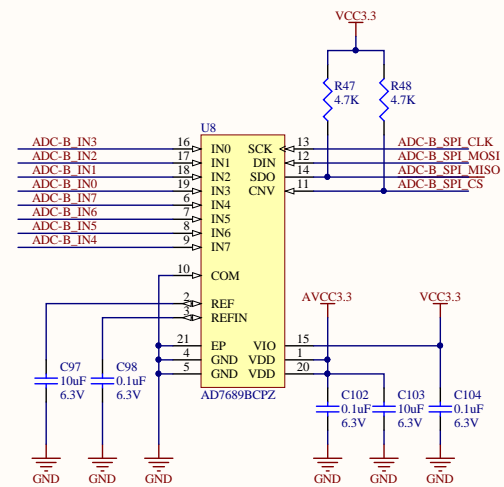
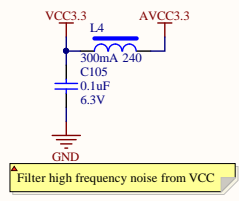
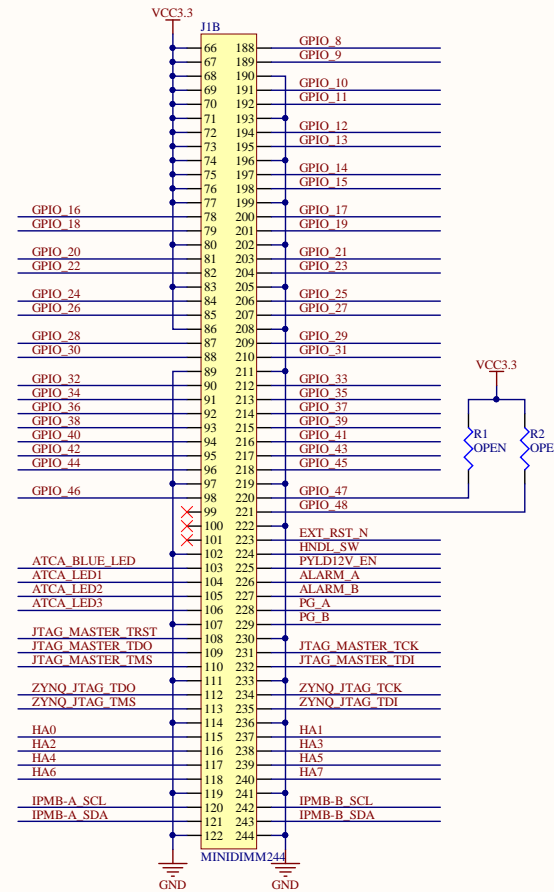
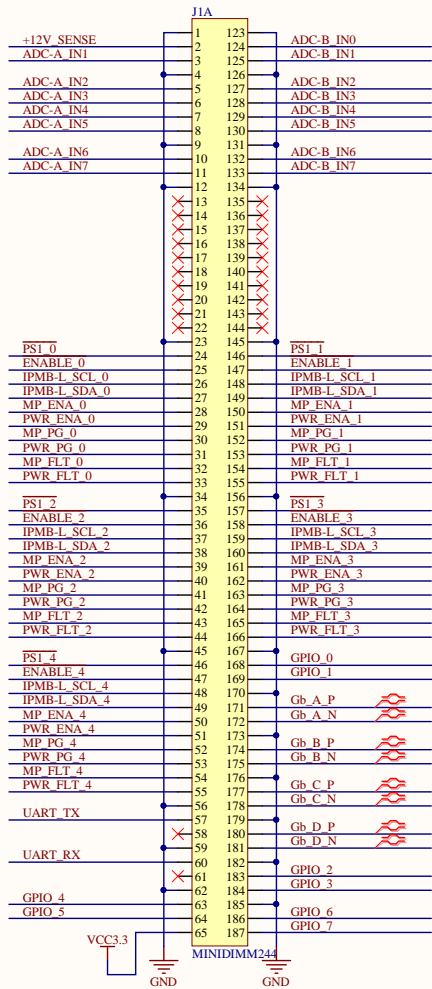


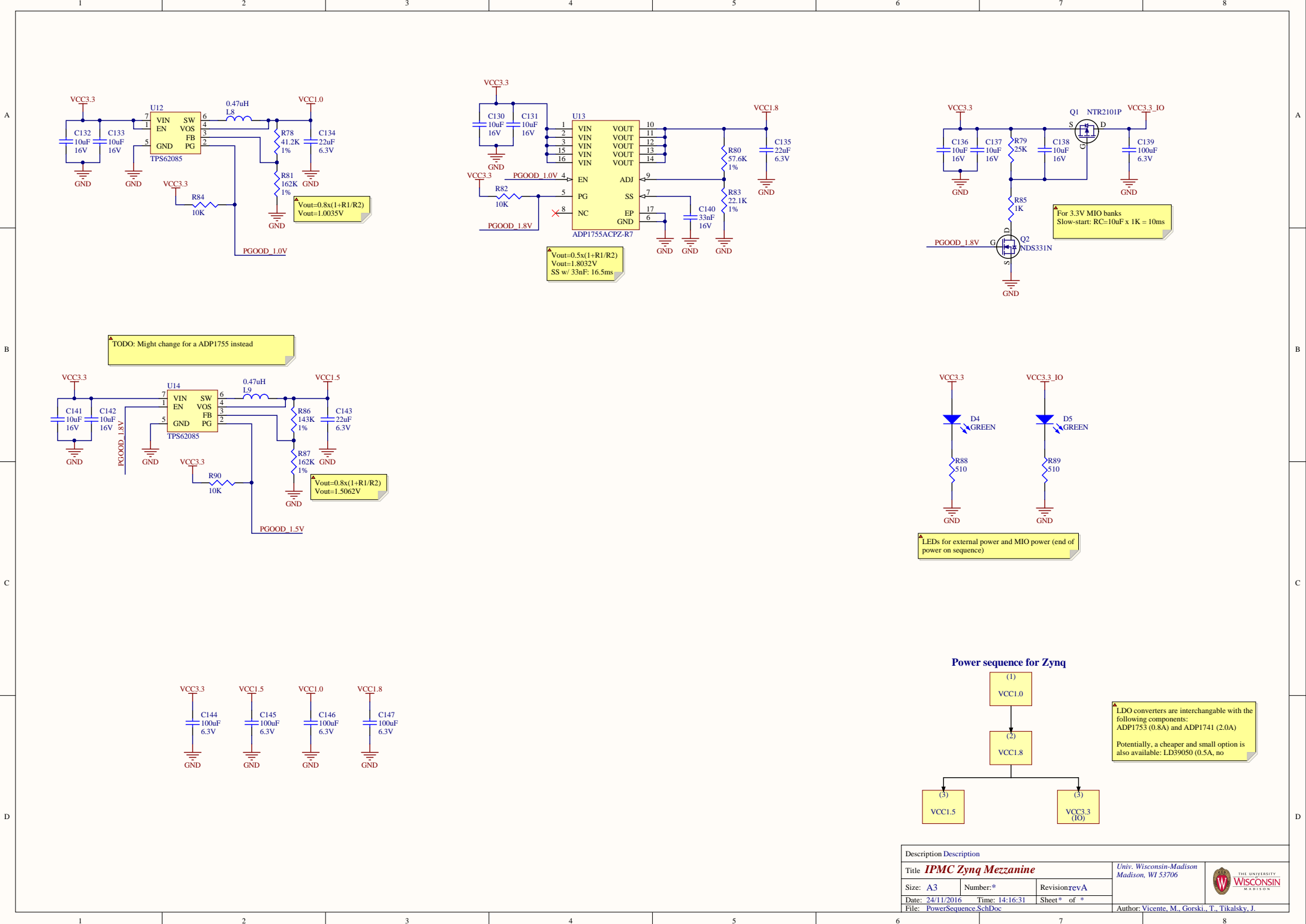
SPI chains are independent because SPI operations during conversion can generate noise. This also allows the Zynq to detect when conversions are done (page 32 of the AD7689 datasheet).





Description		Description	
Title		Univ. Wisconsin-Madison	
Size: A3		Madison, WI 53706	
Number: *		Revision: revA	
Date: 24/11/2016		Time: 14:16:30	
File: BoardConnector.SchDoc		Sheet* of *	
		Author: Vicente, M., Gorski, T., Tikalsky, J.	





TODO: Might change for a ADP1755 instead

$V_{out} = 0.8 \times (1 + R1/R2)$
 $V_{out} = 1.5062V$

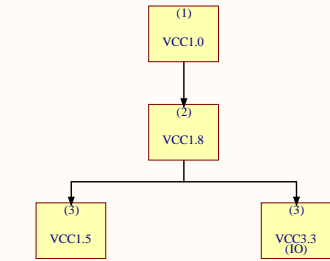
$V_{out} = 0.5 \times (1 + R1/R2)$
 $V_{out} = 1.8032V$
SS w/ 33nF: 16.5ms

For 3.3V MIO banks
Slow-start: $RC = 10\mu F \times 1K = 10ms$

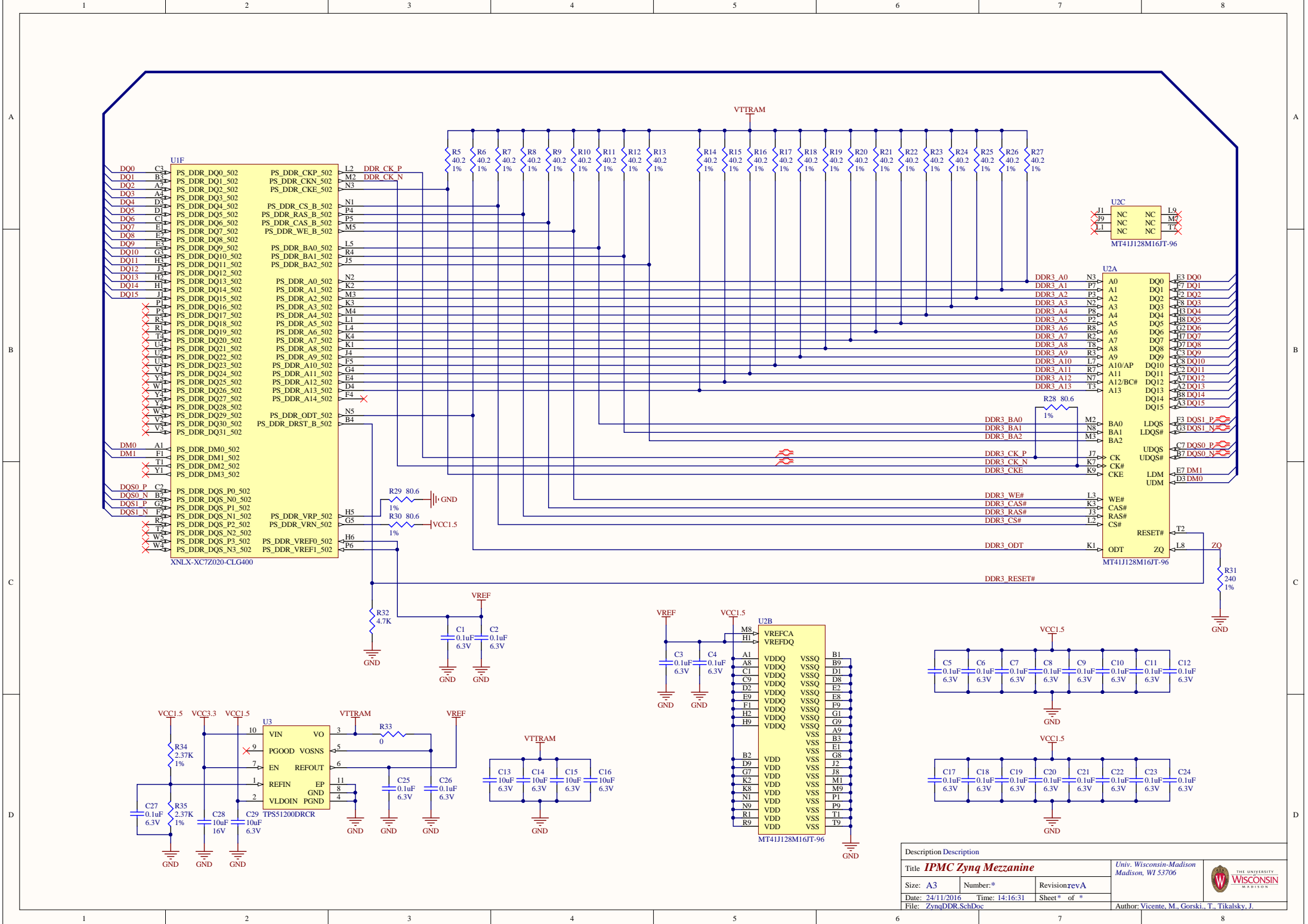
LEDs for external power and MIO power (end of power on sequence)

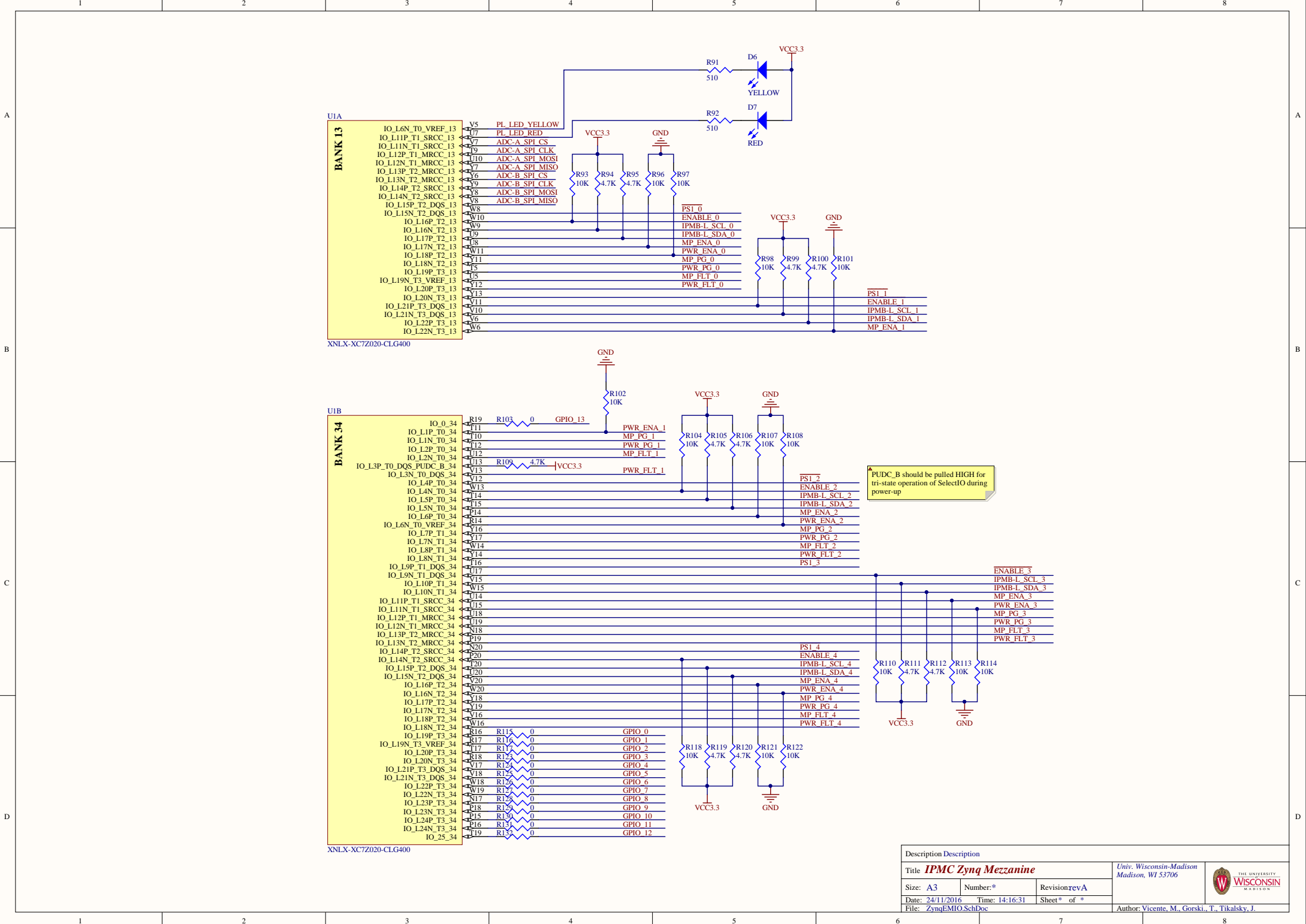
LDO converters are interchangeable with the following components:
ADP1753 (0.8A) and ADP1741 (2.0A)
Potentially, a cheaper and small option is also available: LD39050 (0.5A, no

Power sequence for Zynq



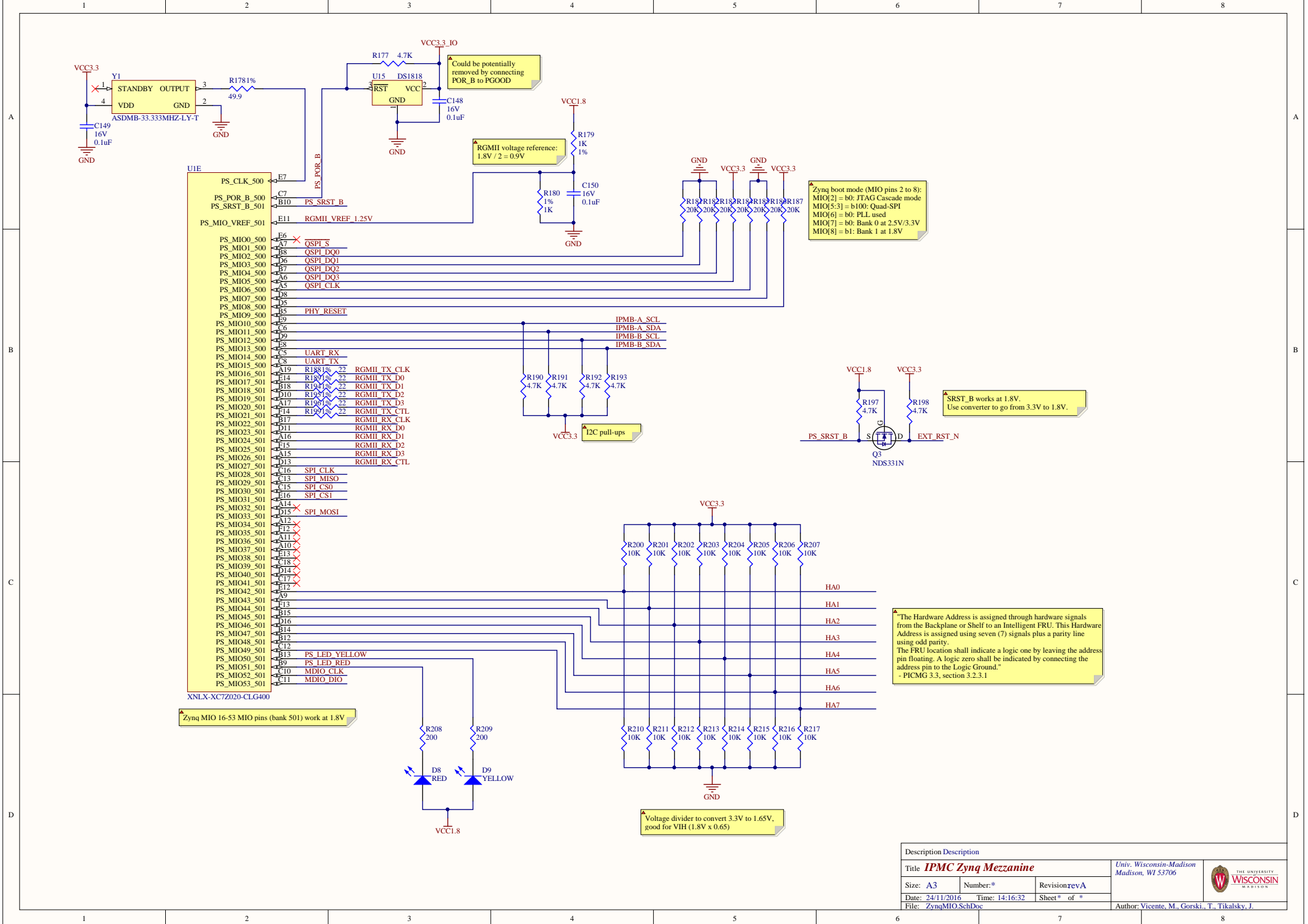
Description			
Title		Univ. Wisconsin-Madison Madison, WI 53706	
Size:	A3	Number:	*
		Revision:	revA
Date:	24/11/2016	Time:	14:16:31
File:	PowerSequence.SchDoc		Sheet * of *
		Author: Vicente, M., Gorski, T., Tikalsky, J.	



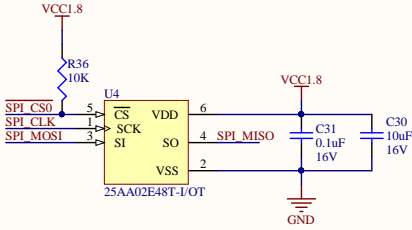


Description		Description	
Title		Univ. Wisconsin-Madison	
Size: A3		Madison, WI 53706	
Number: *		Revision: revA	
Date: 24/11/2016		Time: 14:16:31	
File: ZynqEMIO.SchDoc		Sheet * of *	
		Author: Vicente, M., Gorski, T., Tikalsky, J.	

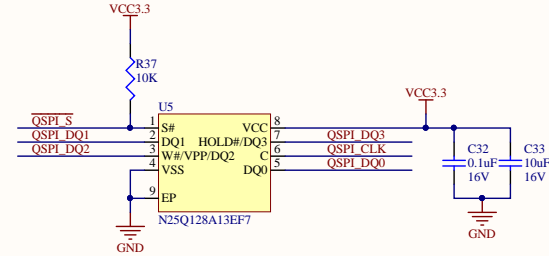
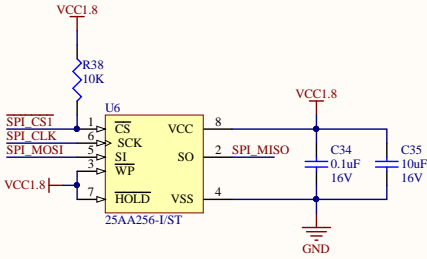




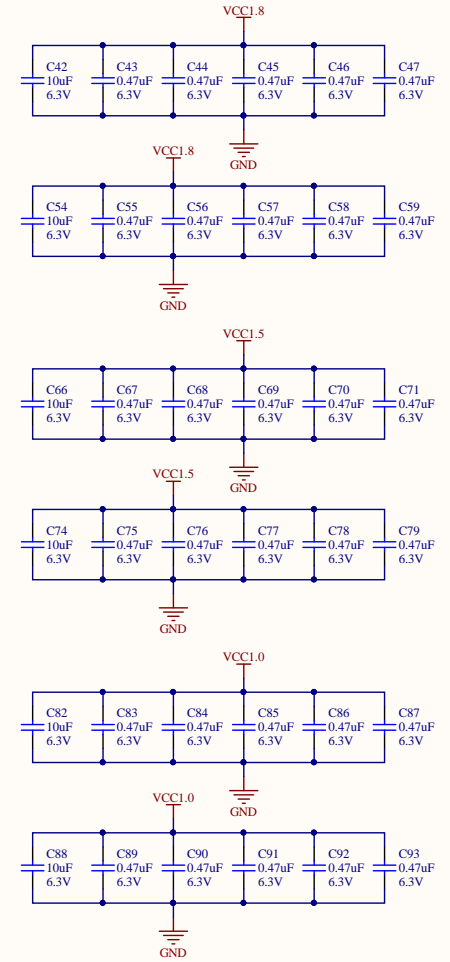
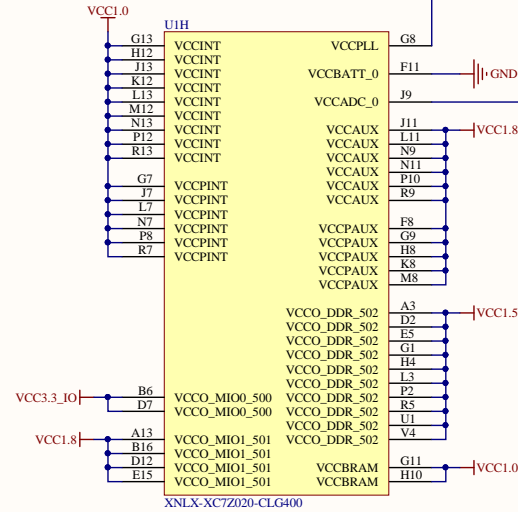
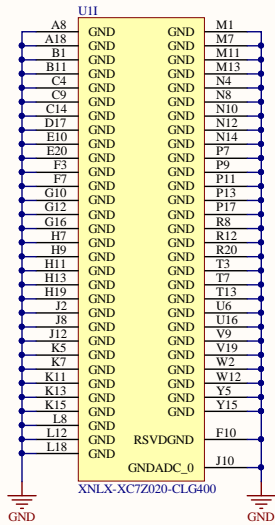
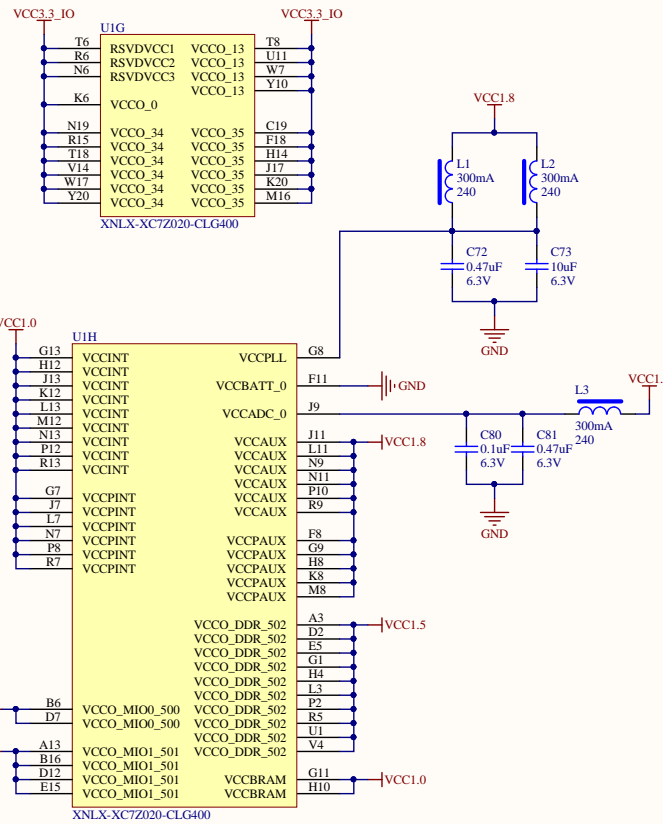
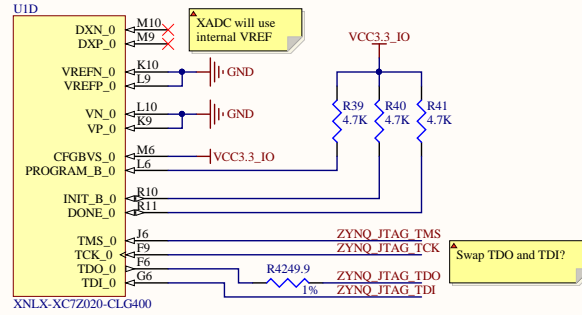
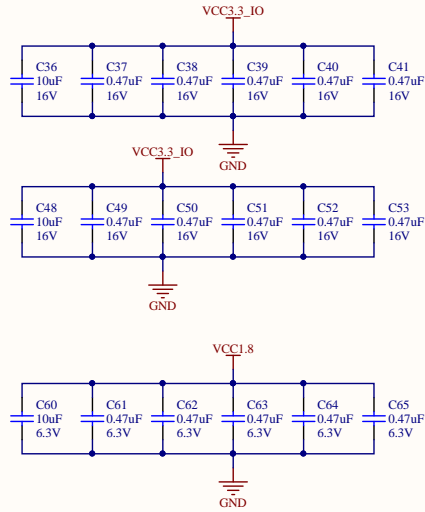
Description		Description	
Title		Univ. Wisconsin-Madison Madison, WI 53706	
Size: A3	Number: *	Revision: revA	
Date: 24/11/2016	Time: 14:16:32	Sheet * of *	
File: ZynqMIO.SchDoc		Author: Vicente, M., Gorski, T., Tikalsky, J.	



CS pins can be swapped if it improves layout



QSPI has 16MBytes
Needs 500nm lines
C should be pulled LOW, but there is already the Zynq strap-pins



Description			
Title		Univ. Wisconsin-Madison	
Size: A3		Revision: revA	
Date: 24/11/2016		Time: 14:16:32	
File: ZynqPower.SchDoc		Author: Vicente, M., Gorski, T., Tikalsky, J.	

[illegible]