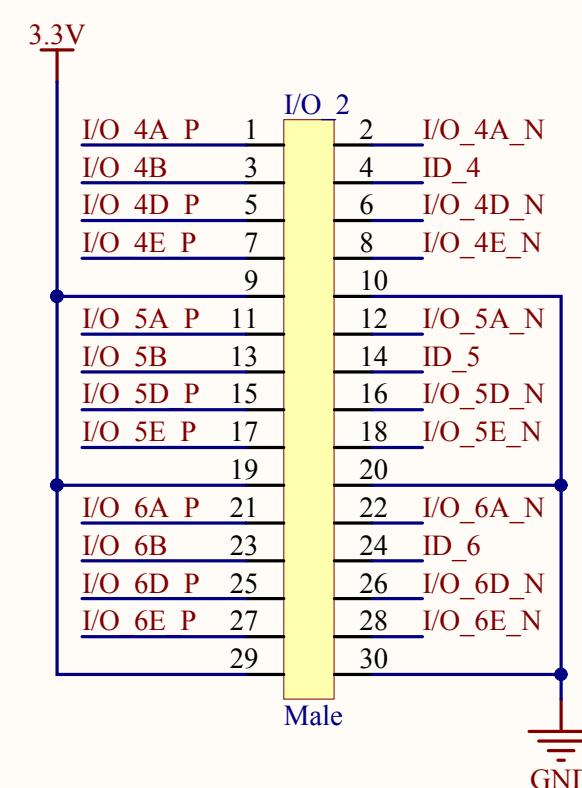
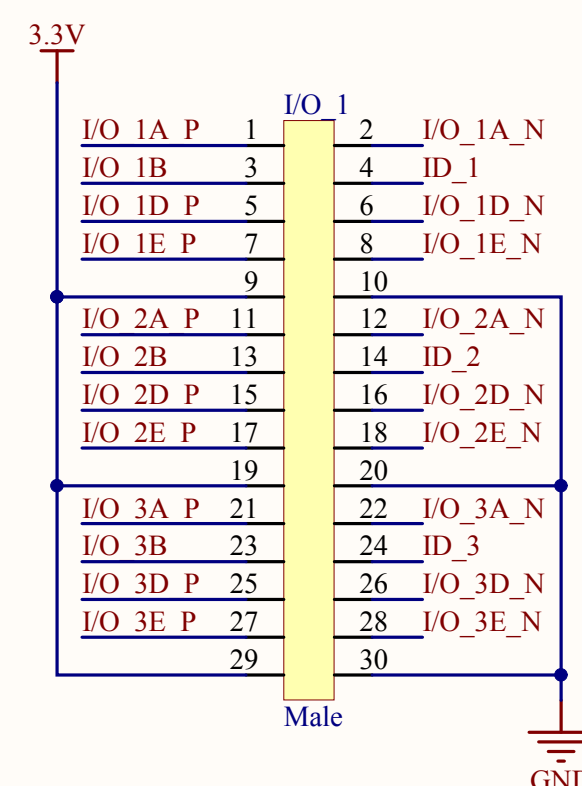
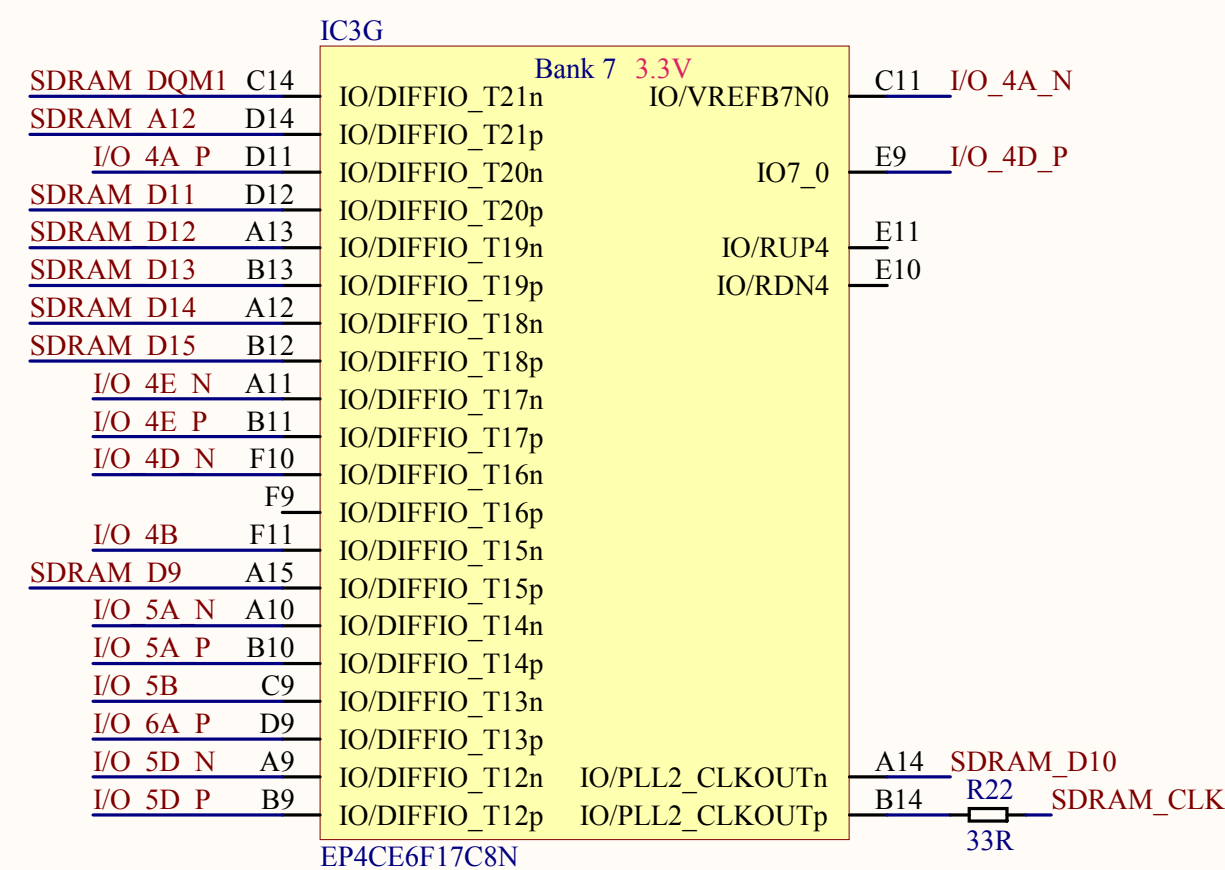
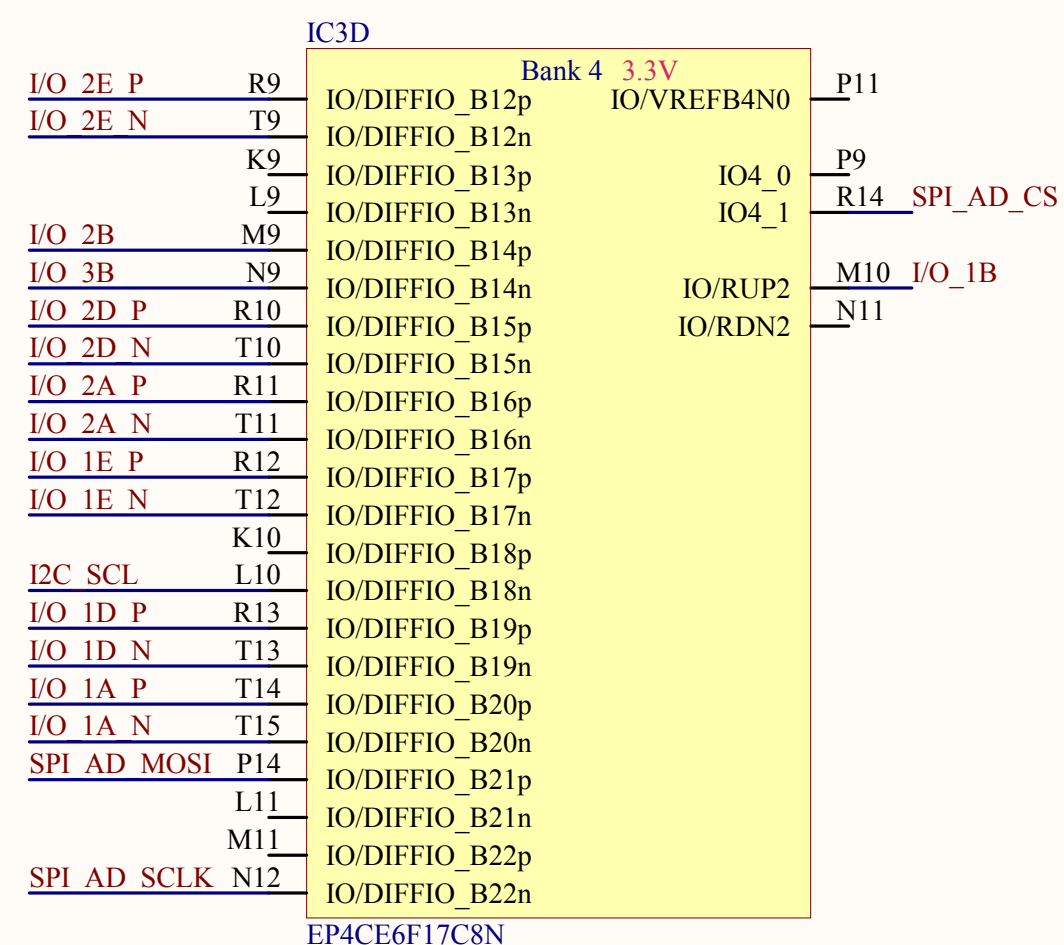
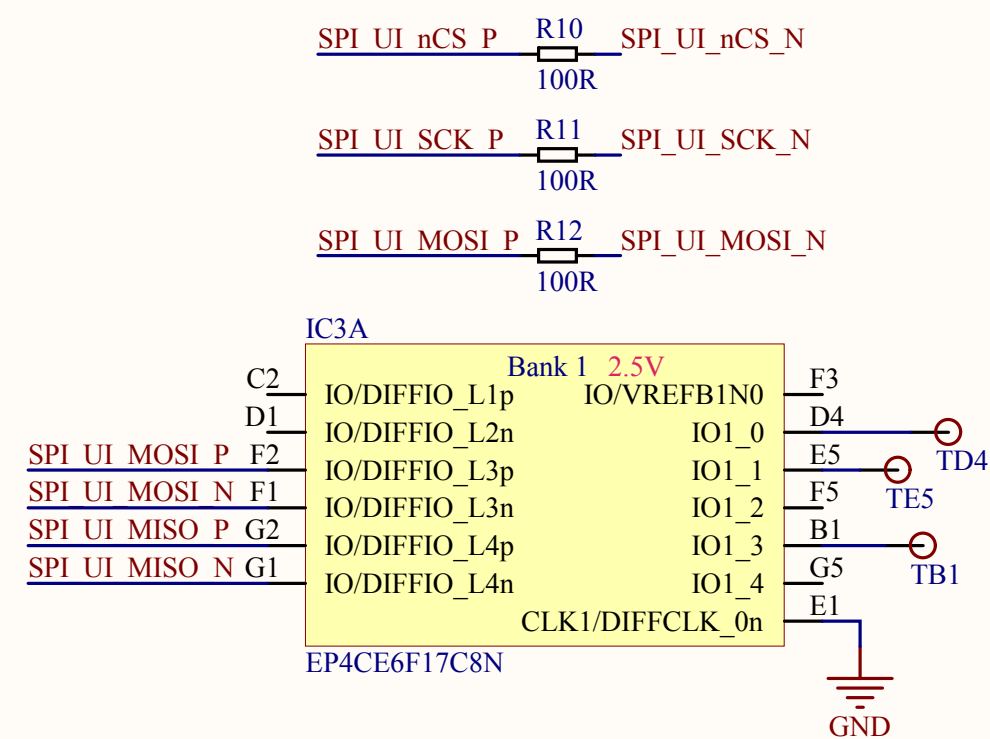
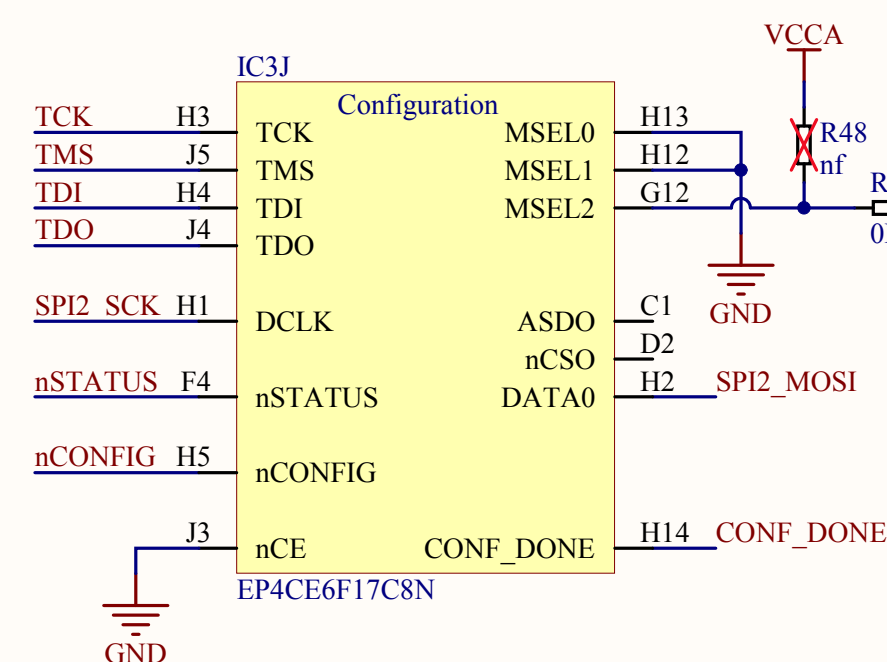
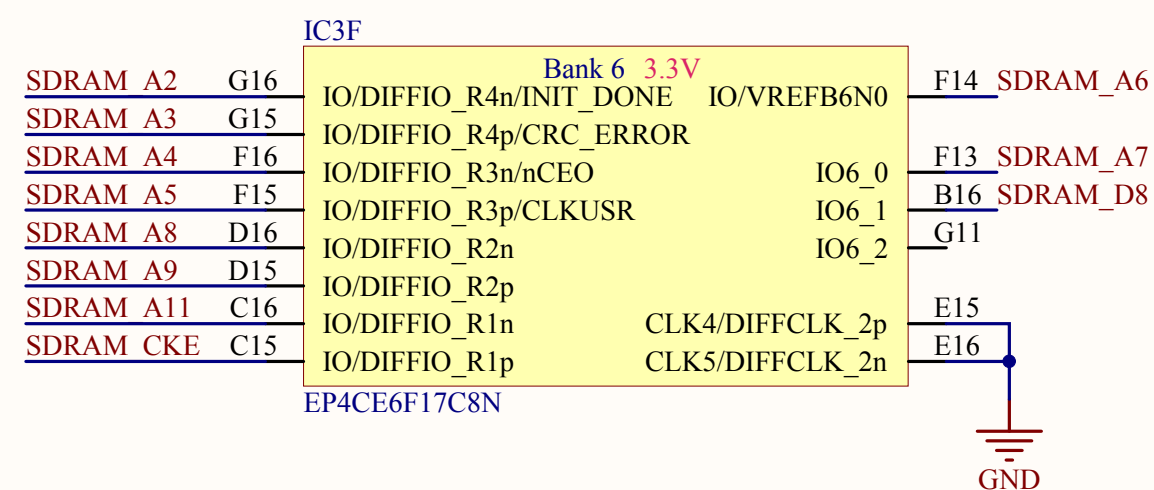
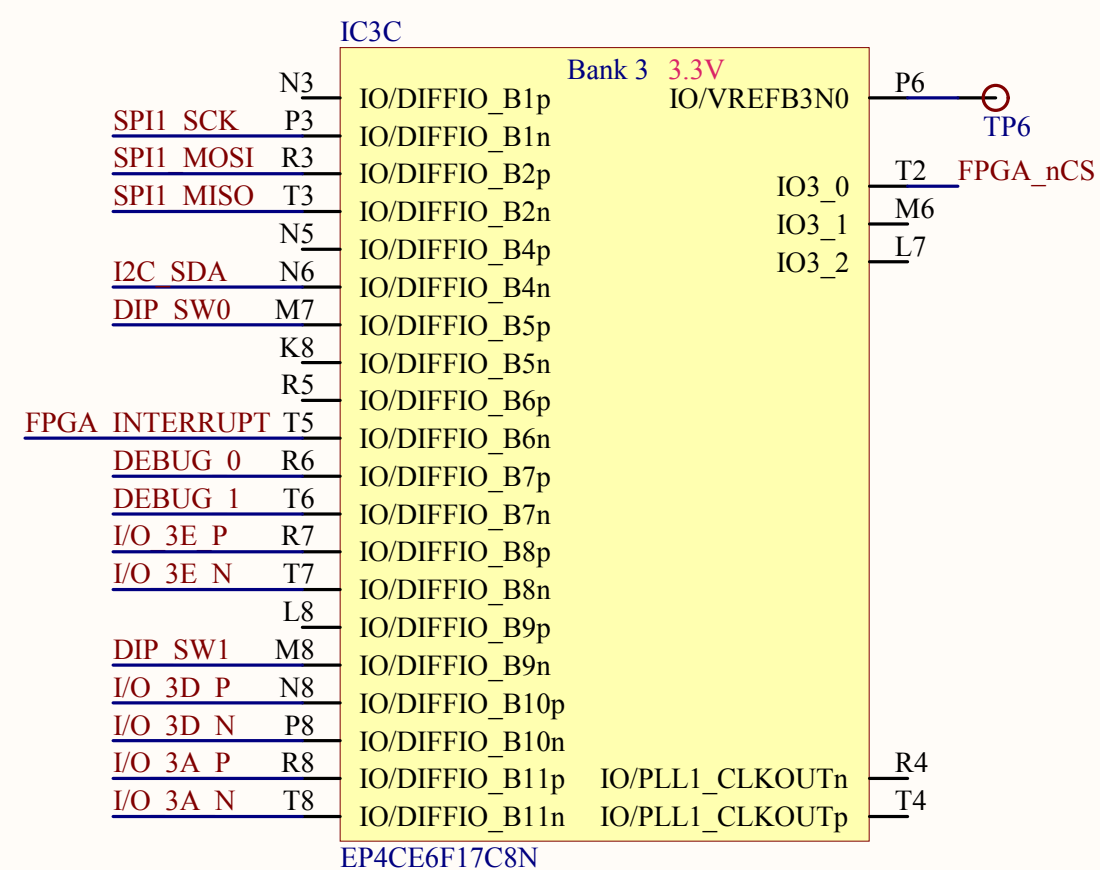
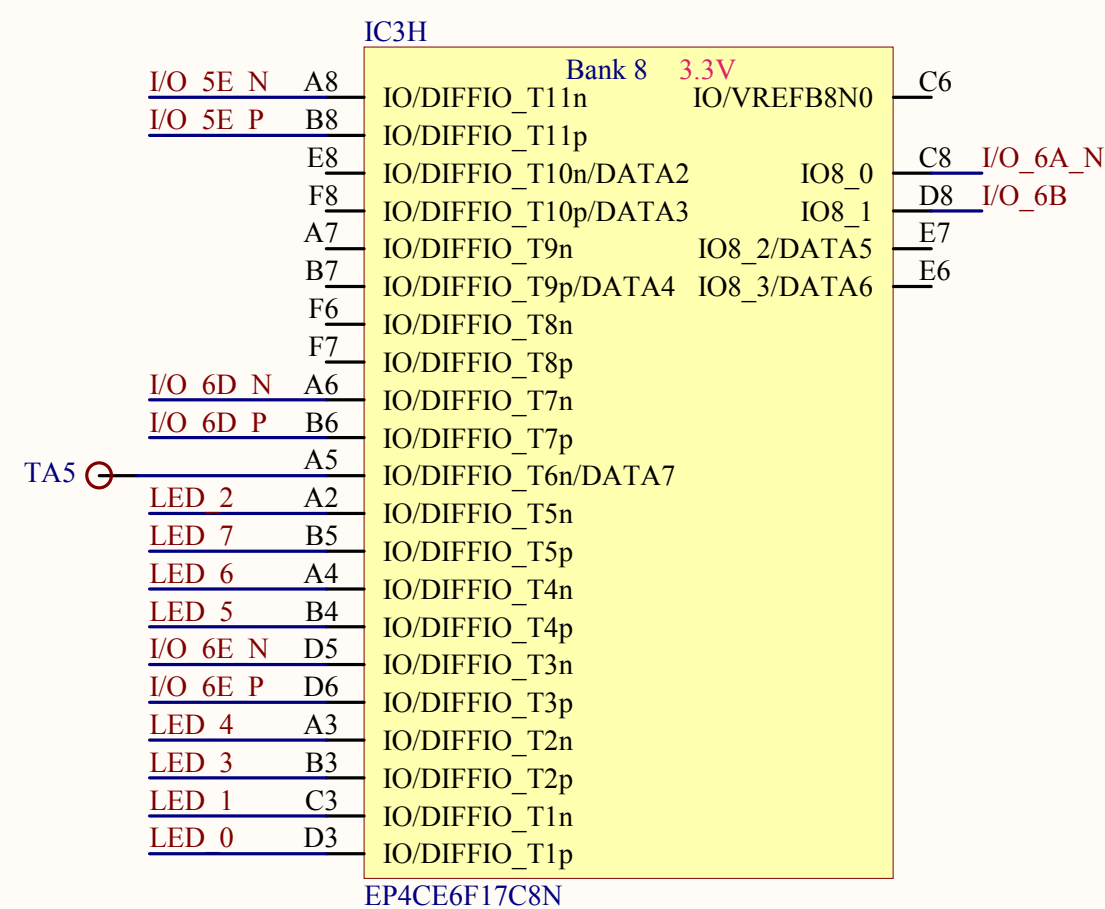
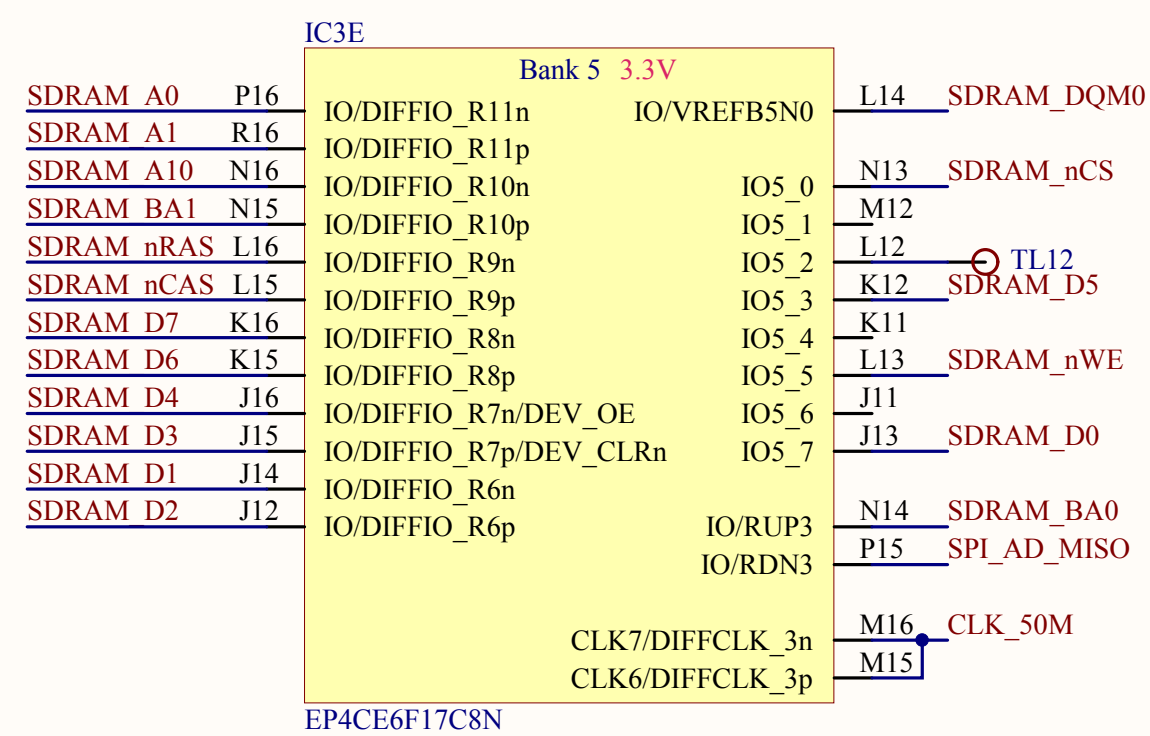
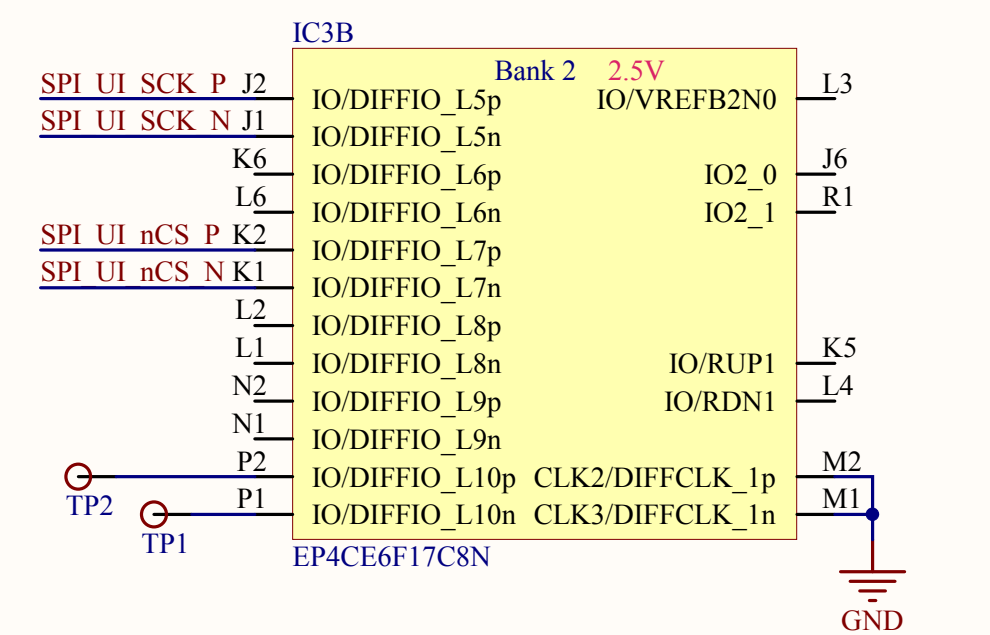


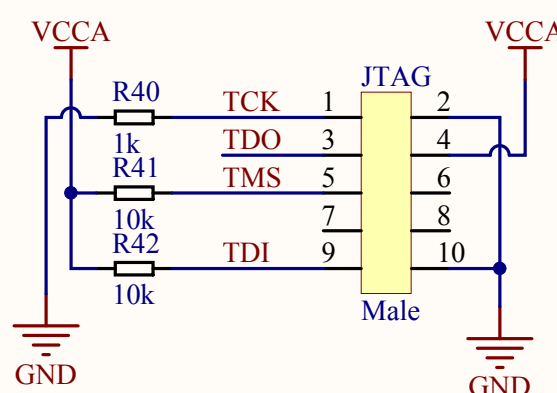
A



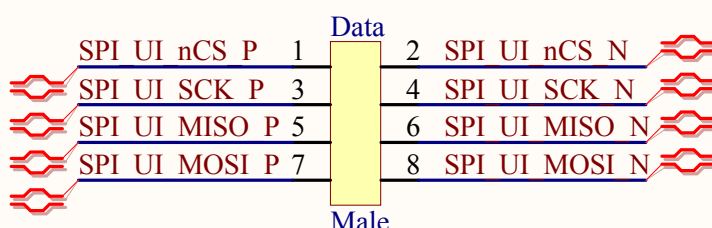
B



▲ Passive Serial (PS) configuration.
R49: Standard POR Delay
R48: Fast POR Delay



Data Connector



Title: Data Processor Board		
Size: A3	Number: 1	Revision: Rev 1
Date: 6/16/2015	Time: 10:15:20 PM	Sheet 1 of 4
File: Serial Monitor Data Processor Board Schematic.SchDoc		

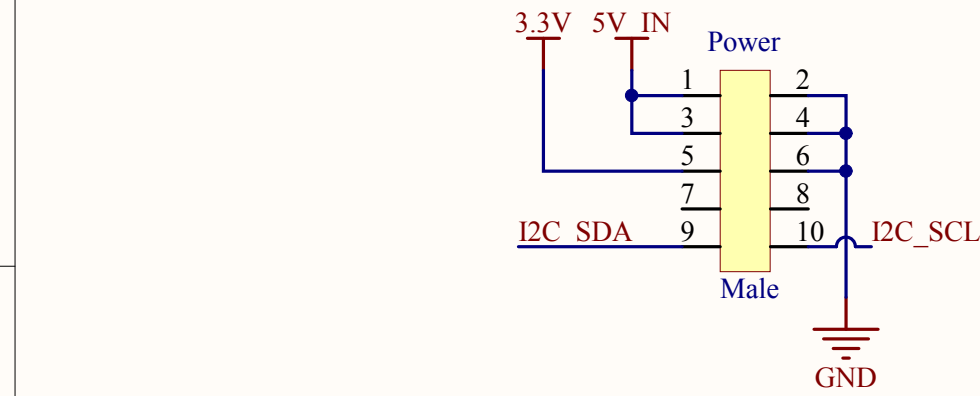
Notes

Calculations

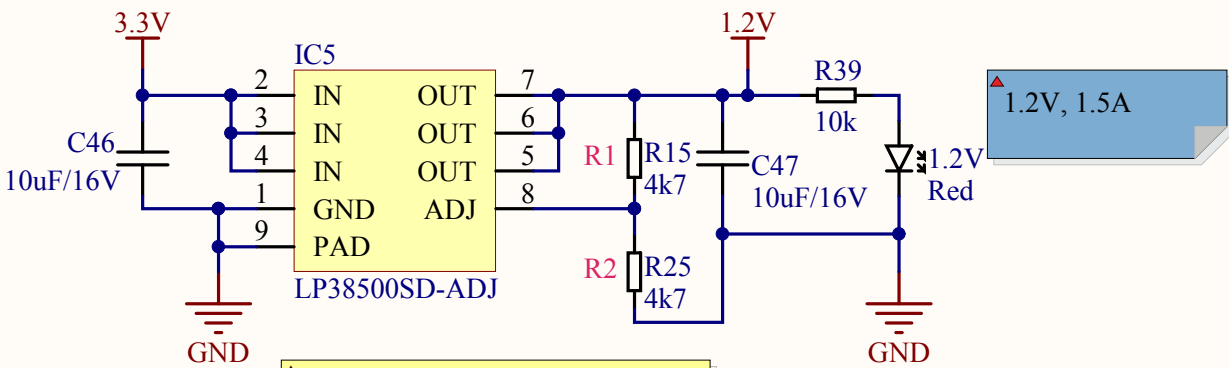
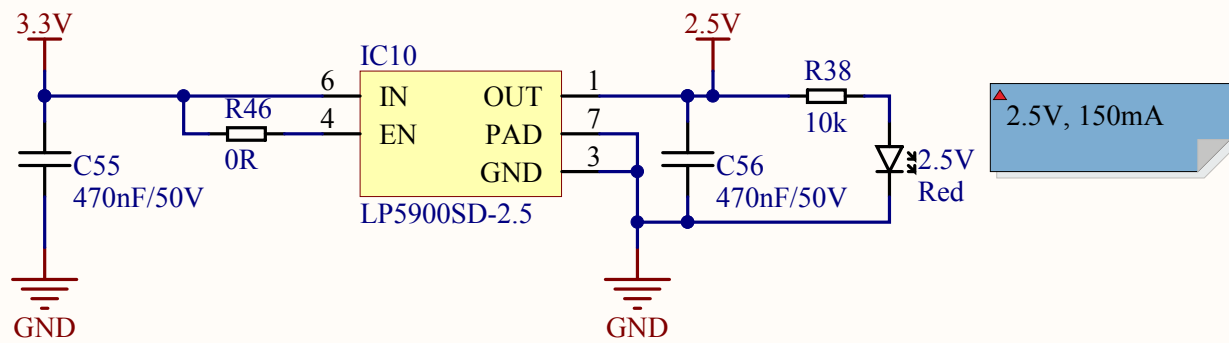
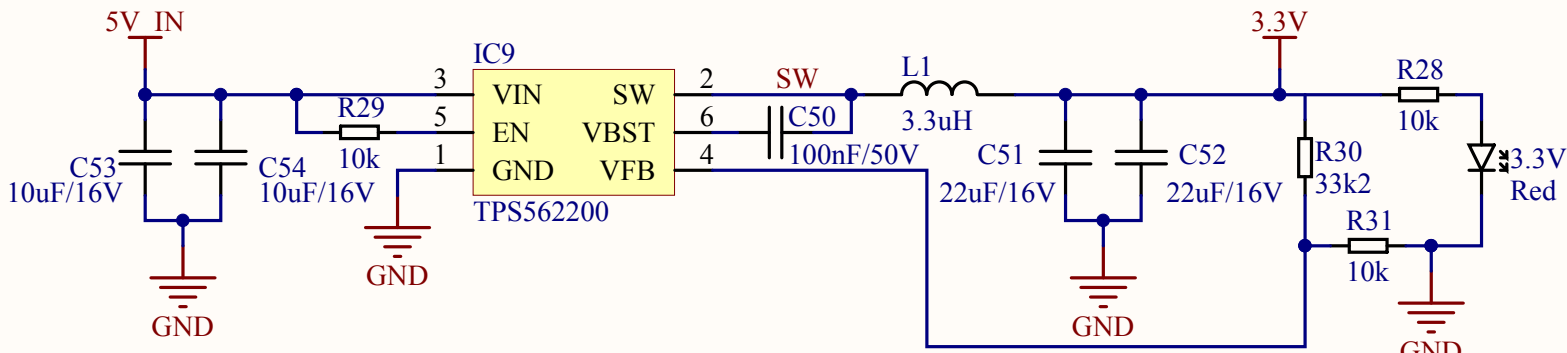
Important Note

Software Note

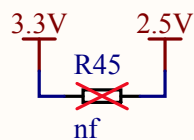
Mounting Note



3.3V, 2A



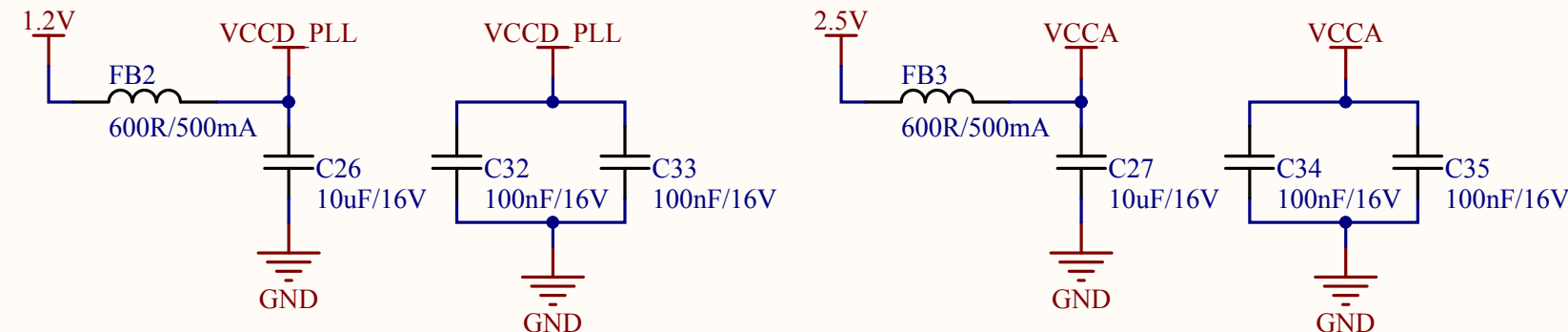
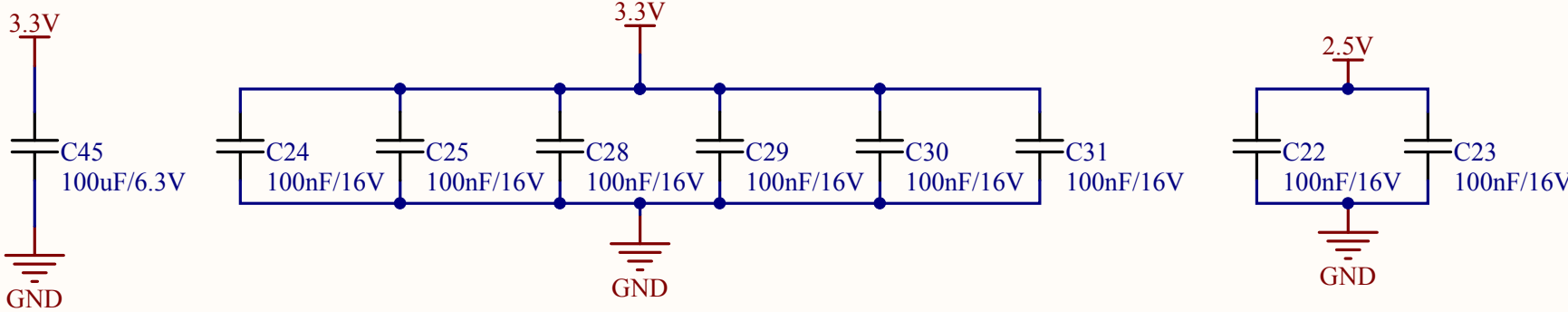
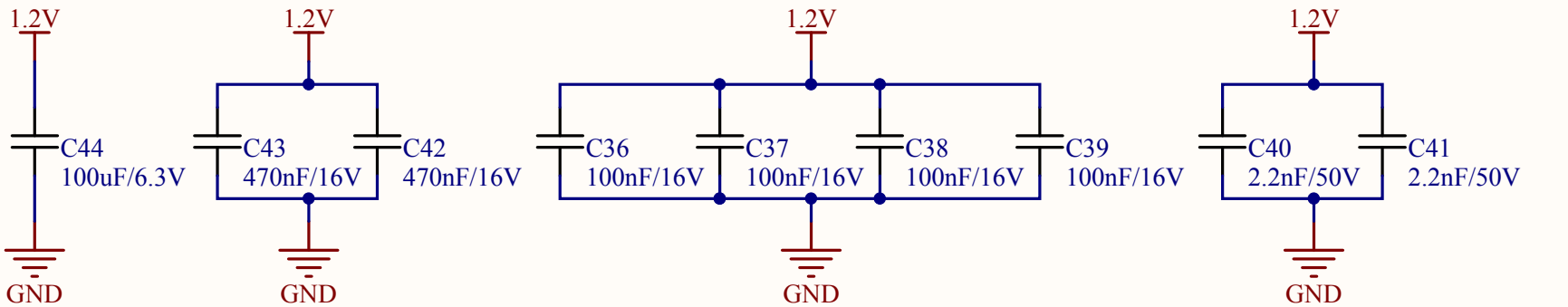
$V_{out} = V_{adj}(1 + R1/R2) + I_{adj} * R1$
 $V_{adj} = 0.605 \text{ V}$
 $I_{adj} = 50\text{-}750 \text{ nA}$
 $R1=R2=4k7 \rightarrow 1.21 \text{ V}$



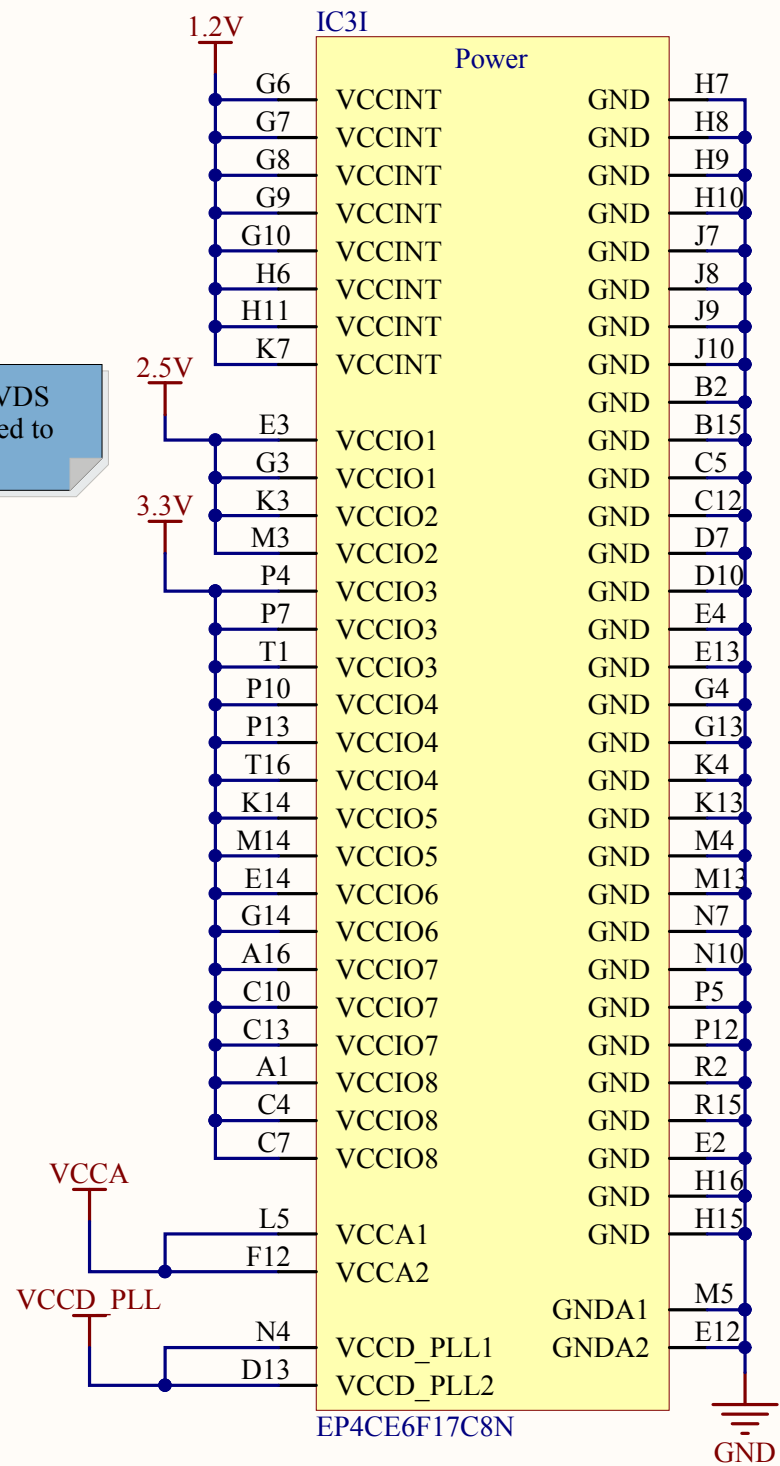
Do NOT mount R45 as standard! This jumper is there in case you want to power the whole board using 2.5V. To do this you need to:

- Change R30 to 22.6k to get 2.5V output of TPS562200
- Disable LP5900SD-2.5 by removing R46
- Mount 0R jumper on R45
- ADC108S022 will not work on 2.5V and has to be removed if mounted
- The standard SDRAM has to be replaced with a 2.5V capable one or be removed
- The FLASH for the config MCU has to be replaced with a 2.5V capable one or be removed
- The micro SD-card will probably not work on 2.5V as it's specified for 2.7-3.6V

Note that by doing this VCCA will be powered by a switching regulator instead of a linear.



Bank 1 and 2 have LVDS signals so VCCIO need to be 2.5V



Title: Power

Size: A3

Number: 2

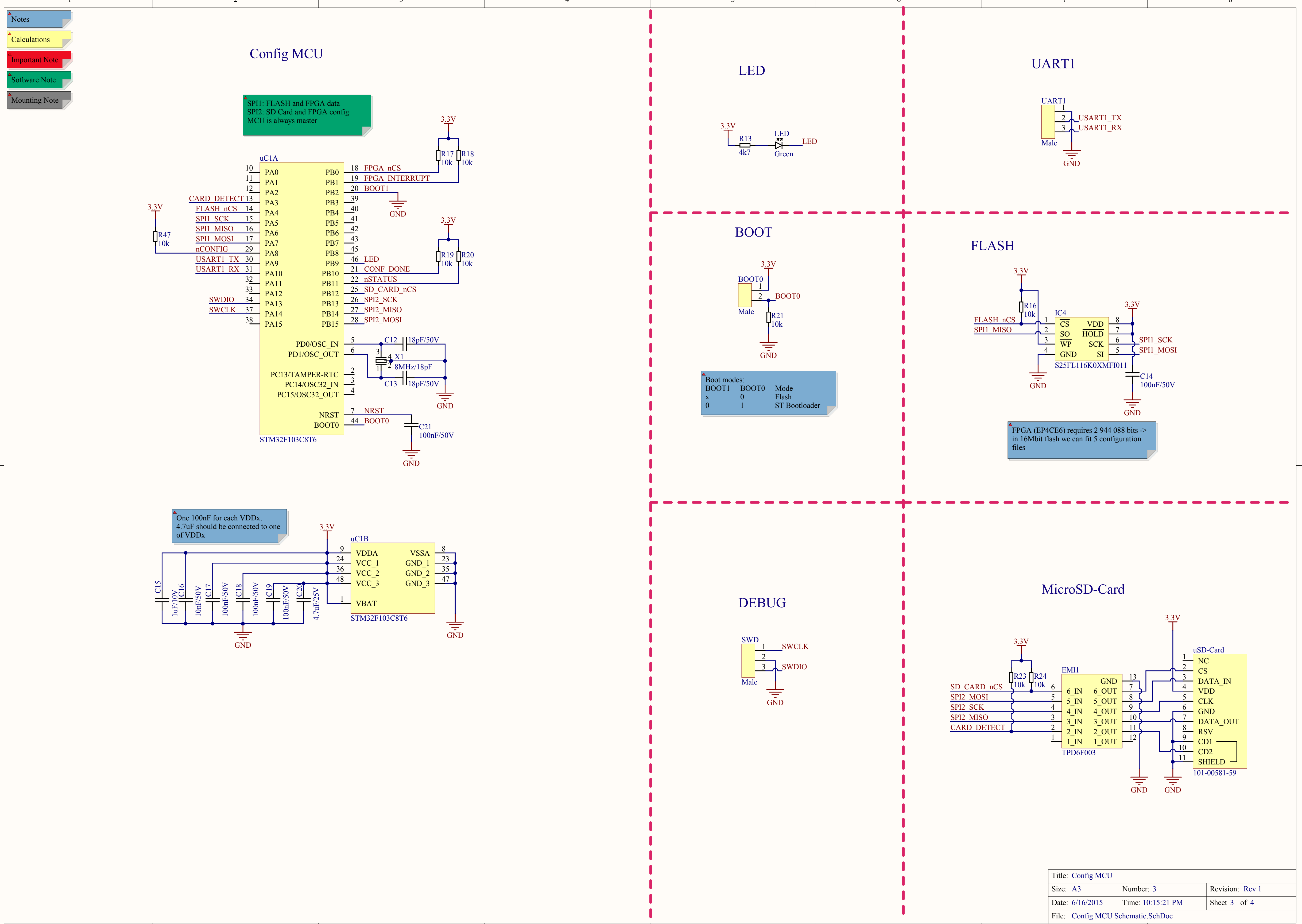
Revision: Rev 1

Date: 6/16/2015

Time: 10:15:20 PM

Sheet 2 of 4

File: Power Schematic.SchDoc



Title: Peripherals		
Size: A3	Number: 4	Revision: Rev 1
Date: 6/16/2015	Time: 10:15:21 PM	Sheet 4 of 4
File: Peripherals Schematic.SchDoc		