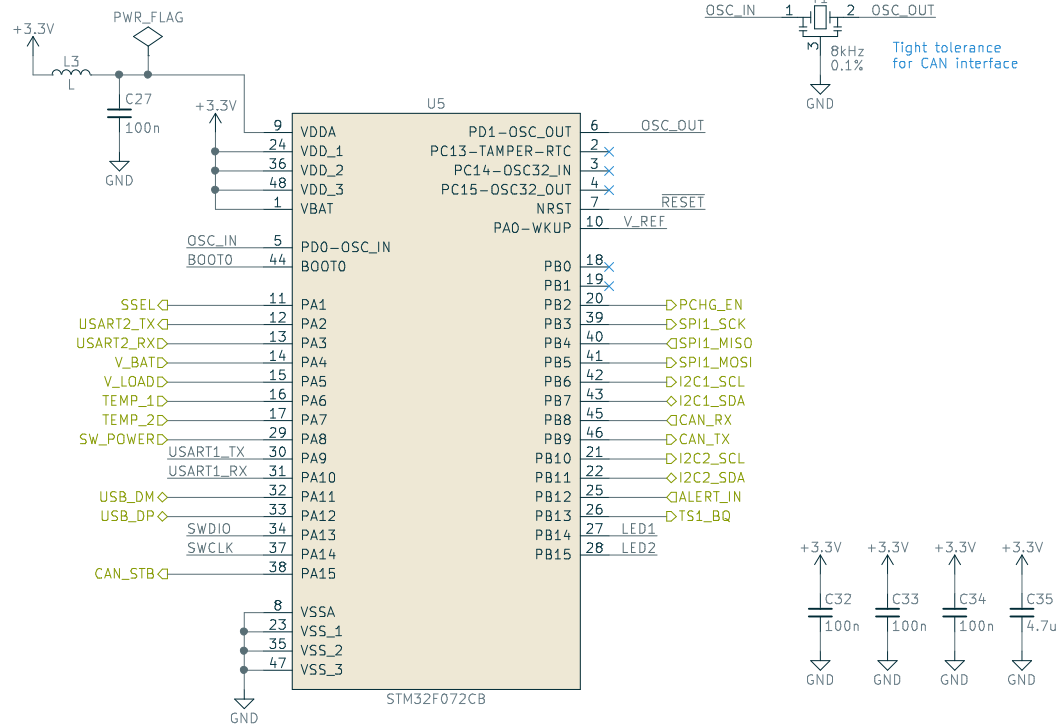
Date: 2017-05-27

Rev: 0.1

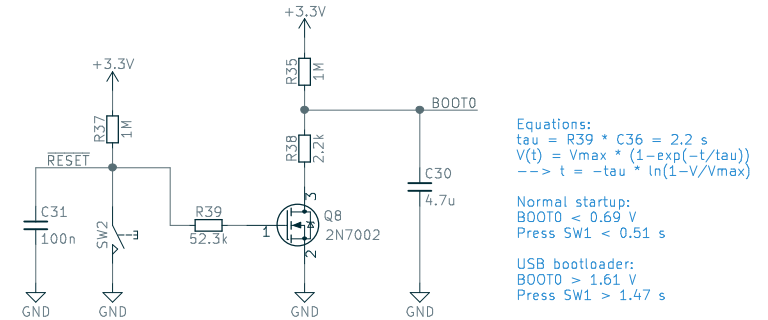
KiCad E.D.A. kicad (2017-05-10 revision 747583606)-makepkg

Id: 4/6

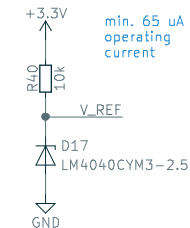
MCU STM32F072



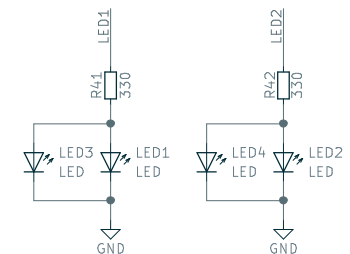
MCU reset and boot circuit



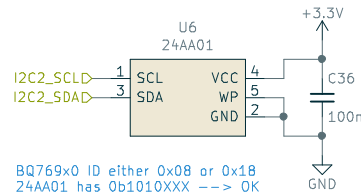
Voltage reference



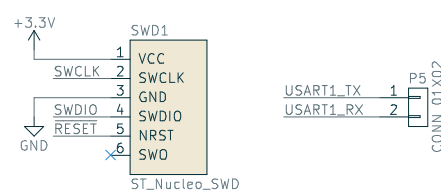
Status LEDs



EEPROM



STM Nucleo SWD and USART



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Sheet: /MCU/

File: mcu.sch

Title: Libre Solar BMS 5s

Size: A4

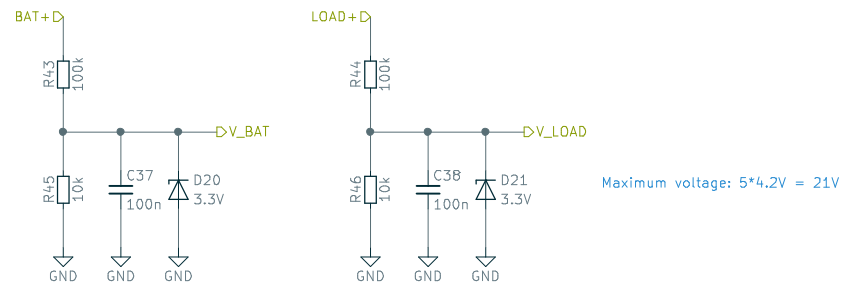
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KiCad E.D.A. kicad (2017-05-10 revision 747583606)-makepkg

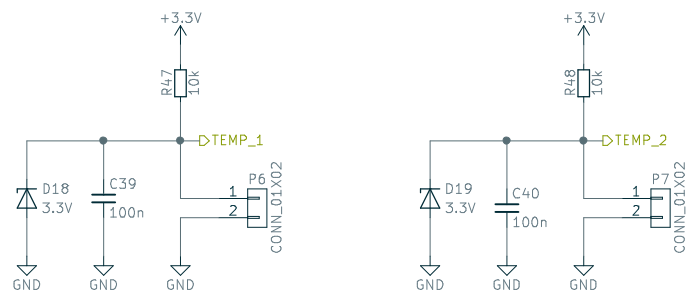
Rev: 0.1

Id: 5/6

Battery and load voltage



Temperature (ext./int.)



If not stated otherwise, all MLCC 50V X7R

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Sheet: /Analog Frontend/
File: analog_frontend.sch

Title: Libre Solar BMS 5s

Size: A4	Date: 2017-05-27	Rev: 0.1
KiCad E.D.A. kicad (2017-05-10 revision 747583606)-makepkg		Id: 6/6