



A

B

B

C

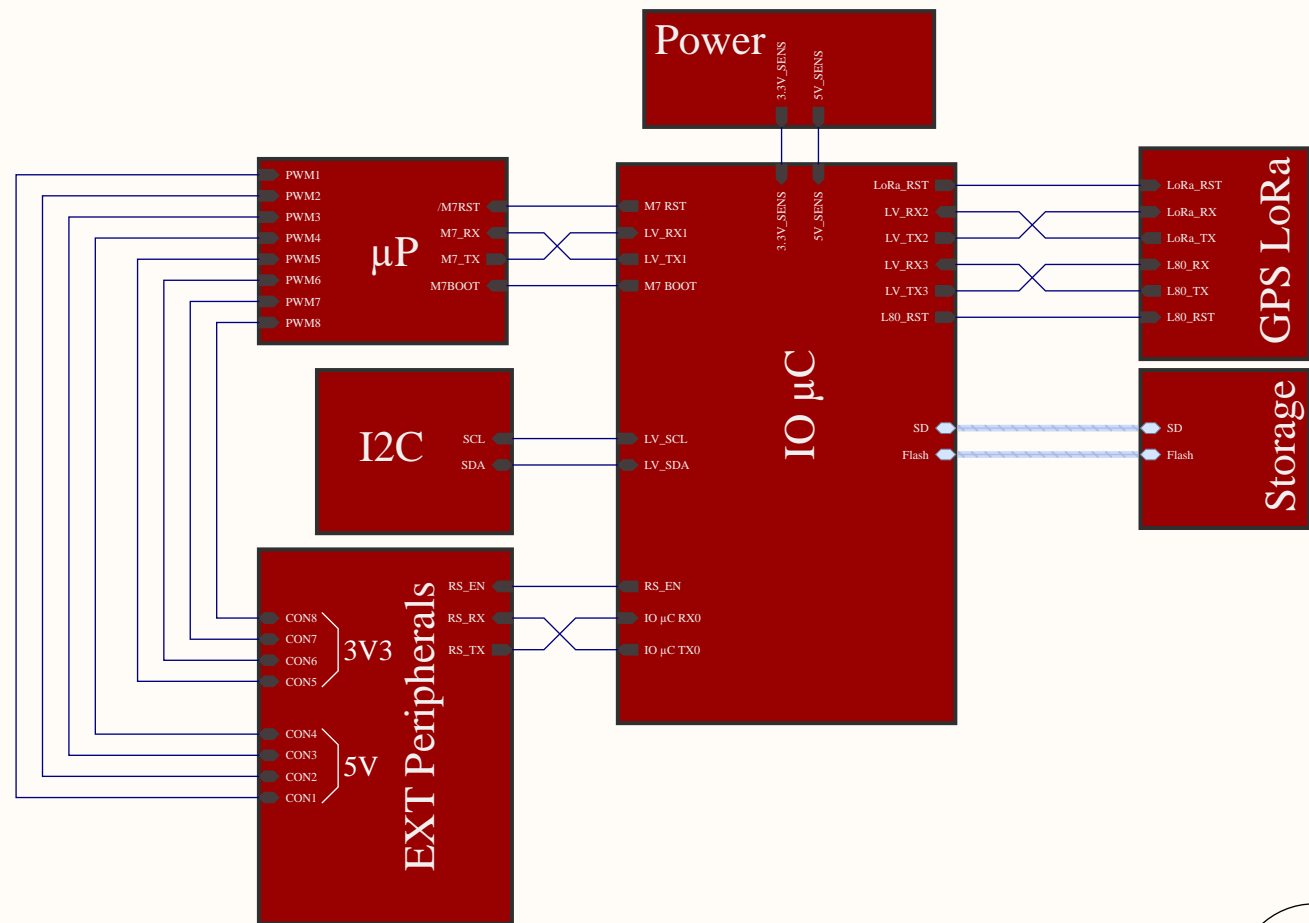
C

D

D

3

4



Project : Betelgeuse.PrjPCB

Electronics Design: FAHMI Aymane	Firm Design: ELQOTBI Zakaria
Firmware Version : *	Client : *
Date: 4/18/2018	Sheet Name : Architecture.SchDoc
Time: 22:02:54	Modif: 4/18/2018
	REV: Not in version control

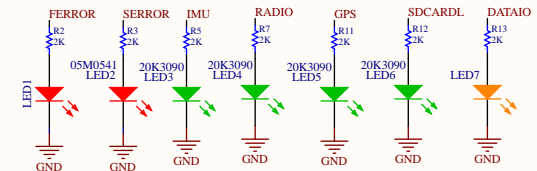
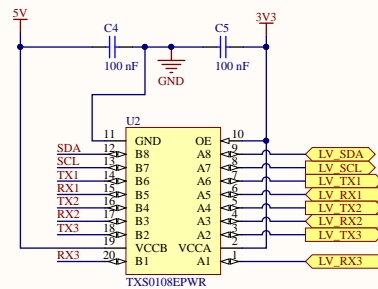


Flash

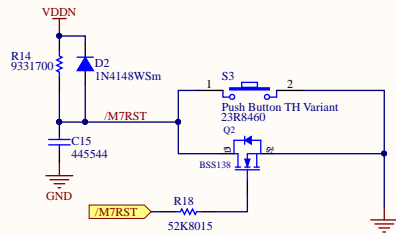
- FMO5I → LV M555I5
- F5CK → LV M555I5
- F5M5I5 → LV S5CK
- /R5T → /LVF5R5T
- /F5H5LD → /LVF5H5LD
- /F5CS → /LVF5CS

SD CARD

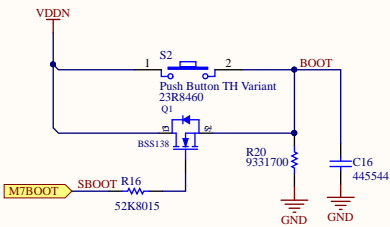
- SM55I5 → LV M555I5
- SS5CK → LV S5CK
- SM55M5I5 → /LVF5R5T
- SD5DET → /S5DD5DET
- /S5CS → /LVSD5CS



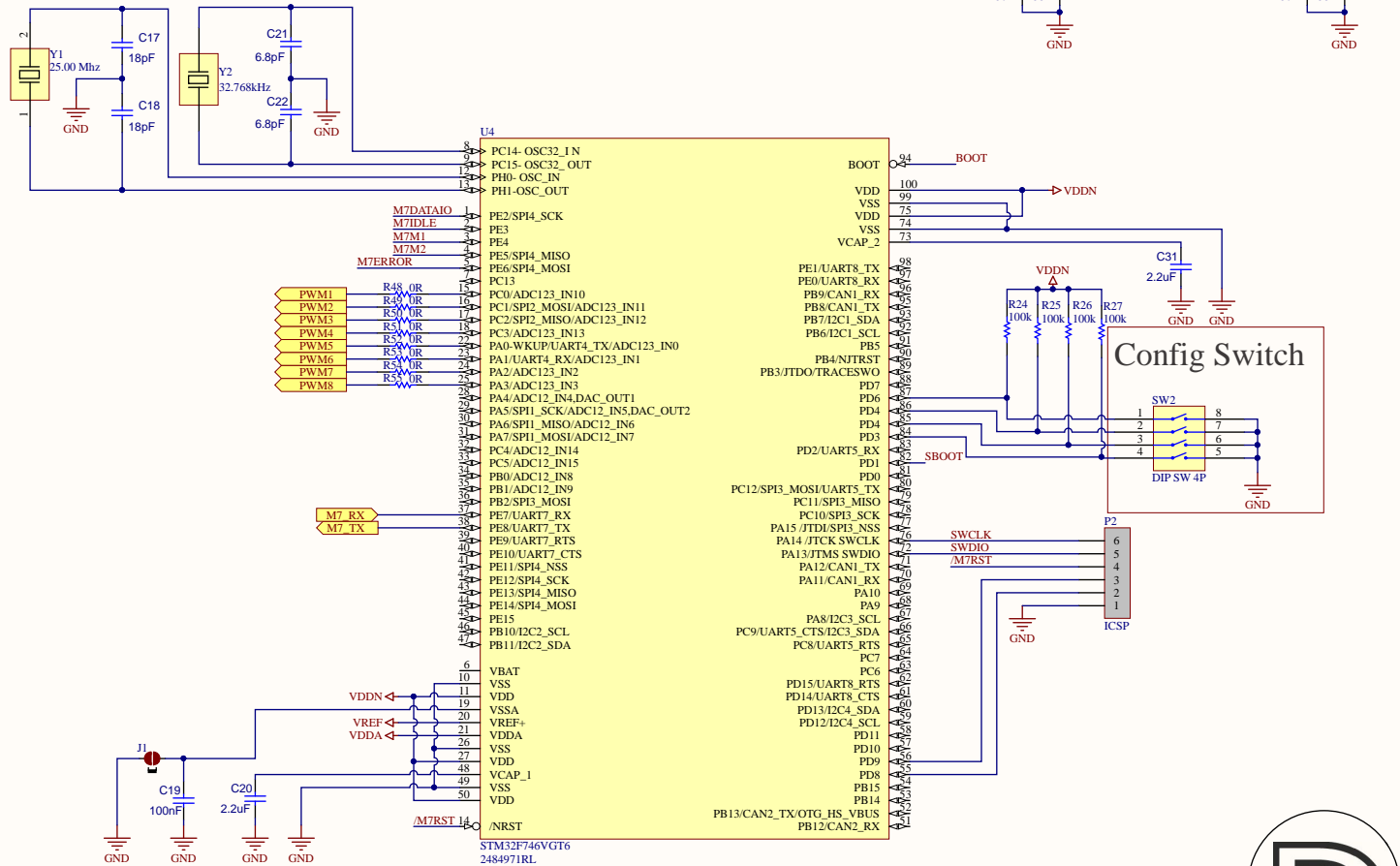
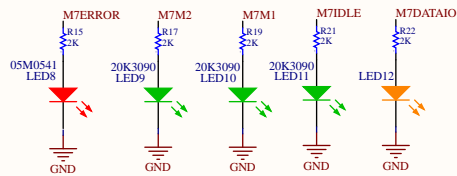
M7 Reset



M7 Boot



State LEDs

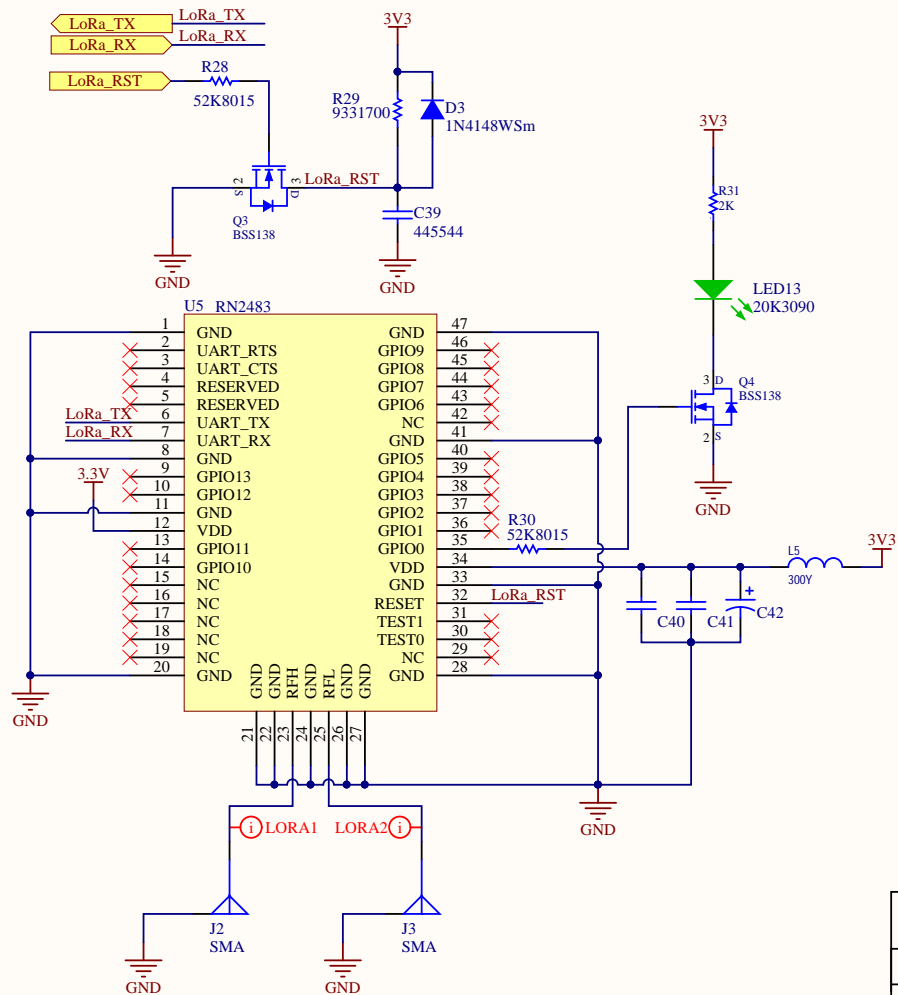


Project : Betelgeuse.PrjPCB

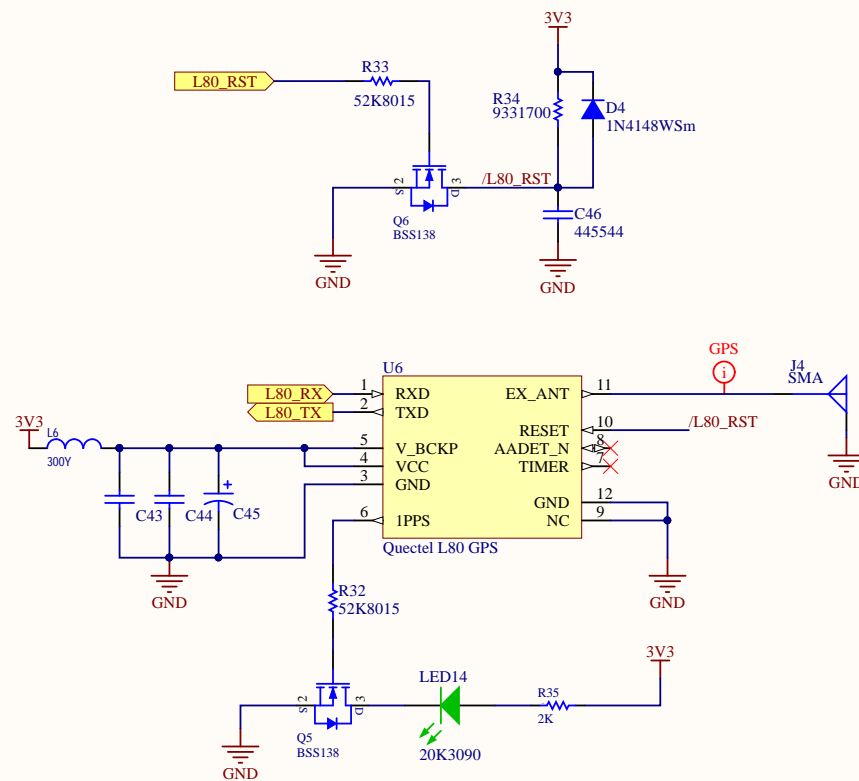
Electronics Design: FAHMI Aymane	Firm Design: ELQOTBI Zakaria
Firmware Version : *	Client : *
Date: 4/18/2018	Sheet Name : Main µC.SchDoc
Time: 22:02:55	Modif: 4/18/2018
	REV: Not in version control



LoRa HB LB



L80 GPS



Project : Betelgeuse.PrjPCB

Electronics Design: FAHMI Aymane

Firm Design: ELQOTBI Zakaria

Firmware Version : *

Client : *

Date: 4/18/2018

Sheet Name : GPS LoRa.SchDoc

Time: 22:02:55

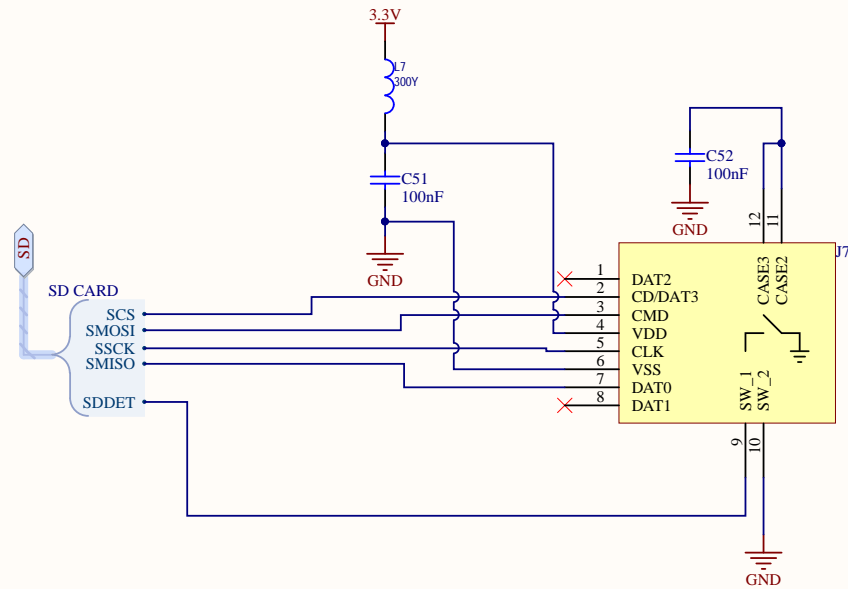
Modif : 4/18/2018

REV: Not in version control



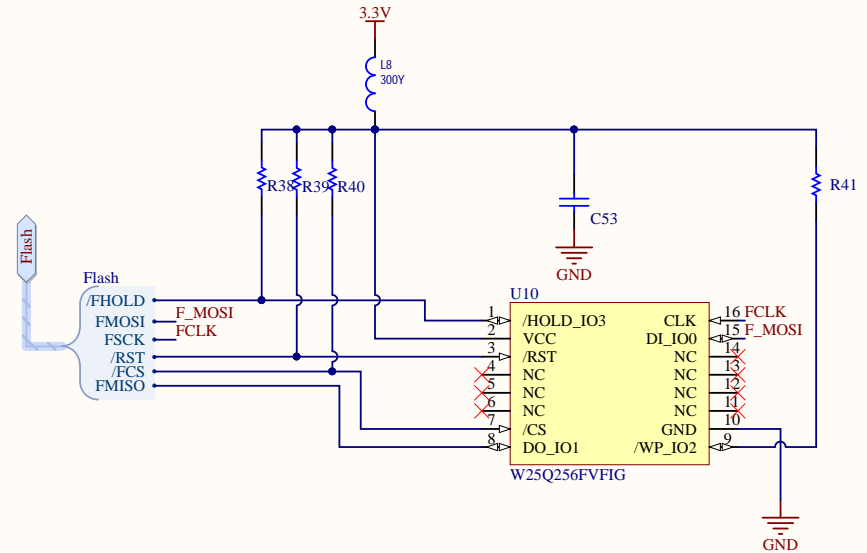
ONBOARD SD CARD

SPI SD Mode up to 8Gb



ONBOARD Flash Memory

STDRD SPI with 256Mo of Memory space



Project : Betelgeuse.PrjPCB

Electronics Design: FAHMI Aymane

Firm Design: ELQOTBI Zakaria

Firmware Version : *

Client : *

Date: 4/18/2018

Sheet Name : μ SD and FLASH.SchDoc

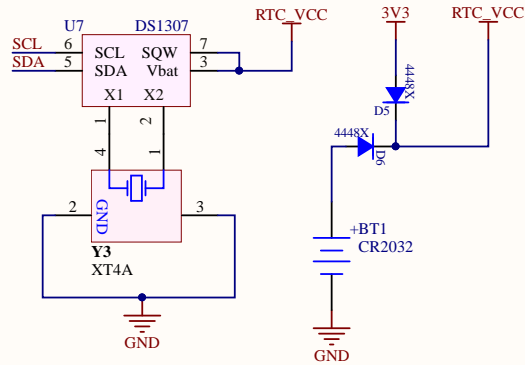
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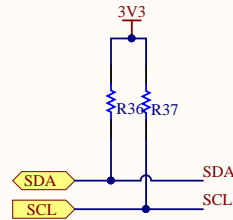
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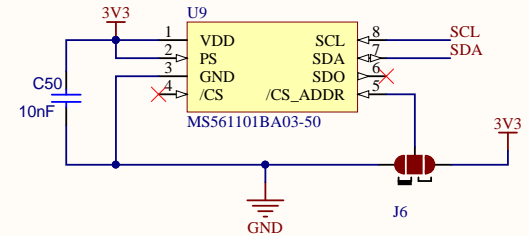
RTC



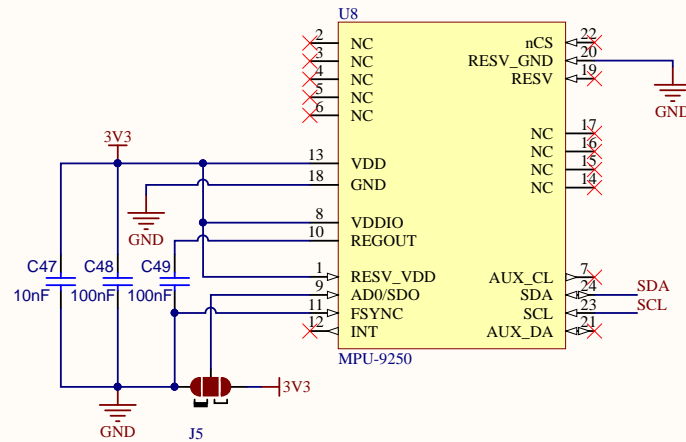
I2C PULL-UPS



PRESSURE SENSOR



IMU 9 DOF



RTC ADRESSE : 0x68
 IMU ADRESSE : SELECTED VIA J3 (3.3V =>0x69 or GND=>0x68)
 PRESSURE ADRESSE : SELECTED VIA J3 (3.3V =>0xEC or GND=>0xEE)
 Max I2C Freq : 400 khz

Project : Betelgeuse.PrjPCB

Electronics Design: FAHMI Aymane

Firm Design: ELQOTBI Zakaria

Firmware Version : *

Client : *

Date: 4/18/2018

Sheet Name : IMU RTC AND BARO.SchDoc

Time: 22:02:55

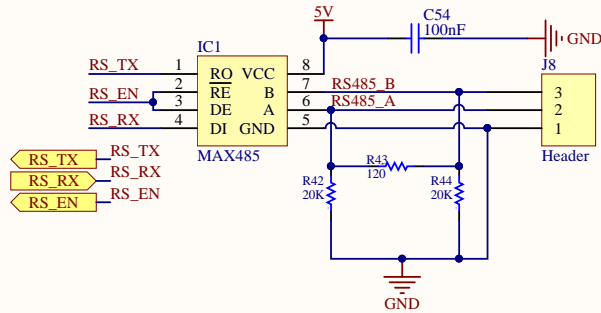
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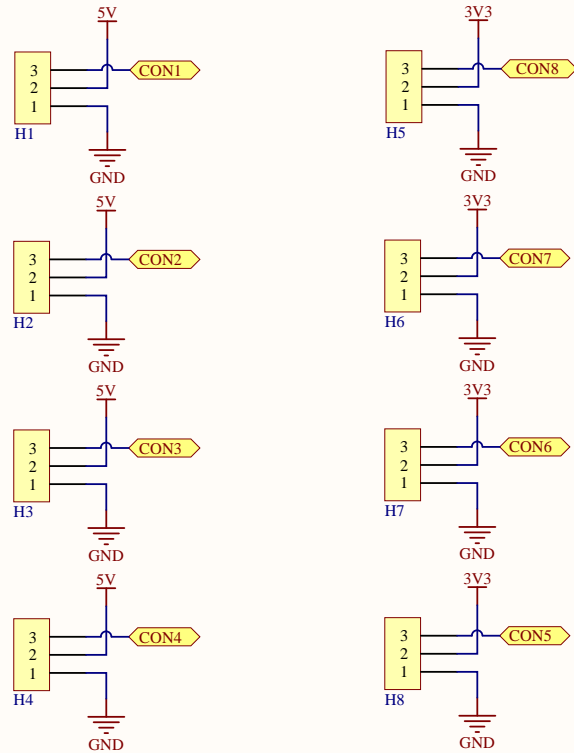


RS485 Transceiver

Non-Isolated RS485 interface



M7 IO



Project : Betelgeuse.PrjPCB

Electronics Design: FAHMI Aymane

Firm Design: ELQOTBI Zakaria

Firmware Version : *

Client : *

Date: 4/18/2018

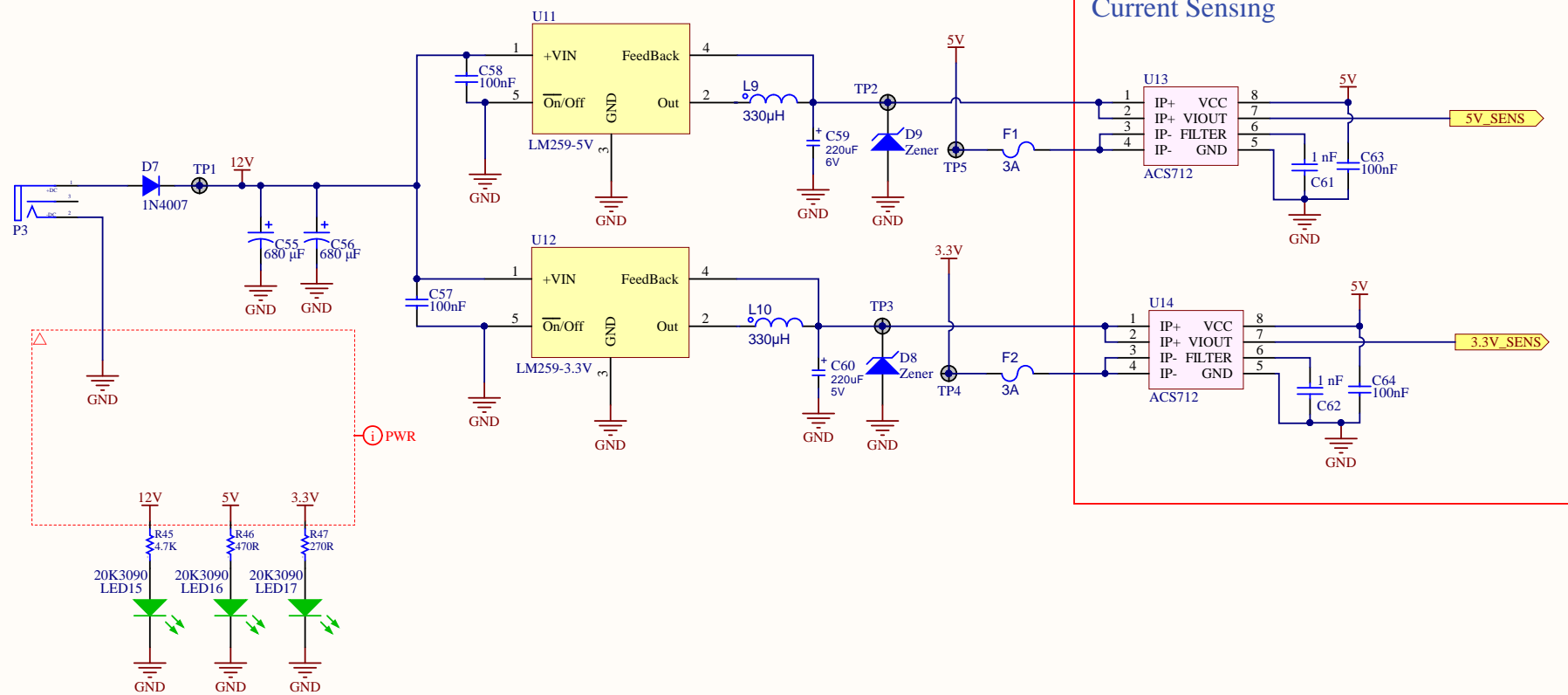
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Time: 22:02:55

Modif : 4/18/2018

REV: Not in version control





Project : Betelgeuse.PrjPCB

Electronics Design: FAHMI Aymane

Firm Design: ELQOTBI Zakaria

Firmware Version : *

Client : *

Date: 4/18/2018

Sheet Name : Alimentation.SchDoc

Time: 22:02:55

Modif : 4/18/2018

REV: Not in version control

