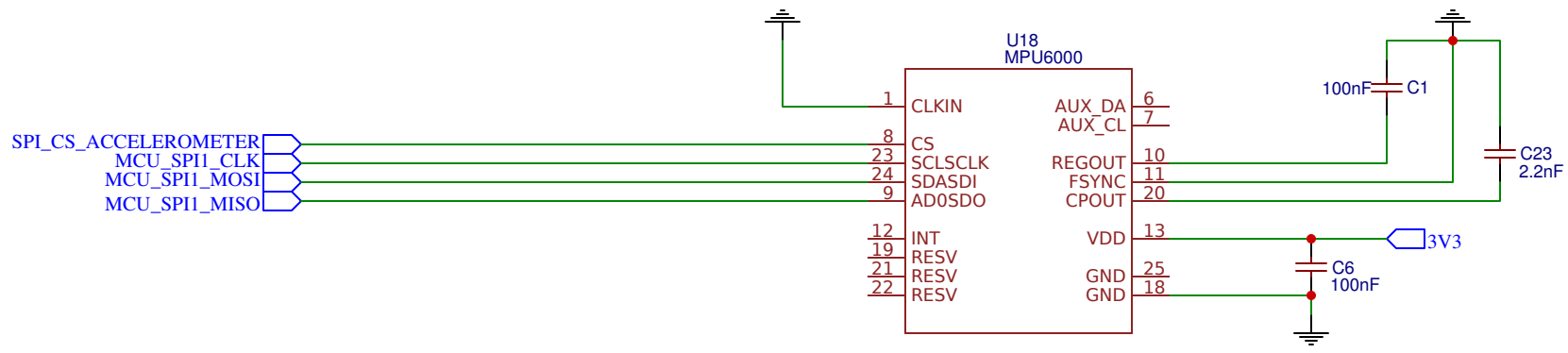
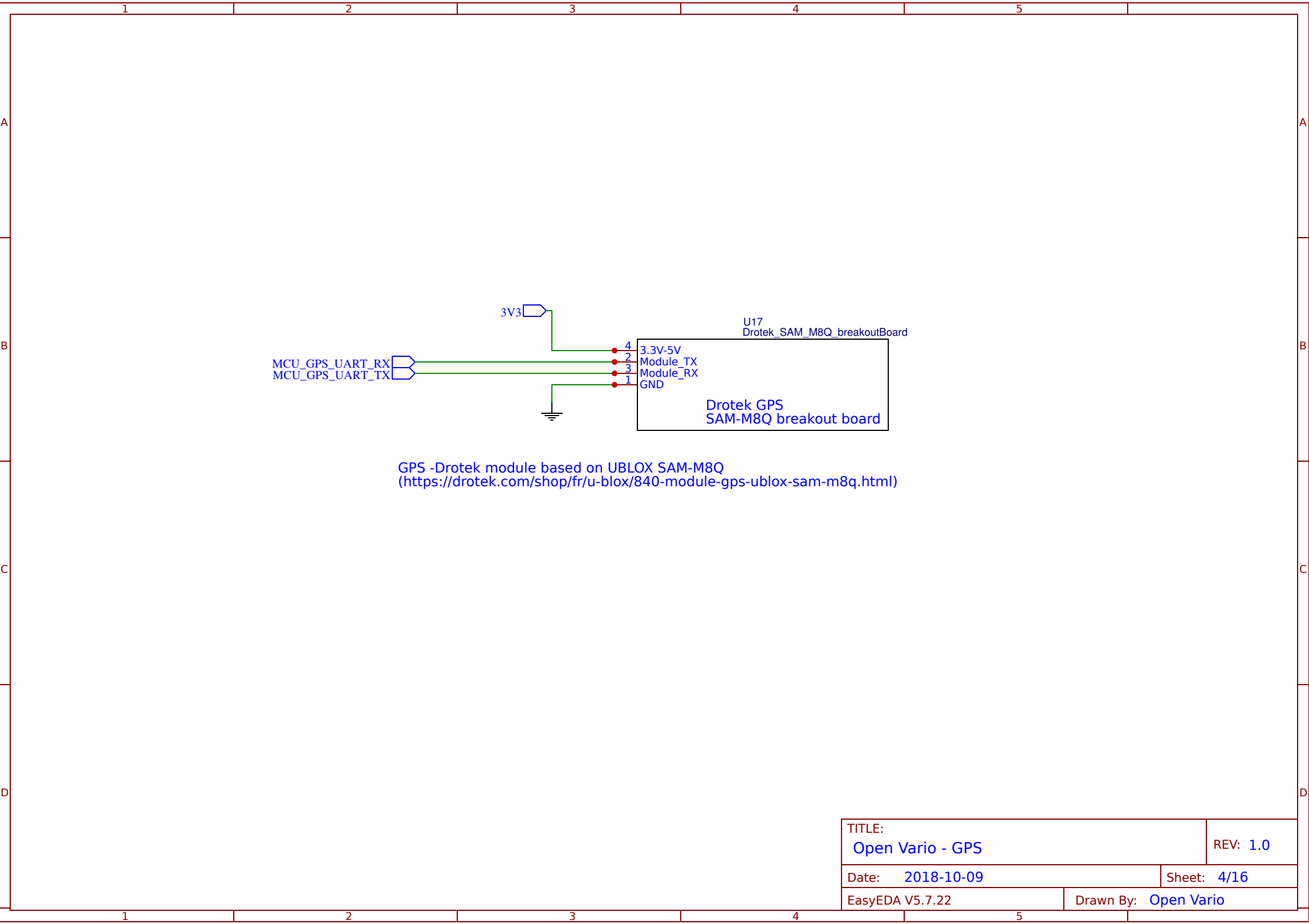


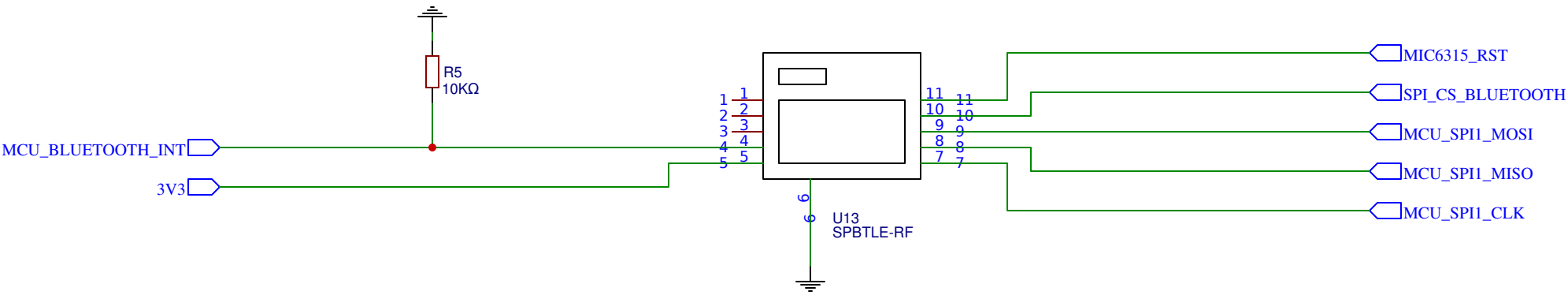
TITLE: Open Vario - Barometric Pressure Sensor		REV: 1.0
Date: 2018-10-09	Sheet: 2/16	
EasyEDA V5.7.22	Drawn By: Open Vario	





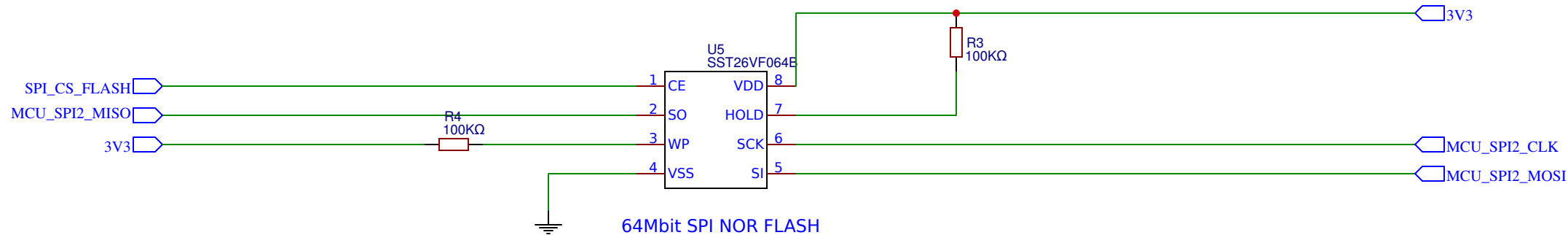
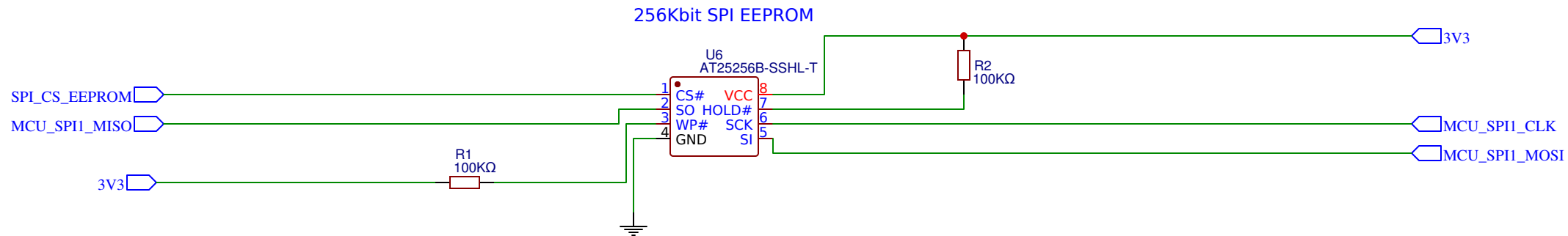
GPS -Drotek module based on UBLOX SAM-M8Q
(<https://drotek.com/shop/fr/u-blox/840-module-gps-ublox-sam-m8q.html>)

TITLE: Open Vario - GPS			REV: 1.0
Date: 2018-10-09		Sheet: 4/16	
EasyEDA V5.7.22		Drawn By: Open Vario	



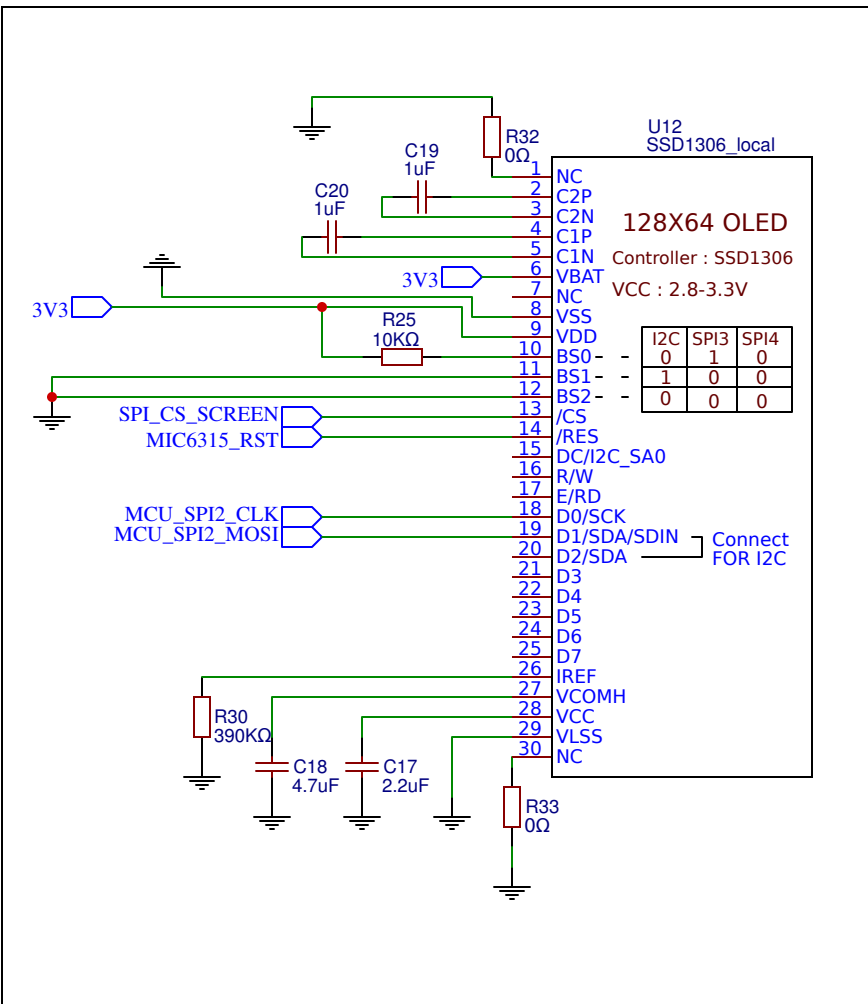
Bluetooth - SPBTLE-RF module based on ST BlueNRG-MS chip
(<https://www.st.com/en/wireless-connectivity/spbtle-rf.html>)

TITLE: Open Vario - Bluetooth		REV: 1.0
Date: 2018-10-09	Sheet: 5/16	
EasyEDA V5.7.22	Drawn By: Open Vario	

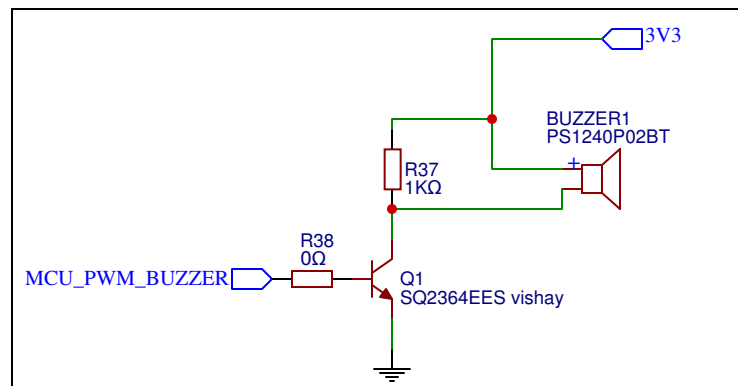


TITLE: Open Vario - Memories		REV: 1.0
Date: 2018-10-09		Sheet: 6/16
EasyEDA V5.7.22	Drawn By: Open Vario	

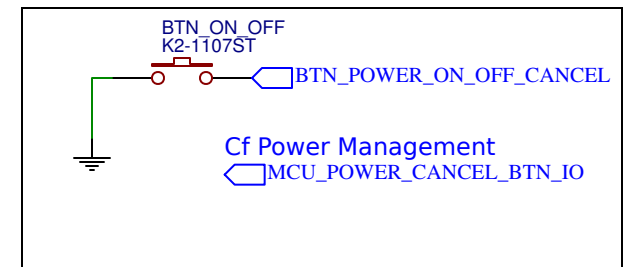
Oled Screen



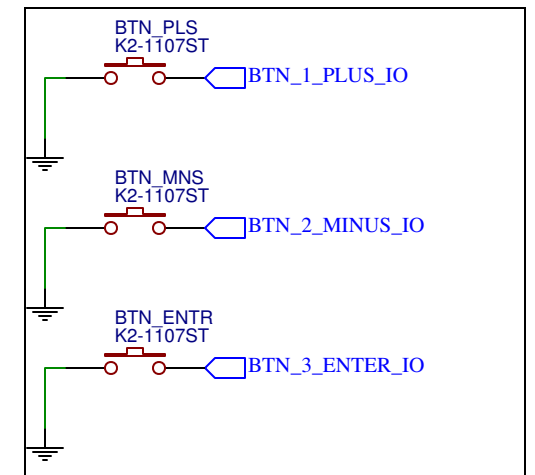
Buzzer



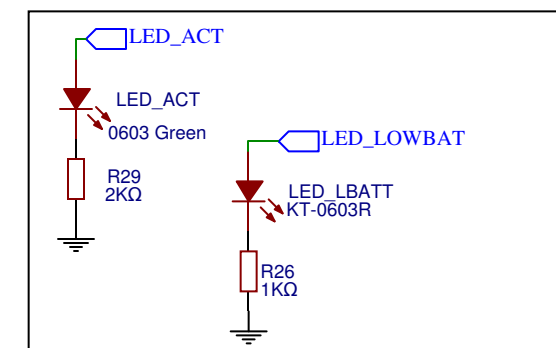
Power On Off Button + Cancel Button



Navigation buttons



Activity leds



TITLE:

Open Vario - HMI

REV: 1.0

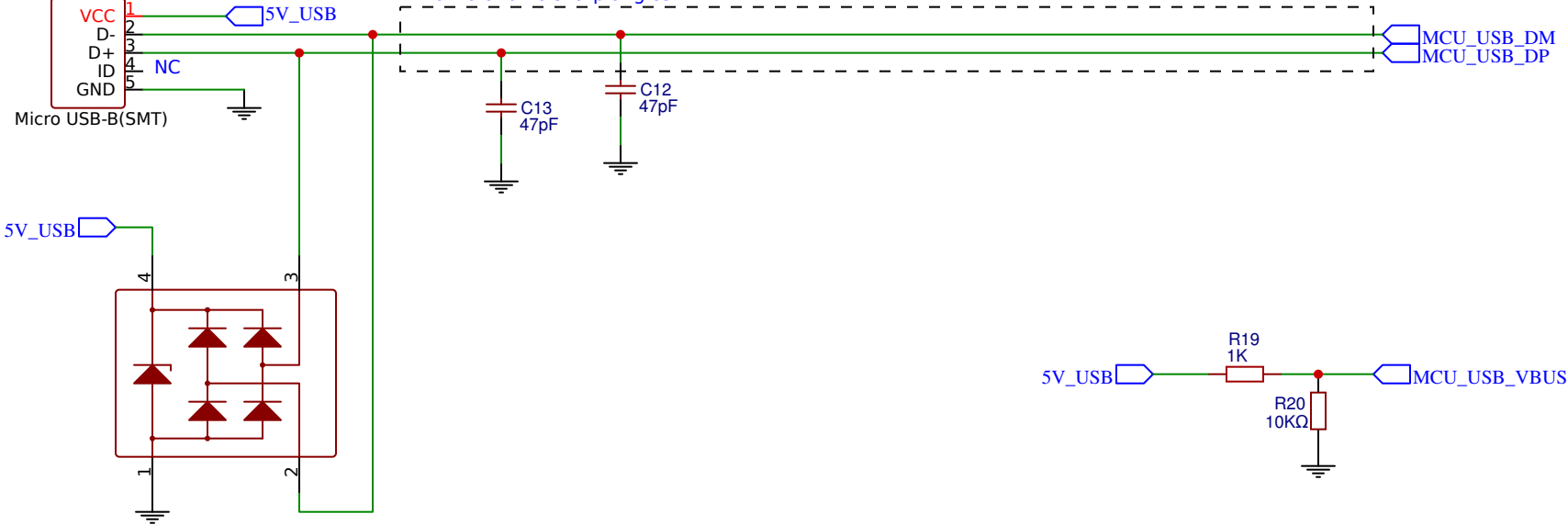
Date: 2018-10-09

Sheet: 7/16

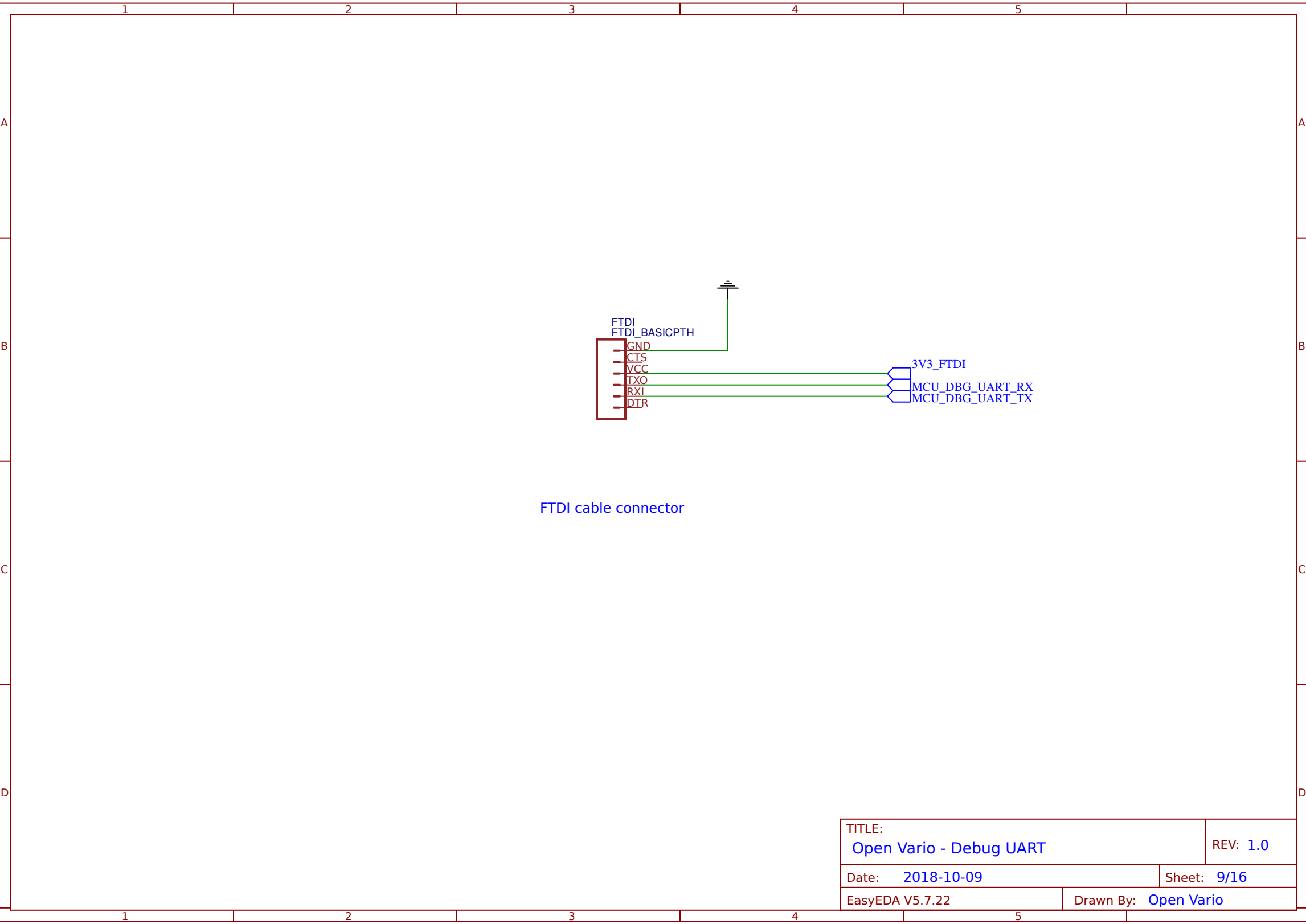
EasyEDA V5.7.22

Drawn By: Open Vario

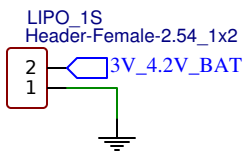
1	2	3	4	5	
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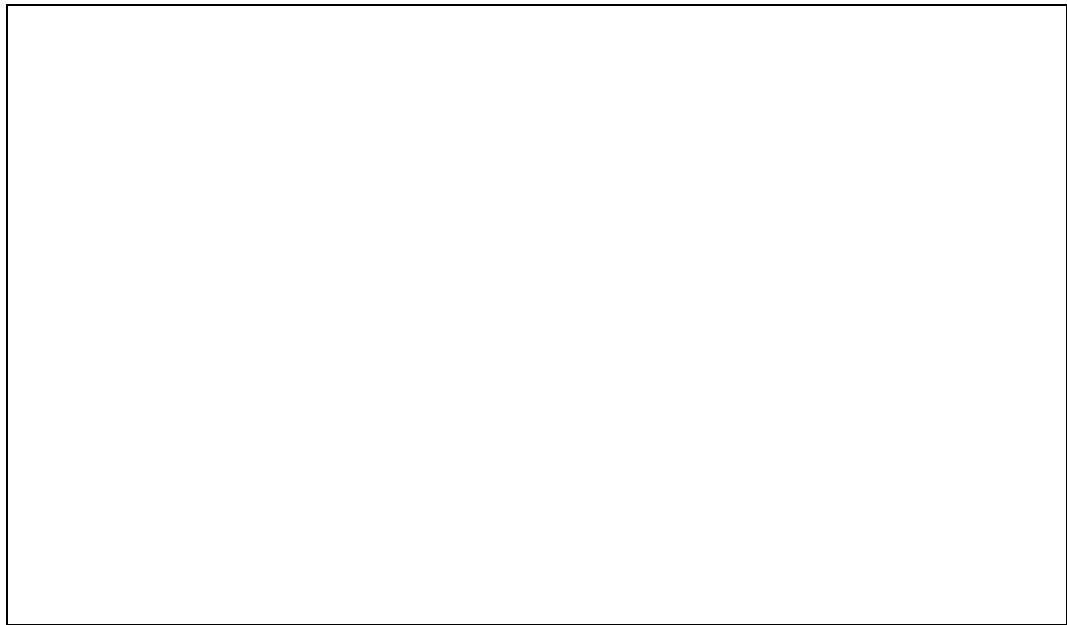
TITLE: Open Vario - USB Device		REV: 1.0
Date: 2018-10-09		Sheet: 8/16
EasyEDA V5.7.22	Drawn By: Open Vario	



TITLE: Open Vario - Debug UART		REV: 1.0
Date: 2018-10-09	Sheet: 9/16	
EasyEDA V5.7.22	Drawn By: Open Vario	

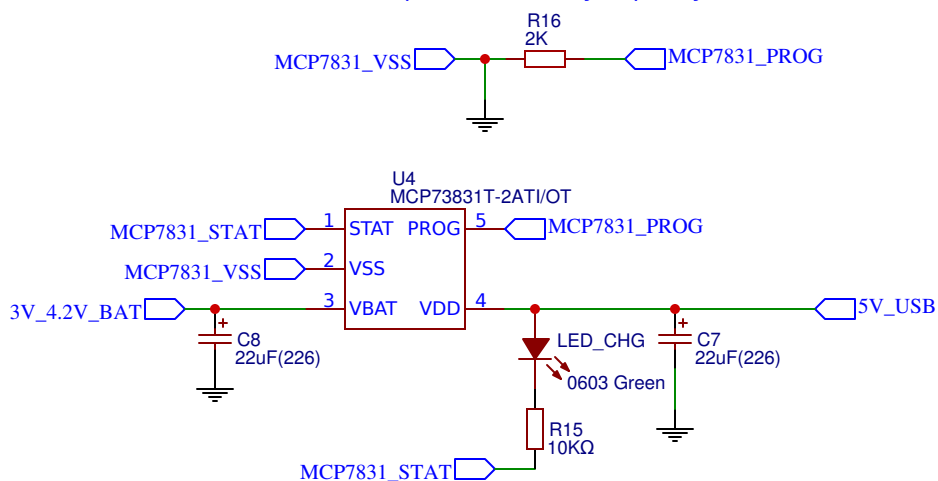


Charger with thermal protection TI BQ24090DGQR



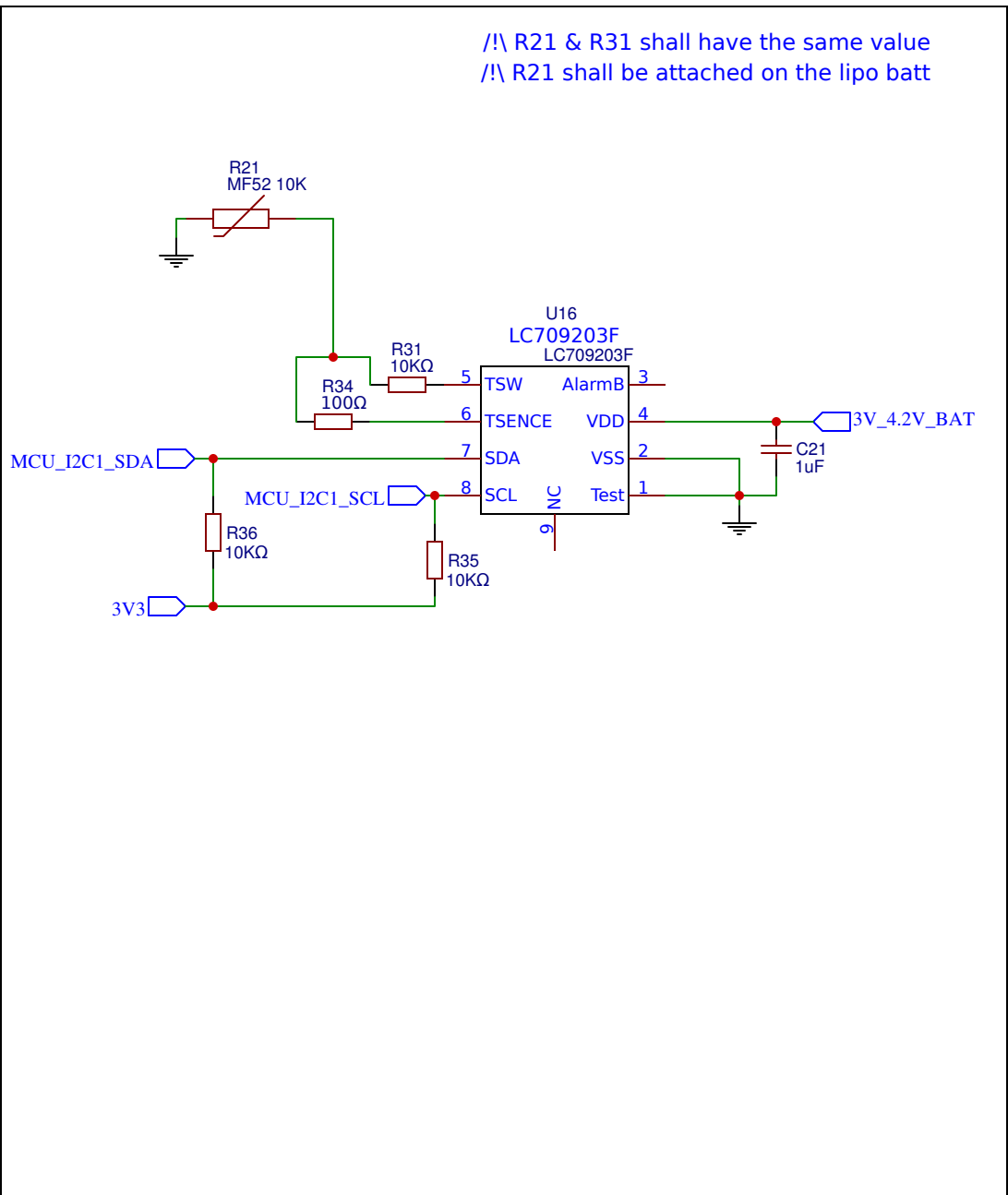
Simple charger (no thermal protection)

Resistor value depend on battery capacity, here 500 mAh



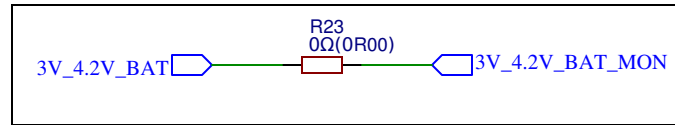
/!\ Use recommended PCB layout

Battery Fuel Gauge

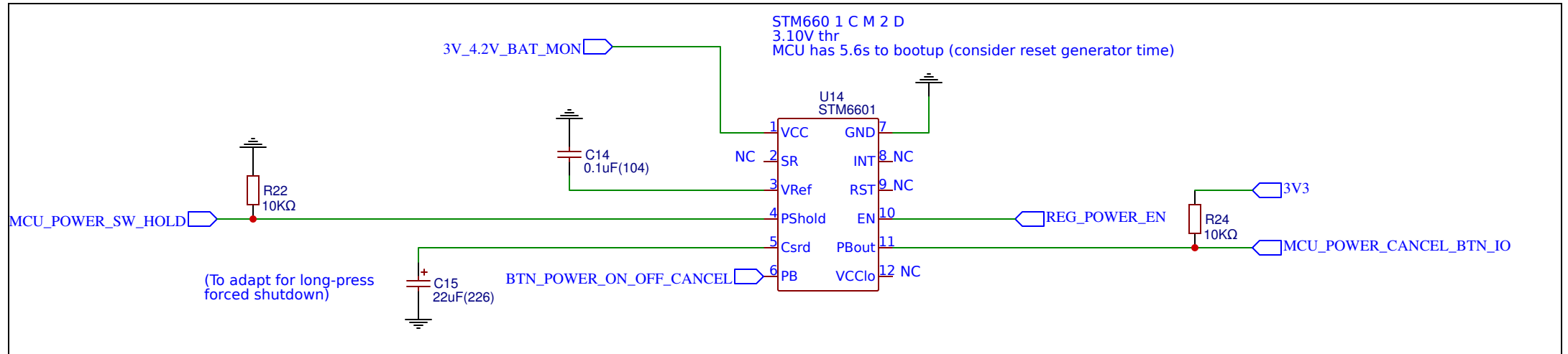


TITLE: Open Vario - Battery		REV: 1.0
Date: 2018-10-09	Sheet: 10/16	
EasyEDA V5.7.22	Drawn By: Open Vario	

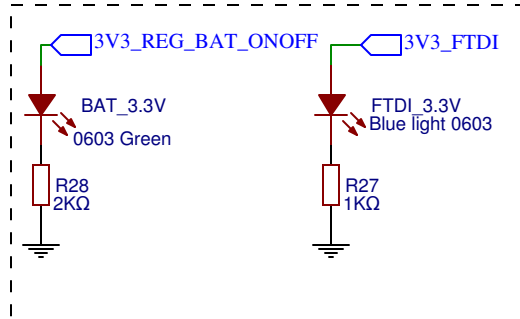
Monitor power consumption



Power On/Off fonctionnality + protection against Low Voltage

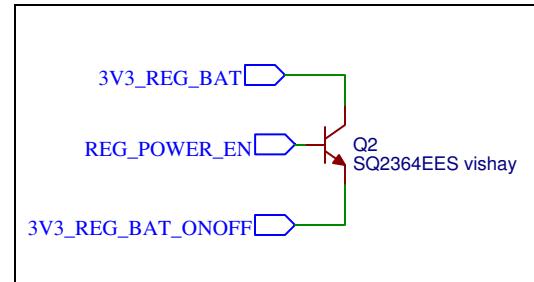


For debug only

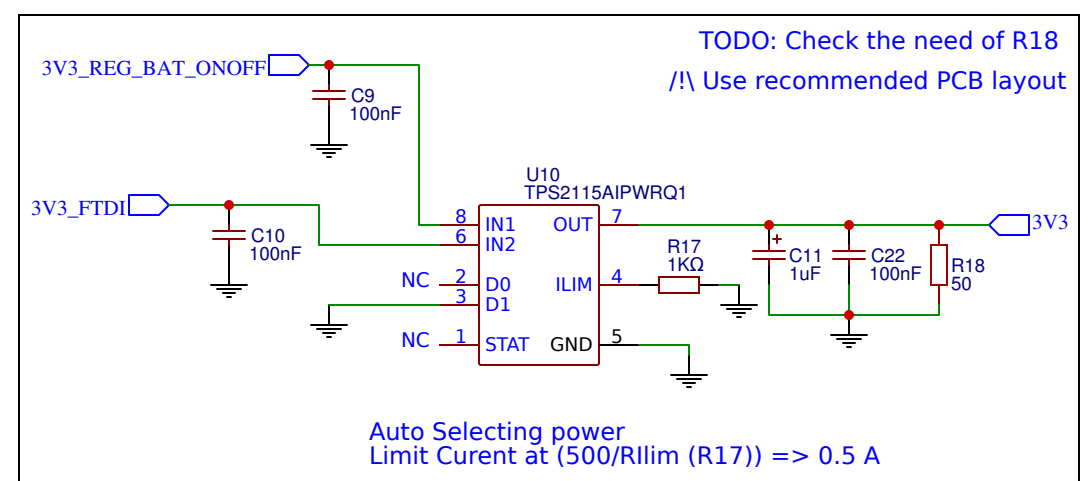


Voltage regulator to step down from battery to 3.3V

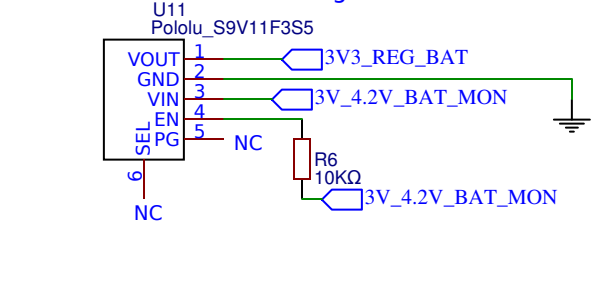
Power cut



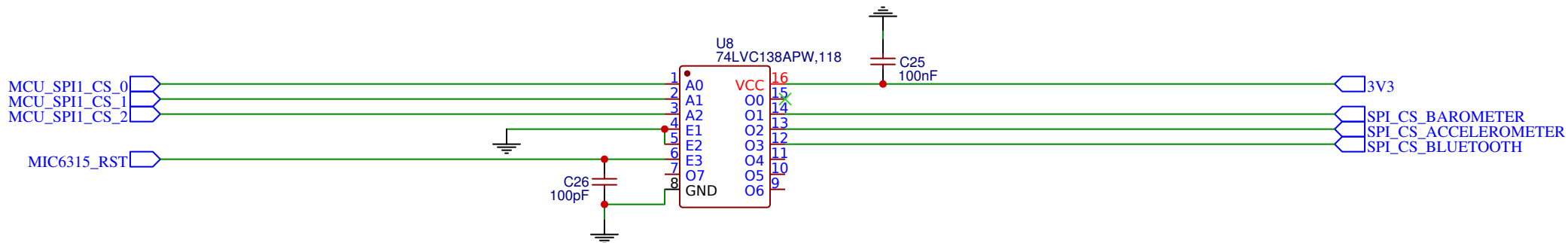
Power selection between 3.3V from FTDI and 3.3V from battery



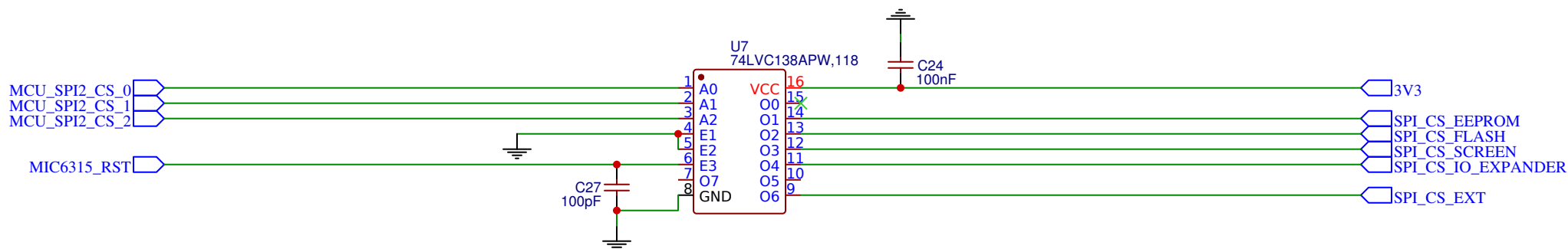
Pololu S9V11F3S5 3.3V Reg



TITLE:		REV: 1.0	
Open Vario - Power Management			
Date:	2018-10-09	Sheet:	11/16
EasyEDA V5.7.22		Drawn By: Open Vario	

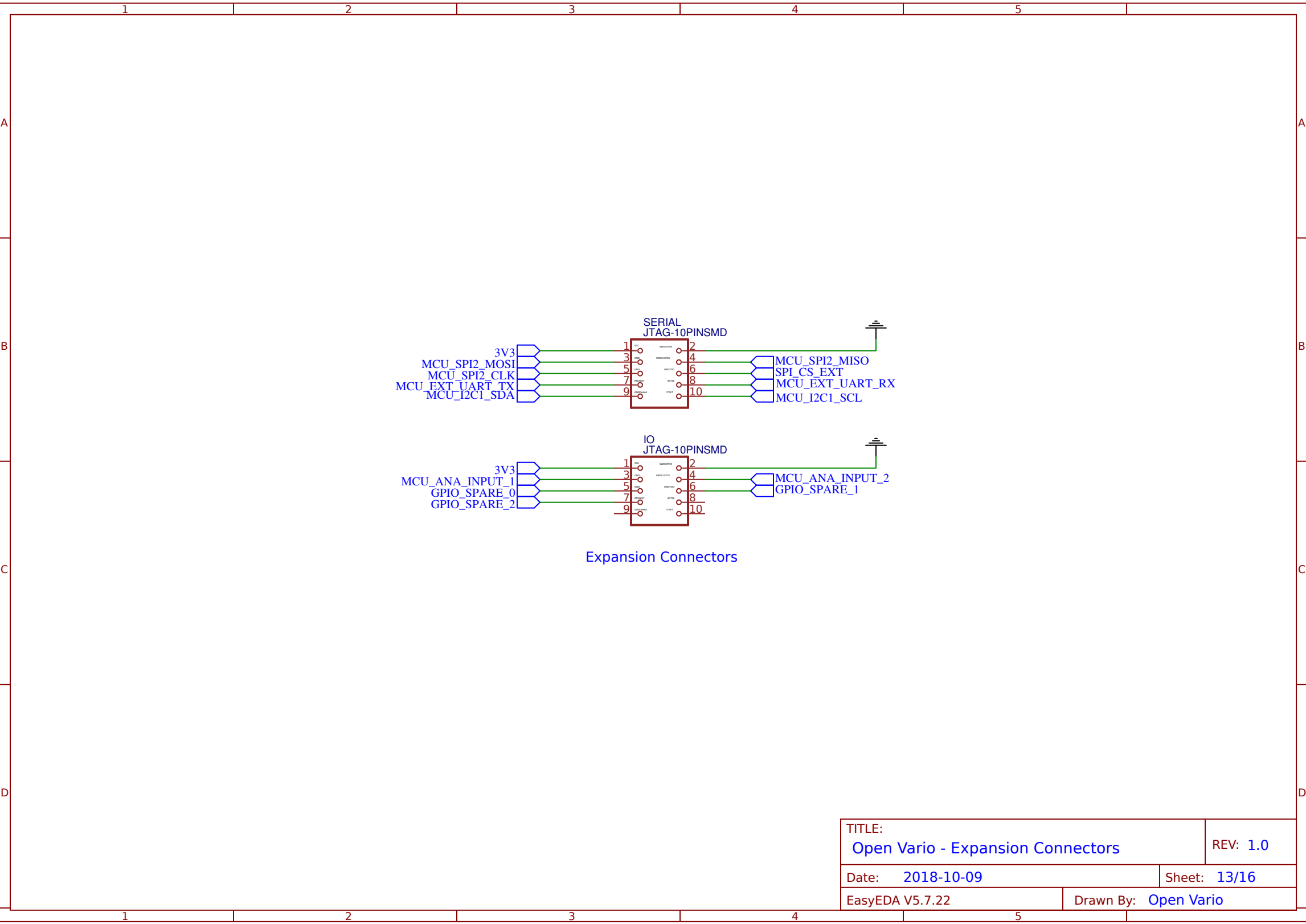


Demultiplexer for SPI1 CS



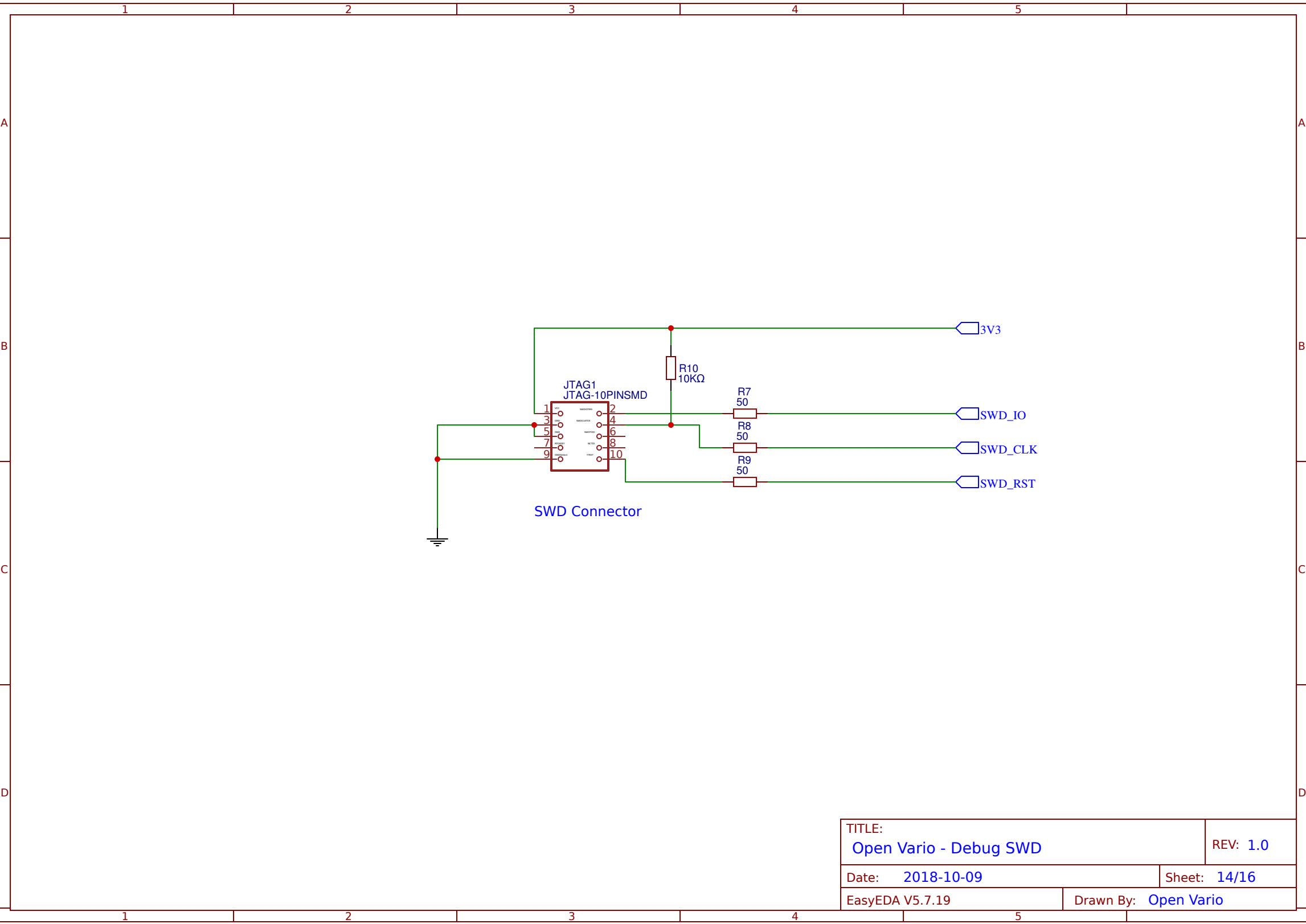
Demultiplexer for SPI2 CS

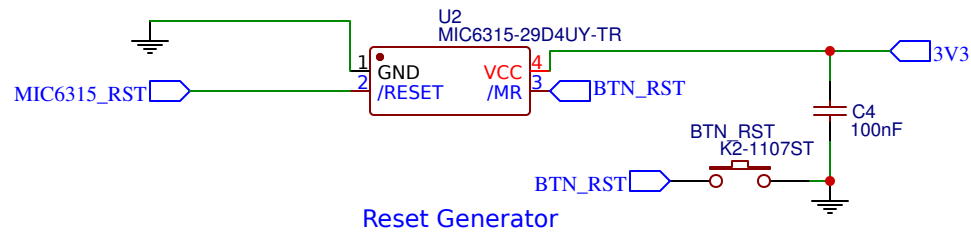
TITLE: Open Vario - SPI Demultiplexer		REV: 1.0
Date: 2018-10-09		Sheet: 12/16
EasyEDA V5.7.22	Drawn By: Open Vario	



Expansion Connectors

TITLE: Open Vario - Expansion Connectors		REV: 1.0
Date: 2018-10-09	Sheet: 13/16	
EasyEDA V5.7.22	Drawn By: Open Vario	





TITLE: Open Vario - Reset Generator		REV: 1.0
Date: 2018-10-09	Sheet: 15/16	
EasyEDA V5.7.22	Drawn By: Open Vario	

