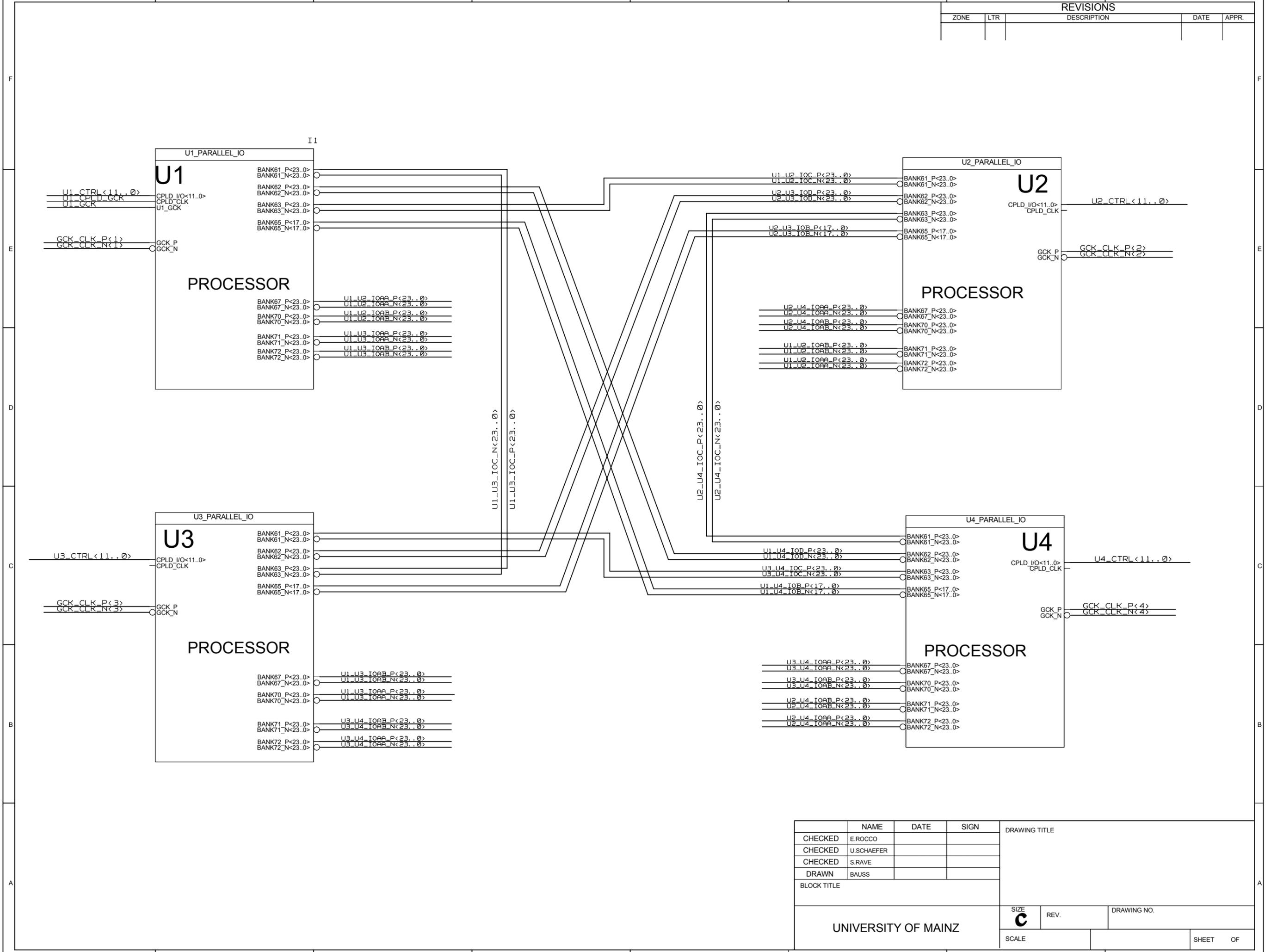
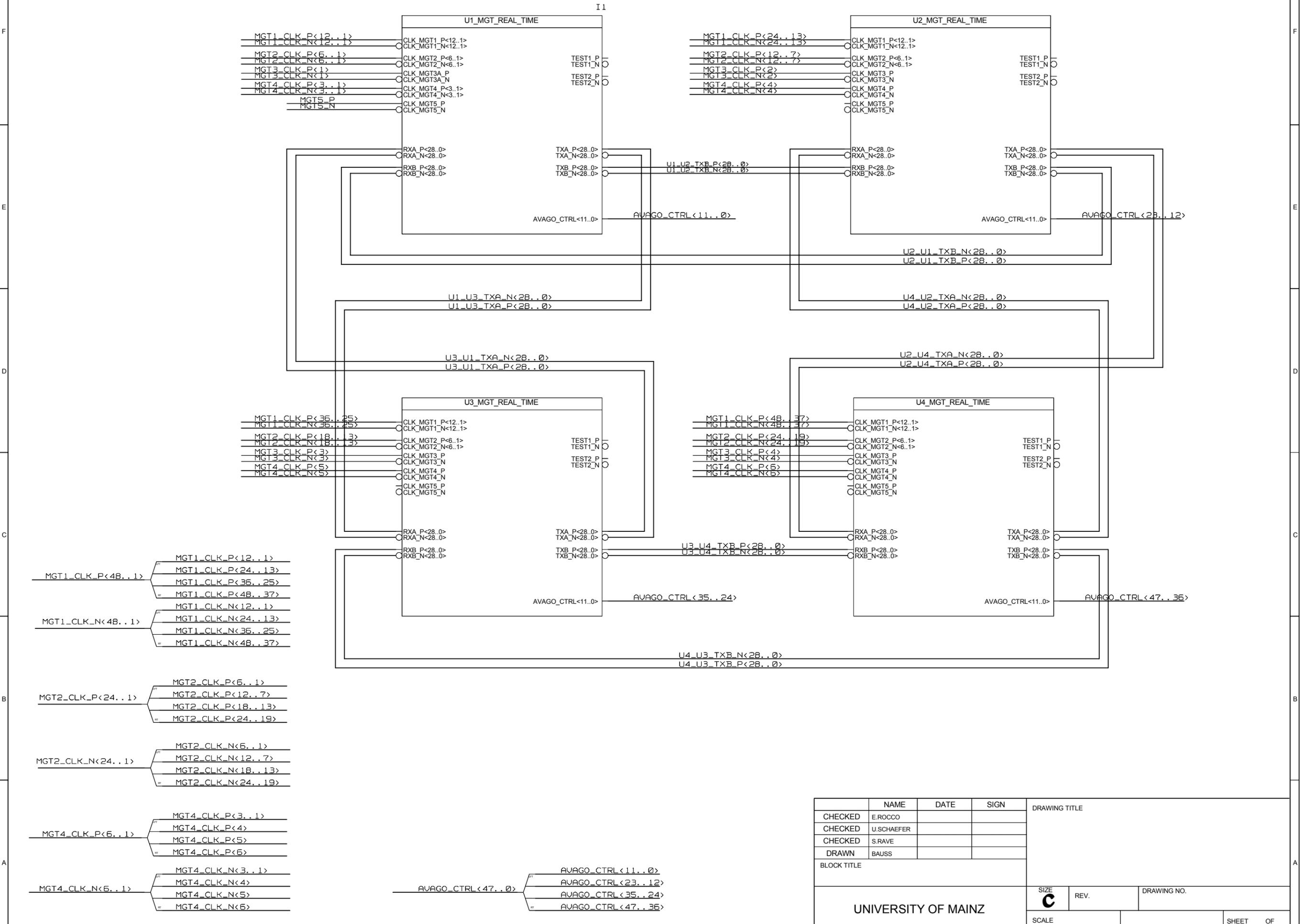


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ZONE	LTR	DESCRIPTION	DATE	APPR.



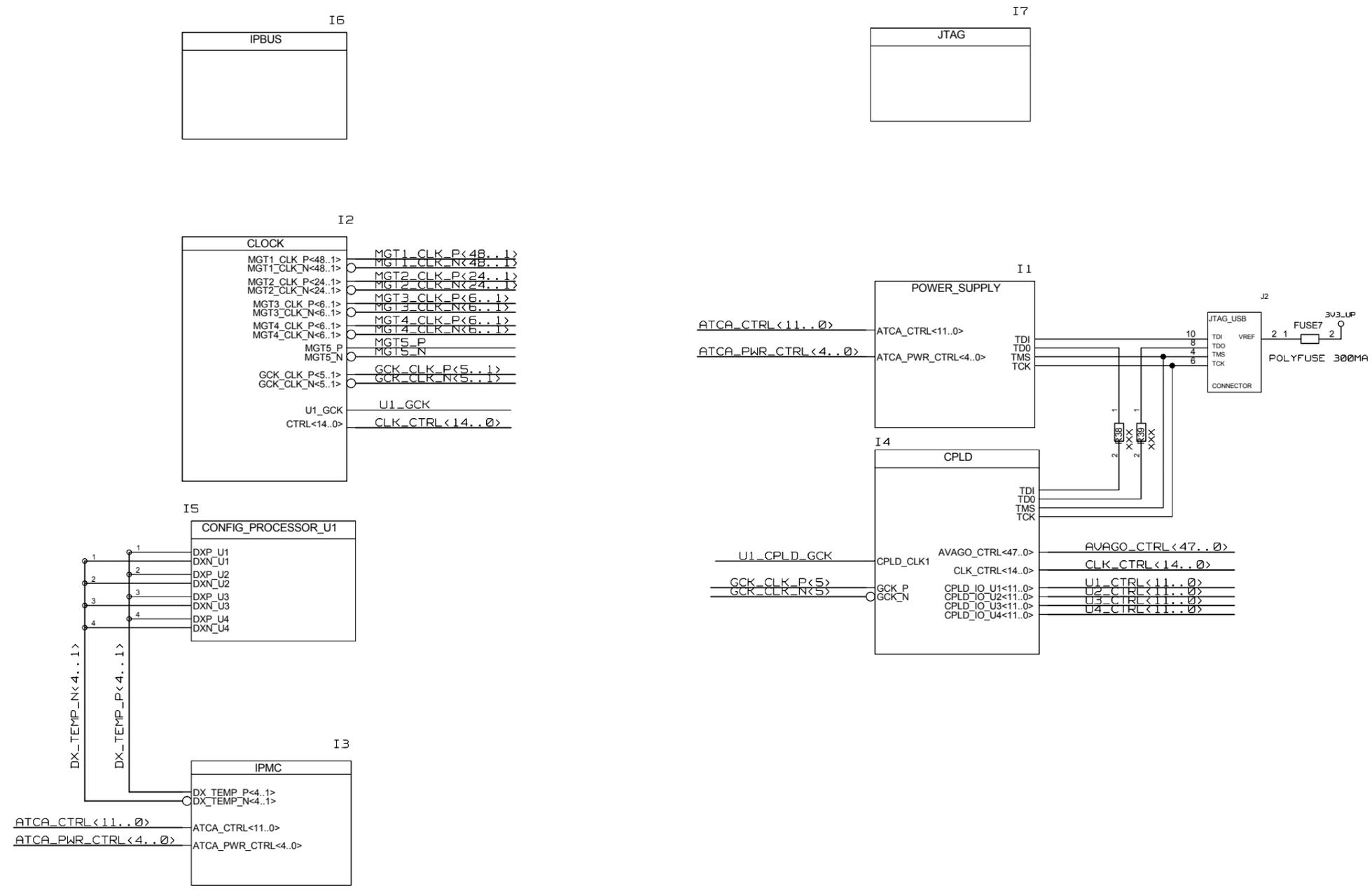
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE				UNIVERSITY OF MAINZ
SIZE	REV.	DRAWING NO.		SHEET OF
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



CHECKED	E.ROCCO			DRAWING TITLE		
CHECKED	U.SCHAEFER					
CHECKED	S.RAVE					
DRAWN	BAUSS					
BLOCK TITLE						
UNIVERSITY OF MAINZ				SIZE C	REV.	DRAWING NO.
				SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

J1

J1

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- Q1
- S1

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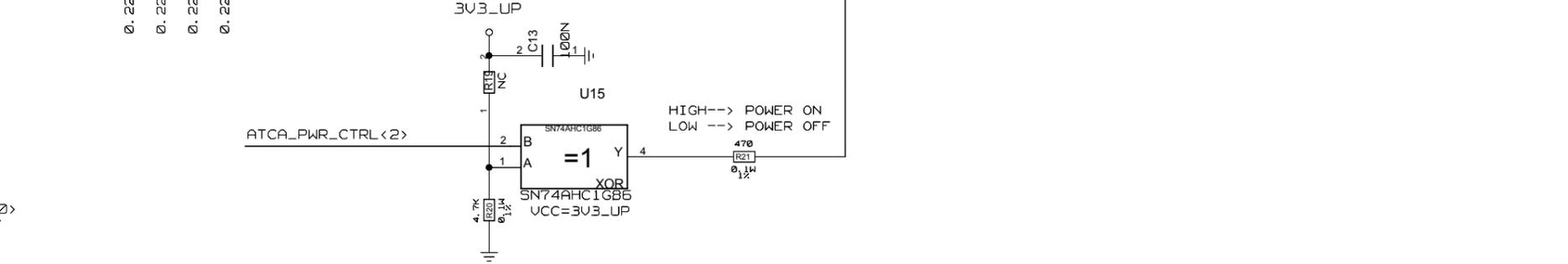
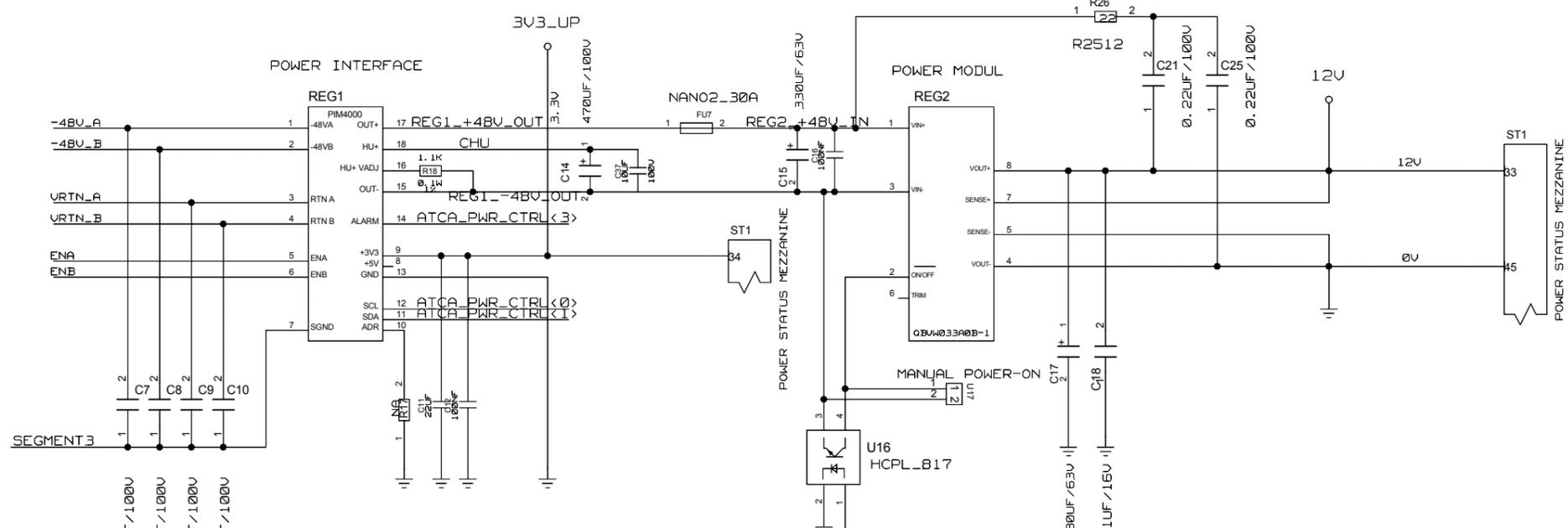
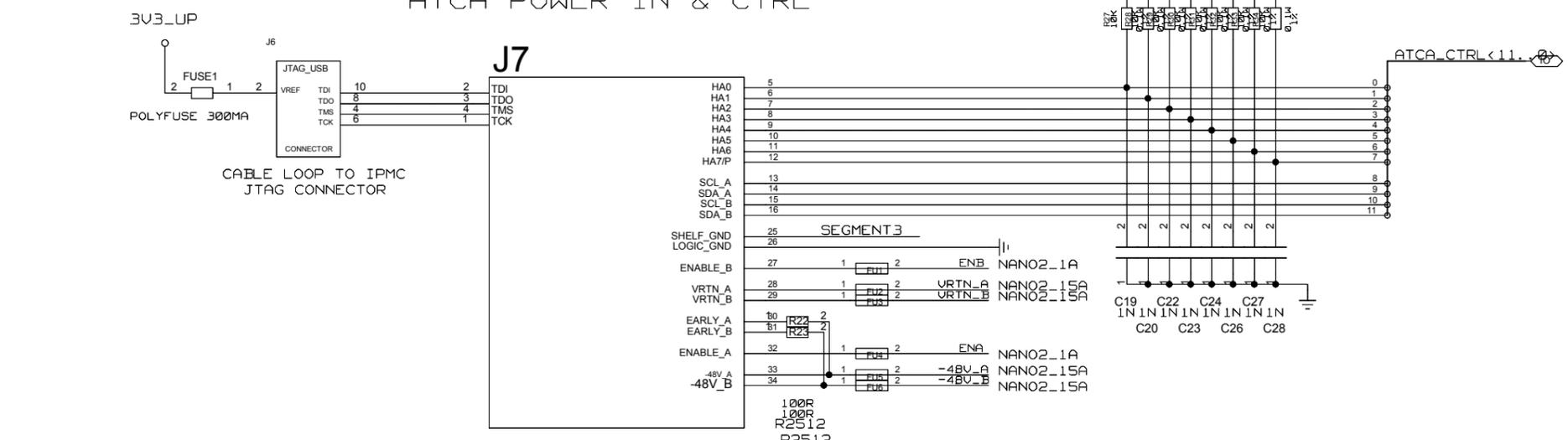
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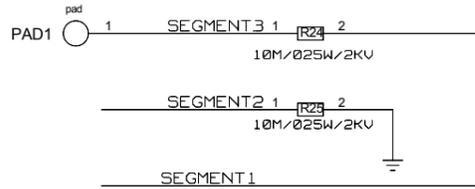
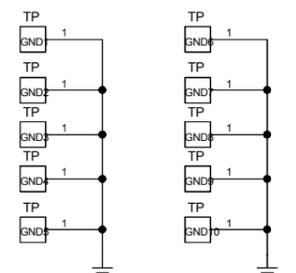
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CHECKED	U.SCHAEFER					
CHECKED	S.RAVE					
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BLOCK TITLE						
UNIVERSITY OF MAINZ				SIZE	REV.	DRAWING NO.
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				SHEET	OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

ATCA POWER IN & CTRL

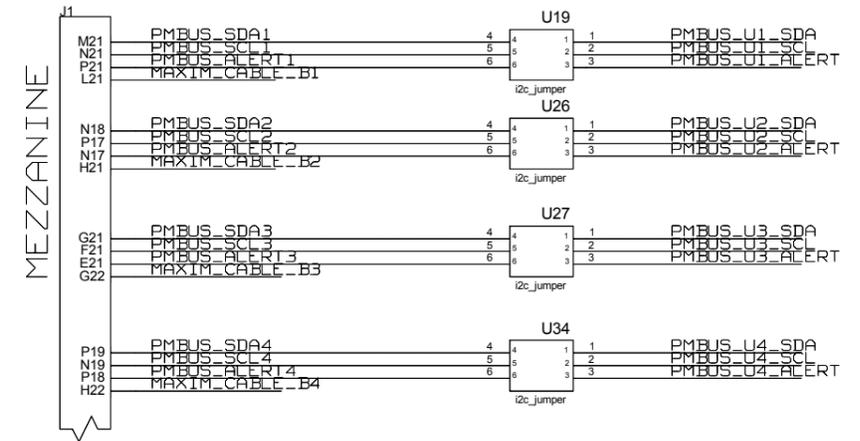
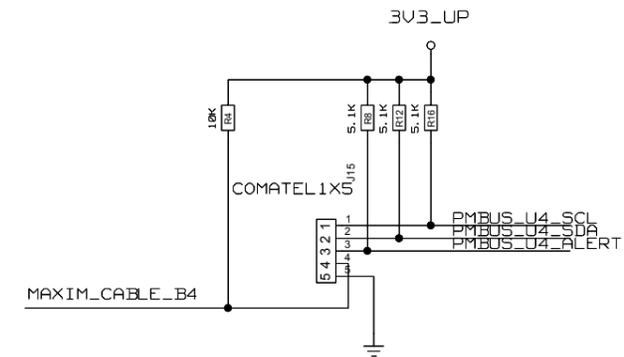
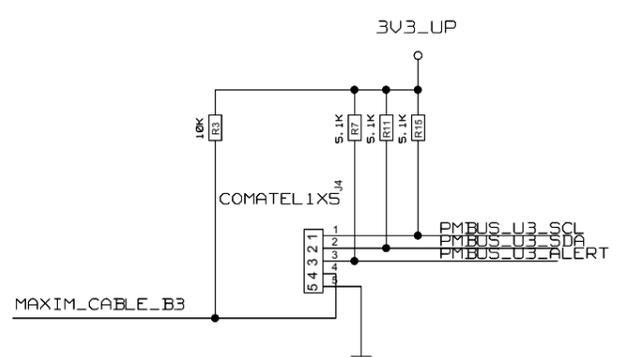
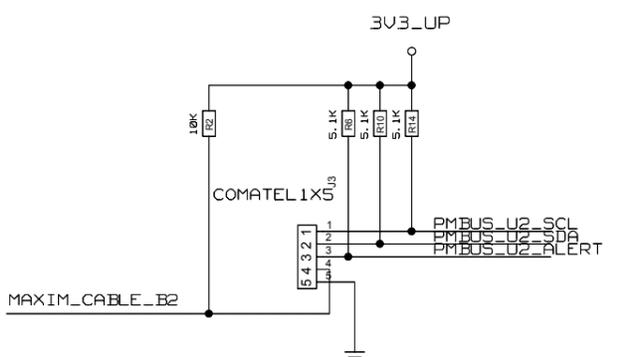
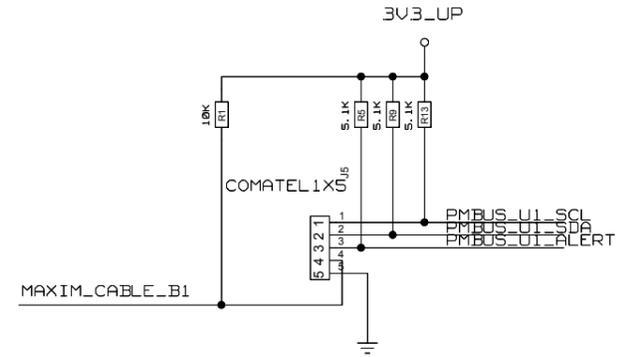


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	U.SCHAEFER			
	S.RAVE			
	DRAWN	BAUSS	03.11.2015	BLOCK TITLE POWERSUPPLY
UNIVERSITY OF MAINZ				
	SIZE	REV.	DRAWING NO.	SHEET OF
	C			
	SCALE			

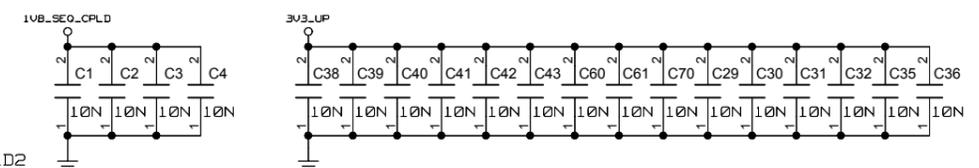
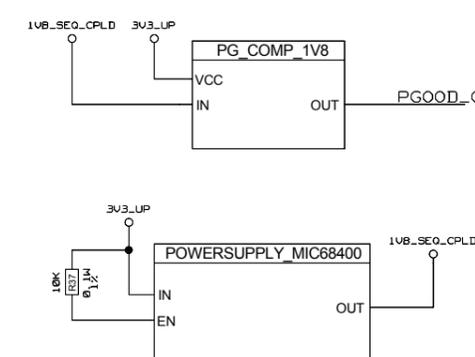
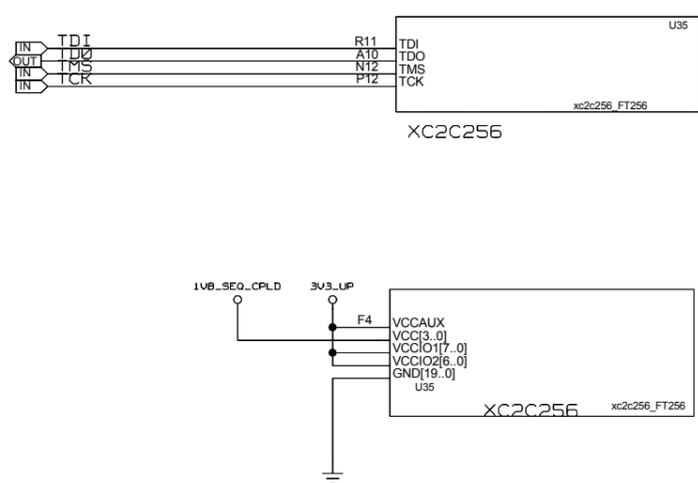
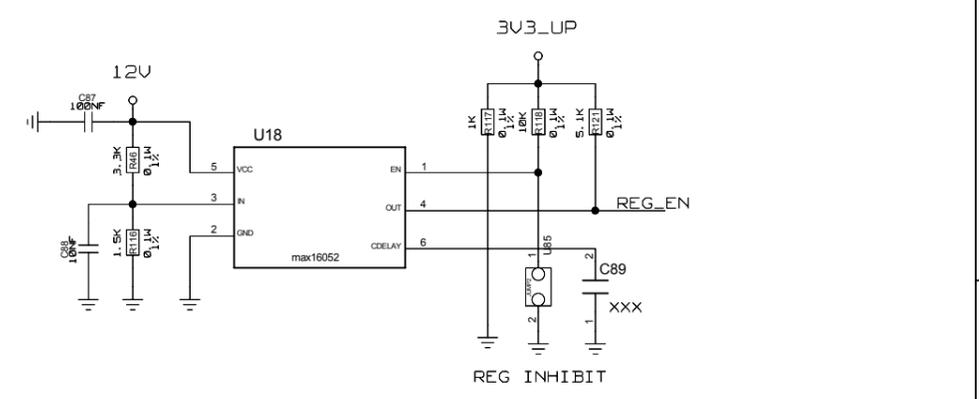
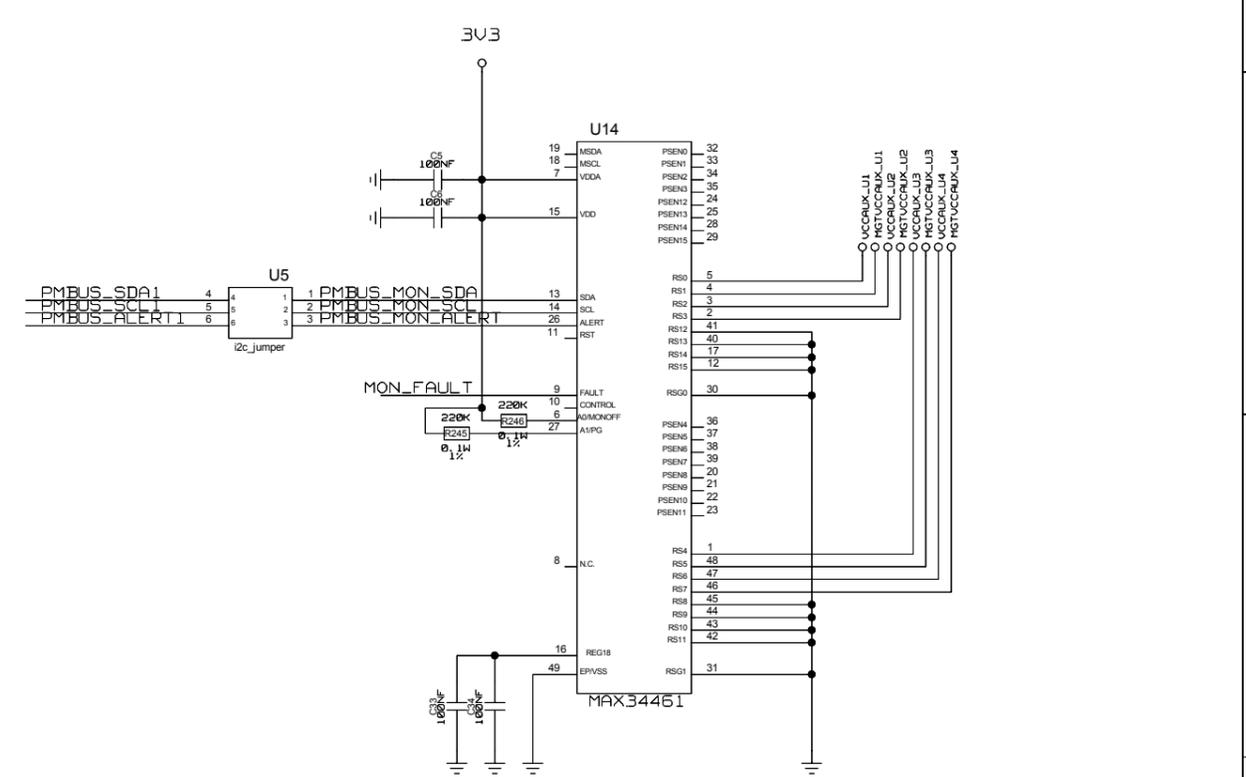
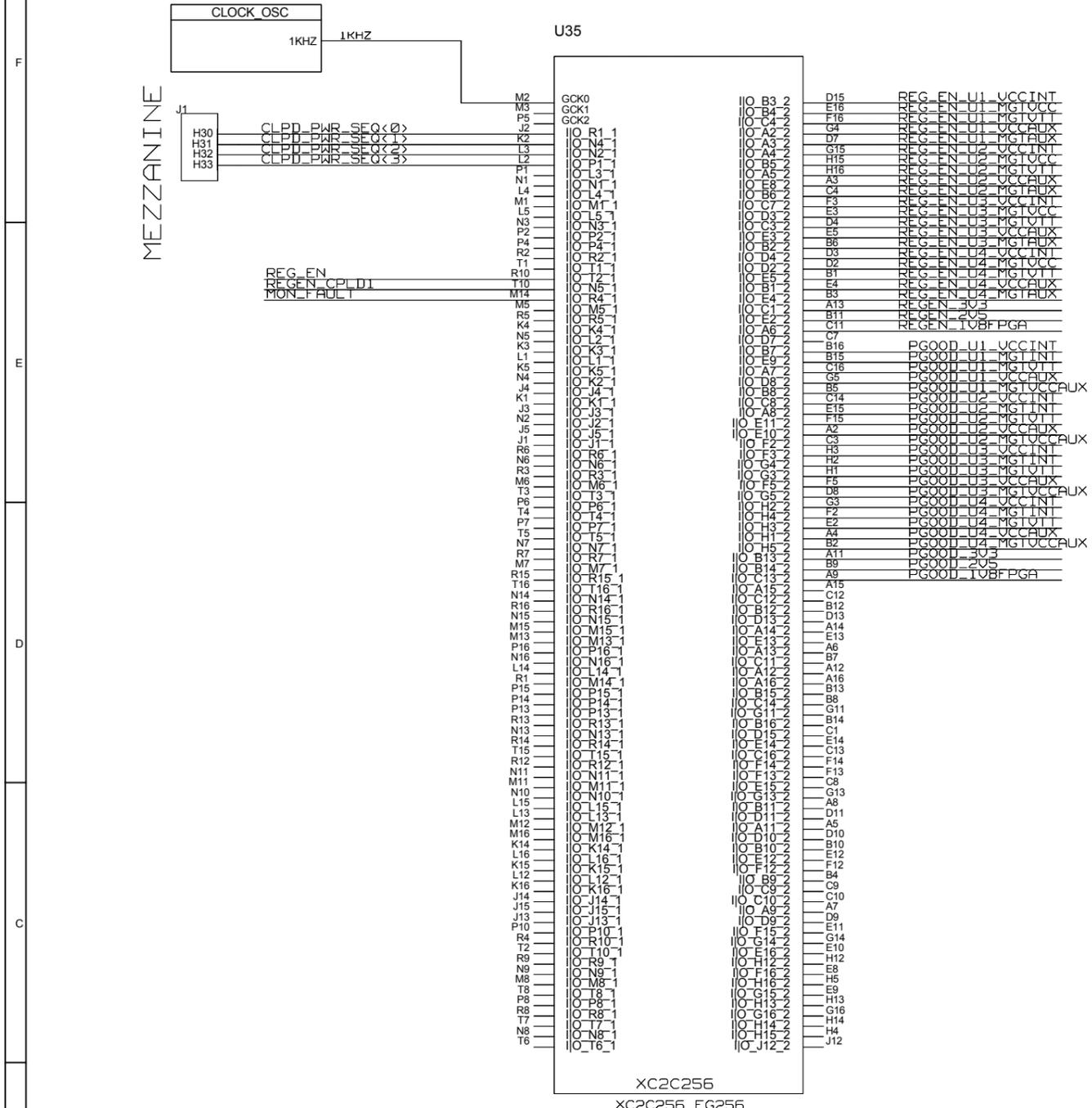
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ZONE	LTR	DESCRIPTION	DATE	APPR.



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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
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				REV.
				DRAWING NO.
				SCALE
				SHEET OF

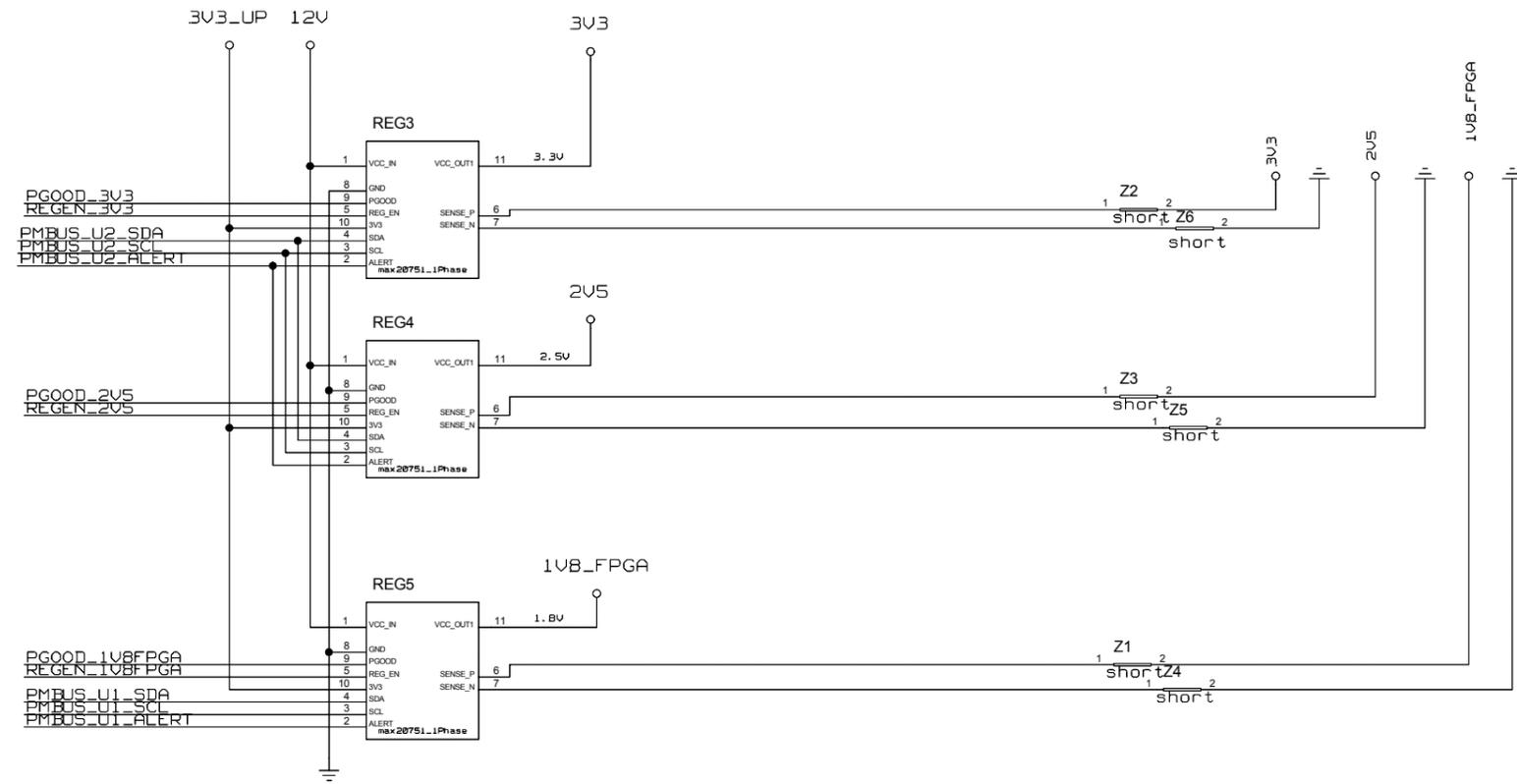
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ZONE	LTR	DESCRIPTION	DATE	APPR.



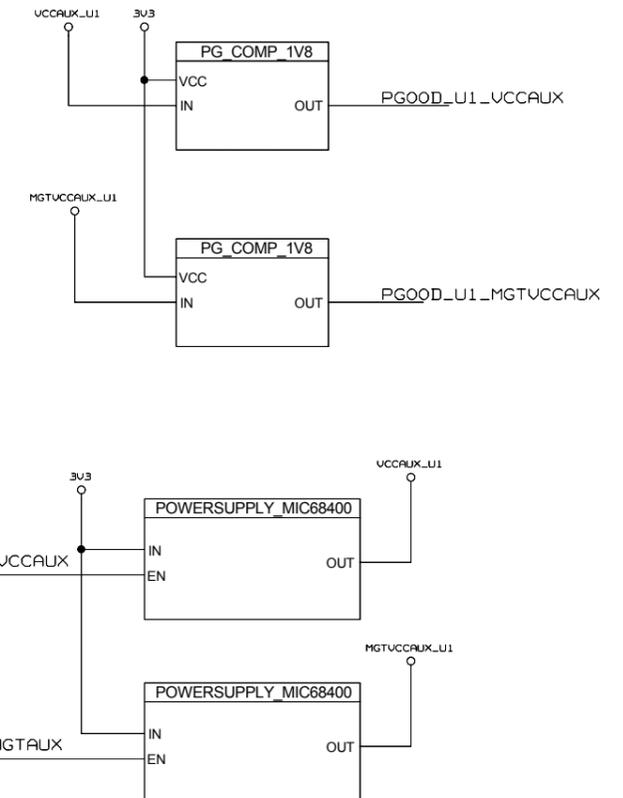
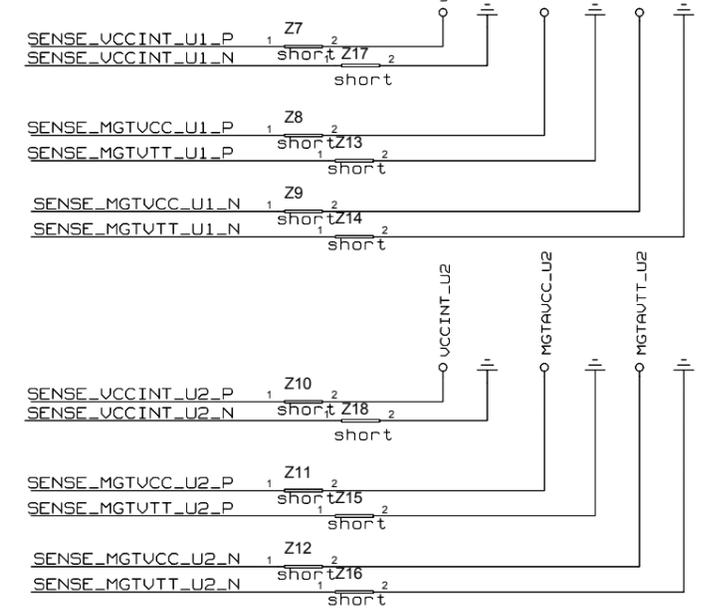
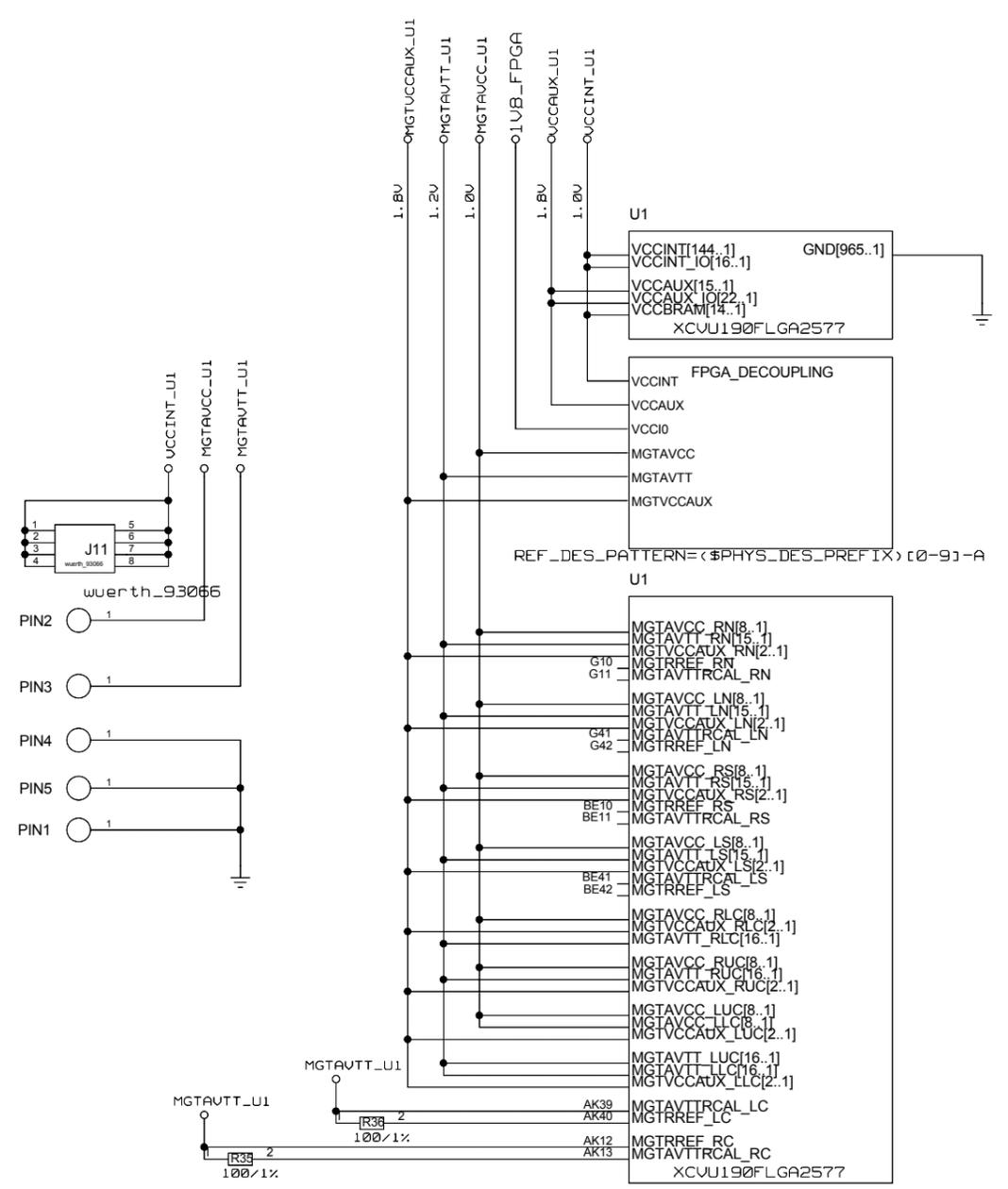
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CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE			POWER SUPPLY	
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ZONE	LTR	DESCRIPTION	DATE	APPR.

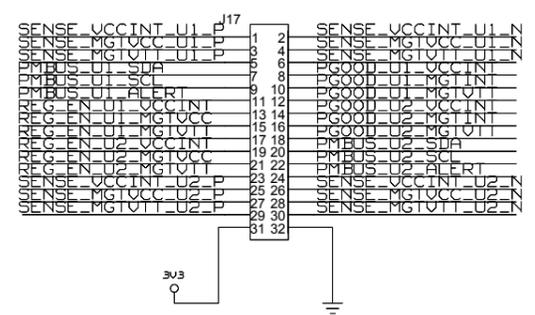
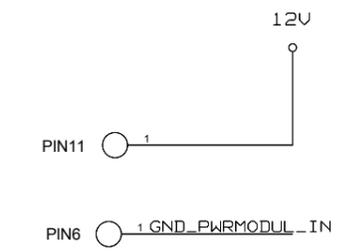


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CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE POWERSUPPLY				SIZE C
UNIVERSITY OF MAINZ				REV.
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SCALE			SHEET	OF

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ZONE	LTR	DESCRIPTION	DATE	APPR.

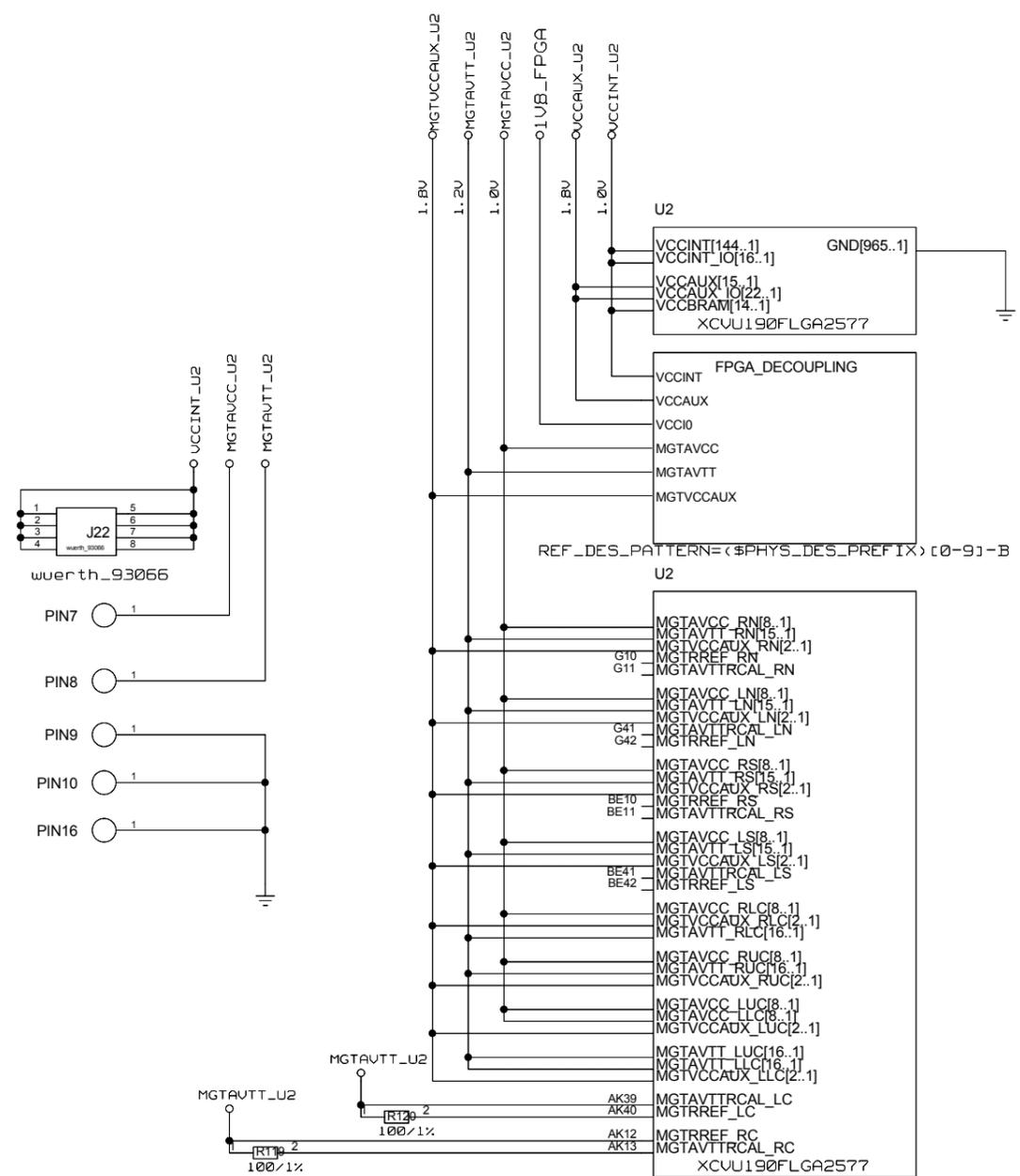


TRACE LENGTH FROM RESISTOR PINS
TO PIN SAME LENGTH
UG576 SHEET 297

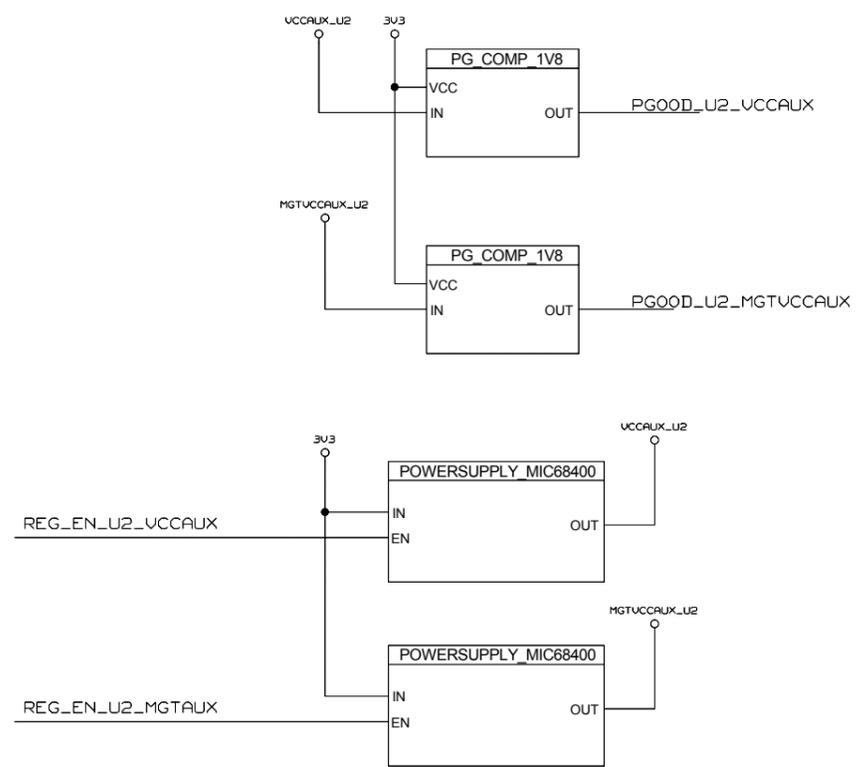


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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
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SCALE				SHEET OF

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ZONE	LTR	DESCRIPTION	DATE	APPR.

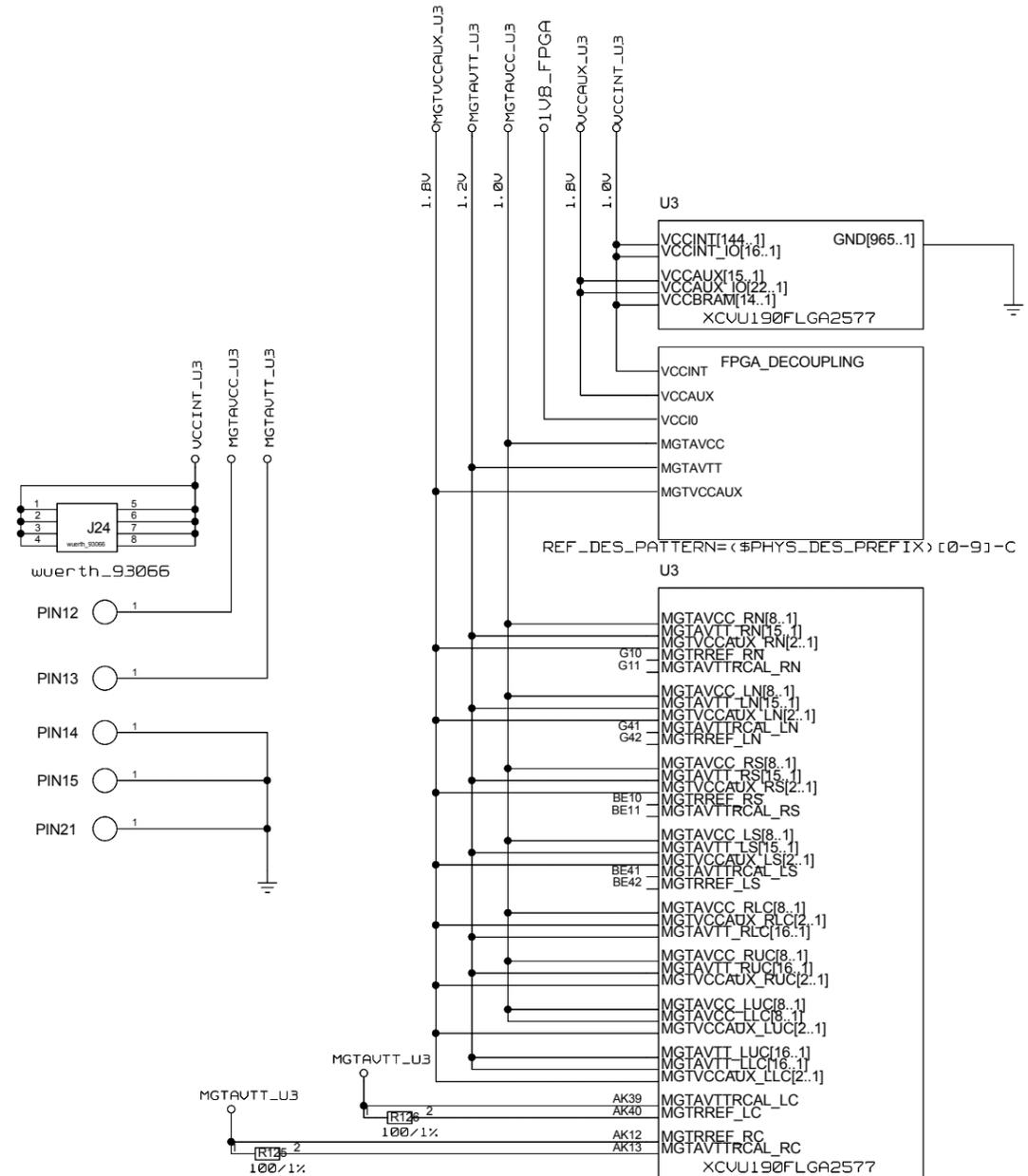


TRACE LENGTH FROM RESISTOR PINS
TO PIN SAME LENGTH
UG576 SHEET 297

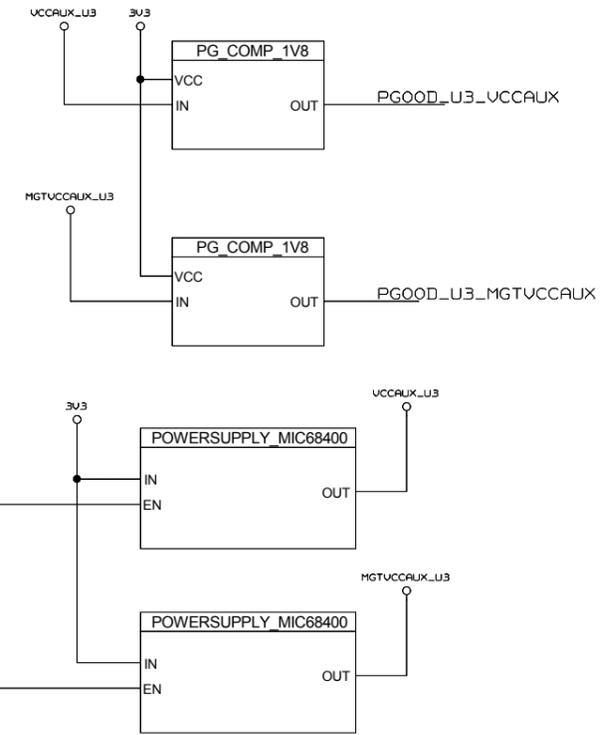
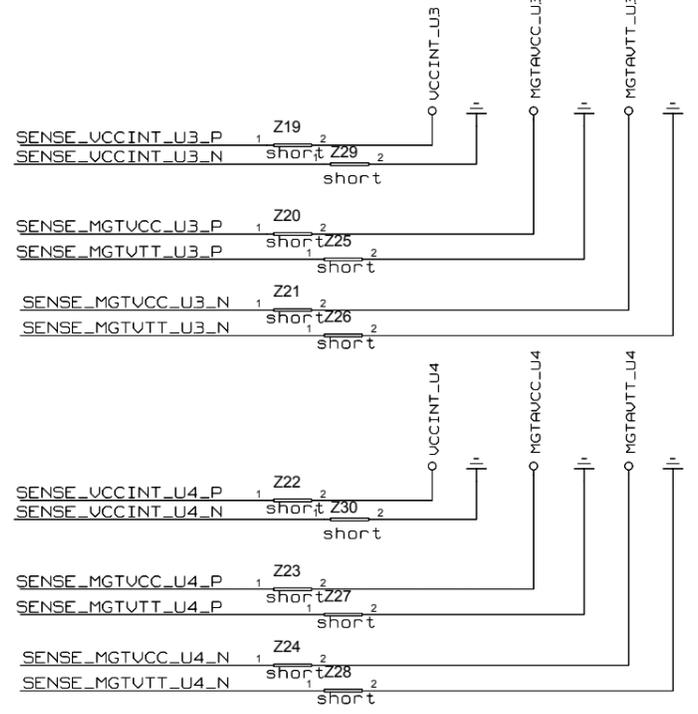


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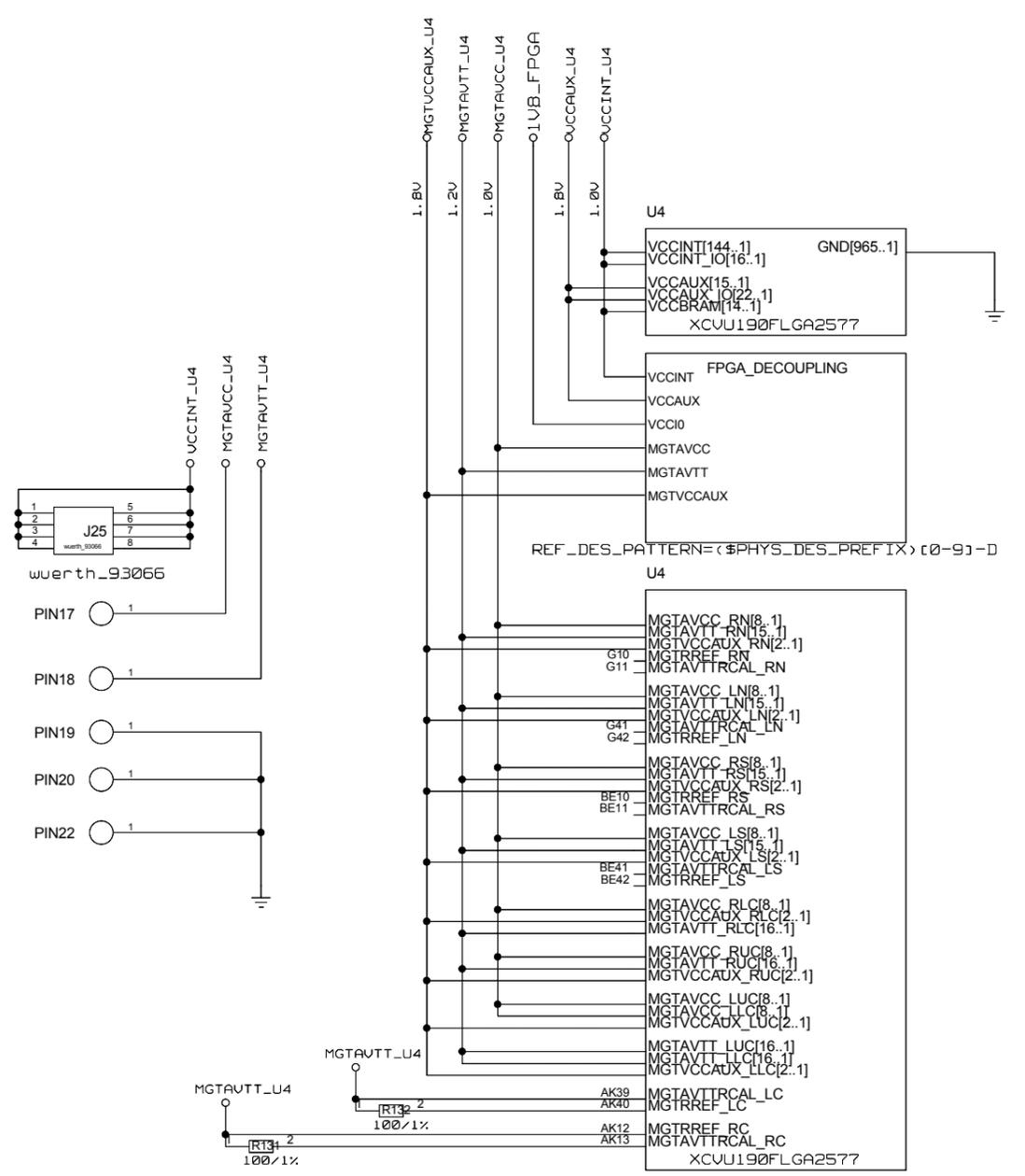
TRACE LENGTH FROM RESISTOR PINS
TO PIN SAME LENGTH
UG576 SHEET 297



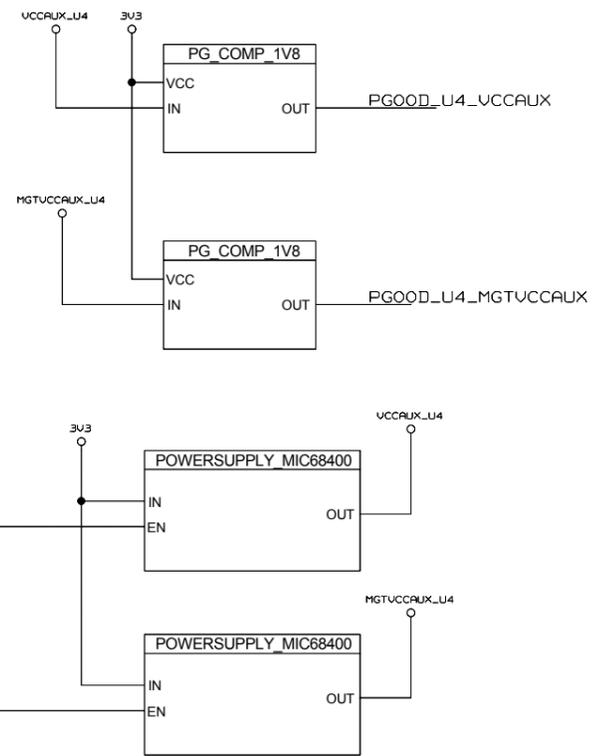
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SENSE_MGTUVT_U3_P	1	2	SENSE_MGTUVT_U3_N	1	2
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REG_EN_U3_ALERT	7	8	REG_EN_U3_VCCINT	9	10
REG_EN_U3_MGTUCC	11	12	REG_EN_U3_MGTUVT	13	14
REG_EN_U3_VCCINT	15	16	REG_EN_U4_VCCINT	17	18
REG_EN_U4_MGTUCC	19	20	REG_EN_U4_MGTUVT	21	22
REG_EN_U4_MGTUVT	23	24	PMBUS_U4_SDA	25	26
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SENSE_MGTUCC_U4_P	31	32	SENSE_MGTUCC_U4_N	33	34
SENSE_MGTUVT_U4_P	35	36	SENSE_MGTUVT_U4_N	37	38

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CHECKED	U.SCHAEFER					
CHECKED	S.RAVE					
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UNIVERSITY OF MAINZ				SCALE		SHEET OF

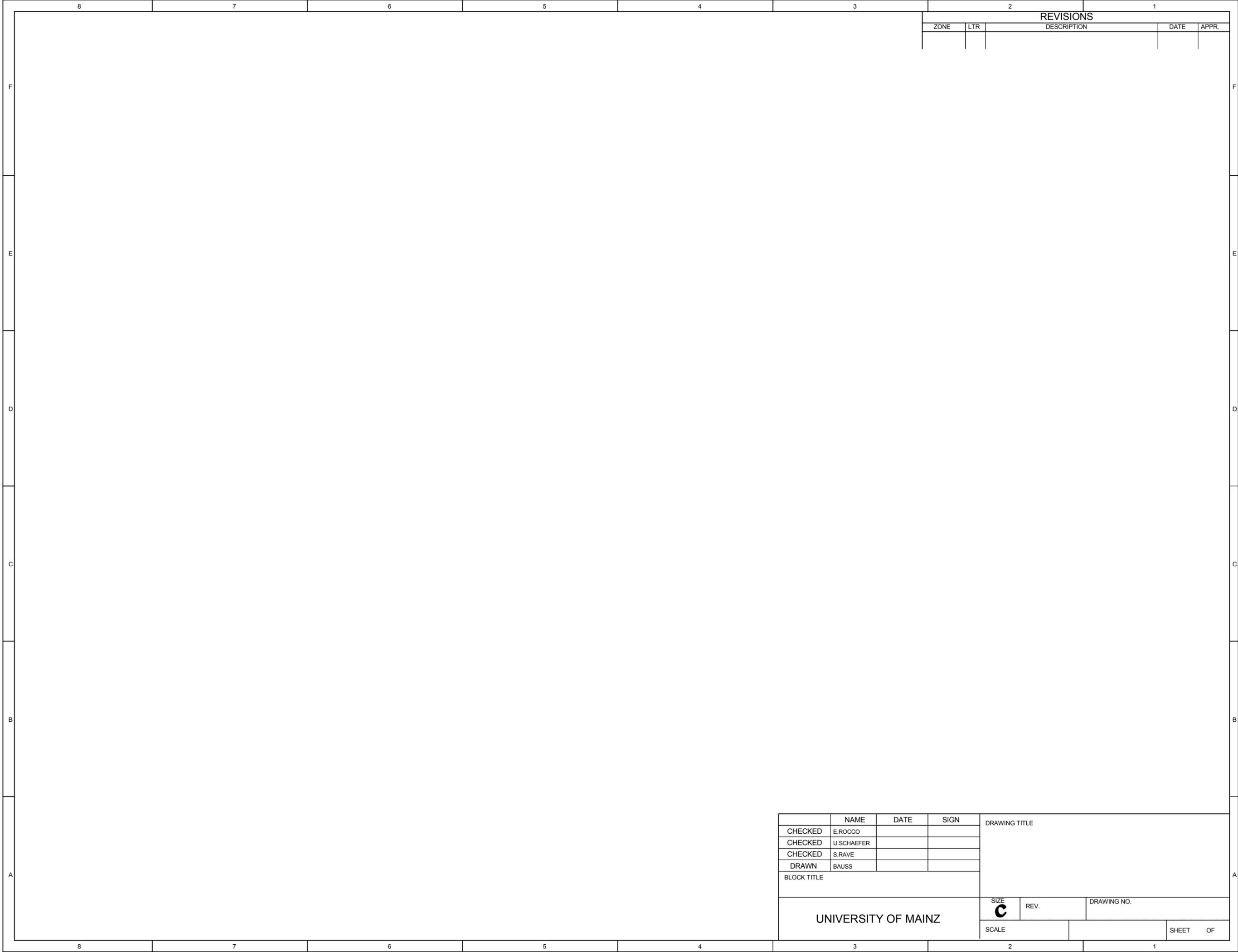
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TRACE LENGTH FROM RESISTOR PINS
TO PIN SAME LENGTH
UG576 SHEET 297



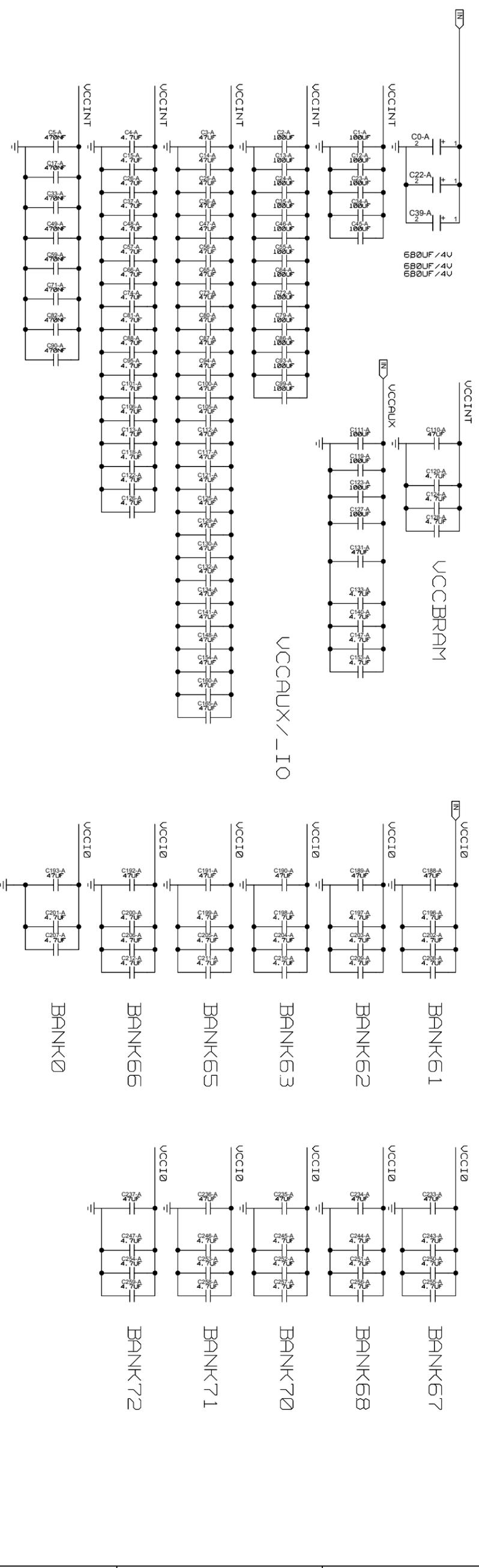
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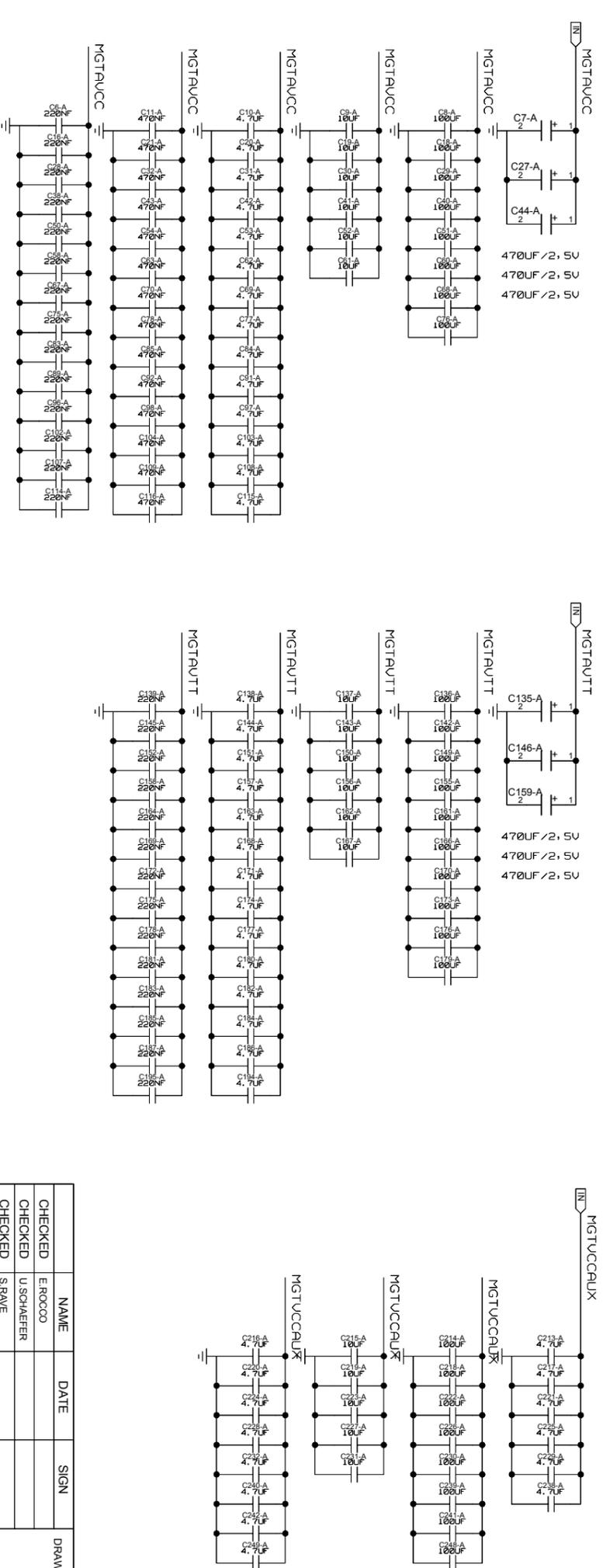
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ZONE	LTR	DESCRIPTION	DATE	APPR.

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CHECKED	S.RAVE				
DRAWN	BAUSS				
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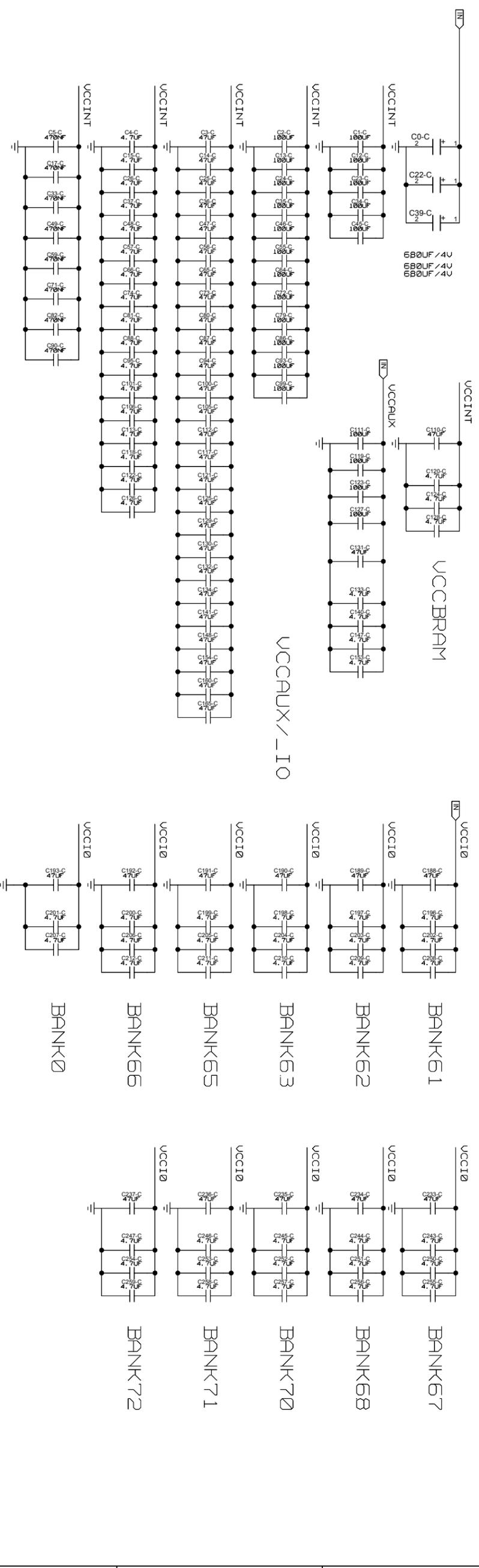
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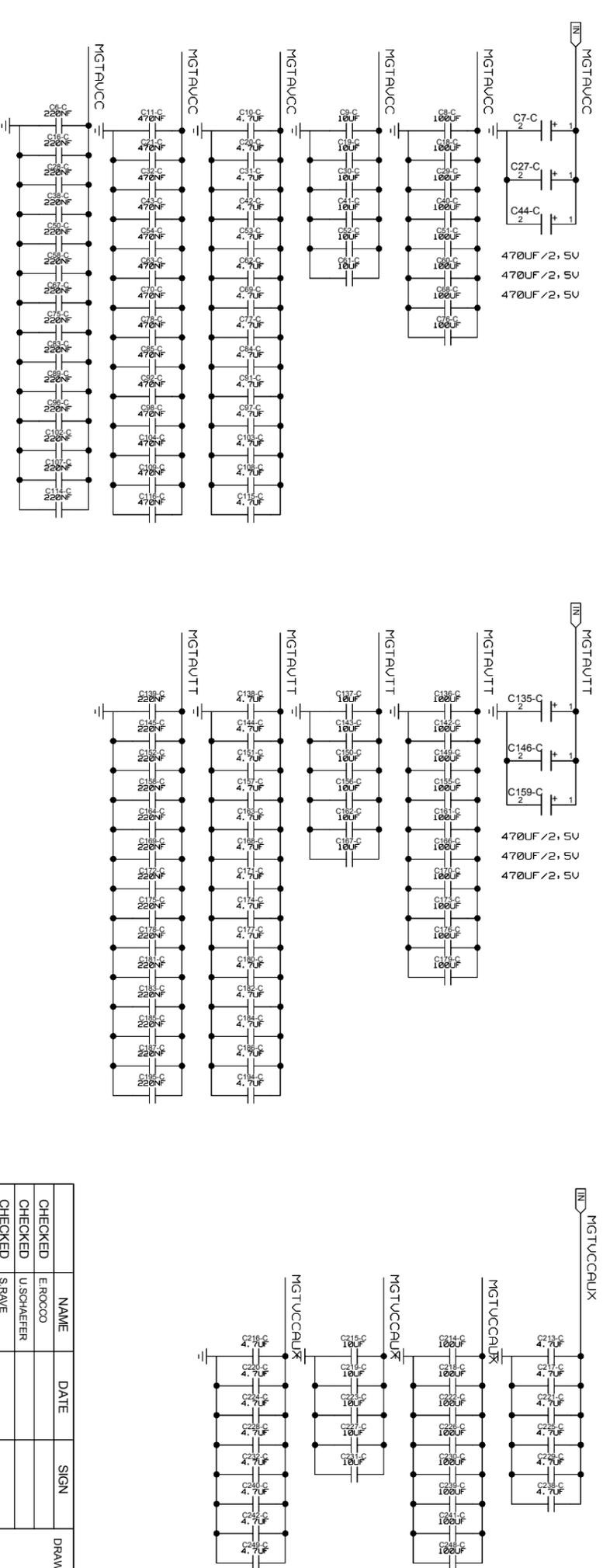
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SIZE	REV.	DRAWING NO.
C		
SCALE		
SHEET	OF	

REVISIONS		DATE	APPR.
ZONE	LTR	DESCRIPTION	



MGT DECOUPLING



NAME	DATE	SIGN	DRAWING TITLE
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UNIVERSITY OF MAINZ

SIZE: C

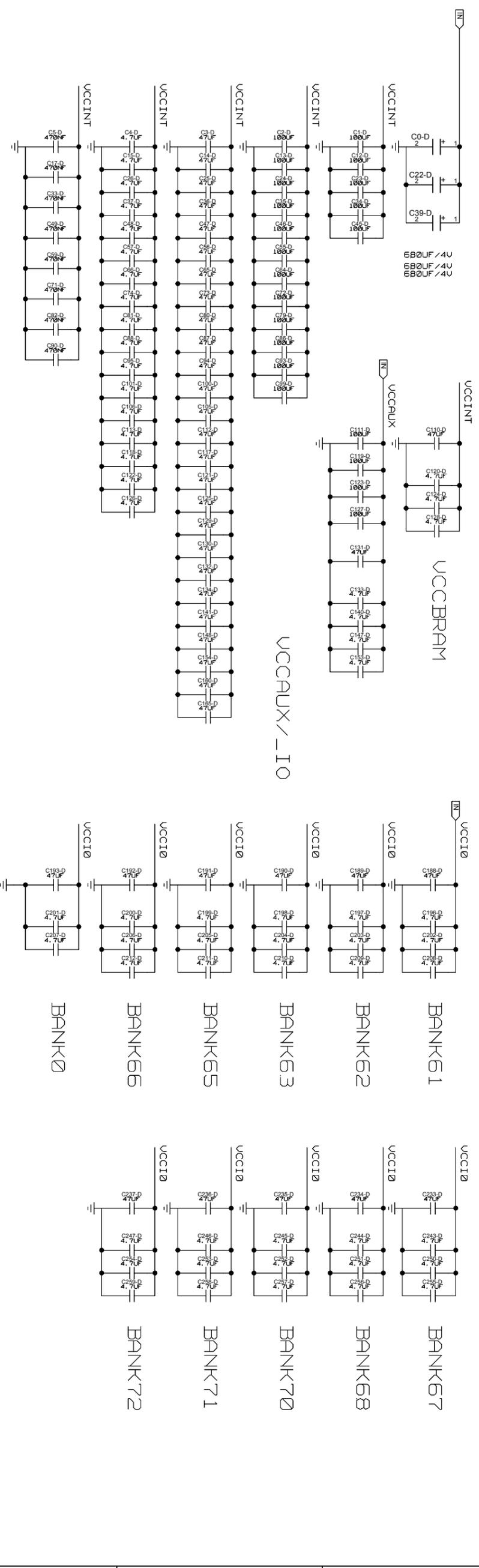
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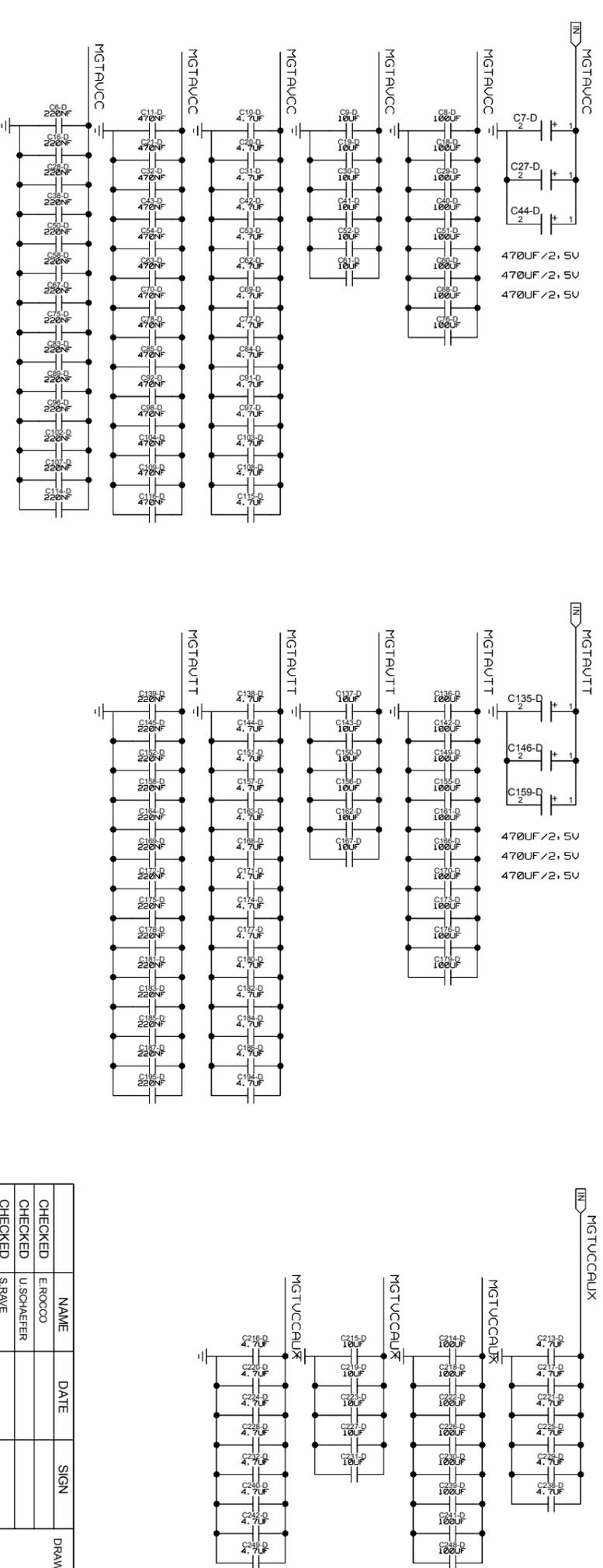
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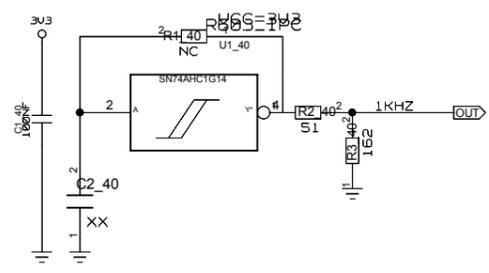


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SIZE	REV.	DRAWING NO.
SCALE		

REVISIONS

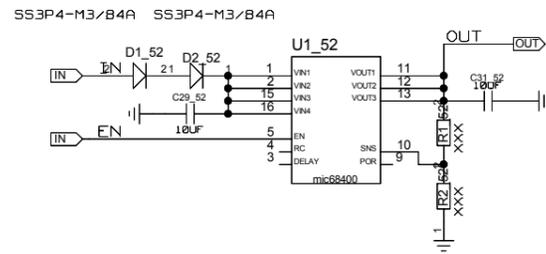
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REVISIONS

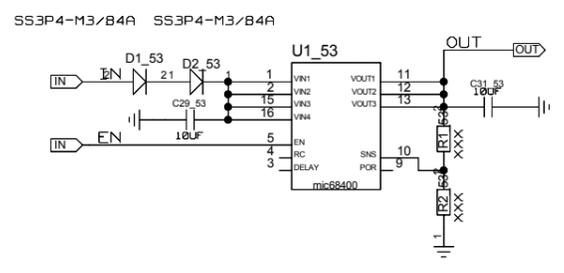
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DRAWN				DRAWING NO.
BLOCK TITLE				
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UNIVERSITY OF MAINZ				
SIZE	REV.	DRAWING NO.		SHEET OF
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SCALE				

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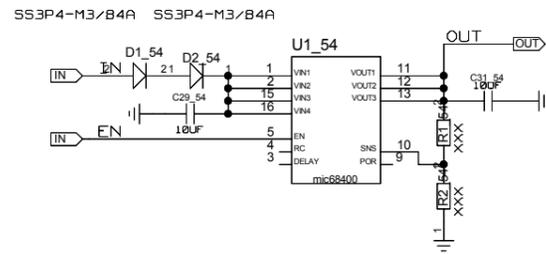
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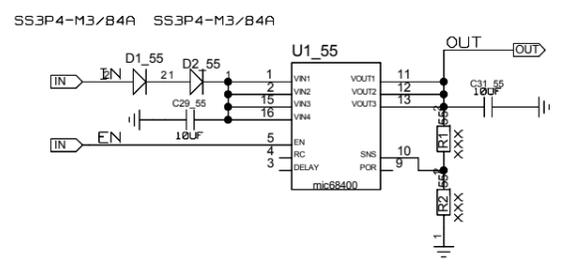
REVISIONS

ZONE	LTR	DESCRIPTION	DATE	APPR.



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	U.SCHAEFER			
	S.RAVE			
	DRAWN	BAUSS		
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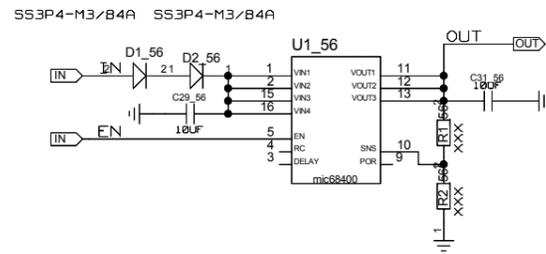
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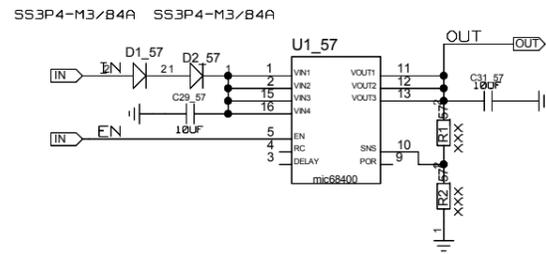
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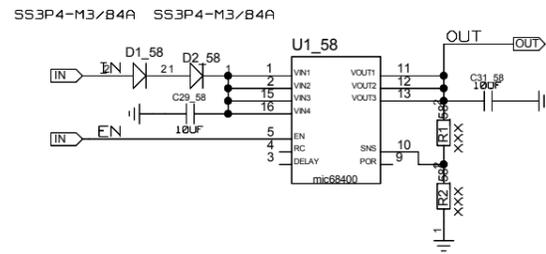
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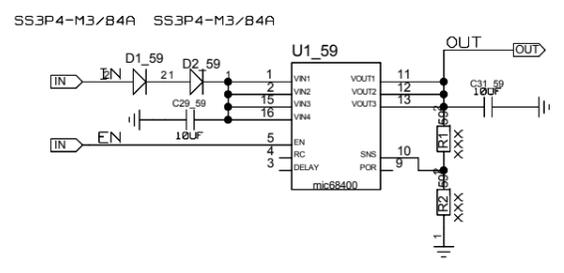
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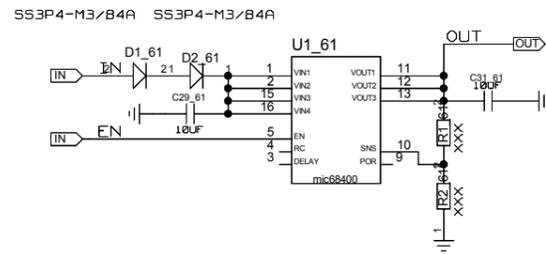
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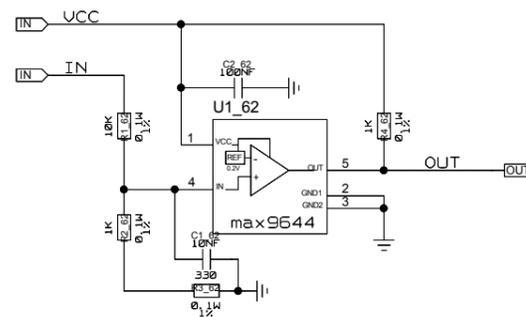
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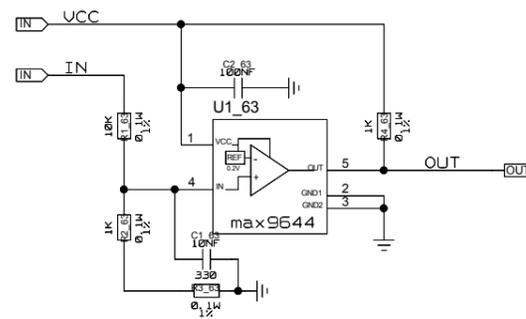
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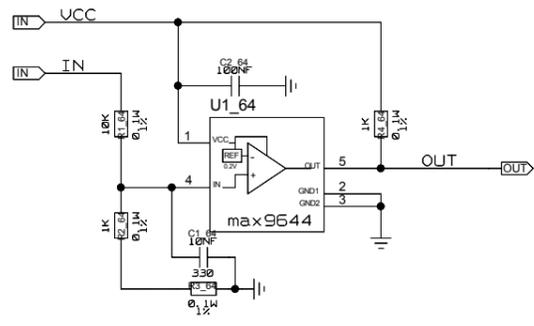
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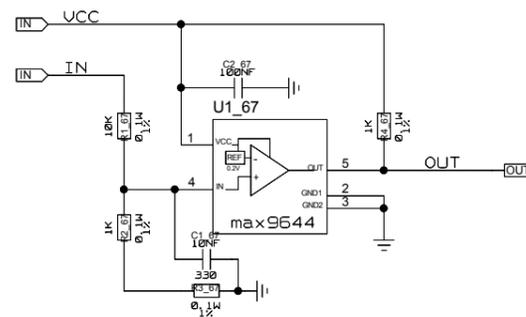
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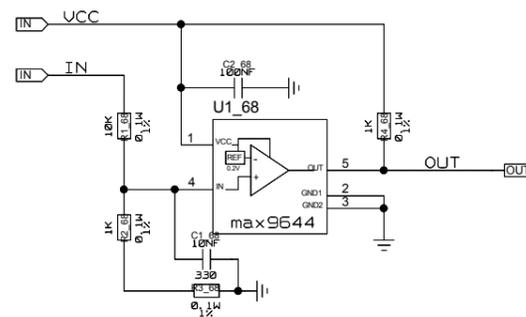
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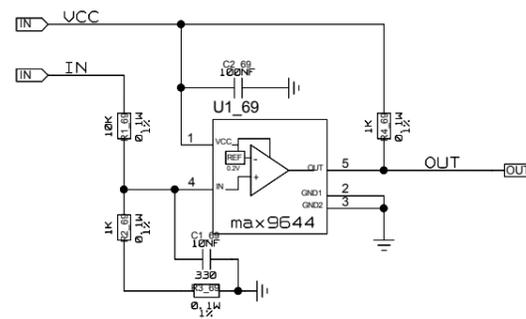
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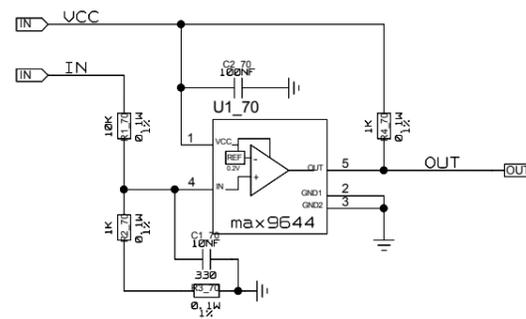
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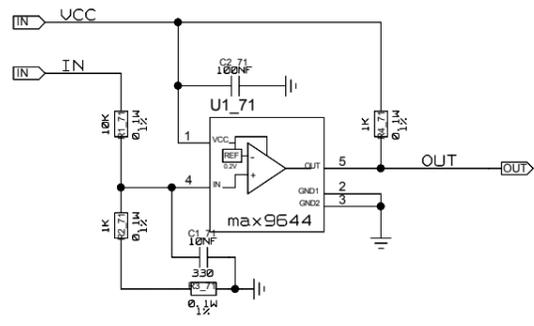
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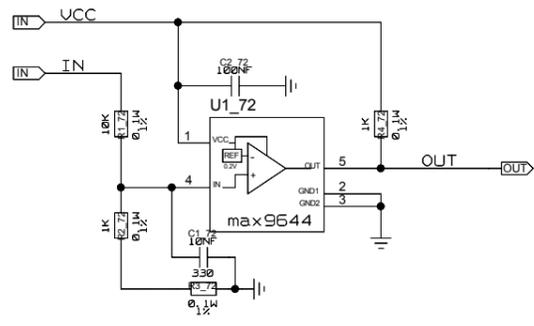
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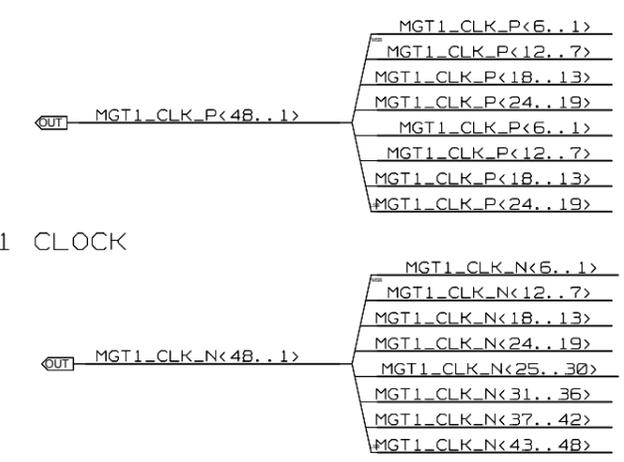
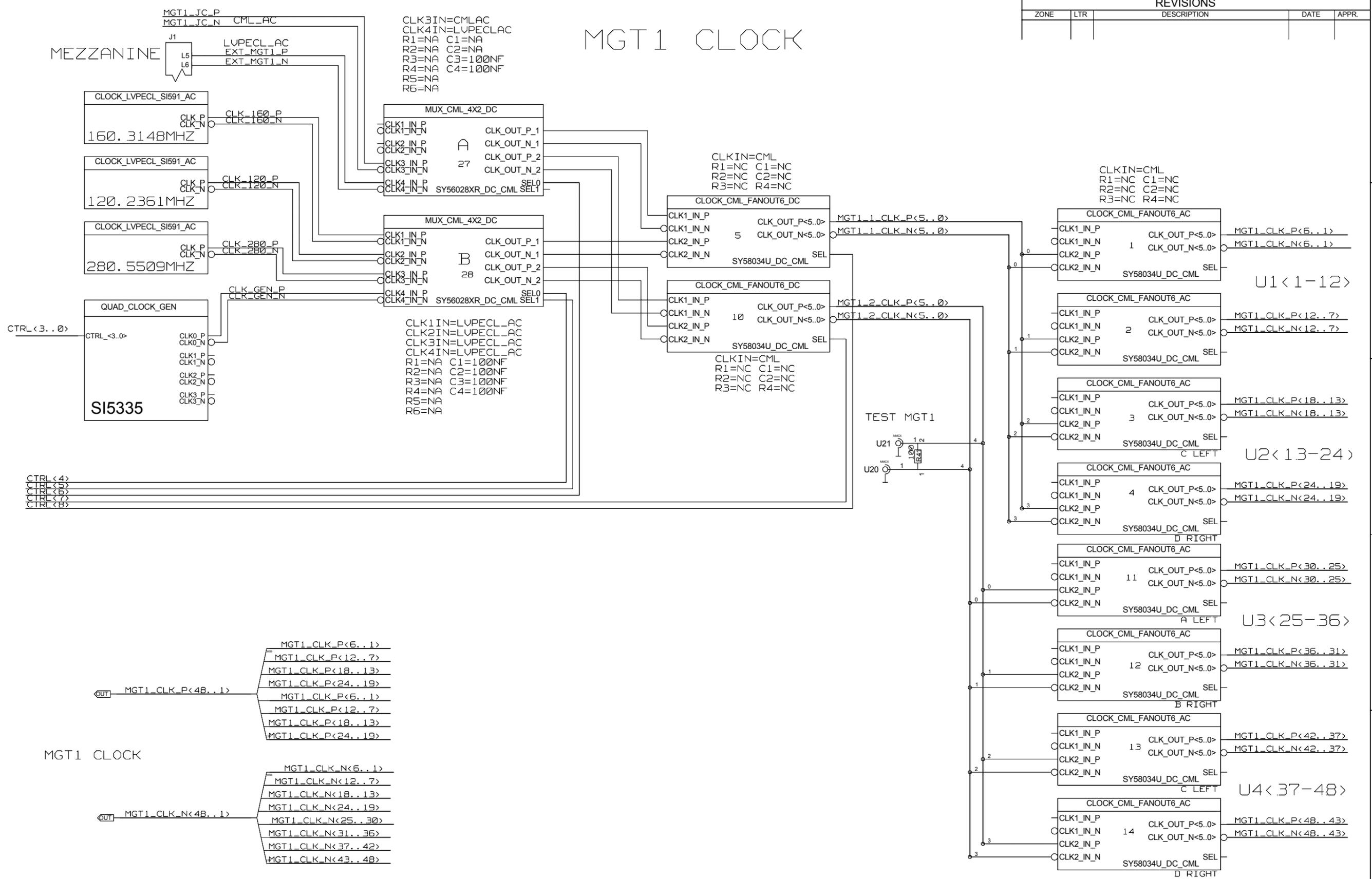
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ZONE	LTR	DESCRIPTION	DATE

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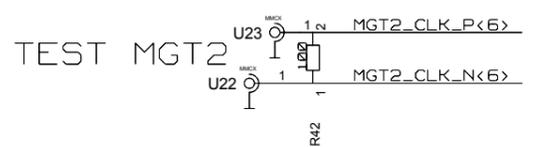
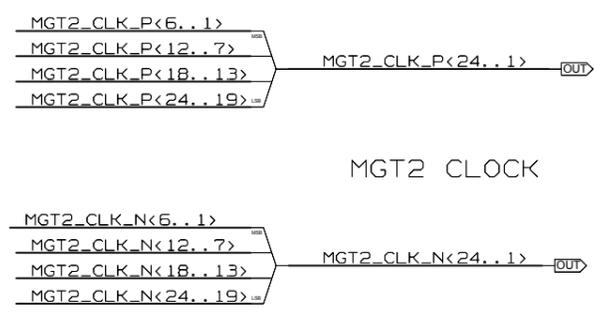
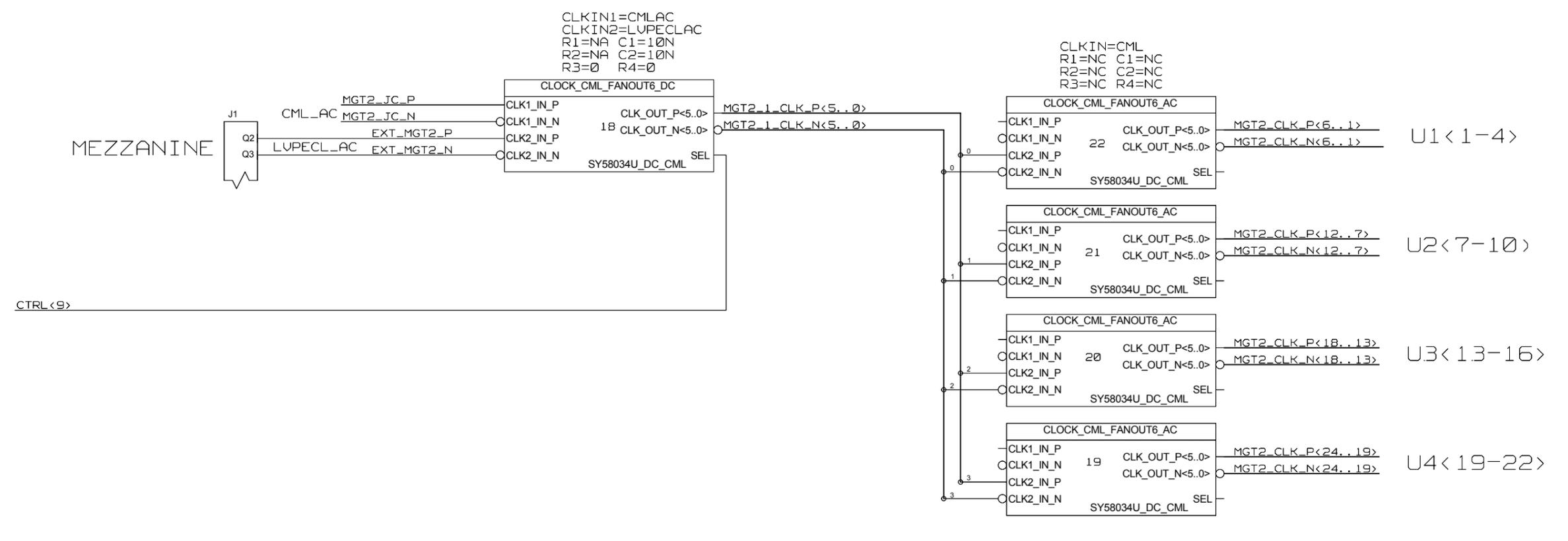


UPDATE PICK & PLACE DATA FOR FANOUT AND MUX

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MGT2 CLOCK

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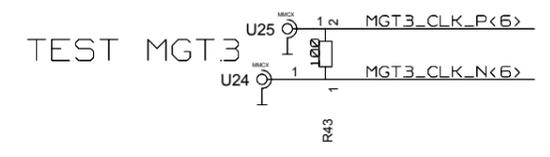
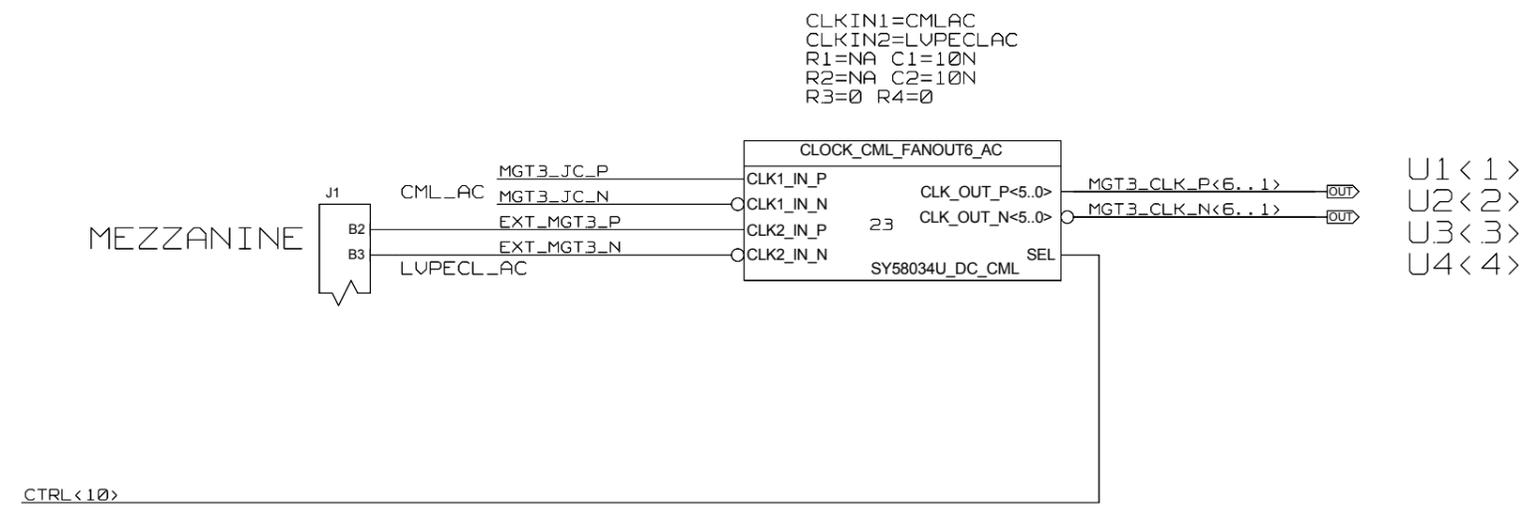


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MGT.3 CLOCK

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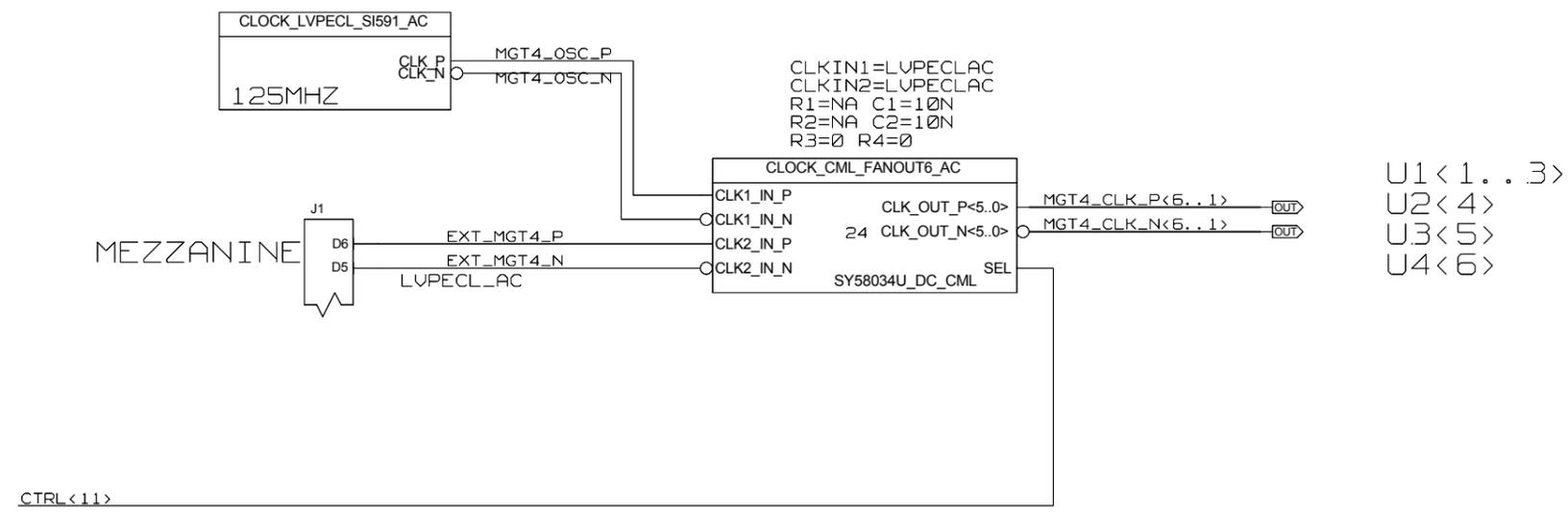


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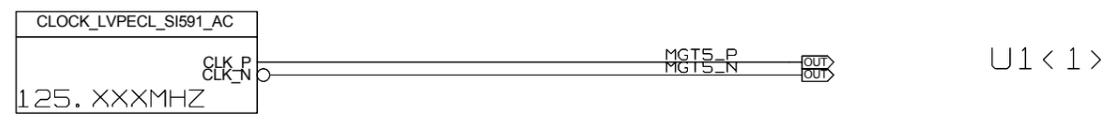
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MGT4 CLOCK

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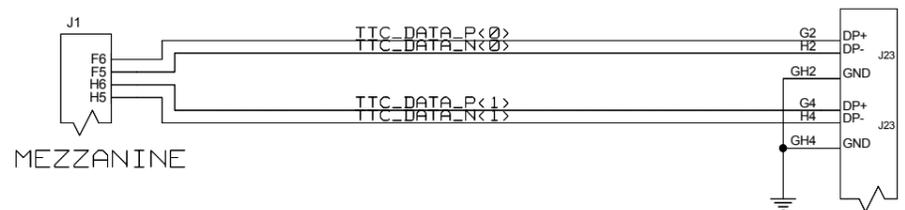
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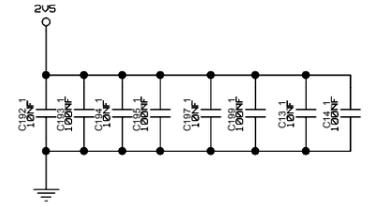
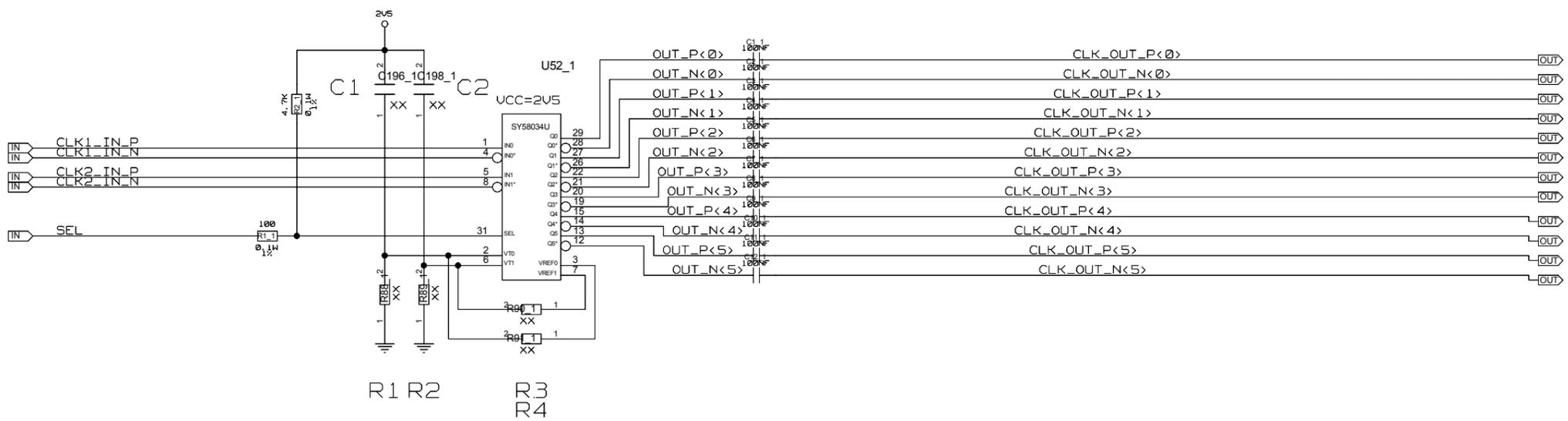
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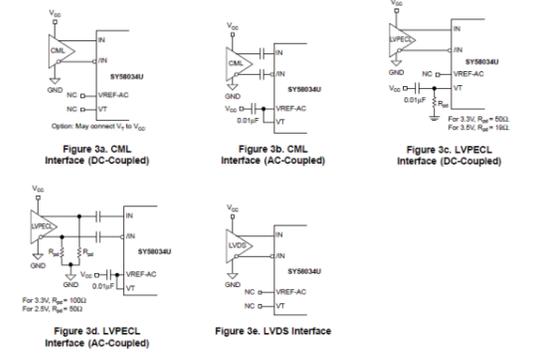


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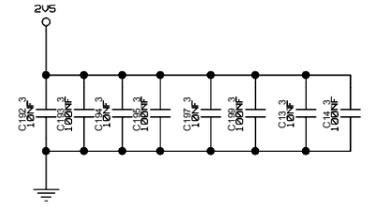
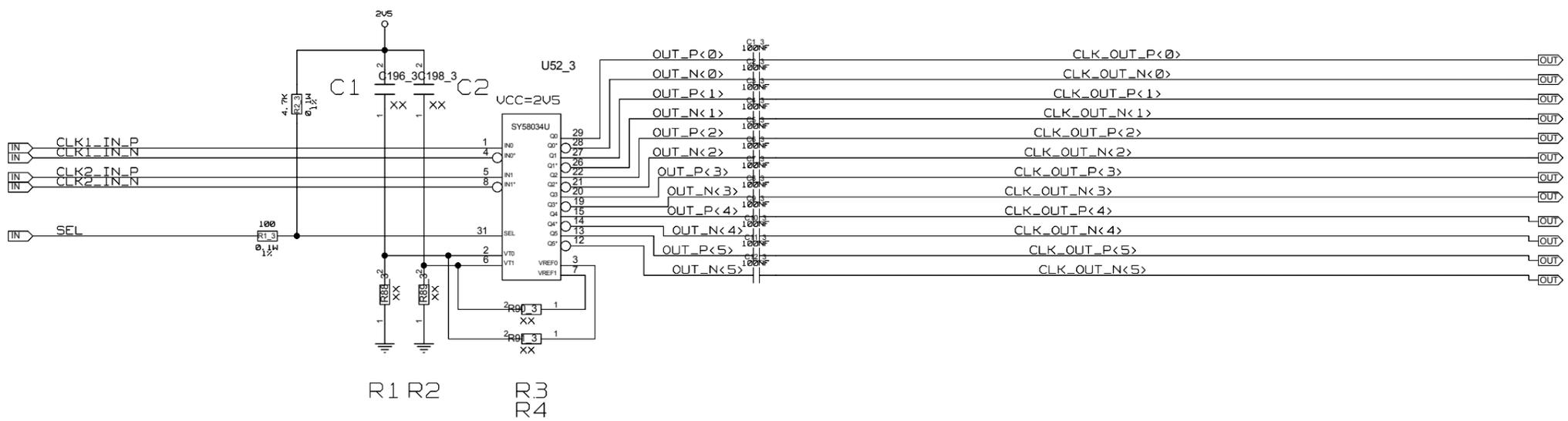


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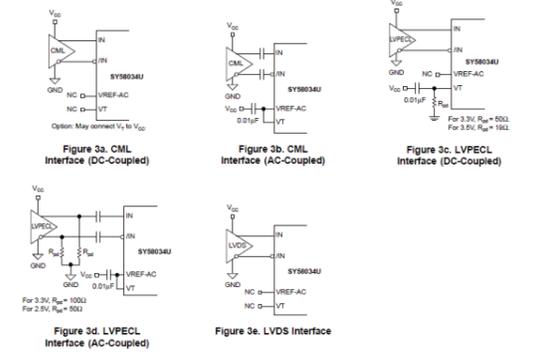


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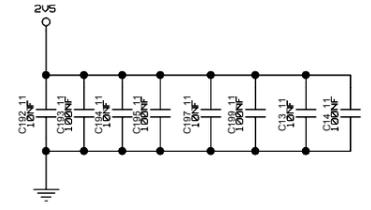
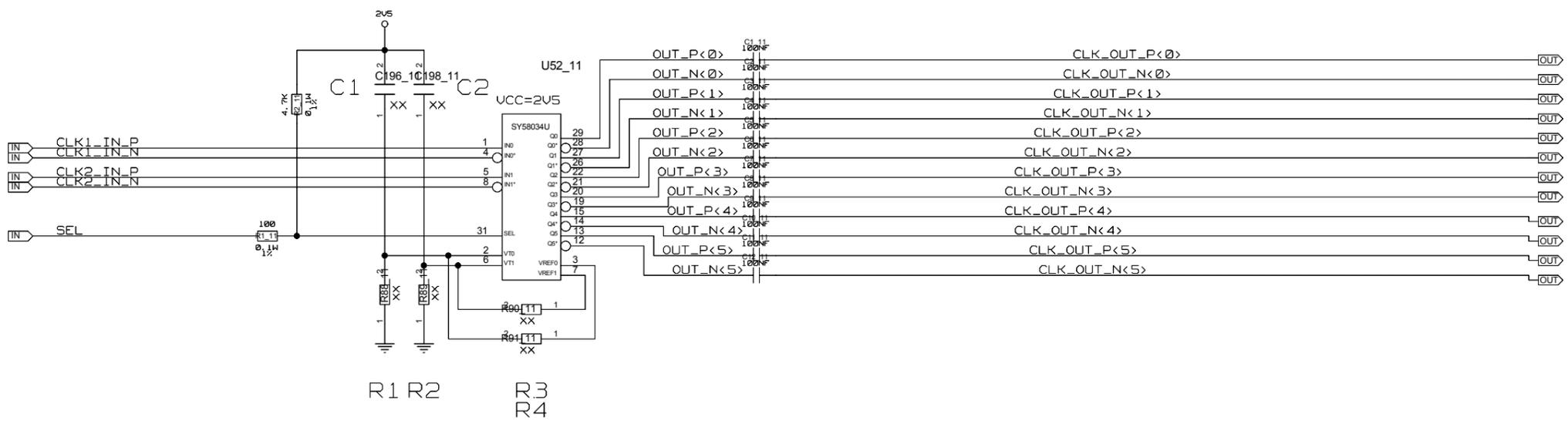


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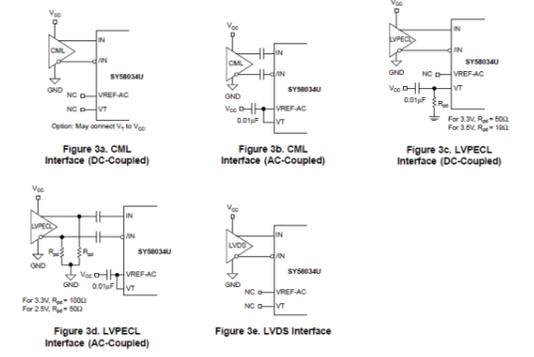


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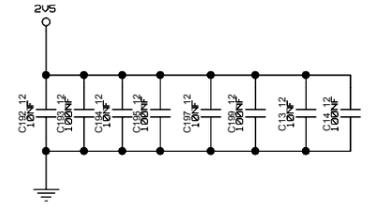
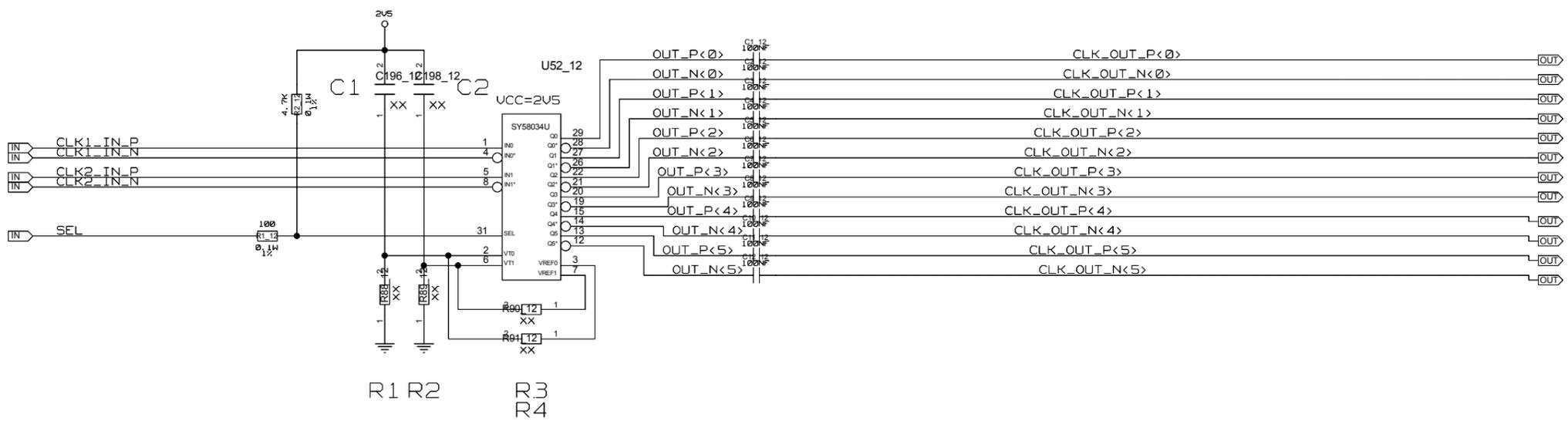


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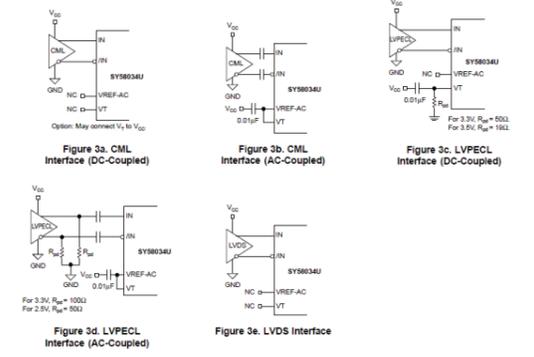


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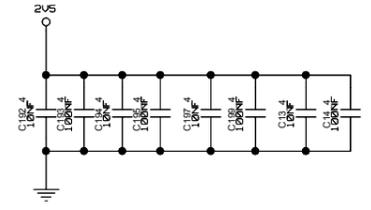
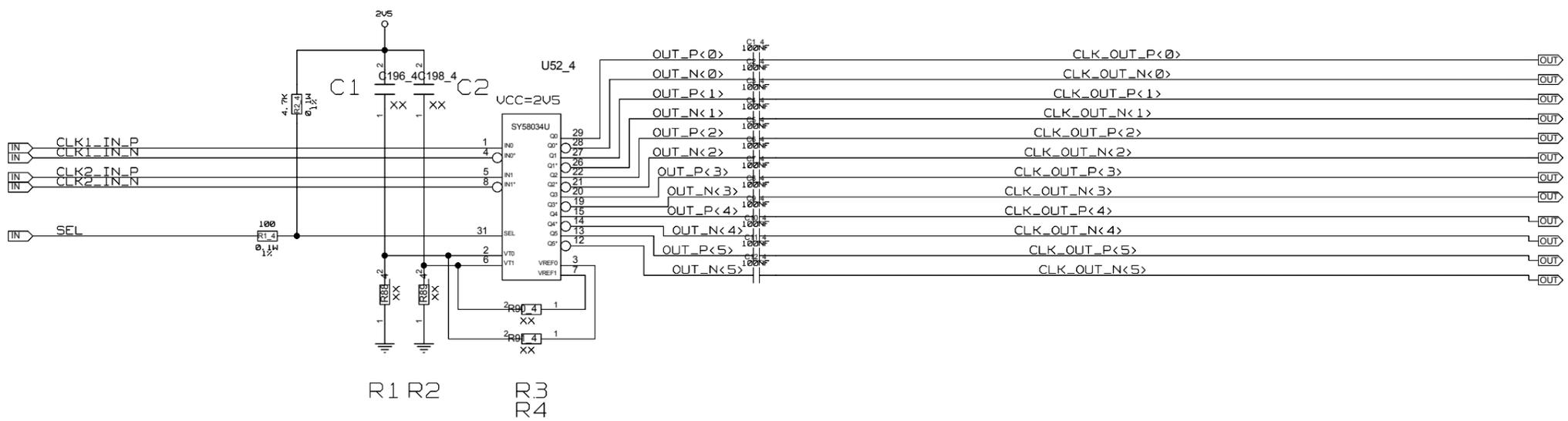


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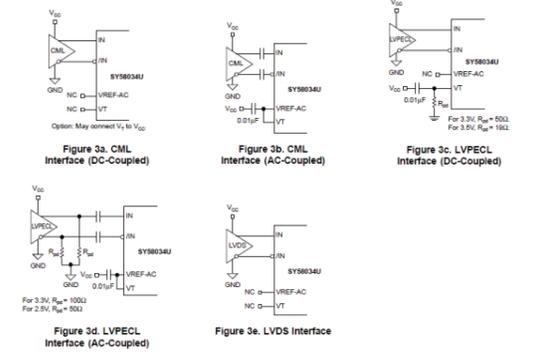


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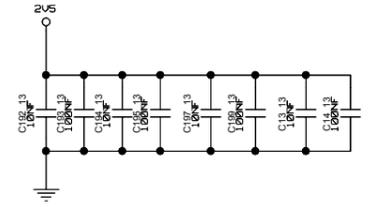
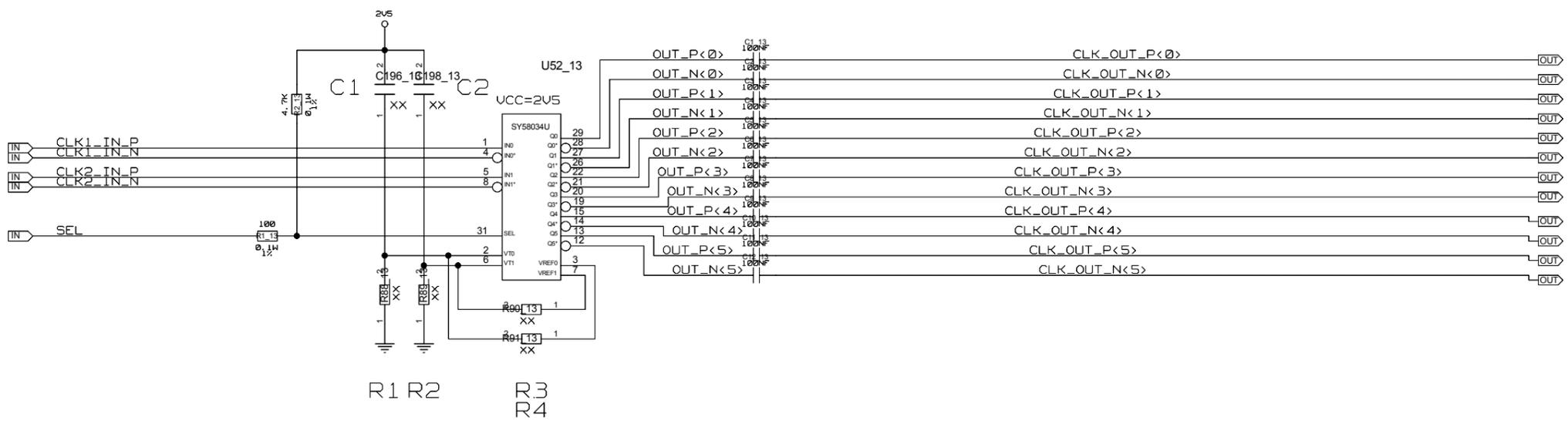


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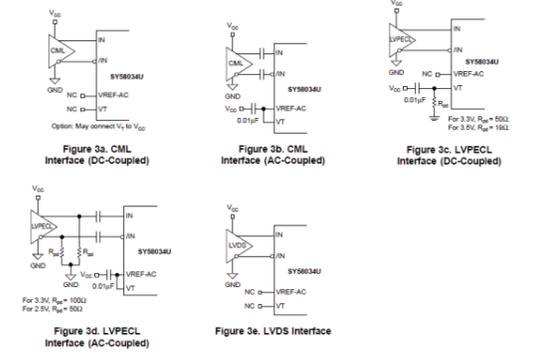


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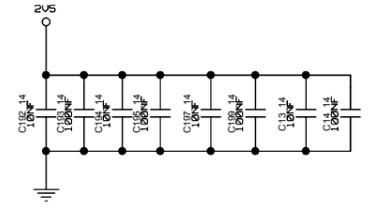
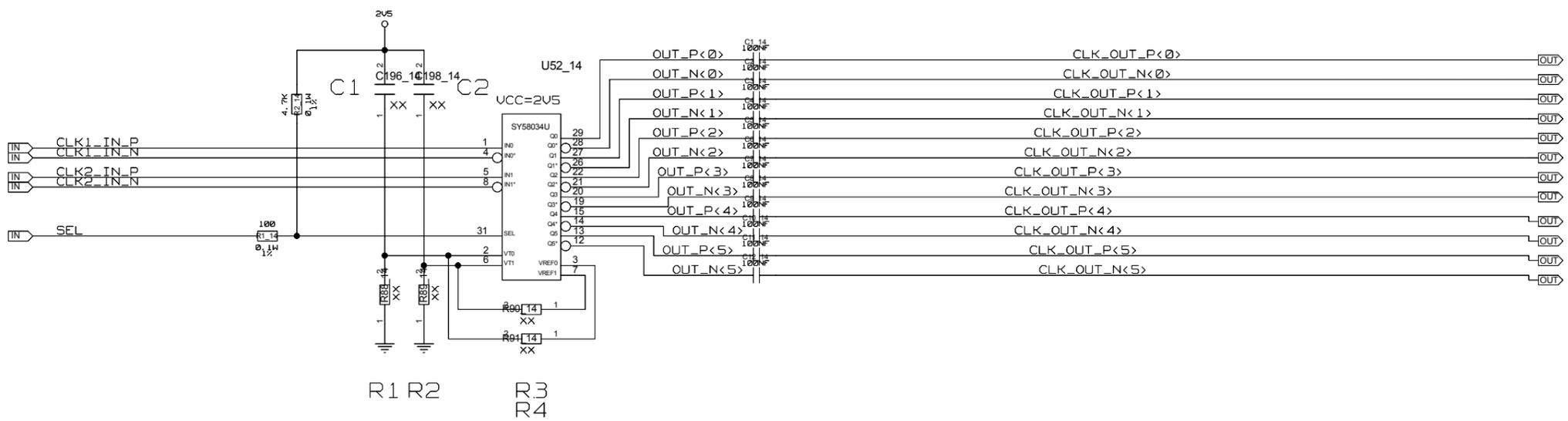


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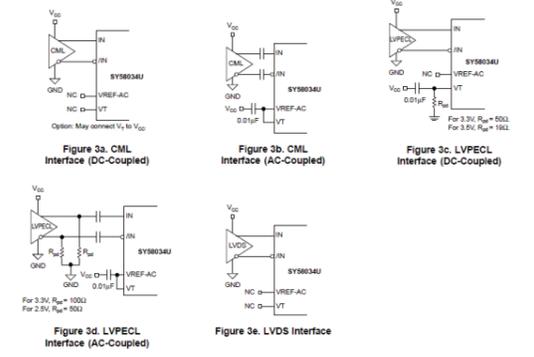


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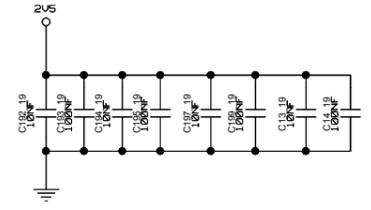
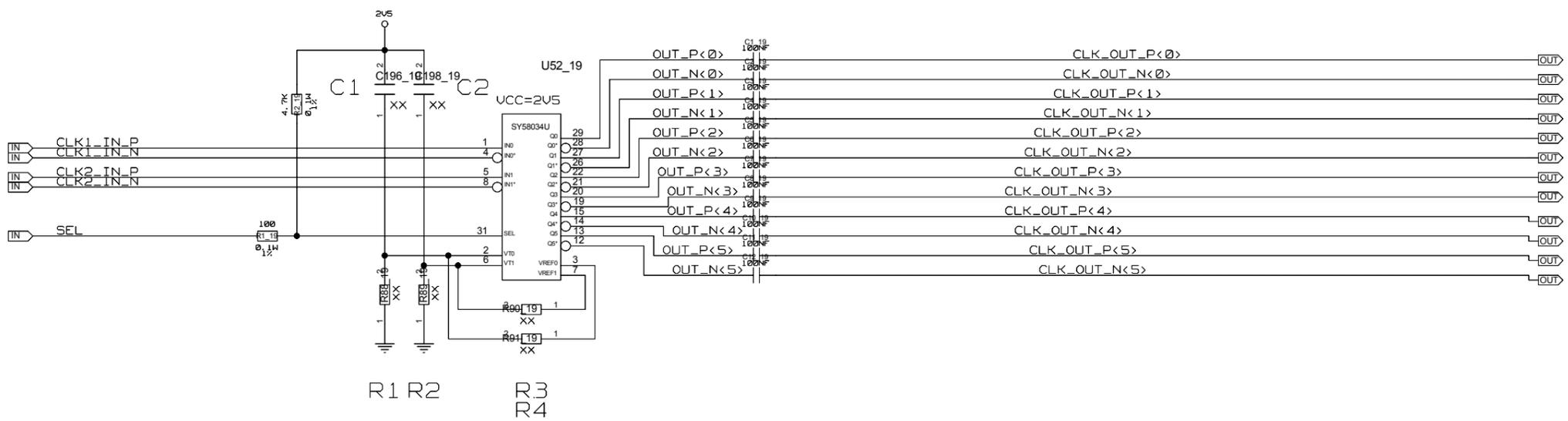


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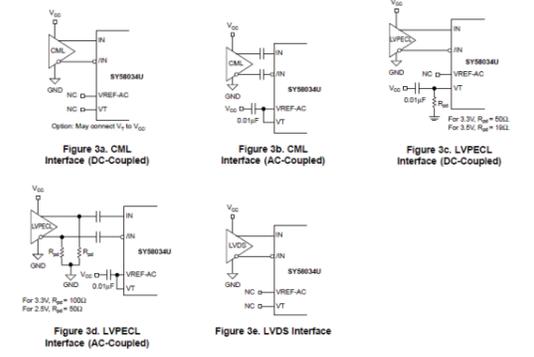


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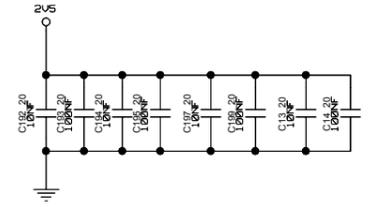
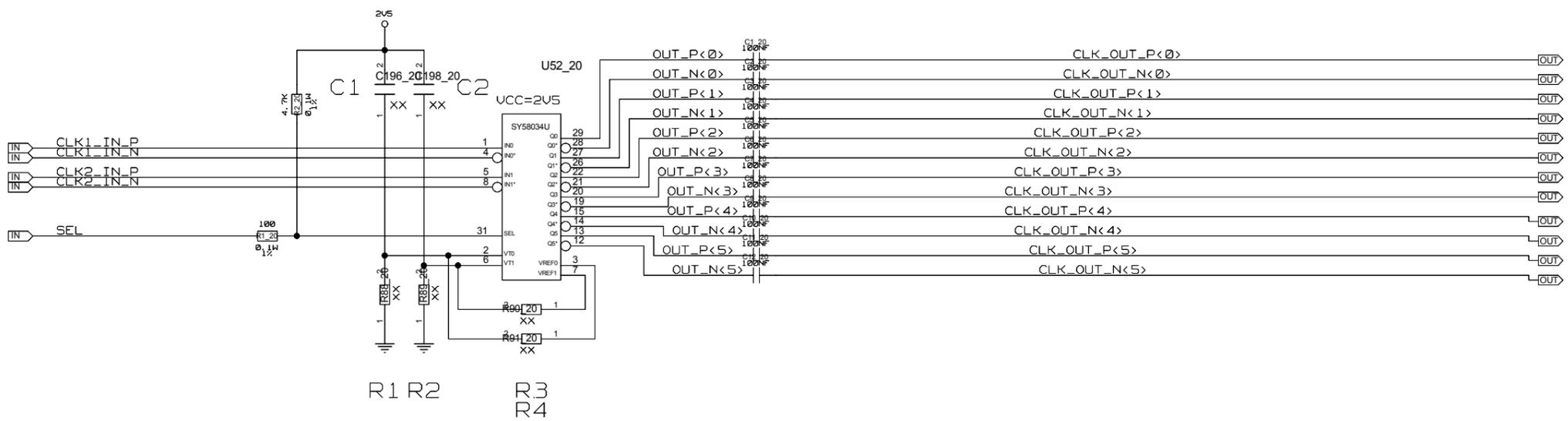


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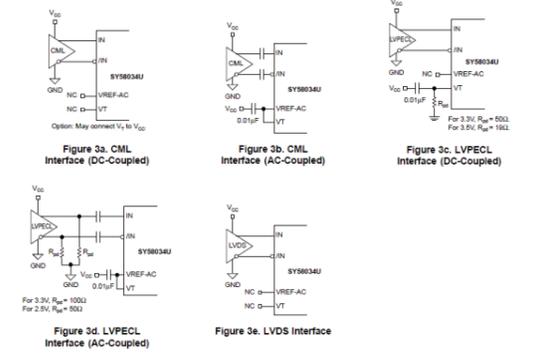


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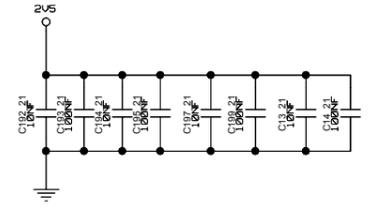
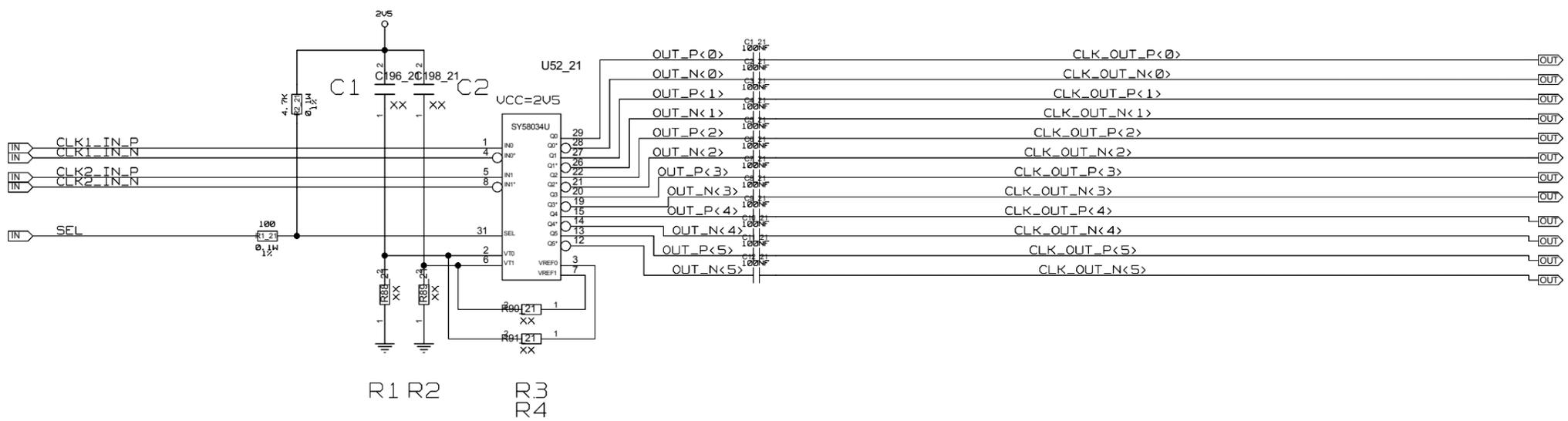


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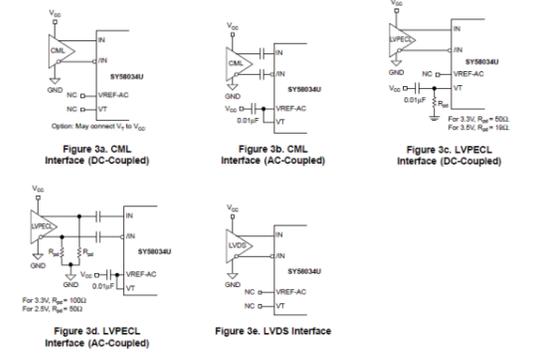


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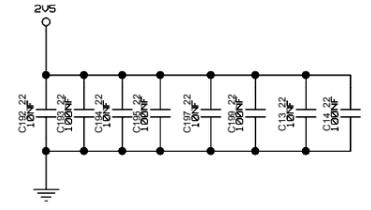
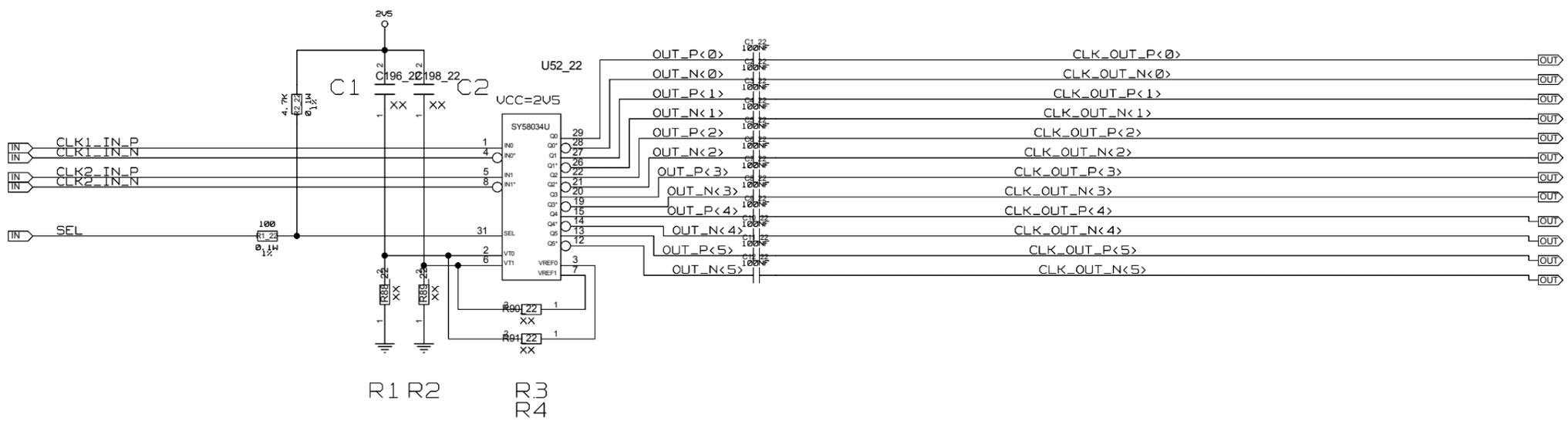


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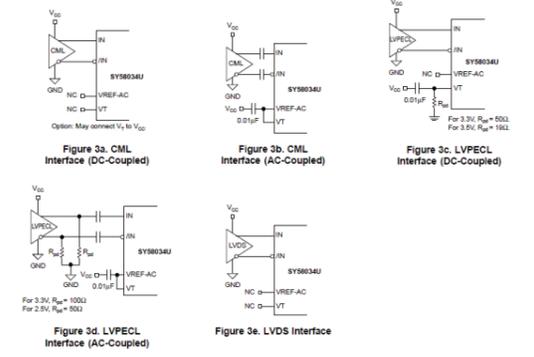


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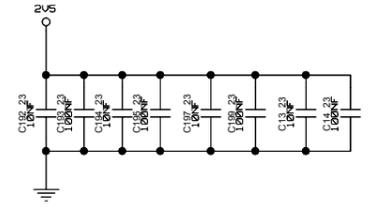
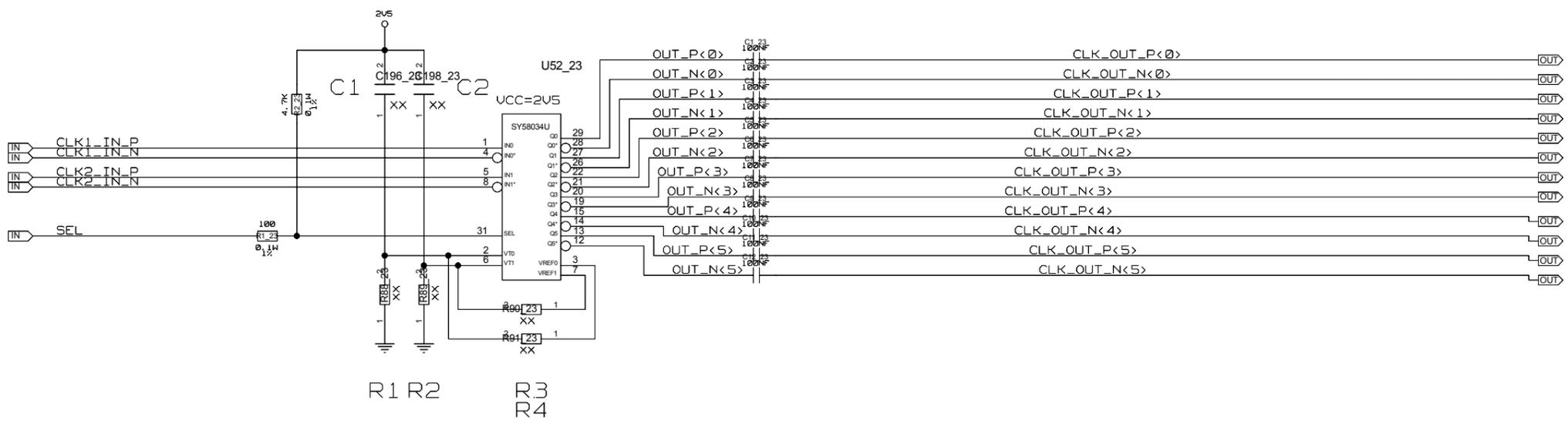


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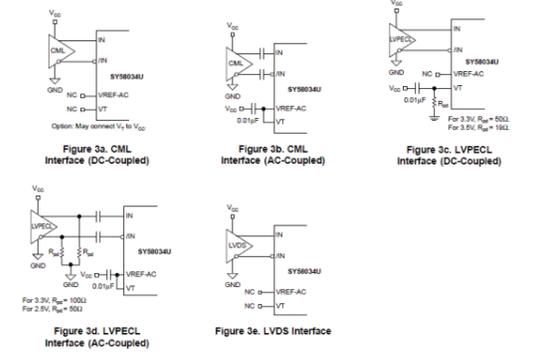


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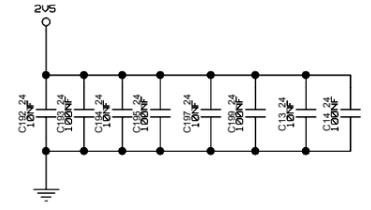
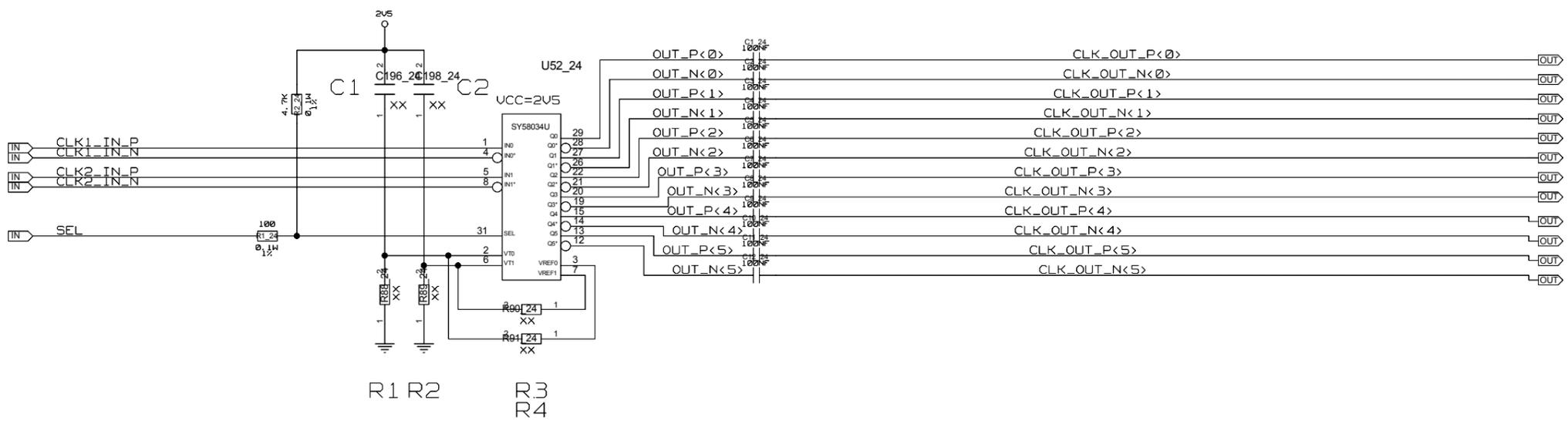


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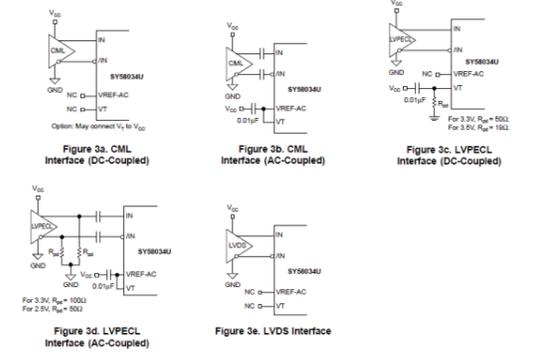


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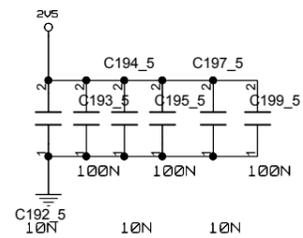
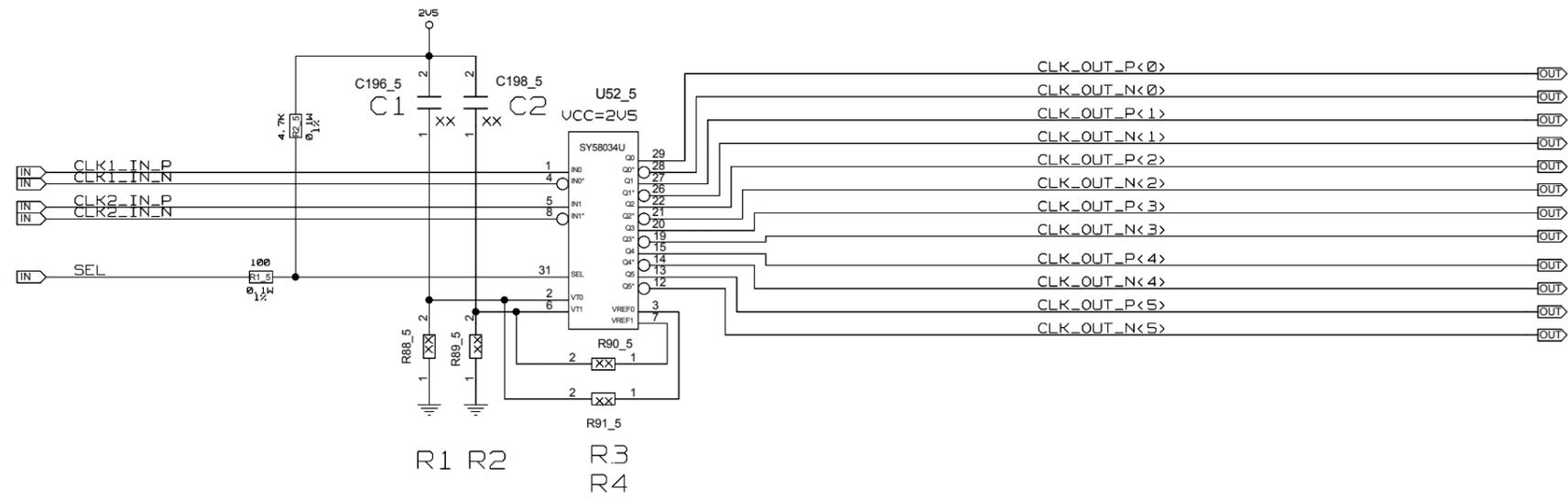


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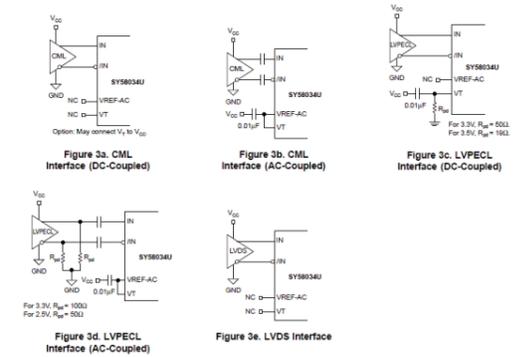


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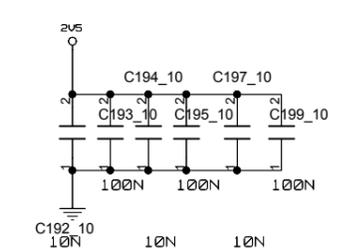
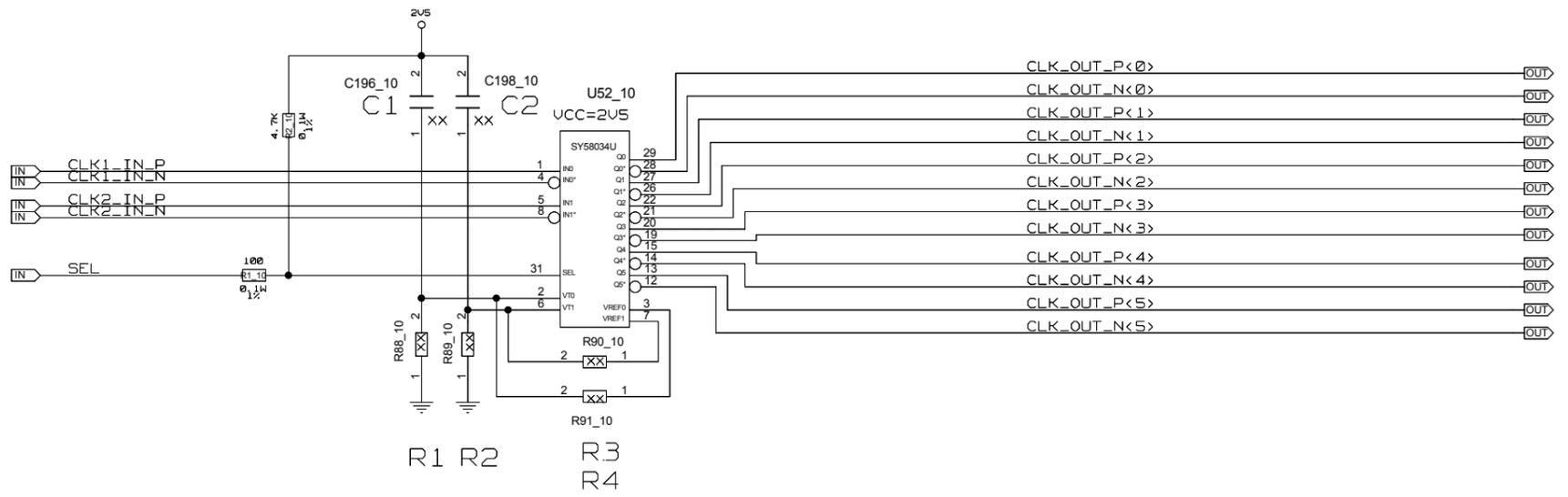


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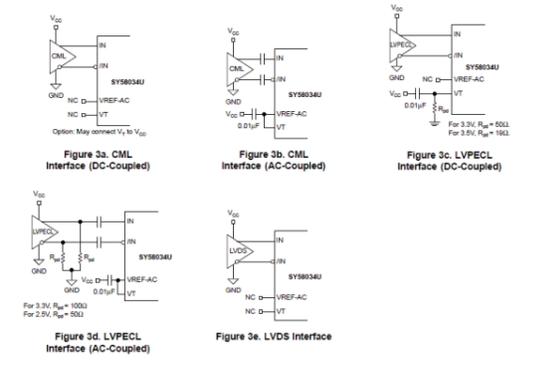


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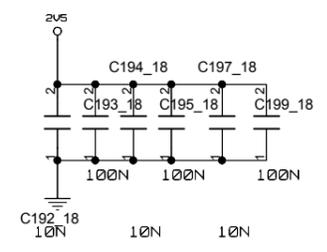
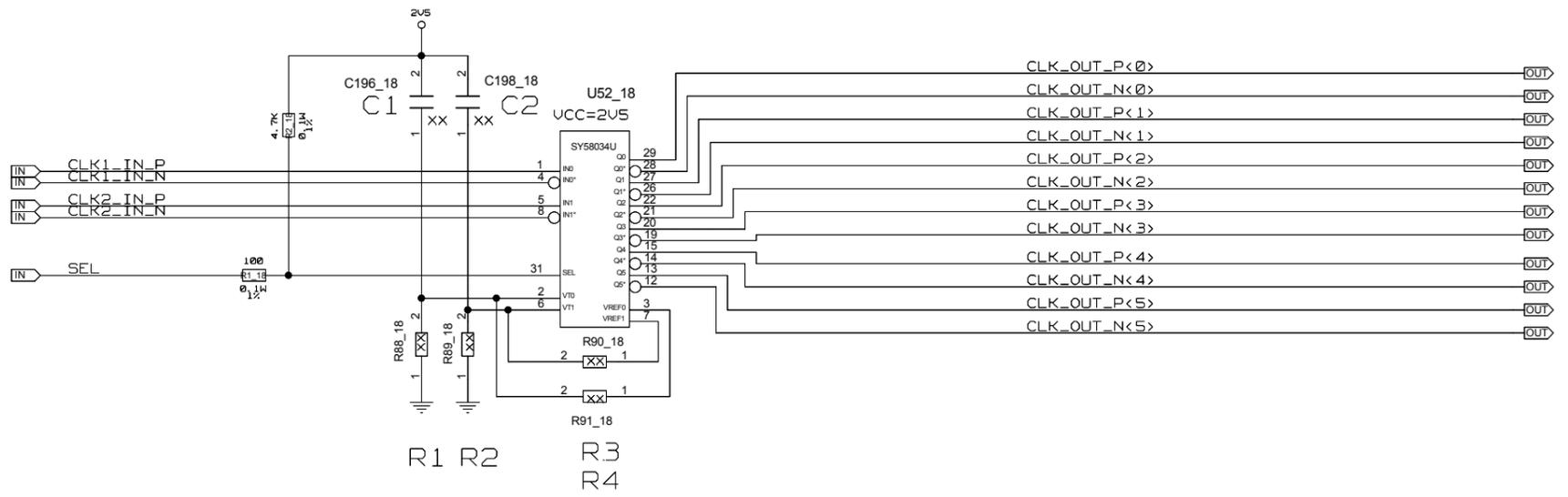


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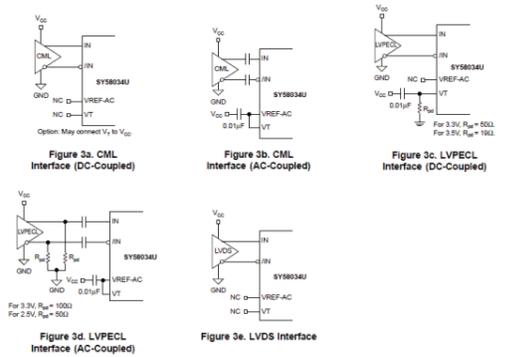


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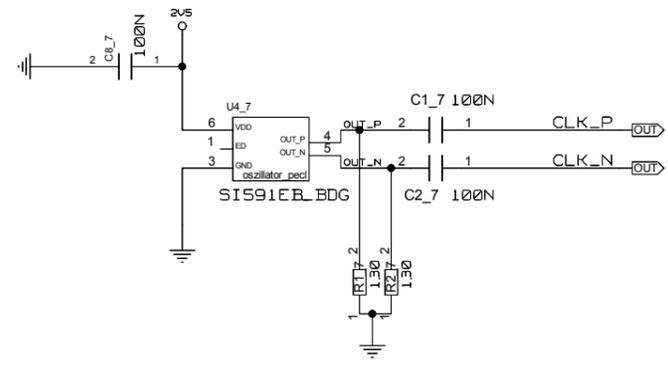


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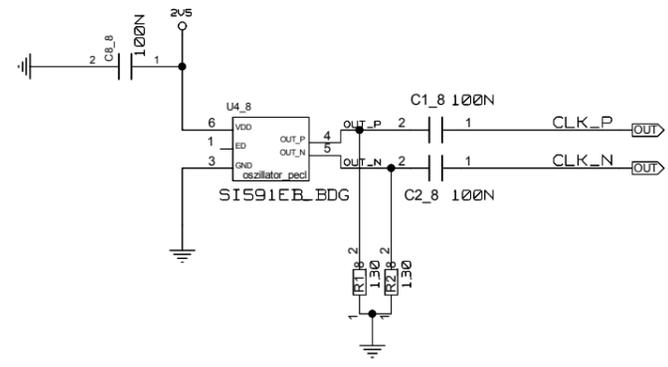
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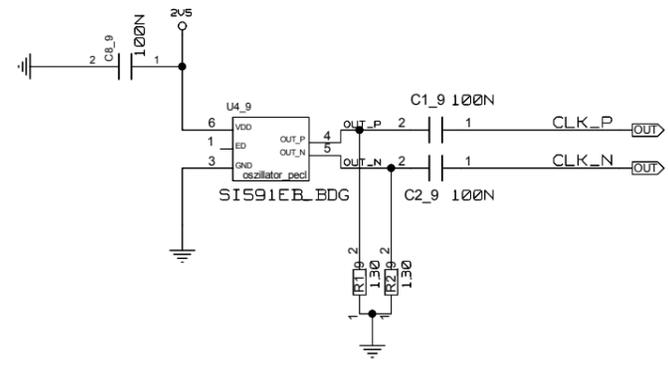
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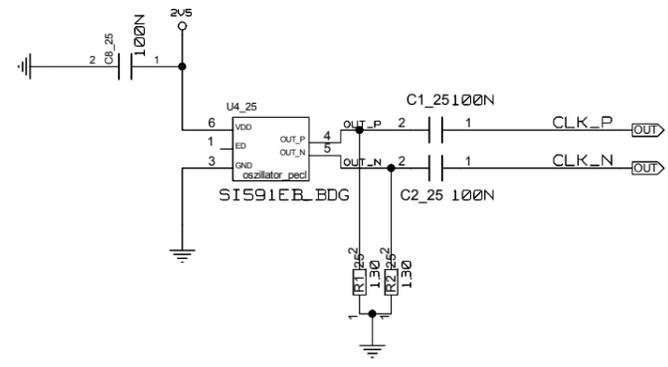
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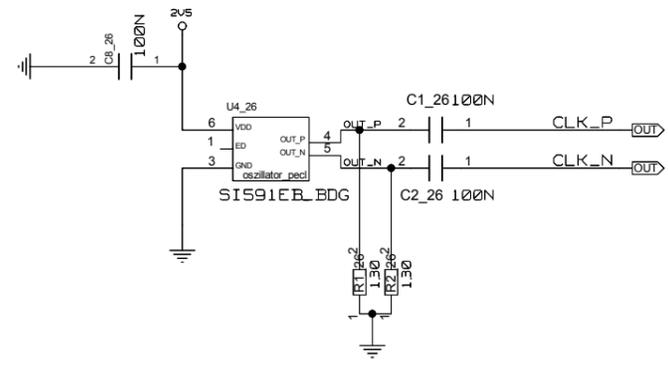
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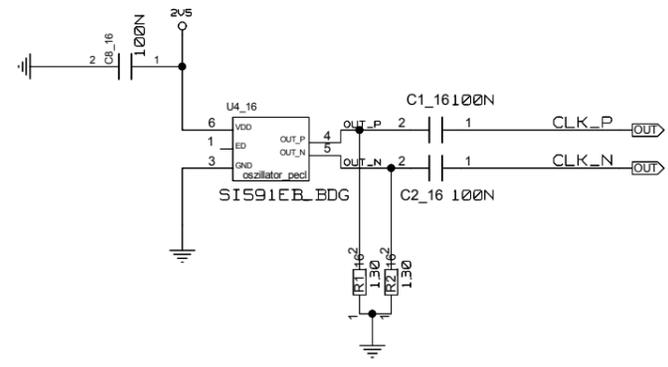
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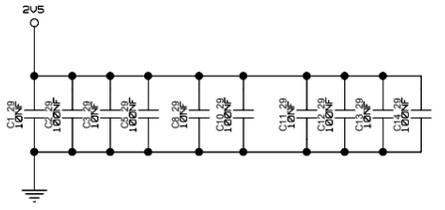
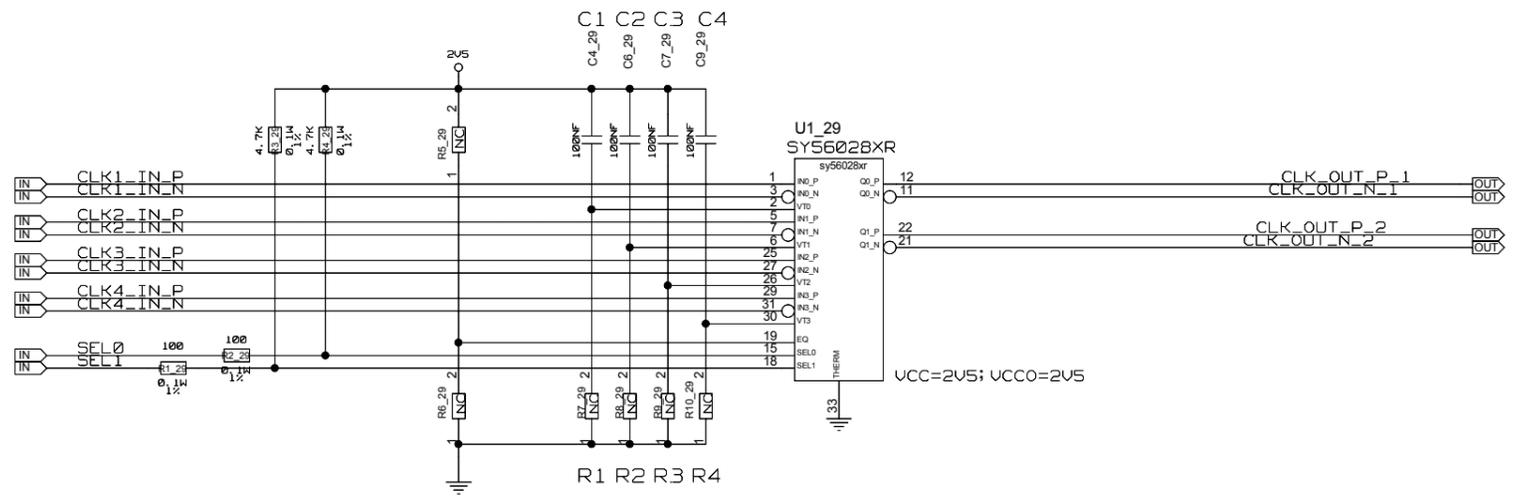
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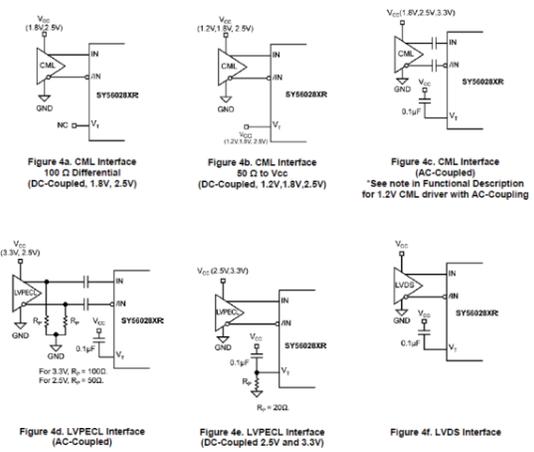


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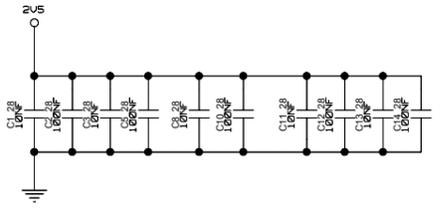
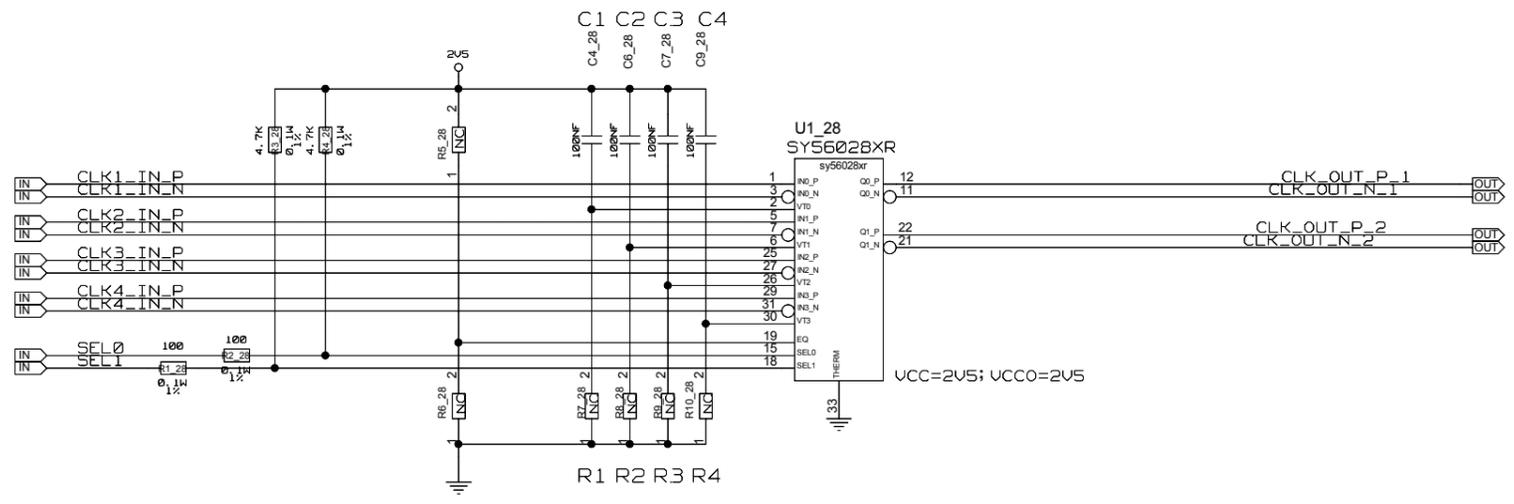


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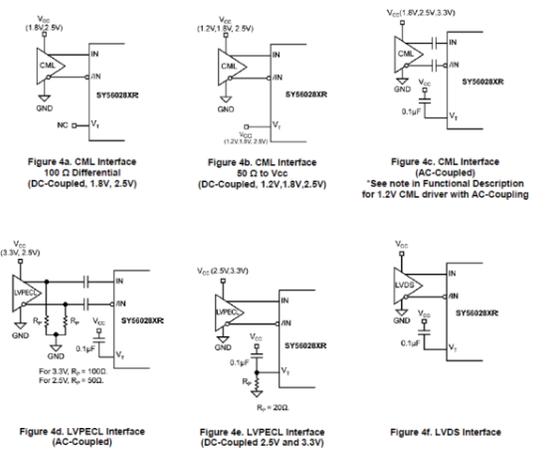


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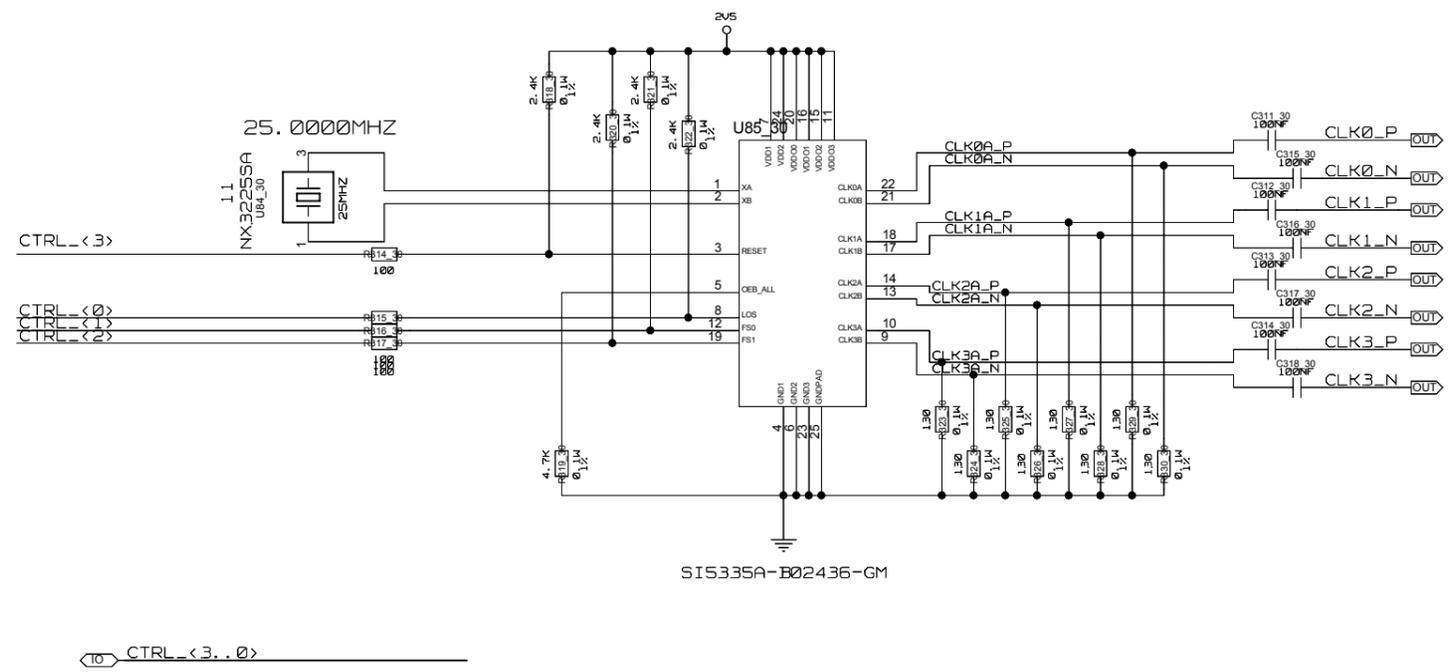


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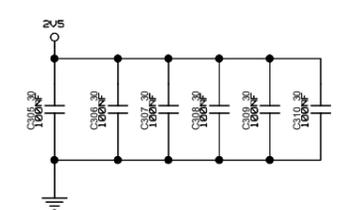


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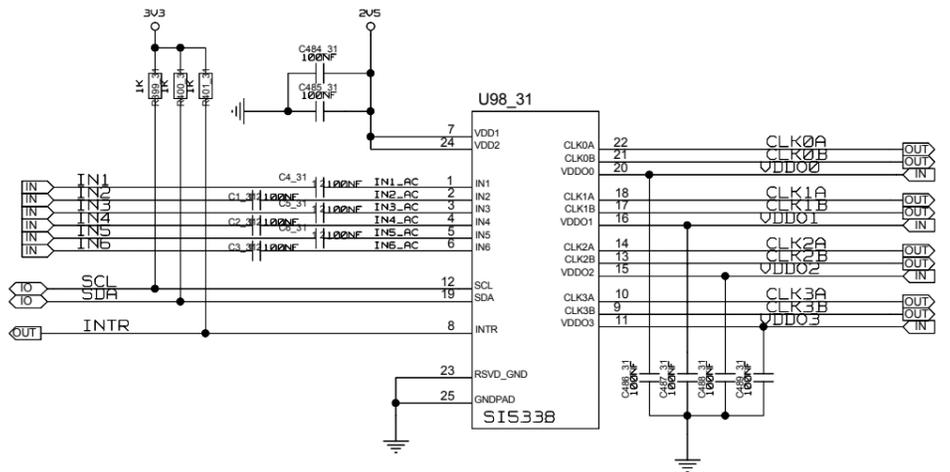


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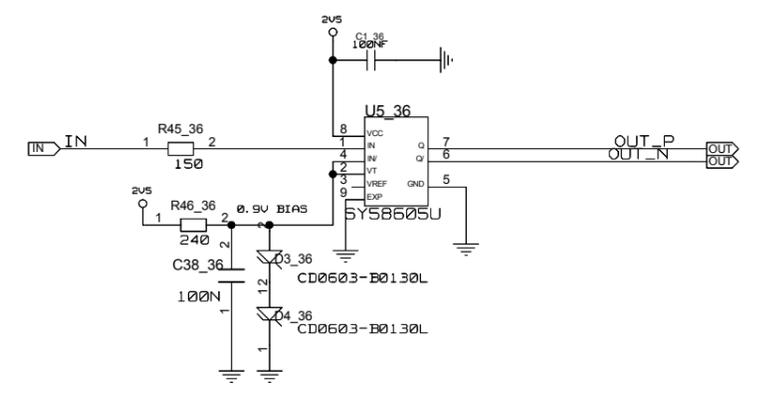
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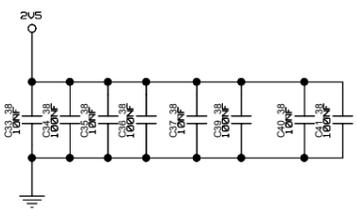
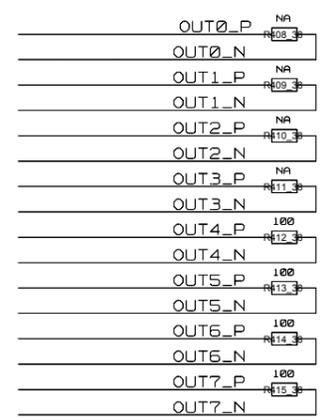
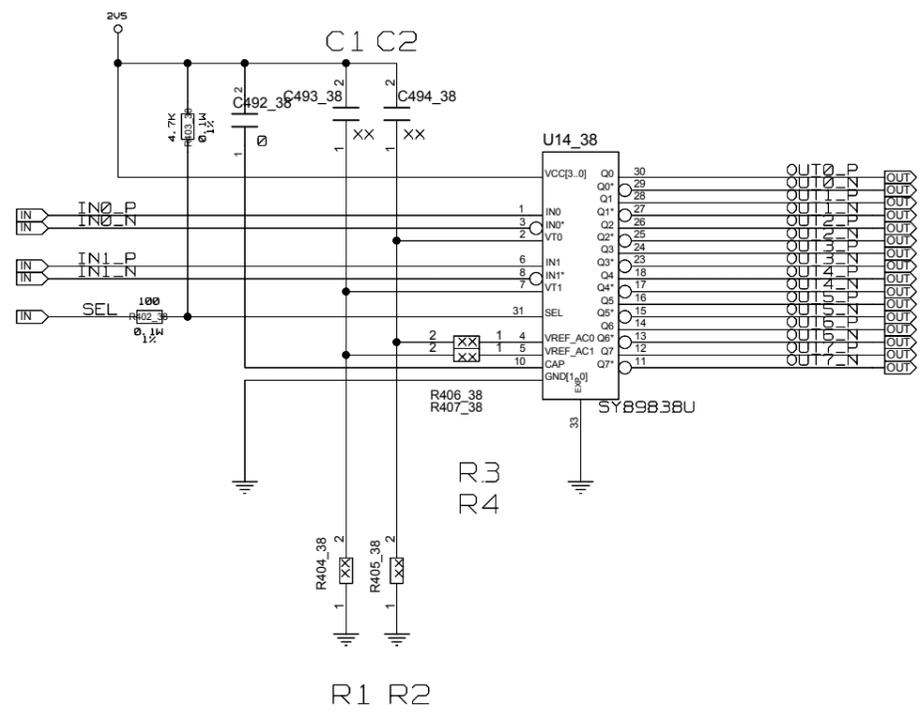
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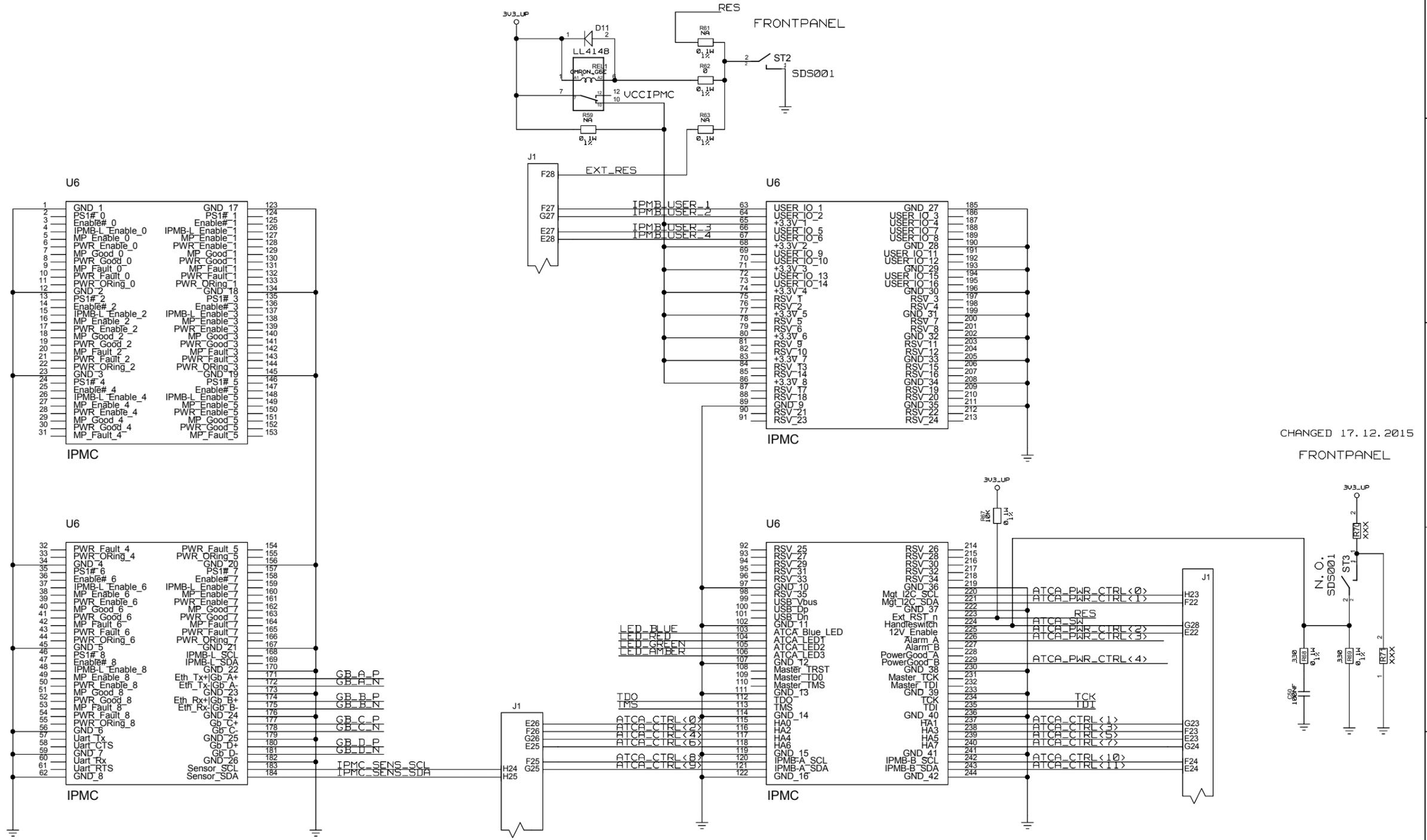
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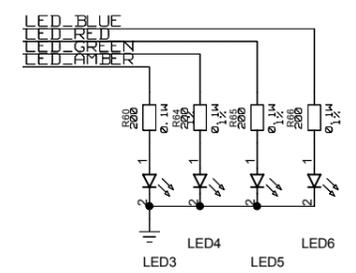
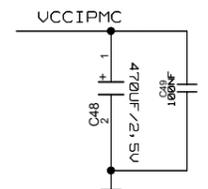
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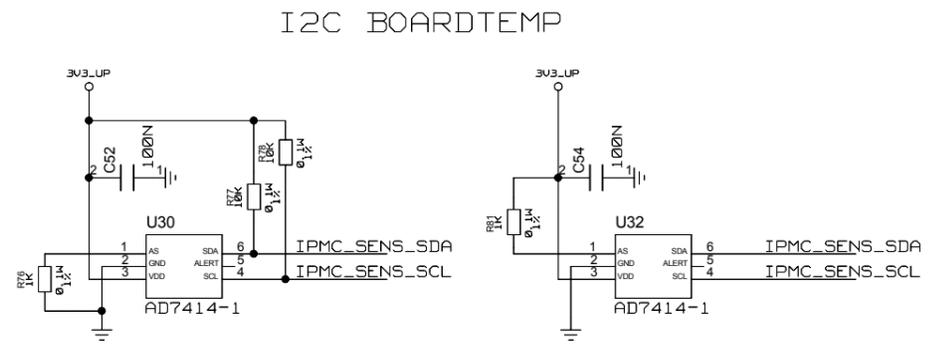
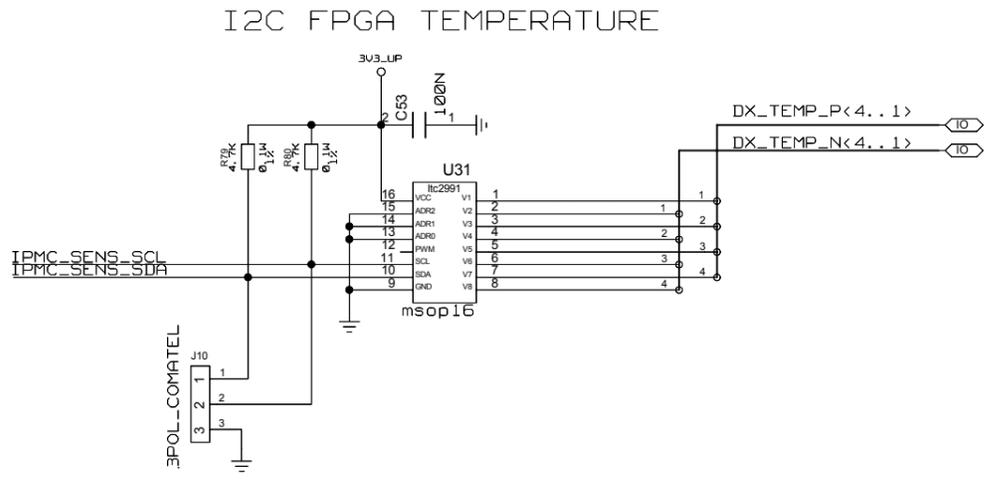
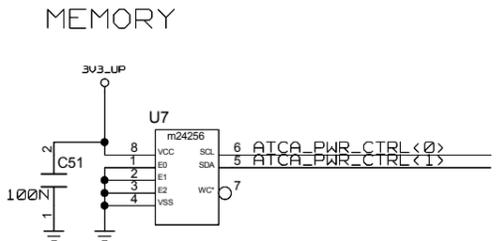
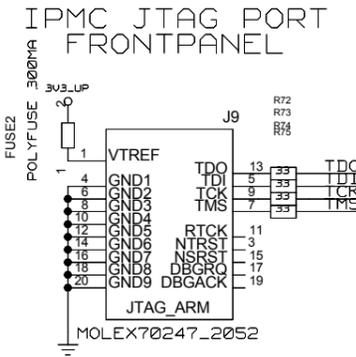
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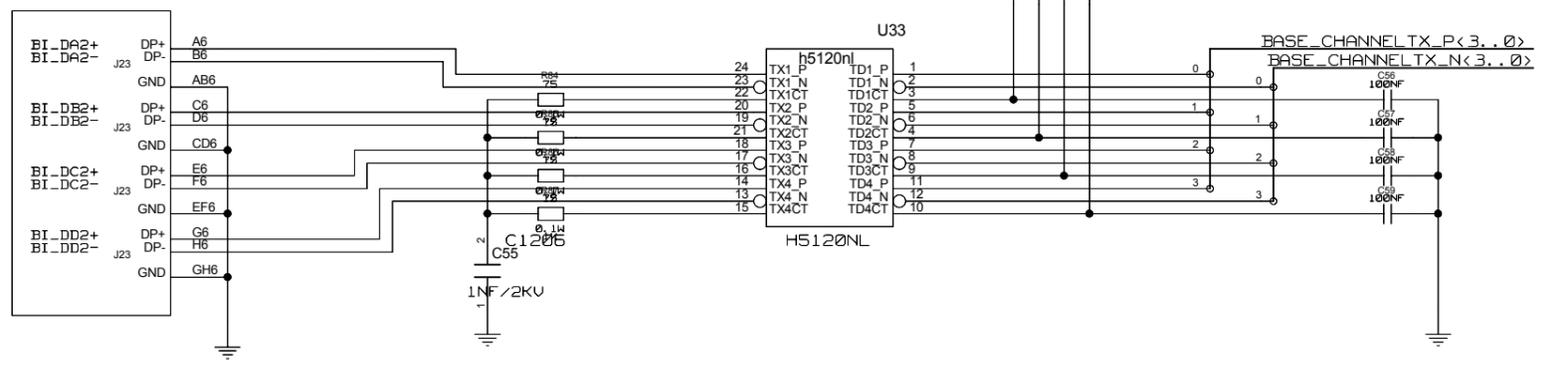
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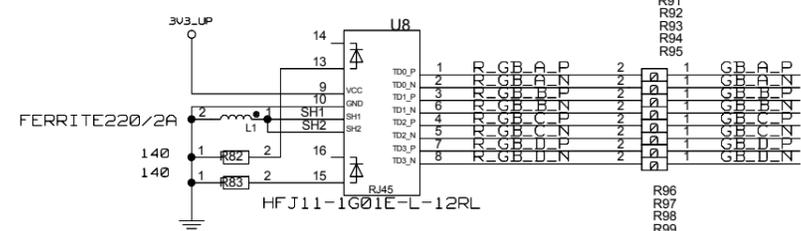
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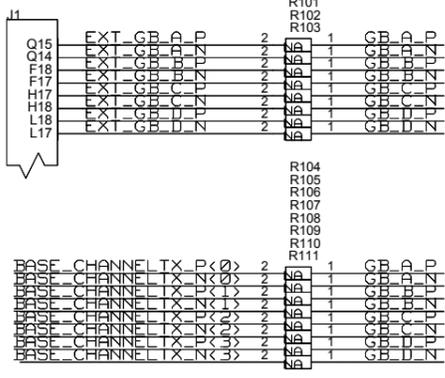
BACKPLANE BASE CHANNEL2



RJ45 FRONT PANEL



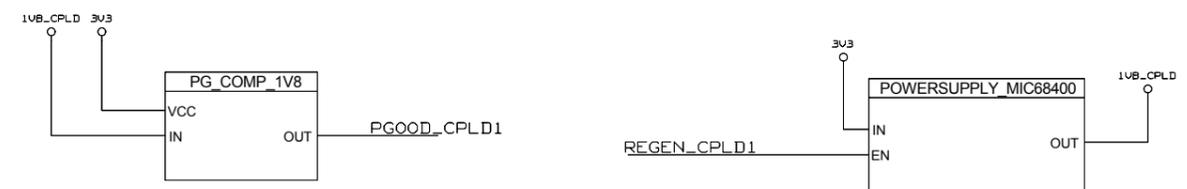
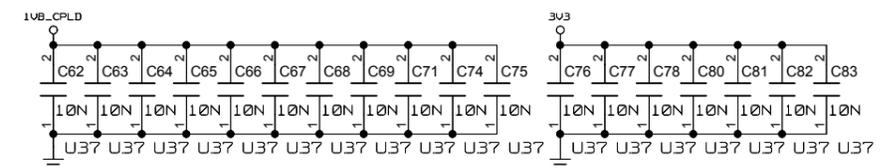
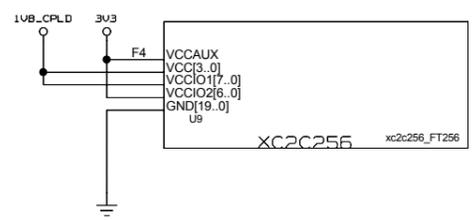
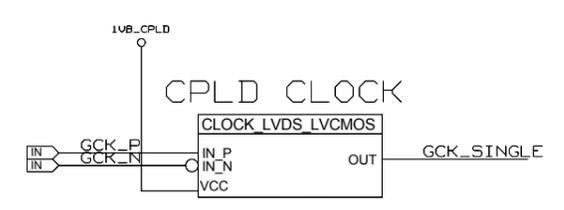
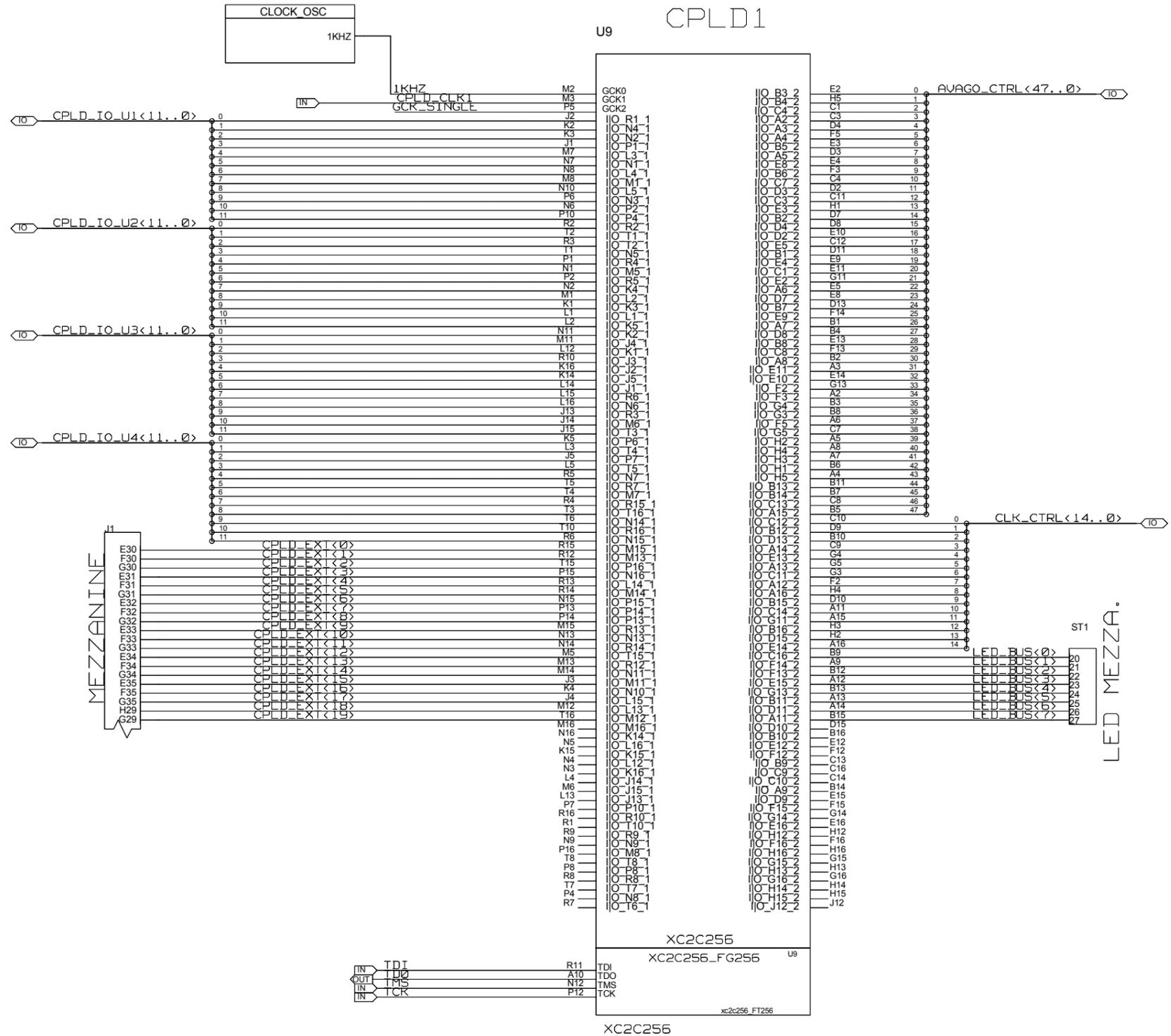
MEZZANINE



TO IPMC MODUL

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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
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ZONE	LTR	DESCRIPTION	DATE	APPR.

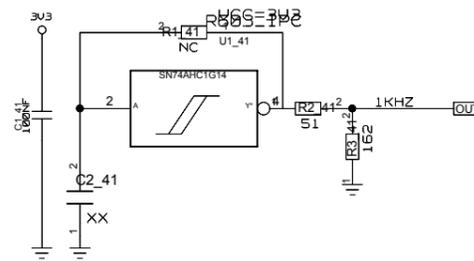


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BLOCK TITLE			DRAWING TITLE
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SCALE			SHEET 1 of 1

REVISIONS

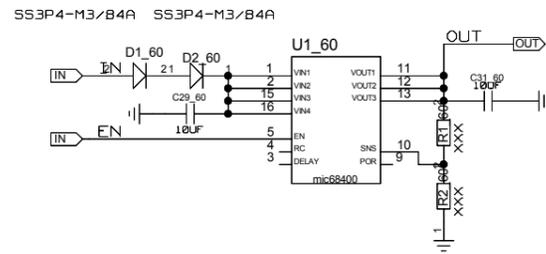
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REVISIONS

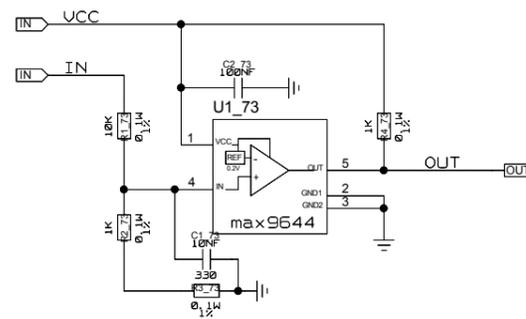
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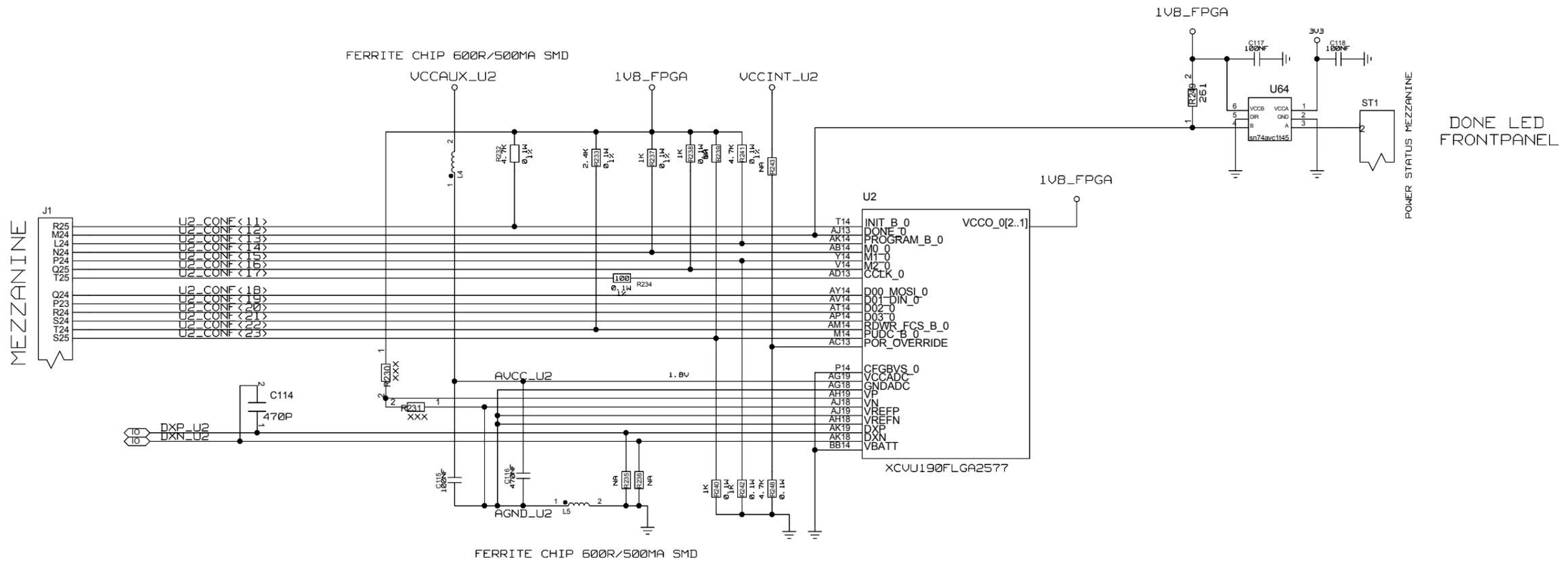
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ZONE	LTR	DESCRIPTION	DATE	APPR.



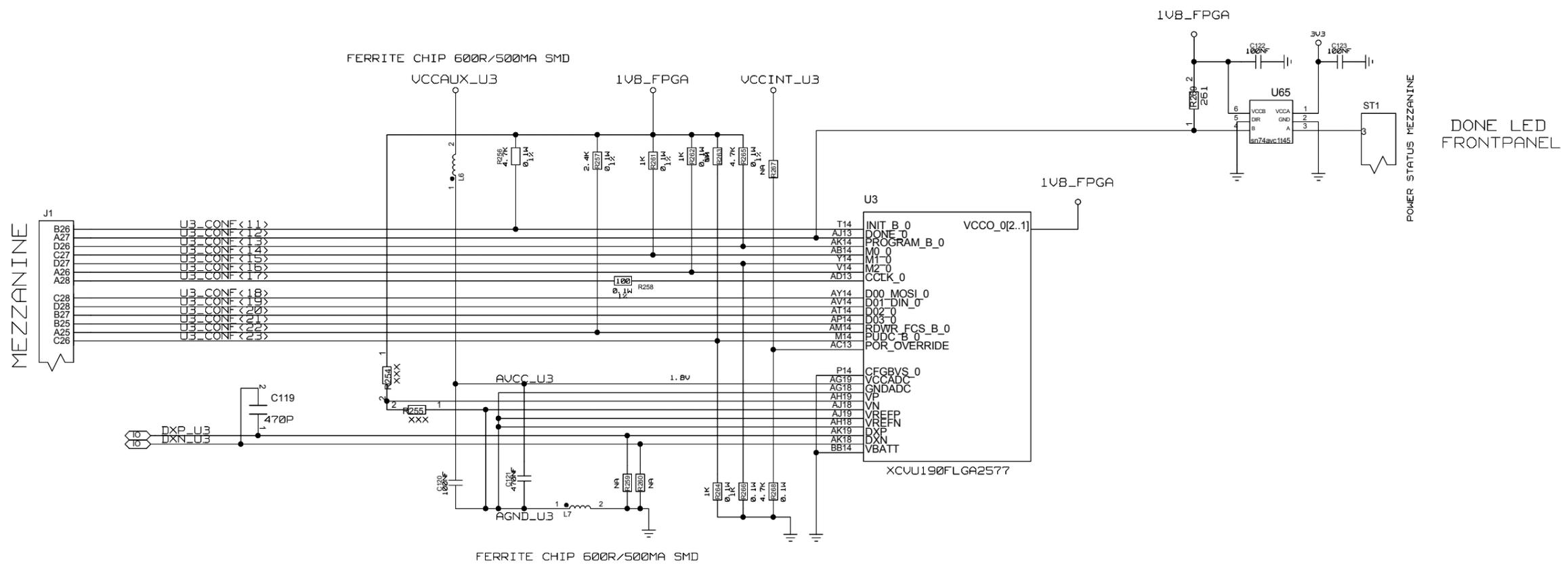
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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CHECKED	U.SCHAEFER					
CHECKED	S.RAVE					
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BLOCK TITLE						
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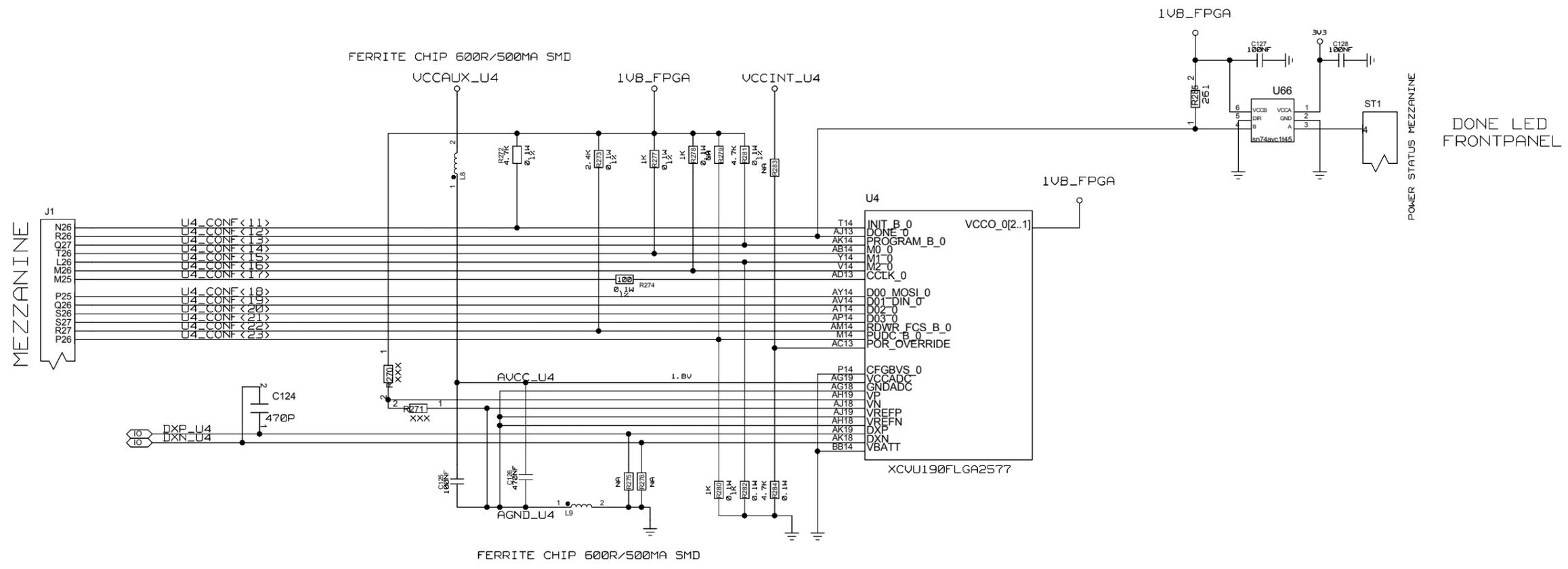


DONE LED FRONTPANEL

POWER STATUS MEZZANINE

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CHECKED	U.SCHAEFER					
CHECKED	S.RAVE					
DRAWN	BAUSS					
BLOCK TITLE						
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



MEZZANINE

DONE LED FRONTPANEL

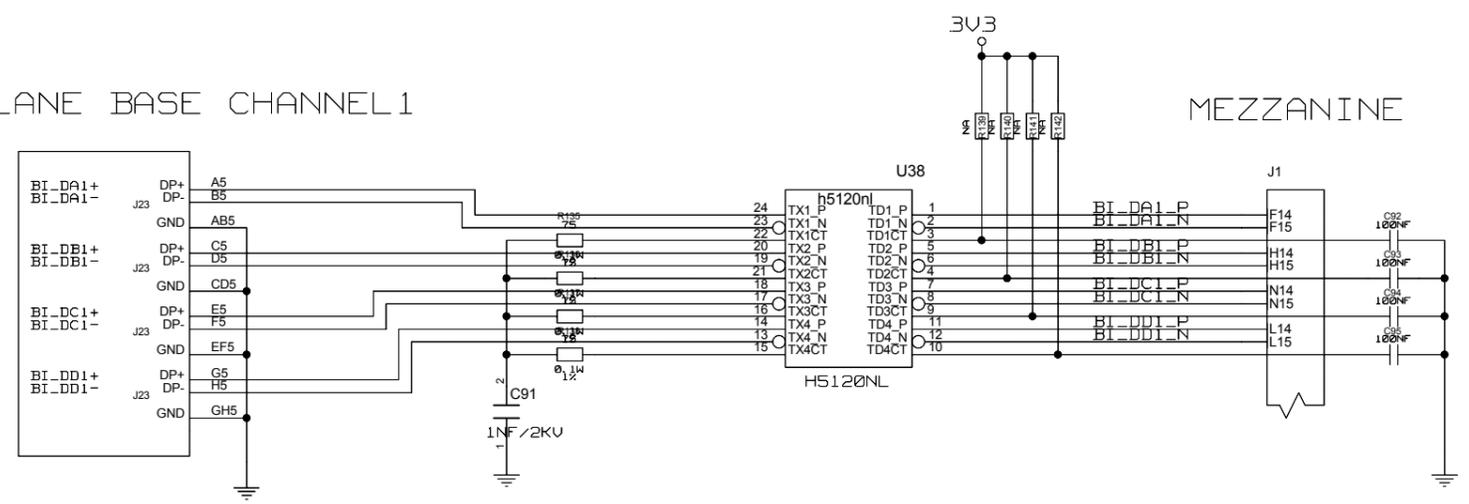
POWER STATUS MEZZANINE

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CHECKED	S.RAVE					
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ZONE	LTR	DESCRIPTION	DATE	APPR.

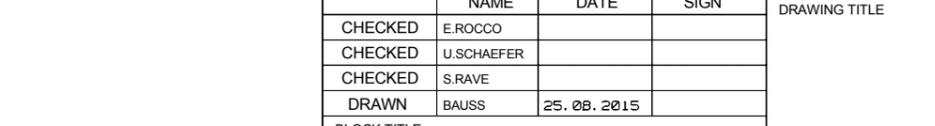
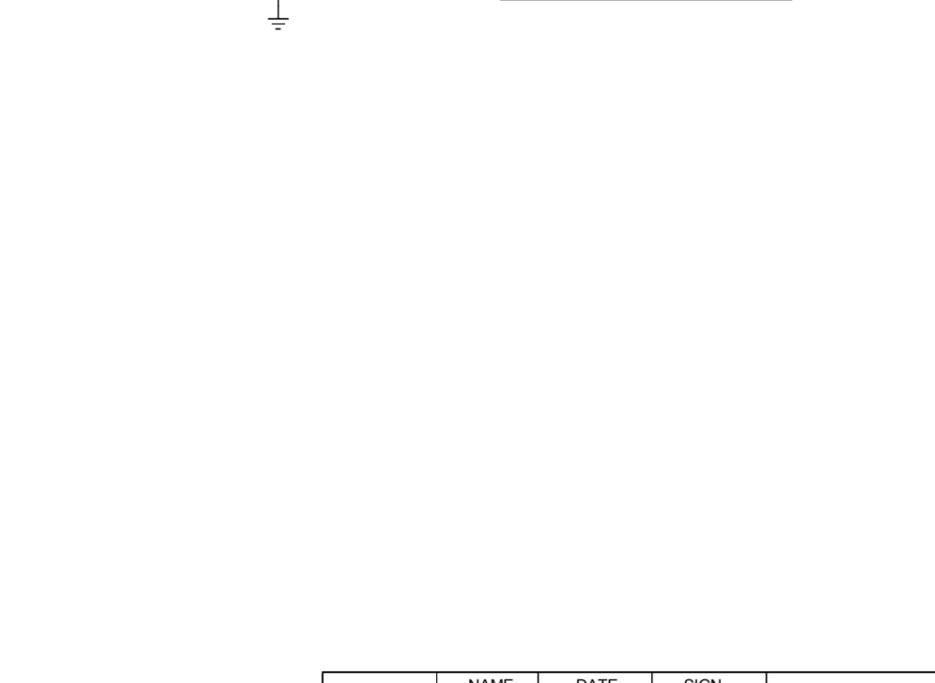
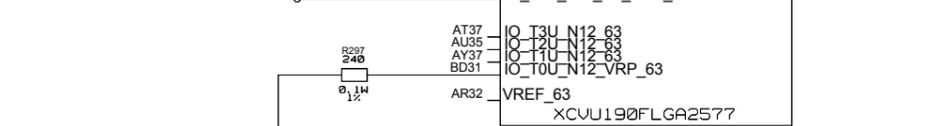
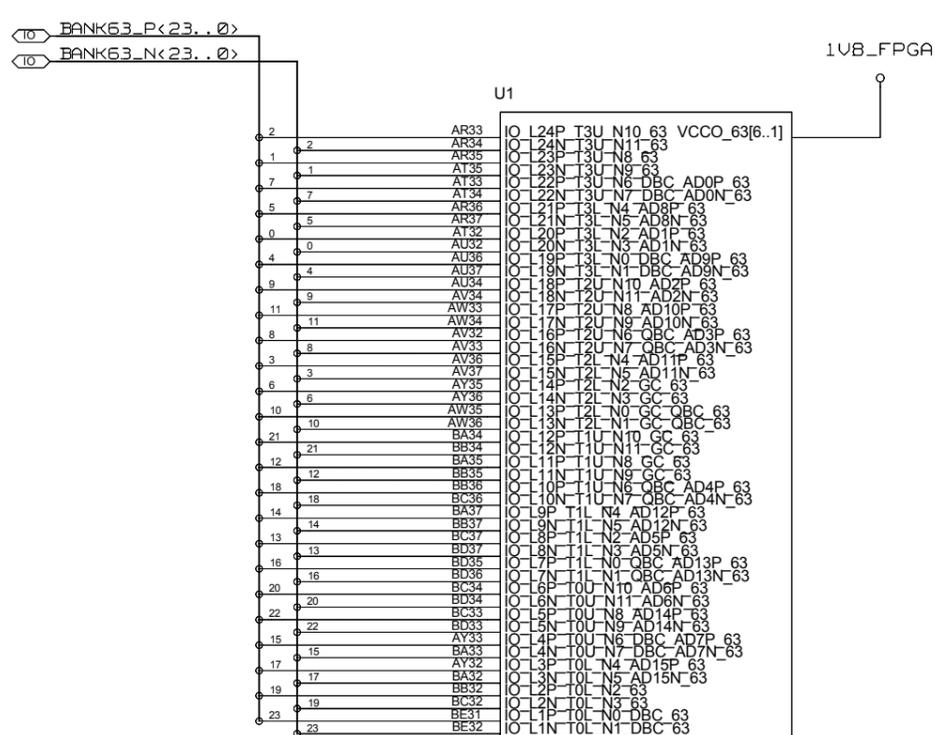
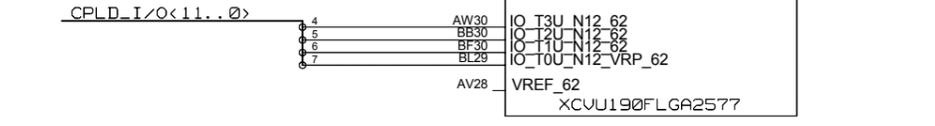
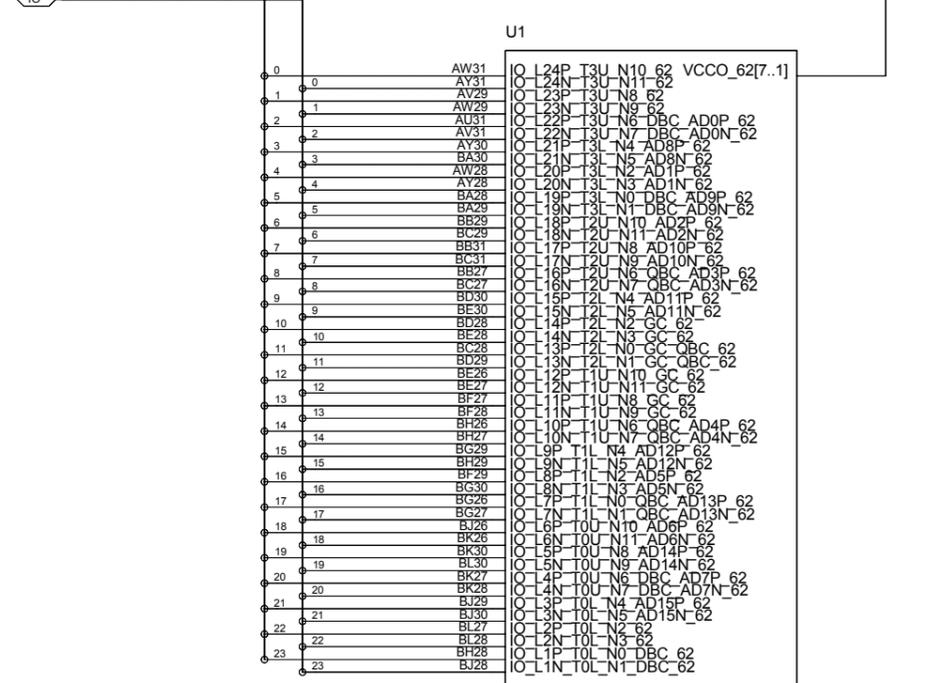
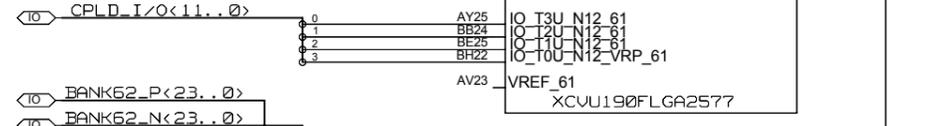
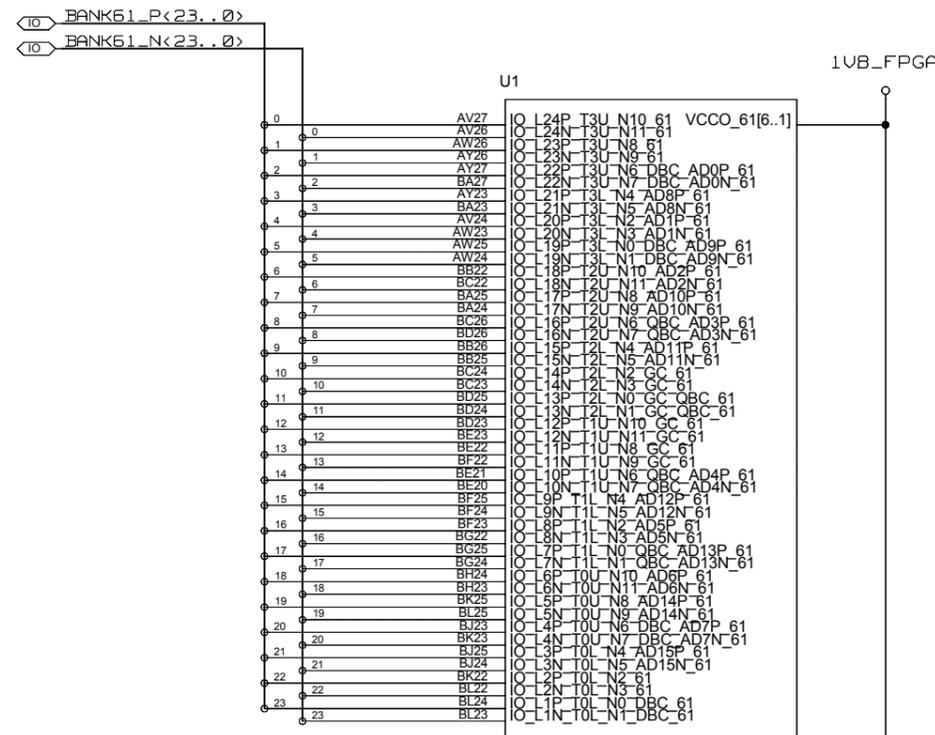
BACKPLANE BASE CHANNEL 1

MEZZANINE



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CHECKED	S.RAVE				
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					DRAWING NO.
				SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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63

CHECKED	NAME	DATE	SIGN
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	S.RAVE		
	BAUSS	25.08.2015	

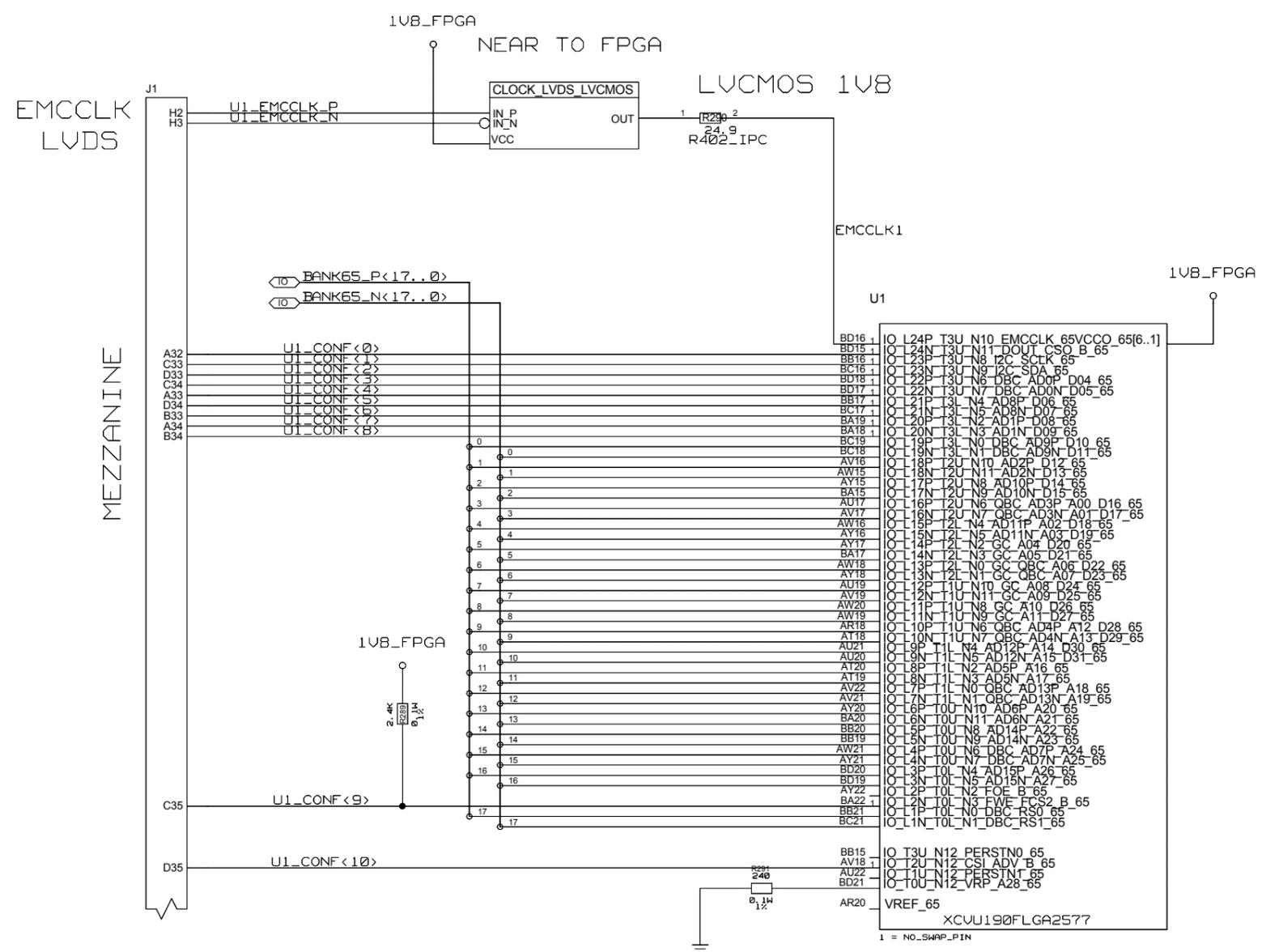
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JFEX

BLOCK TITLE
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UNIVERSITY OF MAINZ	SIZE C	REV.	DRAWING NO.
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SHEET 1 of 5

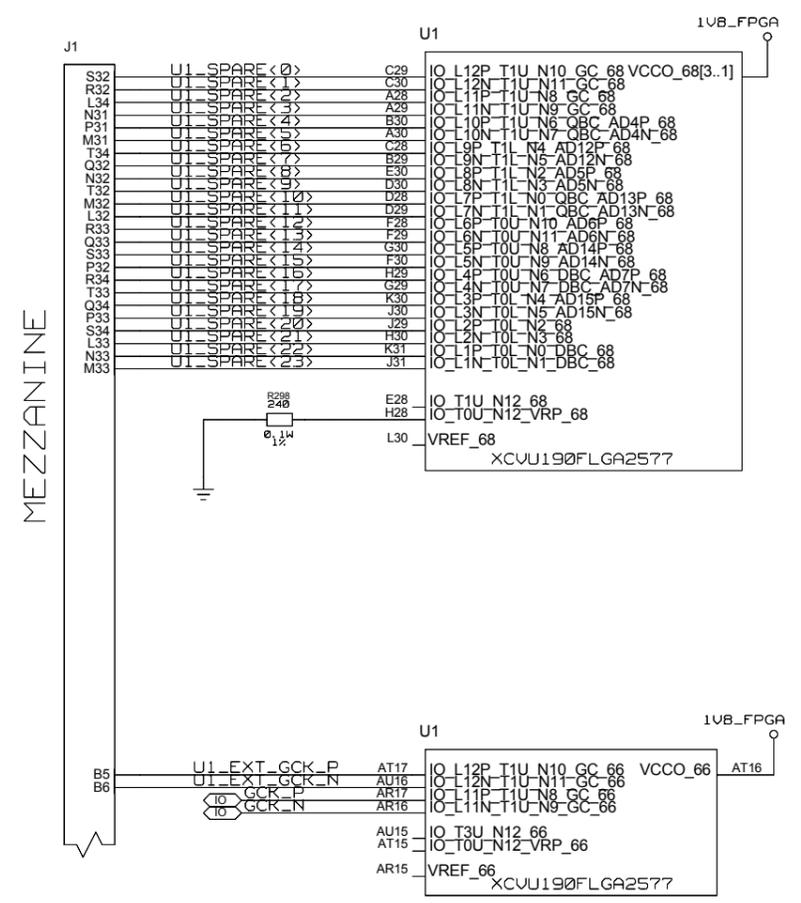
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ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
65

CHECKED	NAME	DATE	SIGN	DRAWING TITLE JFEX
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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	25.08.2015		
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UNIVERSITY OF MAINZ				DRAWING NO.
SCALE				SHEET 2 OF 5

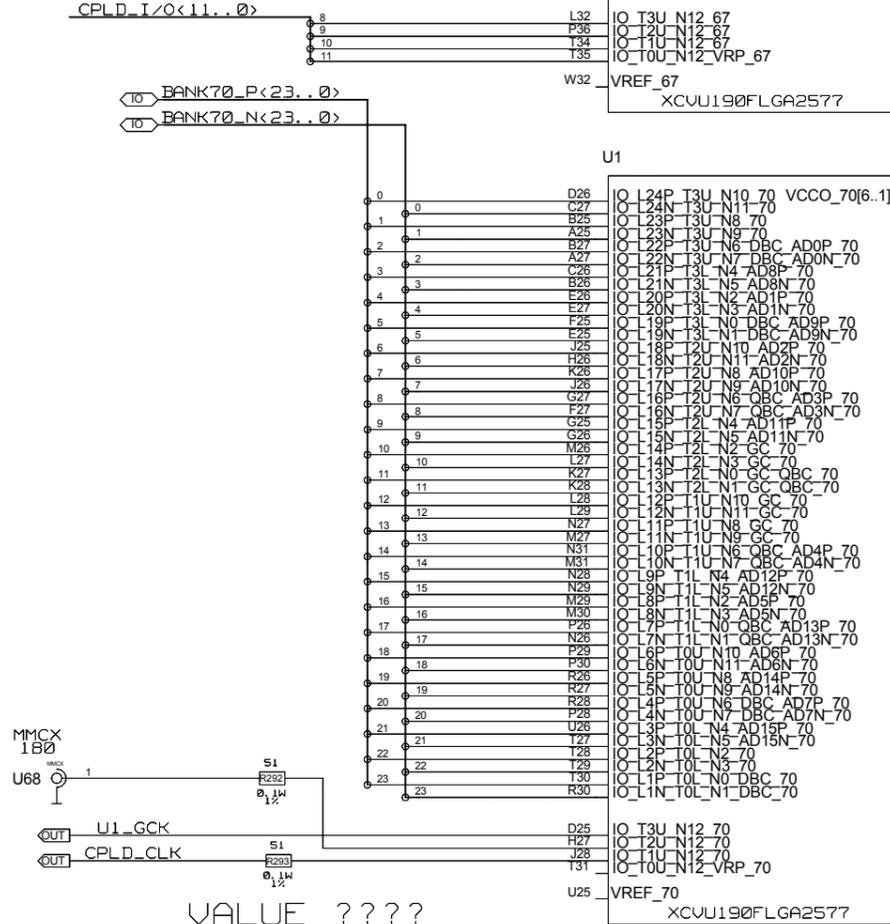
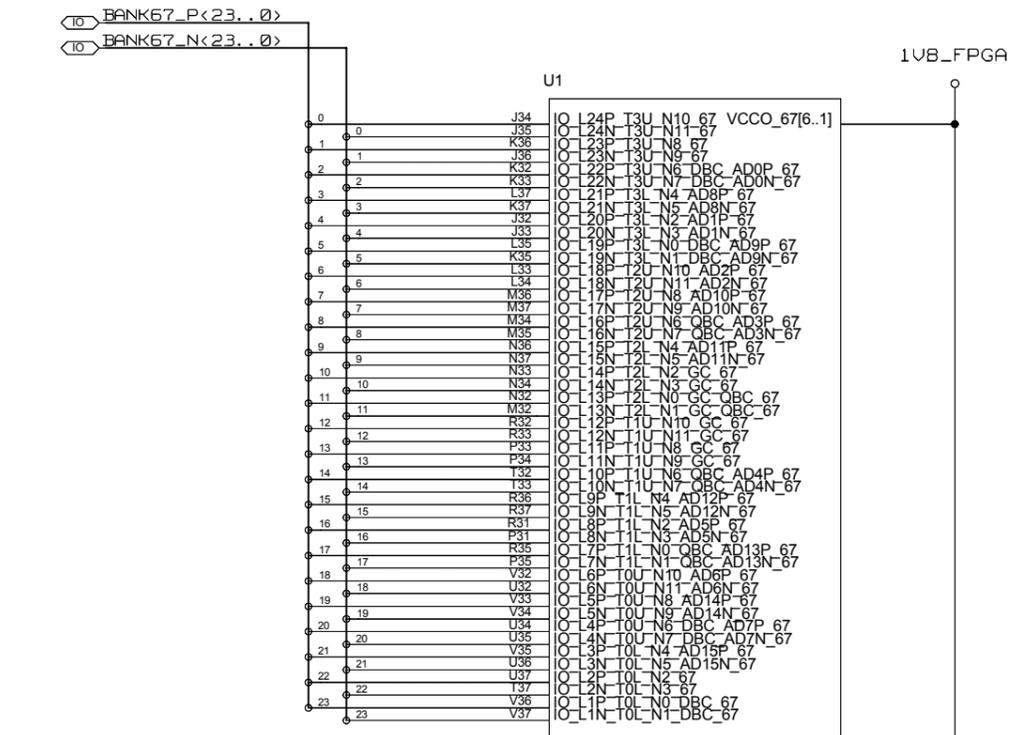
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68

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	S.RAVE					
	BAUSS	25.08.2015				
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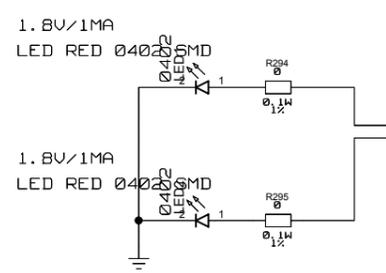
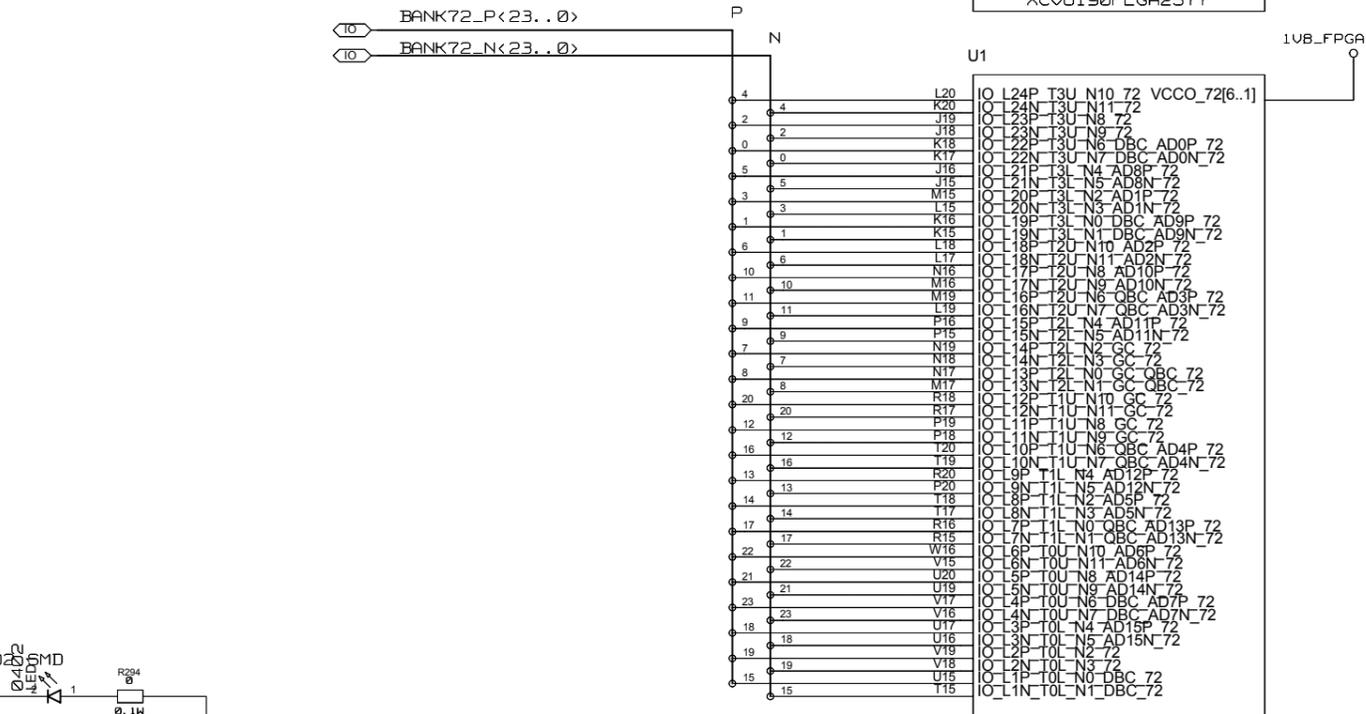
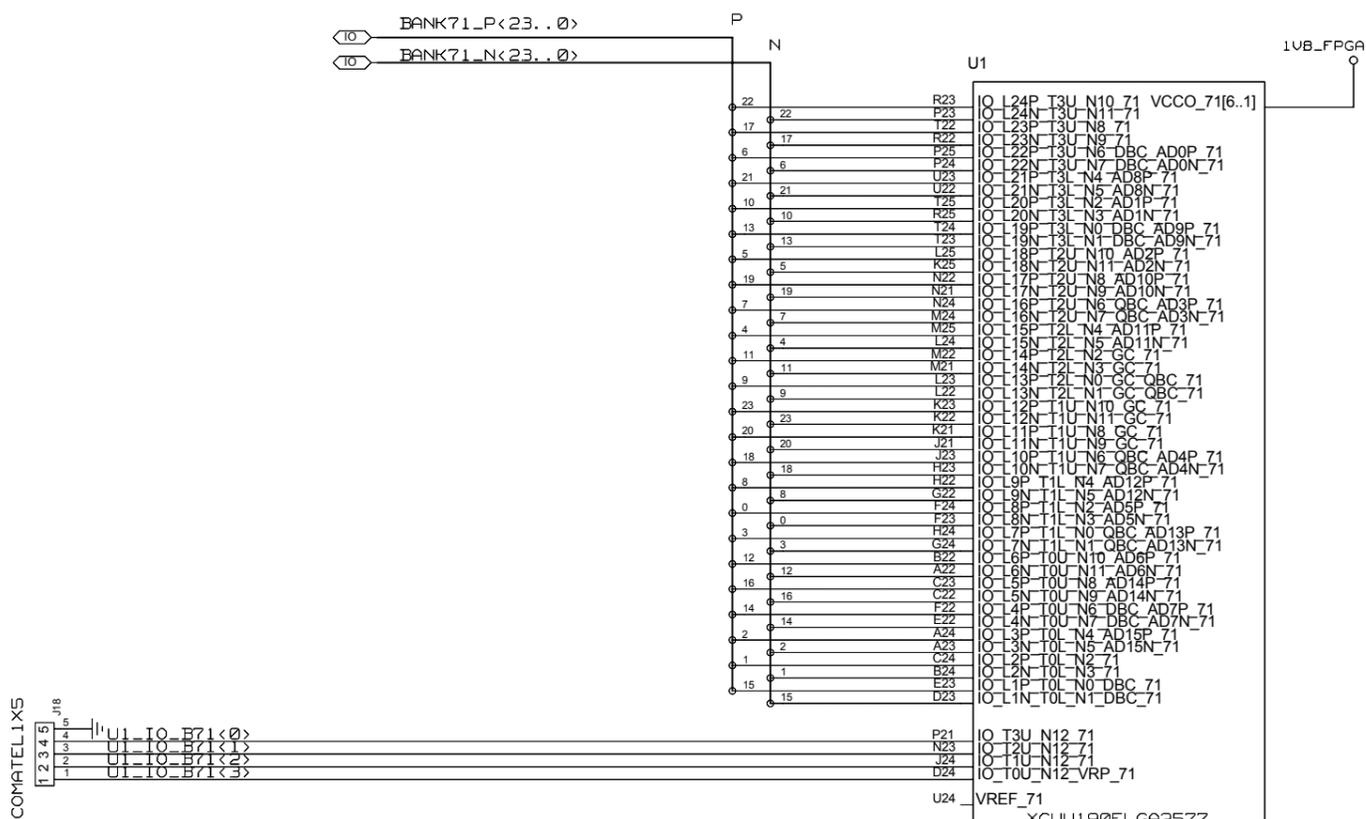
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ZONE	LTR	DESCRIPTION	DATE	APPR.



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70

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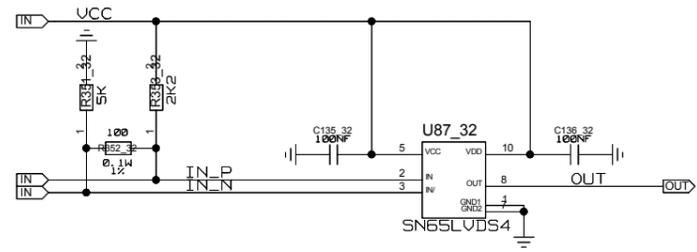
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72

NAME	DATE	SIGN	DRAWING TITLE	
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CHECKED U.SCHAEFER				
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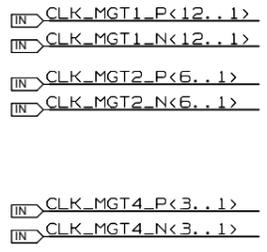
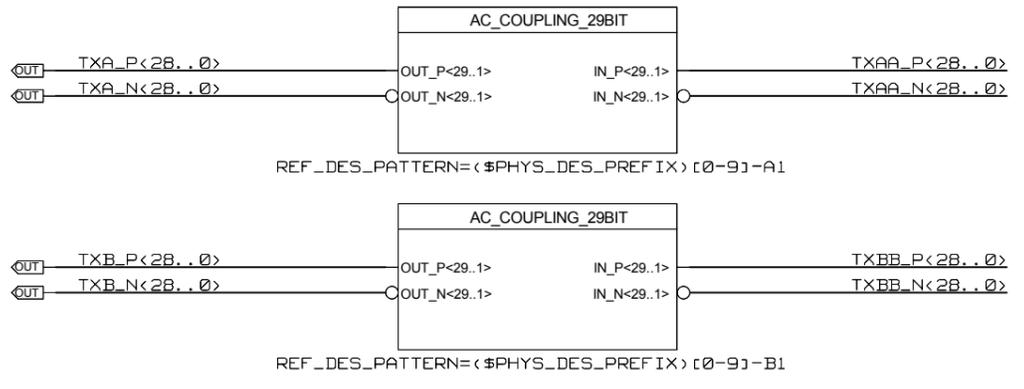
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CHECKED	S.RAVE				
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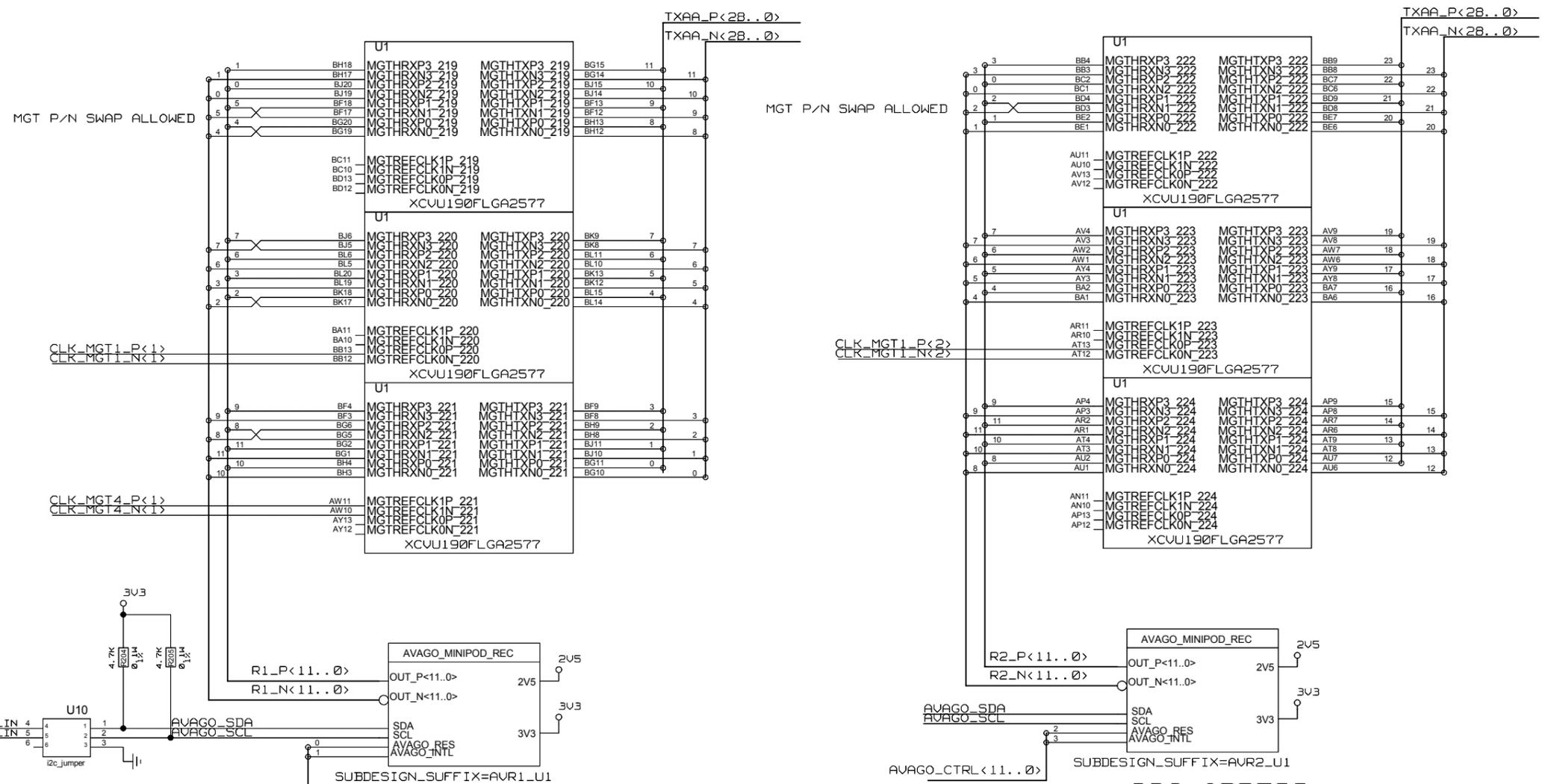
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AC COUPLING



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CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS	07.08.2015			
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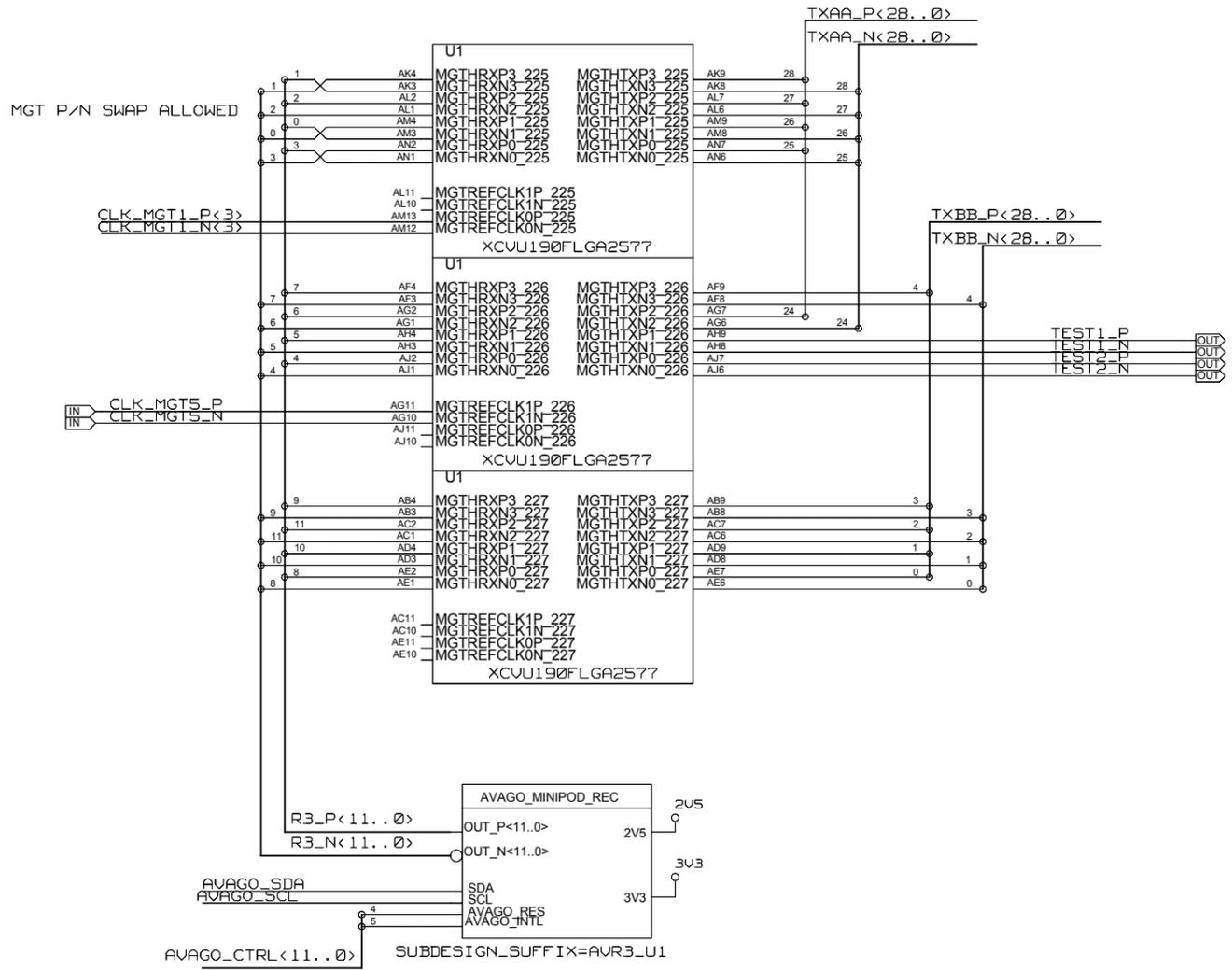
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ZONE	LTR	DESCRIPTION	DATE	APPR.



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CHECKED U.SCHAEFER																
CHECKED S.RAVE																
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SIZE	REV.	DRAWING NO.														
C																
<p>UNIVERSITY OF MAINZ</p>	<p>SHEET 2 OF 7</p>															

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

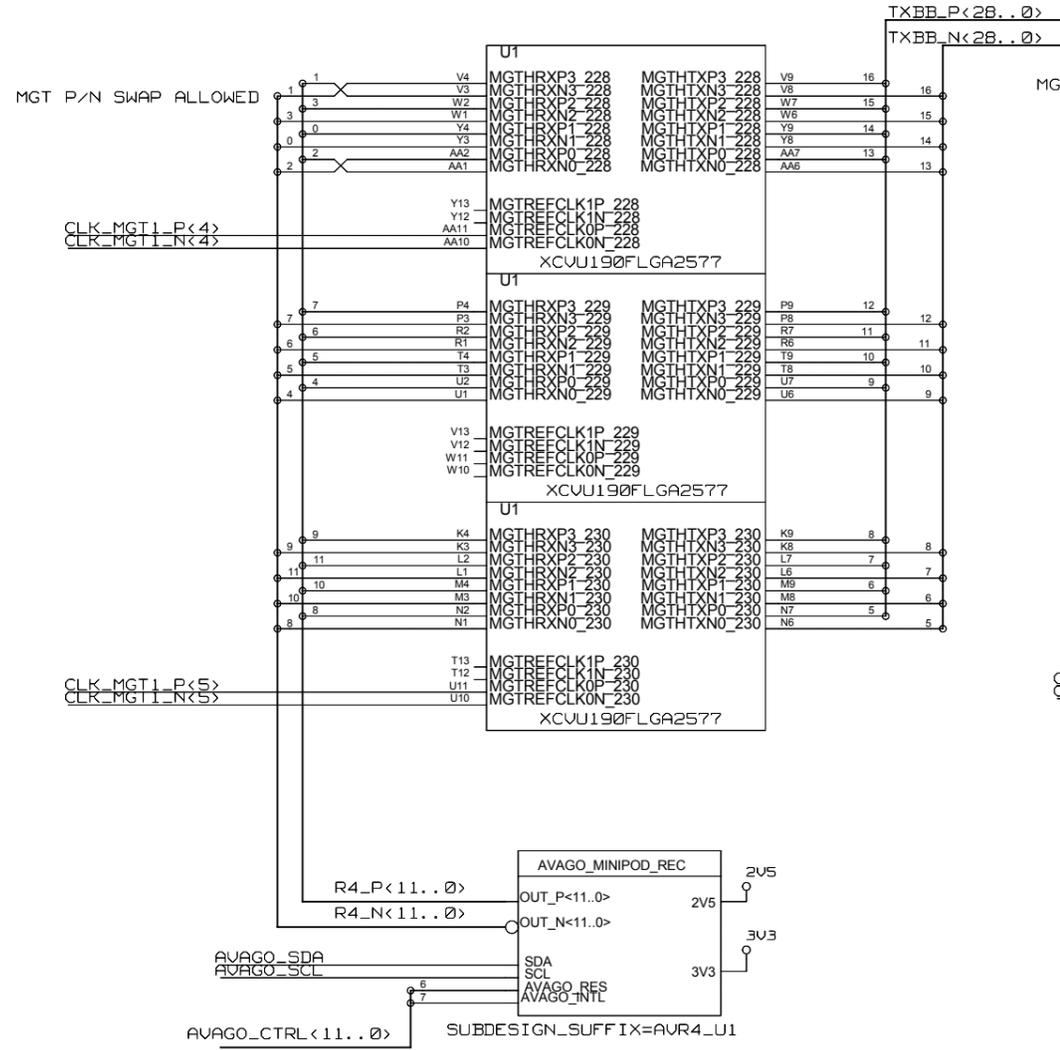


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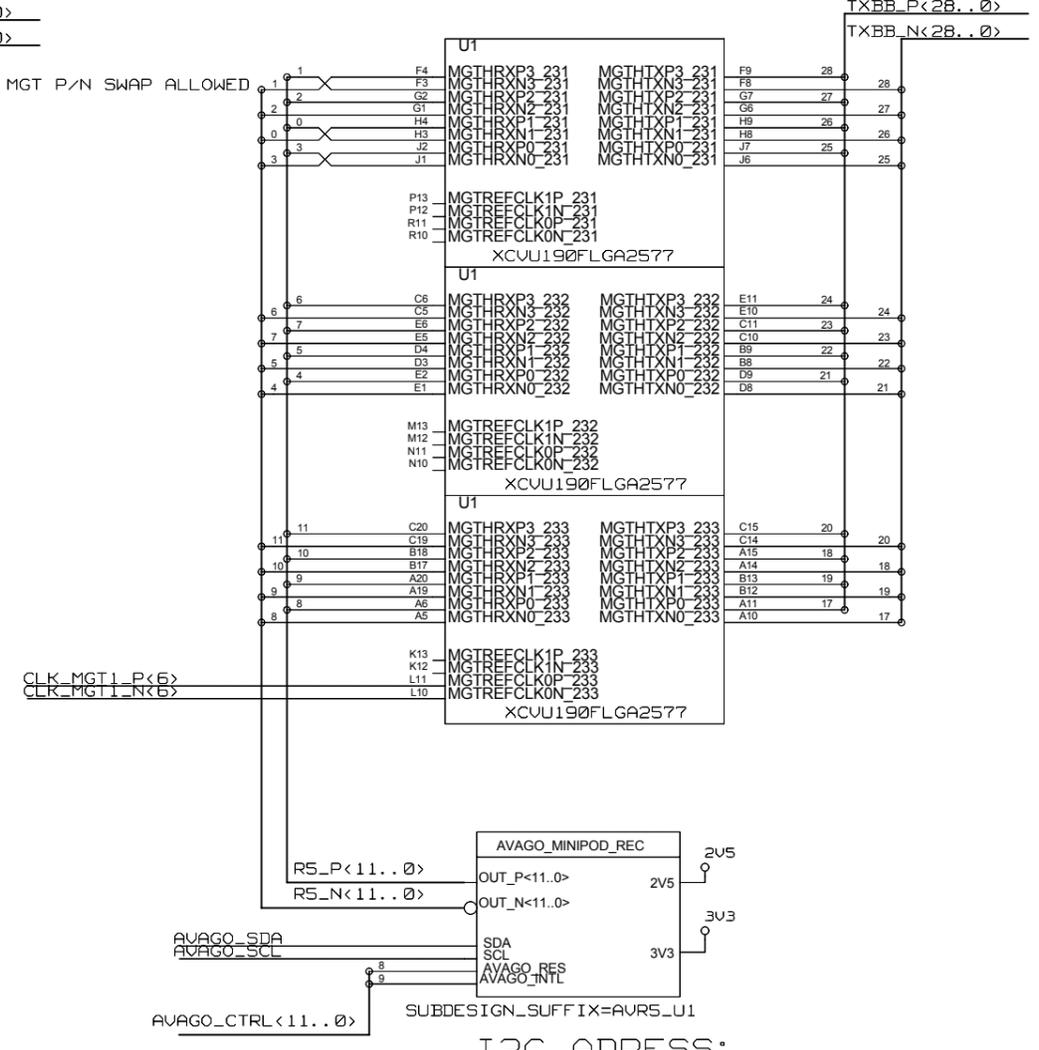
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SCALE				DRAWING NO.
SHEET 3 of 7				

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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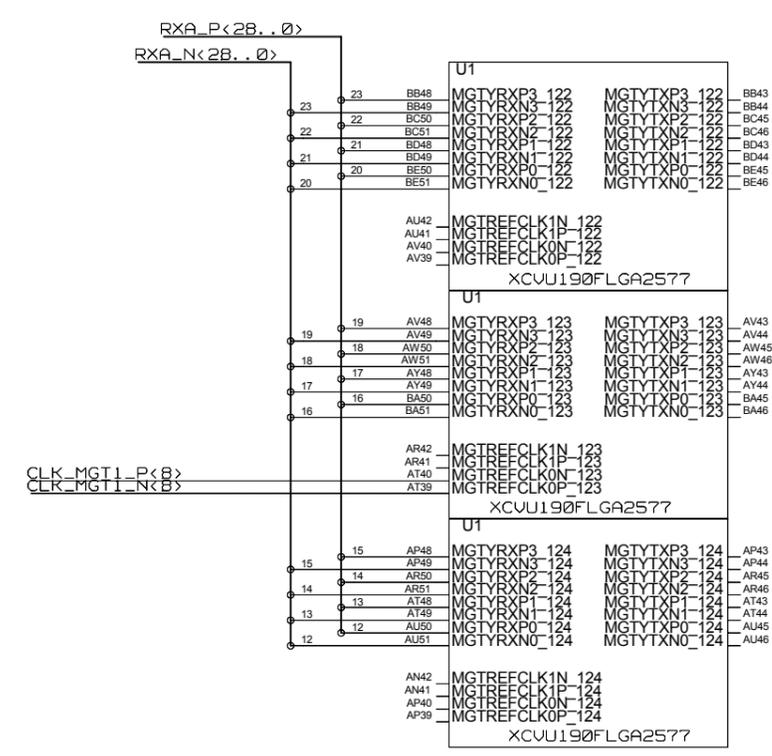
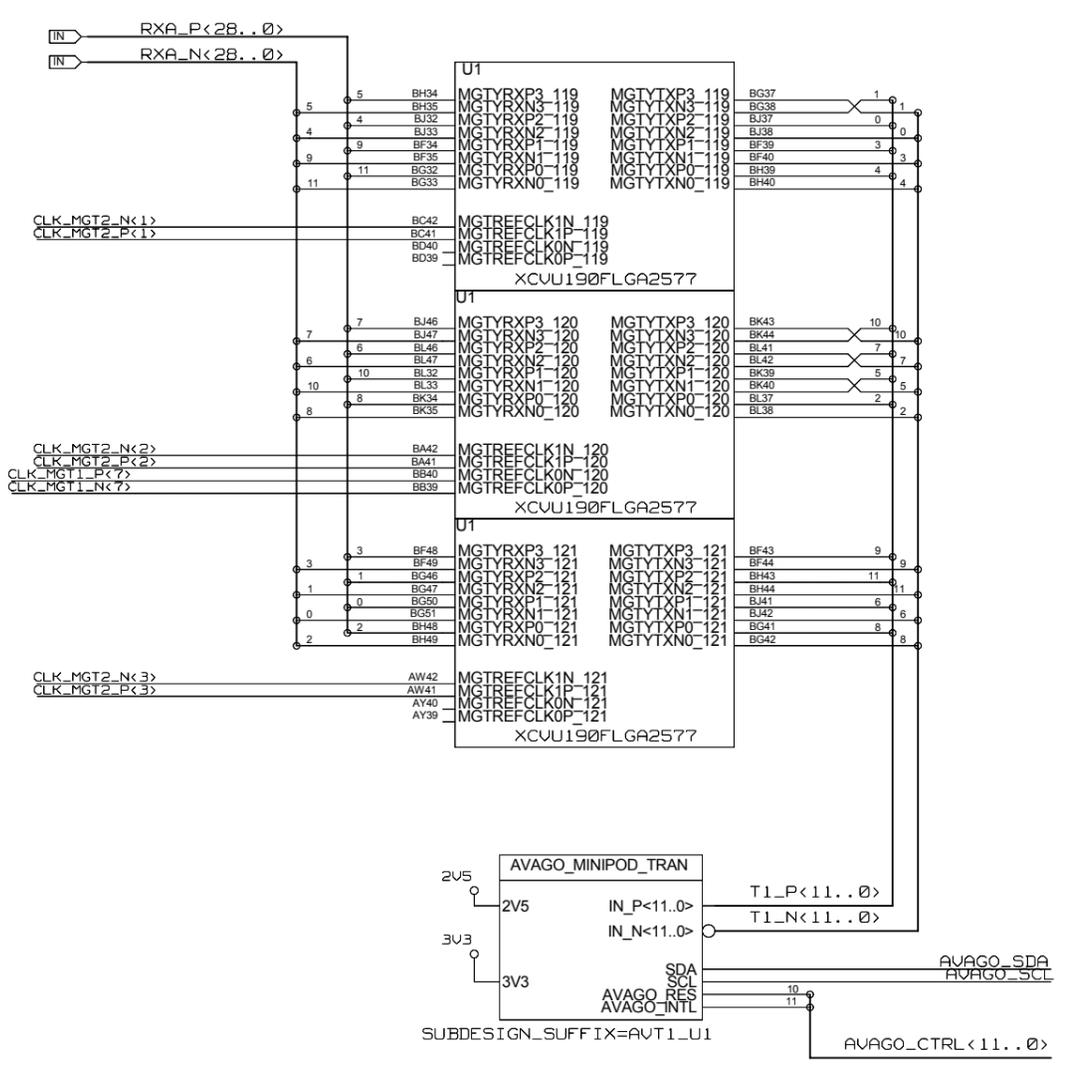
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CHECKED	S.RAVE					
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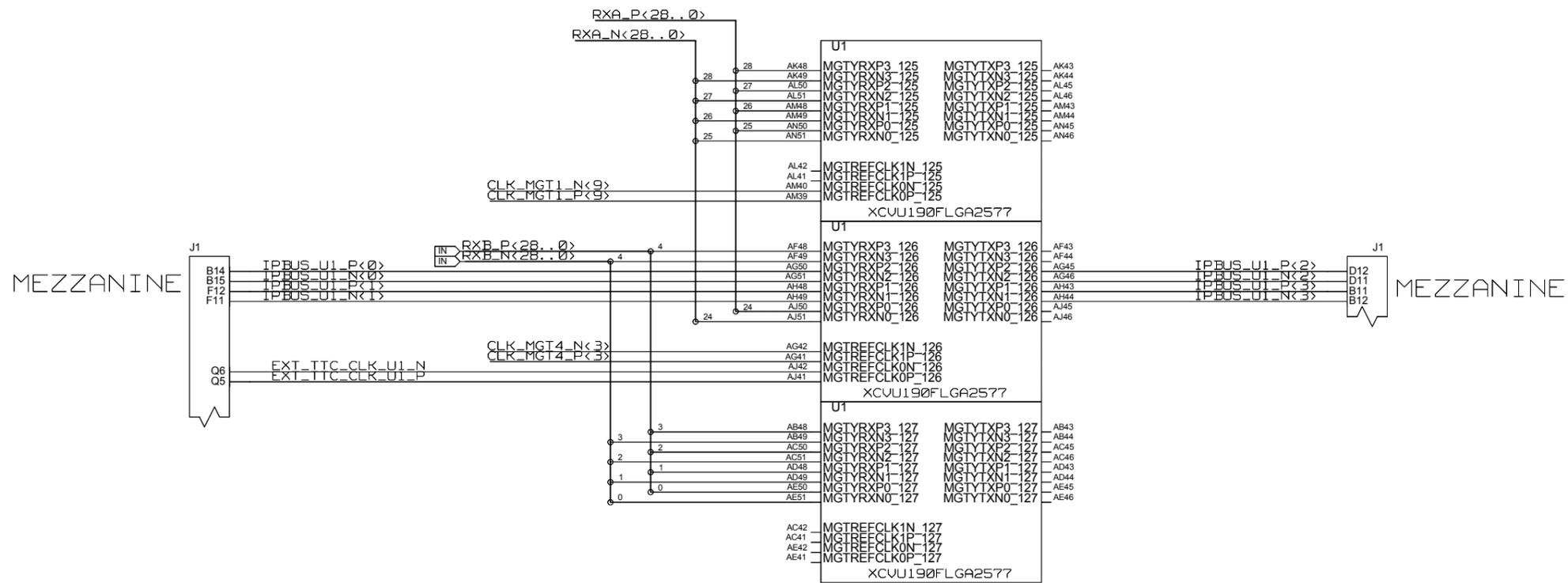


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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
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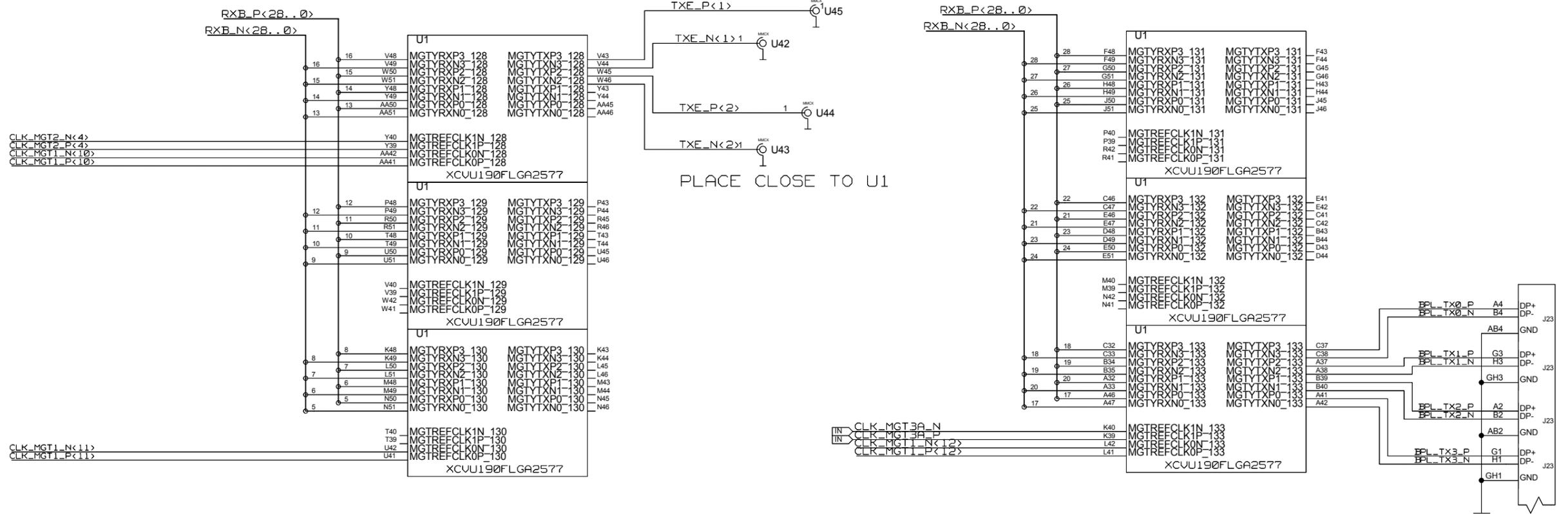
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CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
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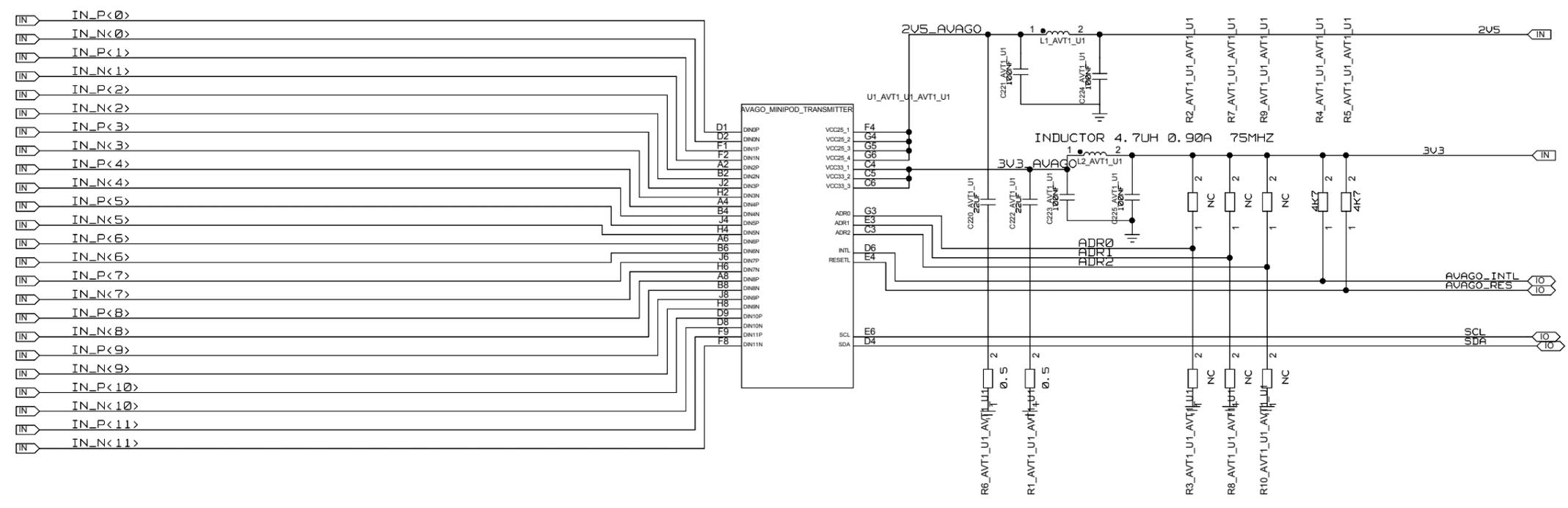
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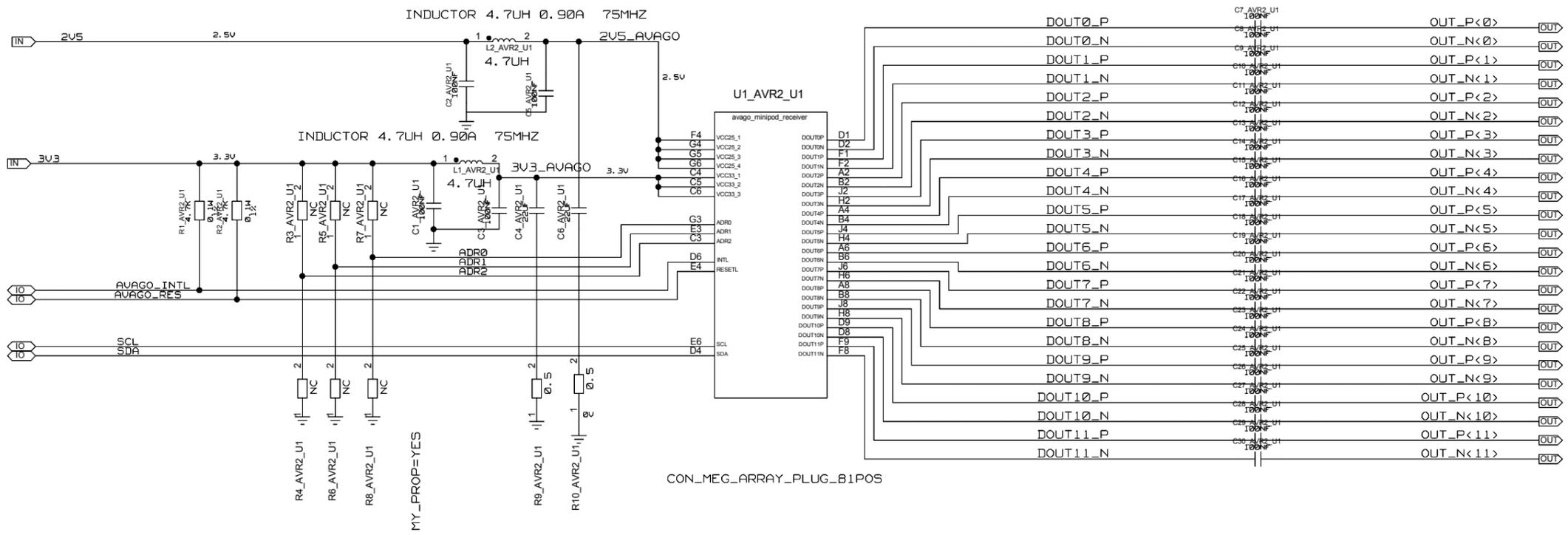
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SCALE				SHEET 7 OF 7

REVISIONS				
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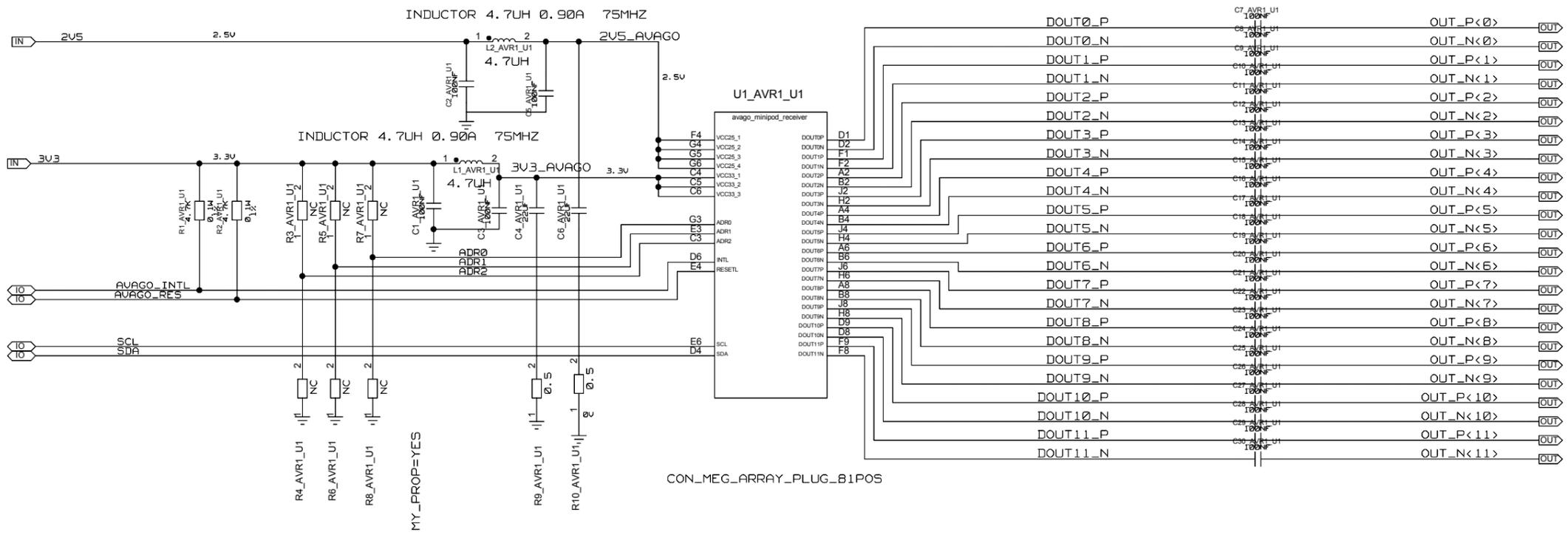
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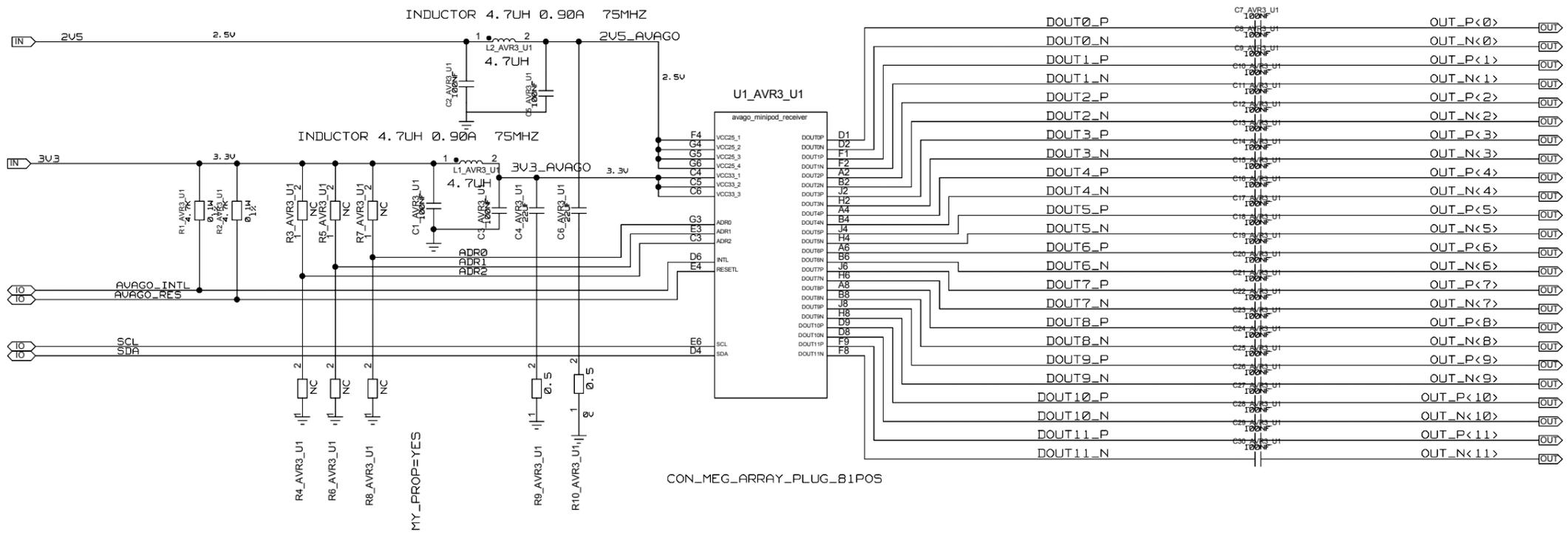
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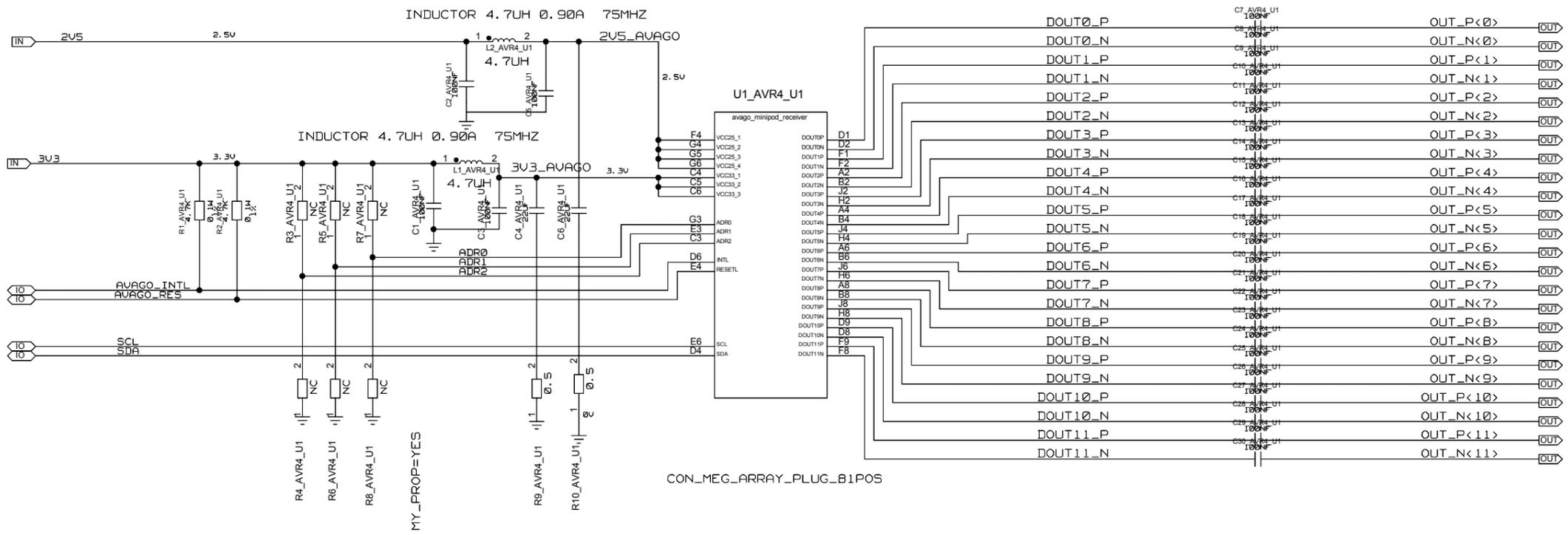
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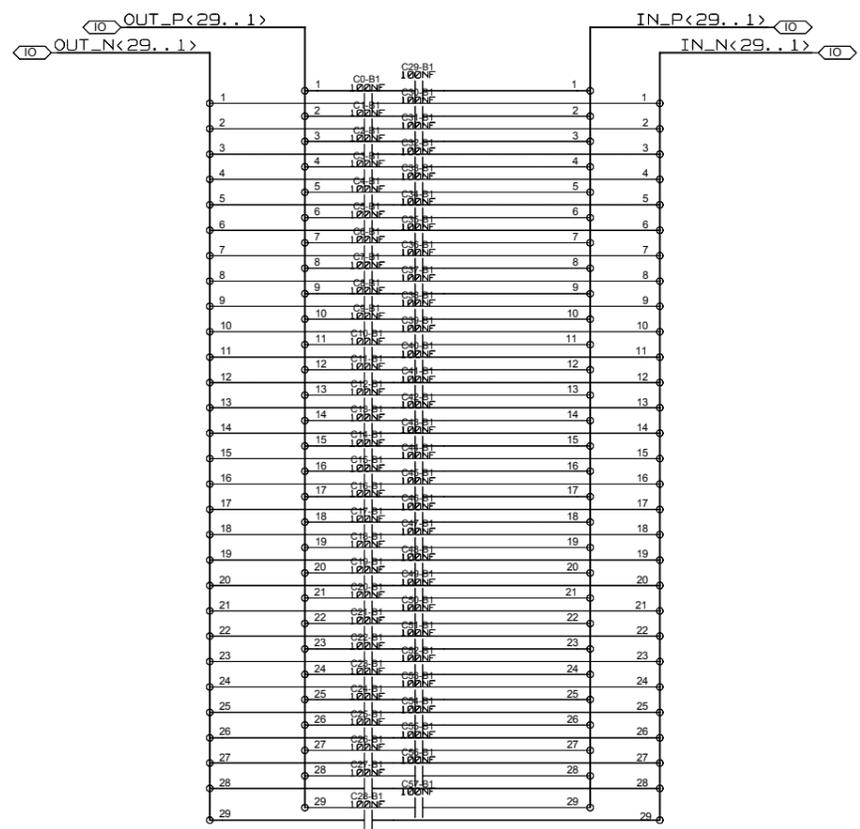
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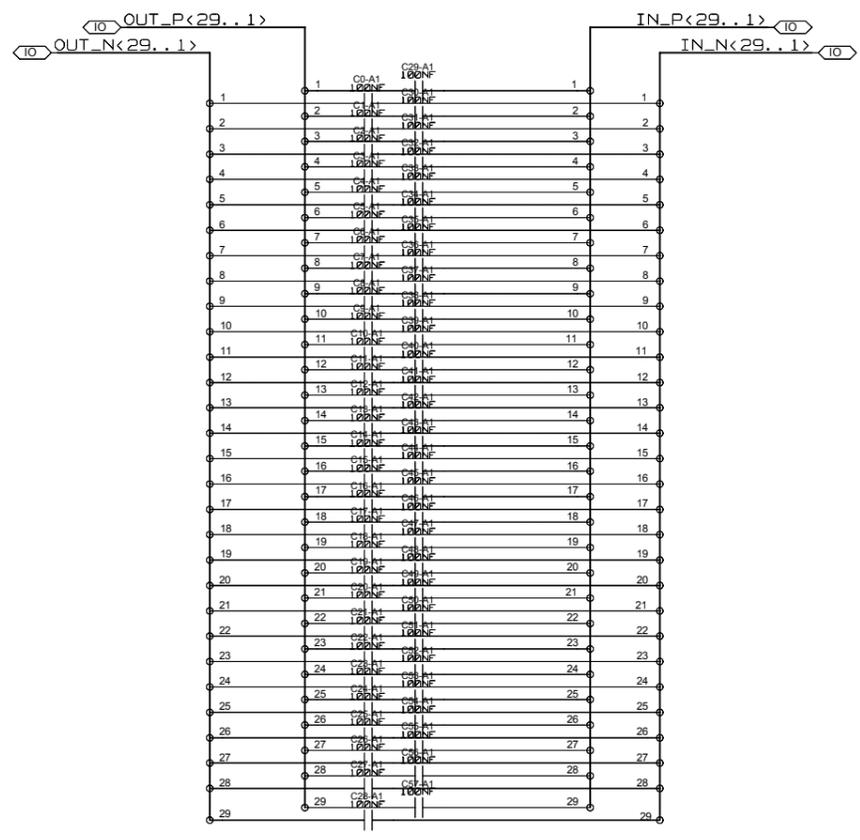
UNIVERSITY OF MAINZ		DRAWING TITLE	
		AVAGO RECEIVER	
SIZE C	REV.	DRAWING NO.	
SCALE			SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



CHECKED	NAME	DATE	SIGN	DRAWING TITLE AC COUPLING 29BIT
CHECKED	E.ROCCO			
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE				SIZE C
UNIVERSITY OF MAINZ				REV.
				DRAWING NO.
SCALE			SHEET	OF

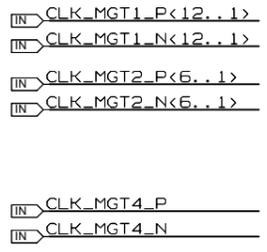
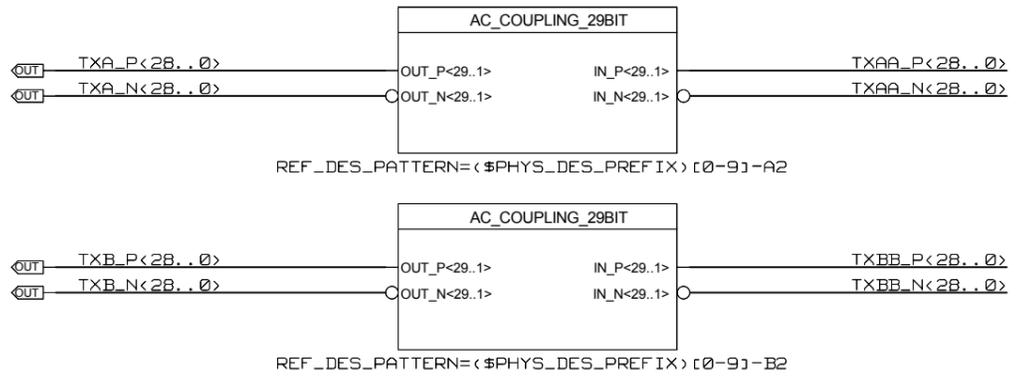
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



CHECKED	E.ROCCO	DATE	SIGN	DRAWING TITLE AC COUPLING 29BIT		
CHECKED	U.SCHAEFER					
CHECKED	S.RAVE					
DRAWN	BAUSS					
BLOCK TITLE						
UNIVERSITY OF MAINZ				SIZE C	REV.	DRAWING NO.
				SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

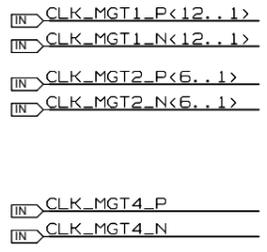
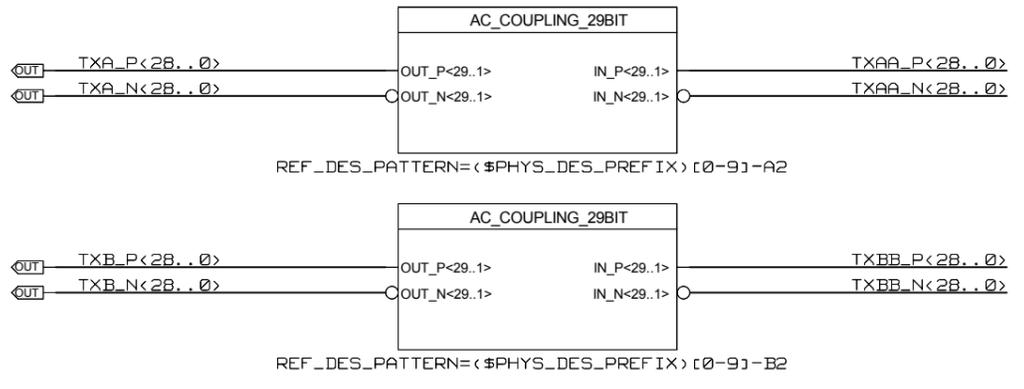
AC COUPLING



	NAME	DATE	SIGN	DRAWING TITLE		
CHECKED	E.ROCCO			I/O + AC COUPLING		
CHECKED	U.SCHAEFER					
CHECKED	S.RAVE					
DRAWN	BAUSS	07.08.2015				
BLOCK TITLE				SIZE	REV.	DRAWING NO.
U1_MGT_REAL_TIME				C		
UNIVERSITY OF MAINZ				SCALE		SHEET 1 of 7

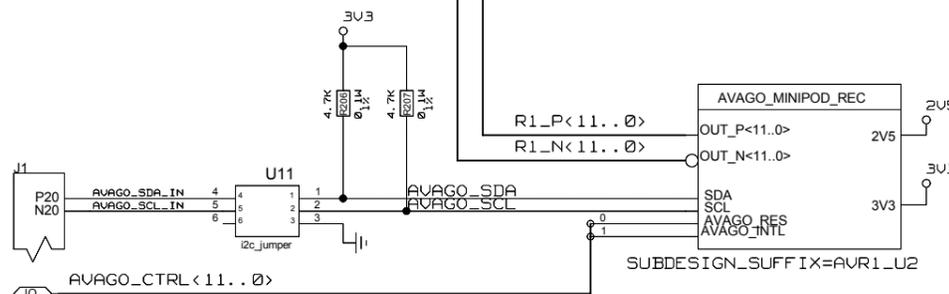
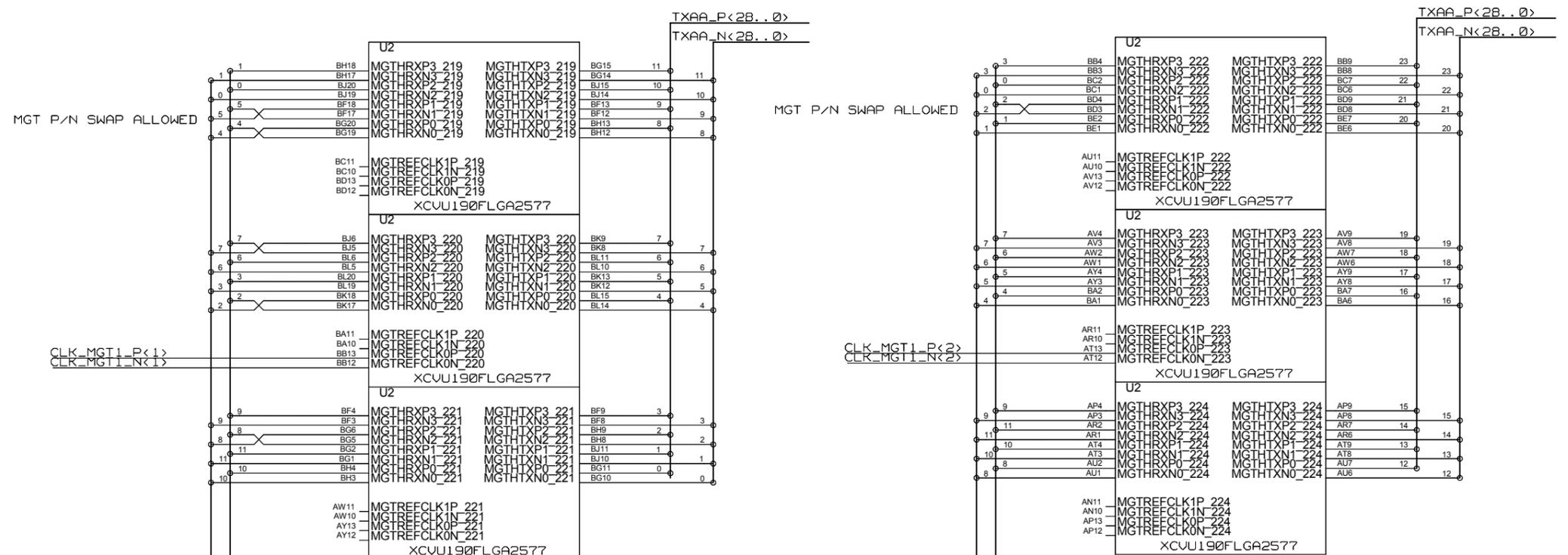
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

AC COUPLING



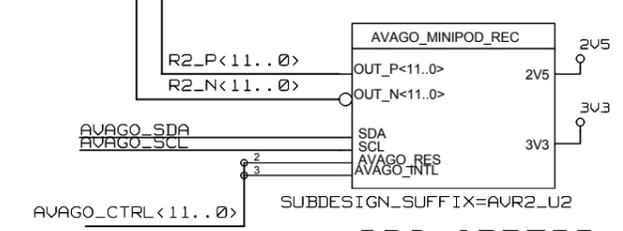
	NAME	DATE	SIGN	DRAWING TITLE	
CHECKED	E.ROCCO			I/O + AC COUPLING	
CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS	07.08.2015		BLOCK TITLE	
UNIVERSITY OF MAINZ				SIZE	DRAWING NO.
				C	
				SCALE	
				SHEET 1 of 7	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



AVAGO_CTRL<11..0>
 AVAGO_CTRL 0, 2, 4, 6, 8, 10 = AVAGO_RES_XX
 AVAGO_CTRL 1, 3, 5, 7, 9, 11 = AVAGO_INTL_XX

I2C ADDRESS:
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 R5=XXX R6=XXX
 R7=XXX R8=XXX

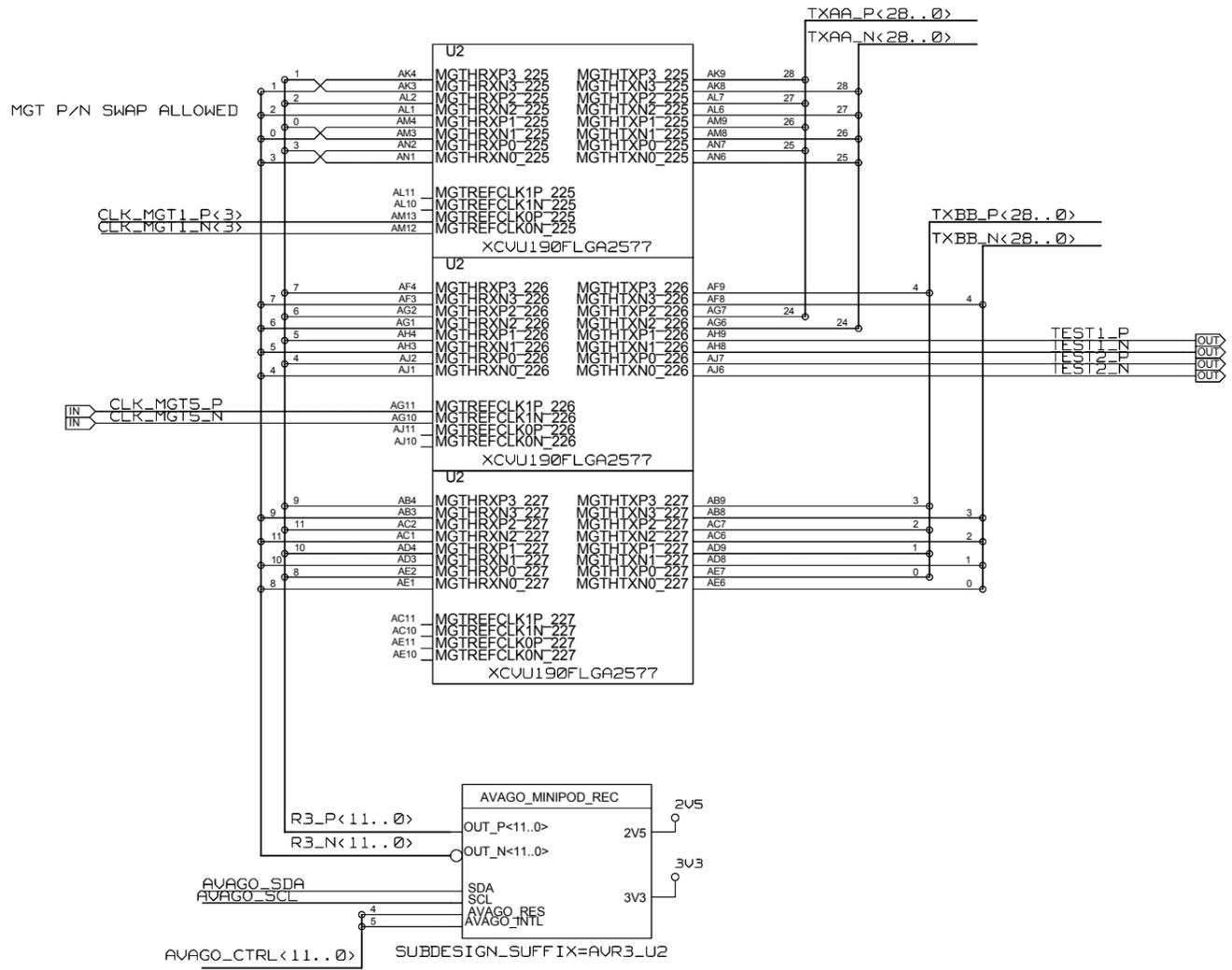


I2C ADDRESS:
 R3=XXX R4=XXX
 R5=XXX R6=XXX
 R7=XXX R8=XXX

BANK
 219
 220
 221
 222
 223
 224

NAME	DATE	SIGN	DRAWING TITLE		
CHECKED E.ROCCO			AVAGO TXA		
CHECKED U.SCHAEFER					
CHECKED S.RAVE					
DRAWN BAUSS	07.08.2015				
BLOCK TITLE			SIZE	REV.	DRAWING NO.
UNIVERSITY OF MAINZ			C		
			SCALE		SHEET 2 OF 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

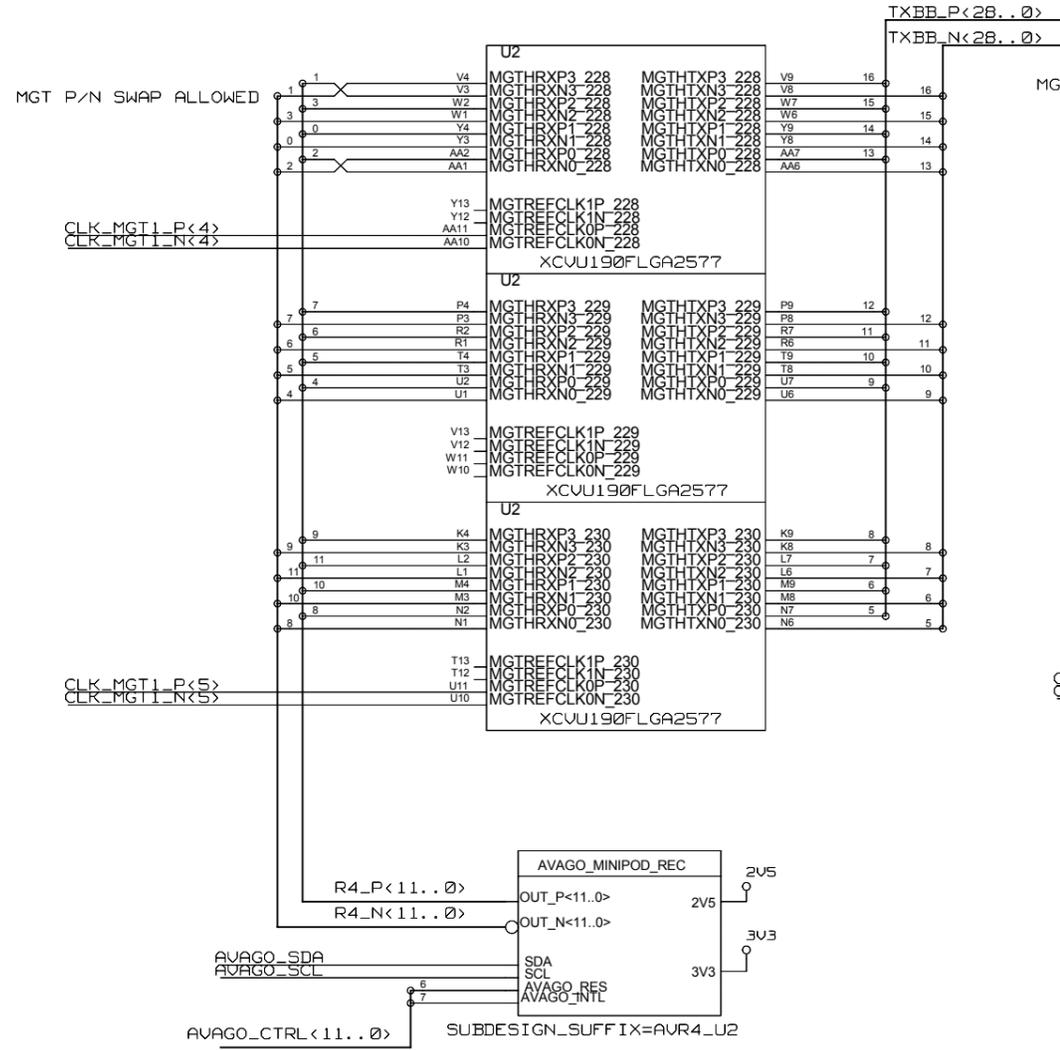


I2C ADDRESS:
R3=XXX R4=XXX
R5=XXX R6=XXX
R7=XXX R8=XXX

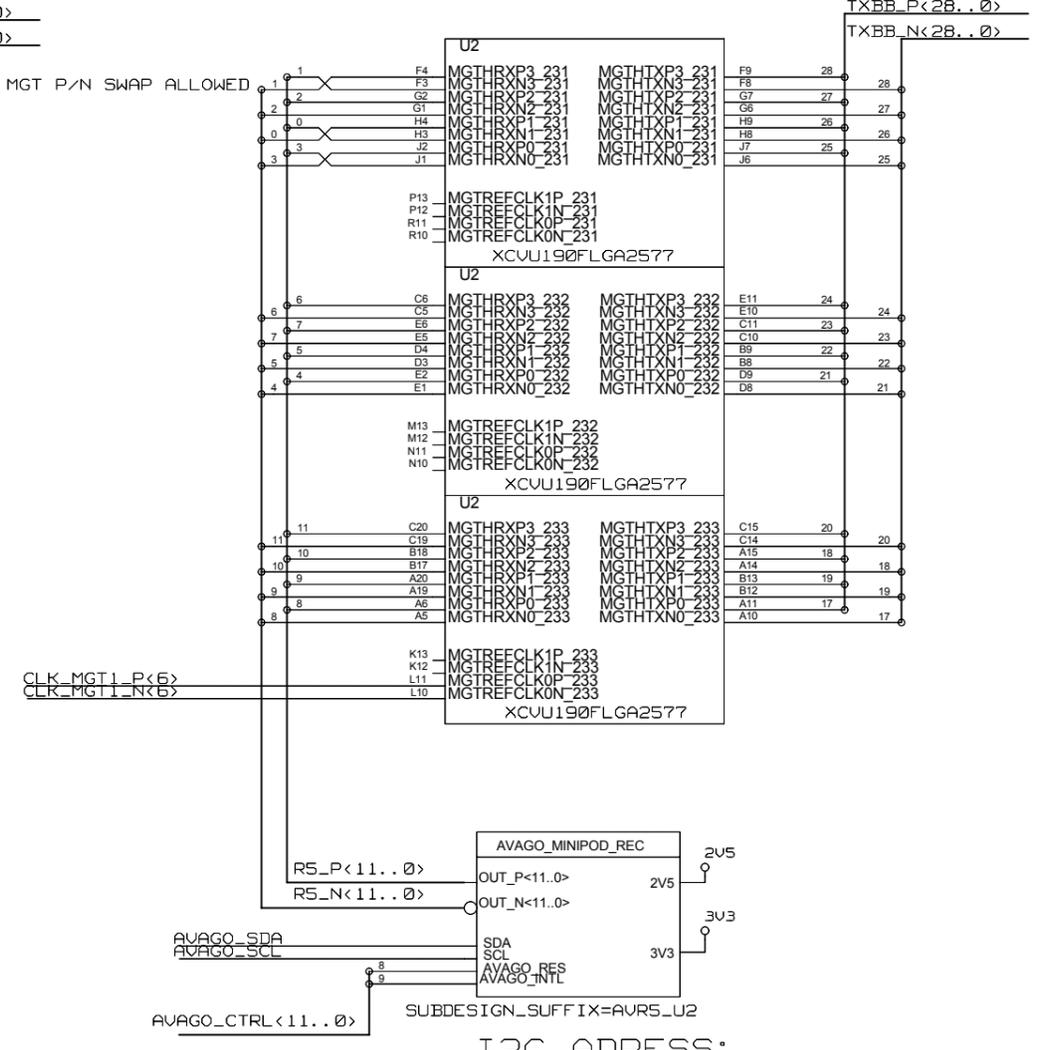
BANK
225
226
227

CHECKED	E.ROCCO			DRAWING TITLE AVAGO TXA + TXB
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U3_MGT_REAL_TIME				
UNIVERSITY OF MAINZ				
SIZE C	REV.	DRAWING NO.		
SCALE				SHEET 3 of 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



I2C ADDRESS:
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R5=XXX R6=XXX
R7=XXX R8=XXX

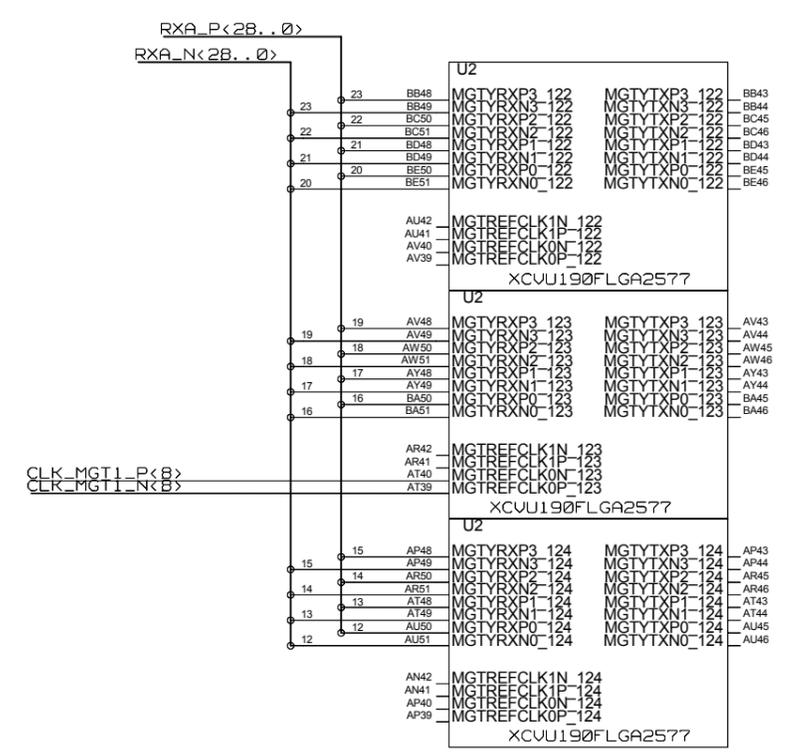
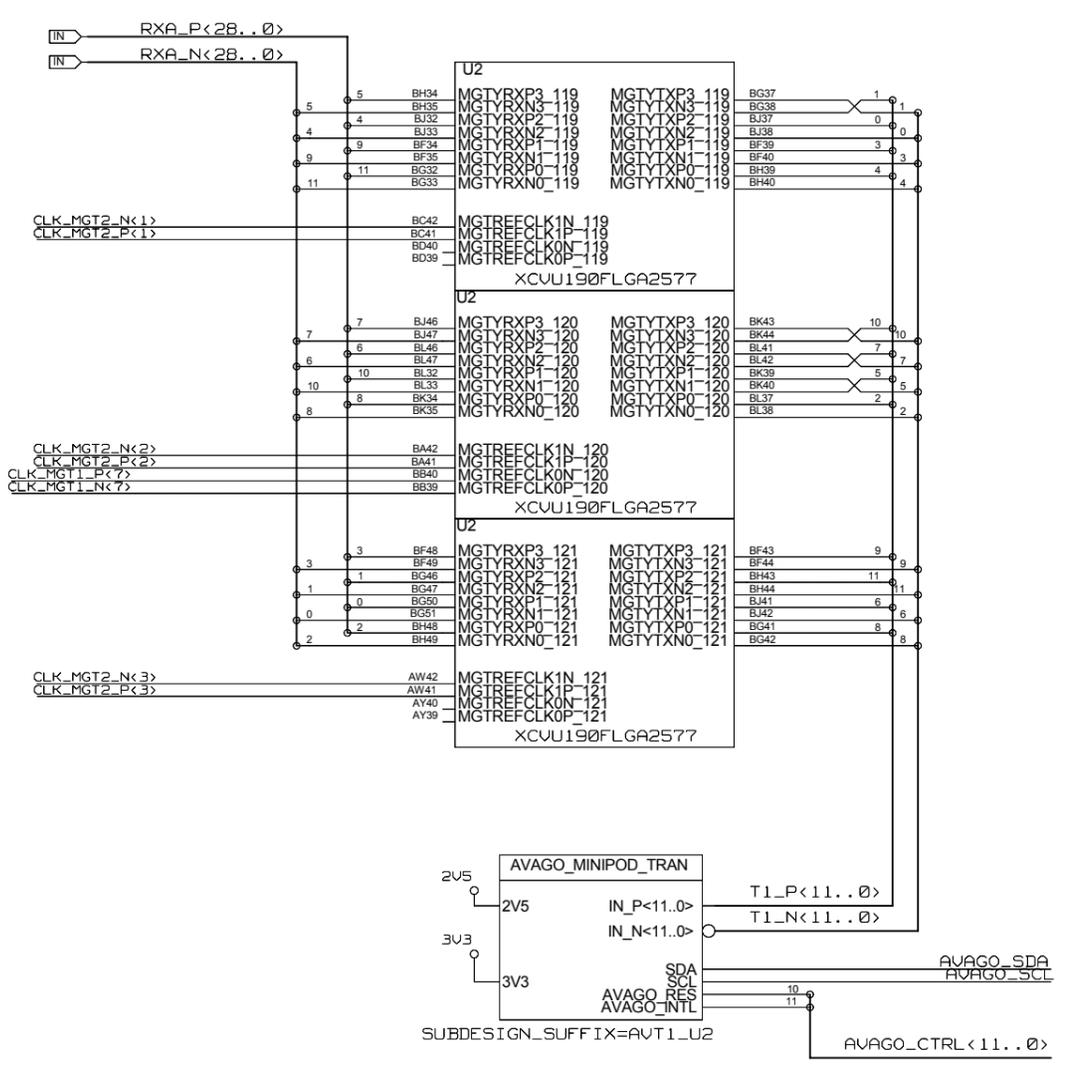


I2C ADDRESS:
R3=XXX R4=XXX
R5=XXX R6=XXX
R7=XXX R8=XXX

BANK
2280
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CHECKED	NAME	DATE	SIGN	DRAWING TITLE AVAGO TXB
CHECKED	E.ROCCO			
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U2_MGT_REAL_TIME				SIZE C
UNIVERSITY OF MAINZ				REV.
				DRAWING NO.
SCALE				SHEET 4 of 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



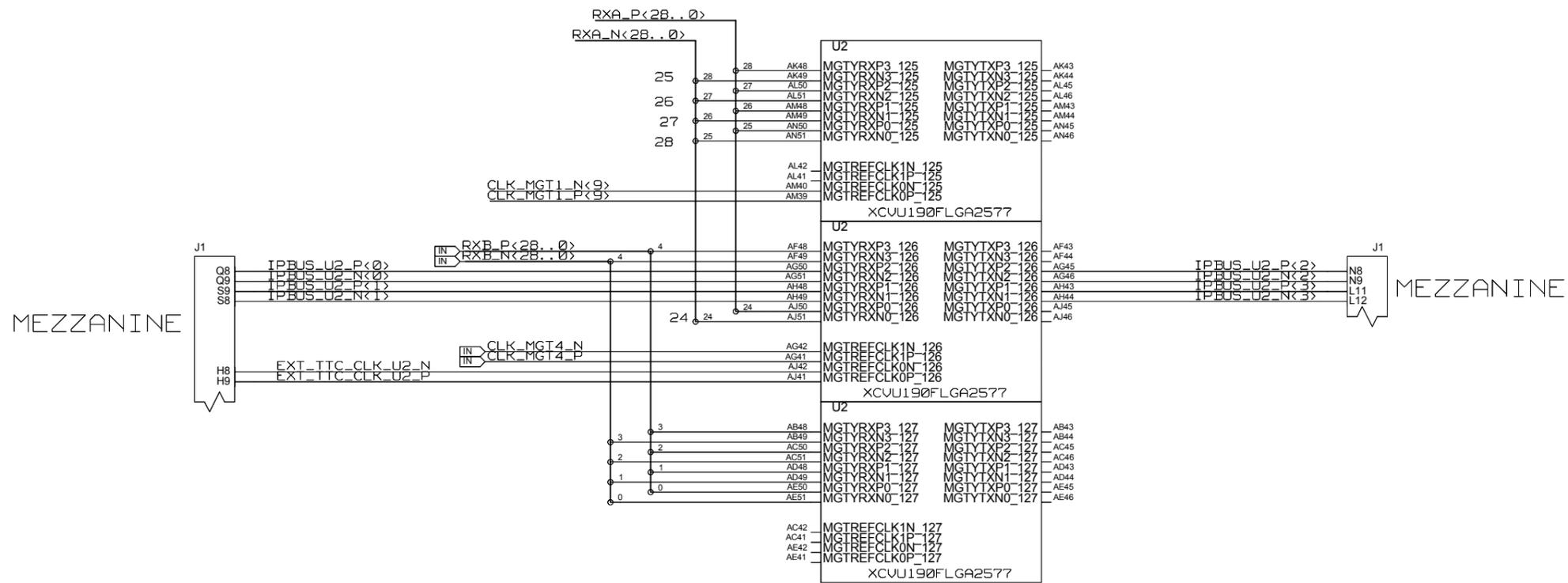
I2C ADDRESS:

R3=XXX	R4=XXX
R5=XXX	R6=XXX
R7=XXX	R8=XXX

BANK
119
120
121
122
123
124

CHECKED	NAME	DATE	SIGN	DRAWING TITLE AVAGO RXA
CHECKED	E.ROCCO			
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U2_MGT_REAL_TIME				SIZE C
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
SHEET 5 of 7				

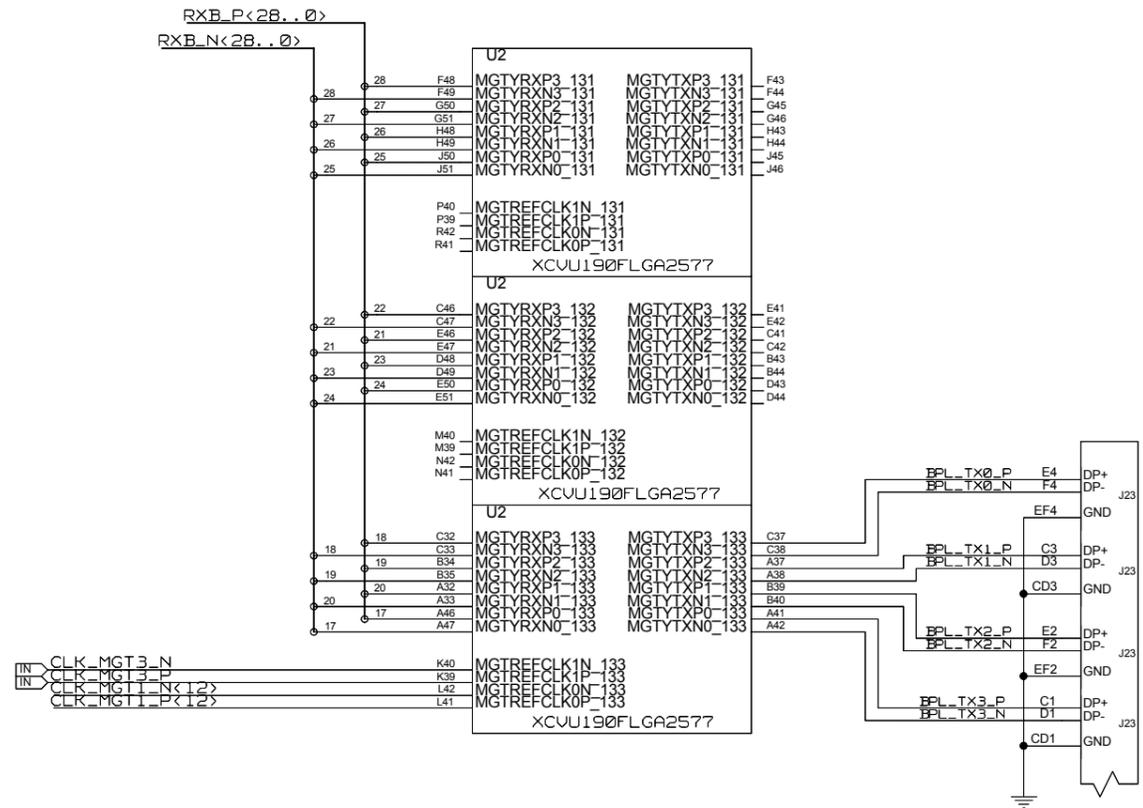
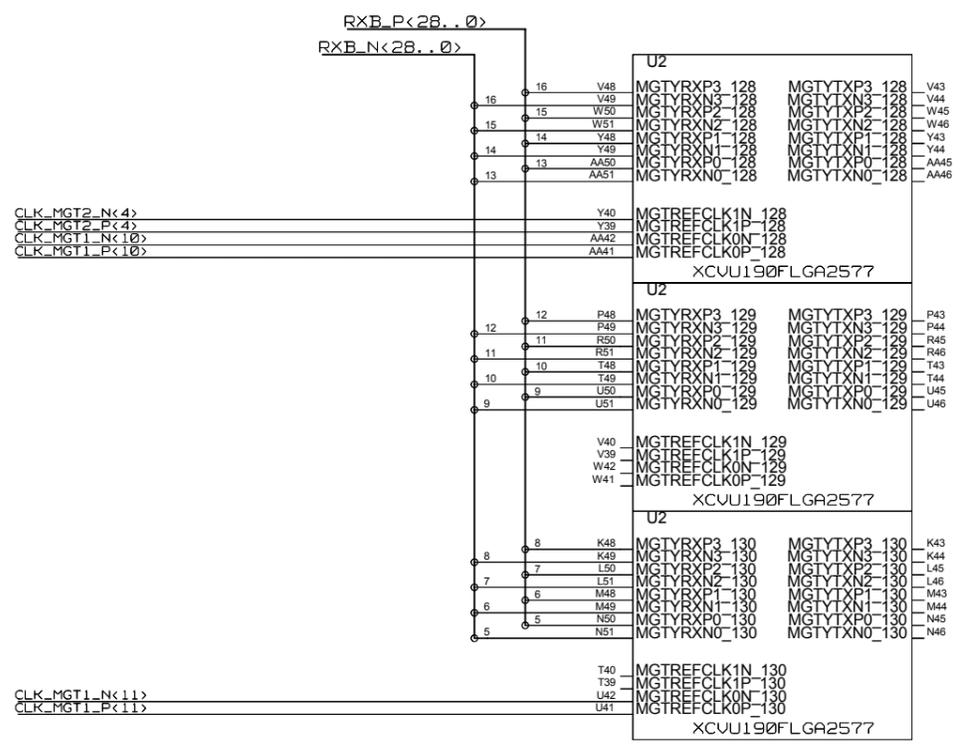
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
125
126
127

CHECKED	E.ROCCO			DRAWING TITLE RXA + RXB TXD + IPBUS	
CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS	07.08.2015			
BLOCK TITLE U2_MGT_REAL_TIME					
UNIVERSITY OF MAINZ				SIZE C	REV.
				SCALE	DRAWING NO.
					SHEET 6 of 7

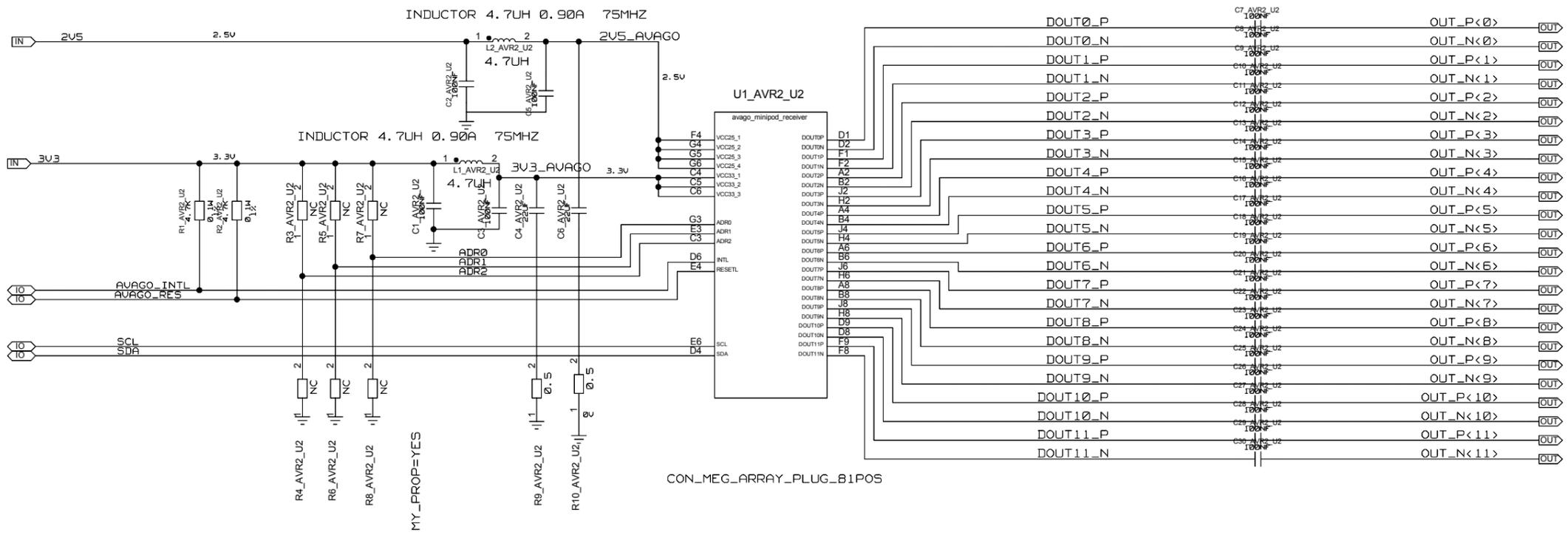
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
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133

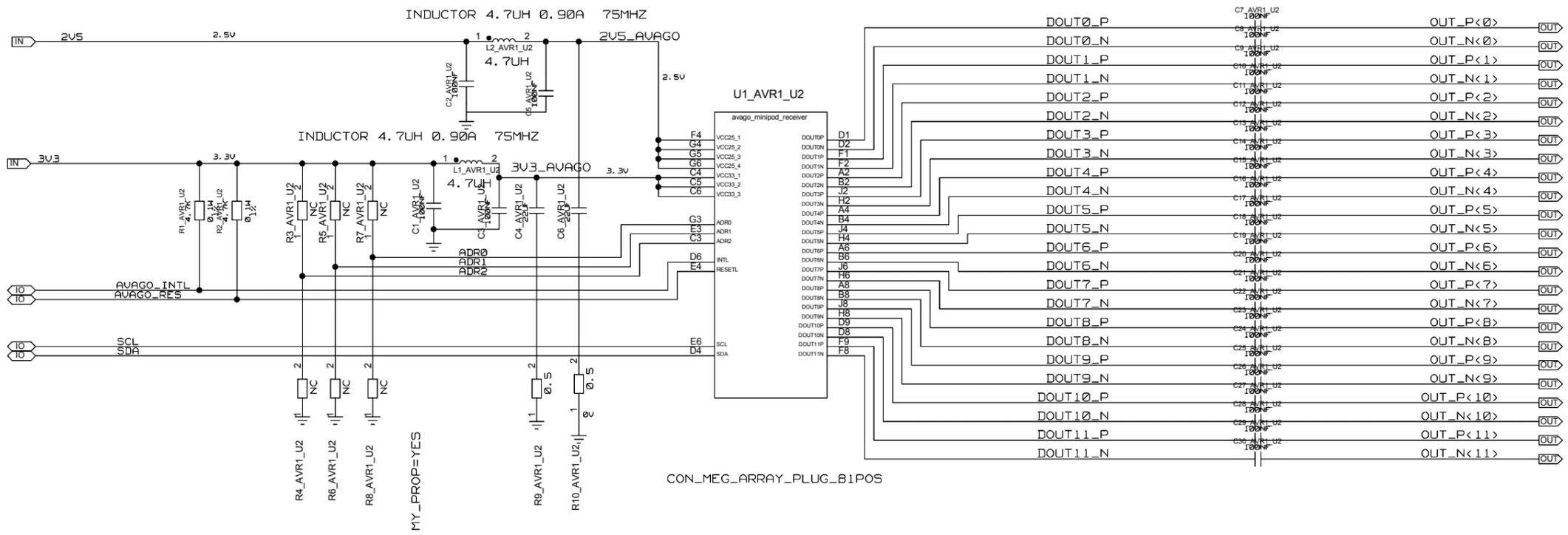
CHECKED	E.ROCCO			DRAWING TITLE RXB + TXC		
CHECKED	U.SCHAEFER					
CHECKED	S.RAVE					
DRAWN	BAUSS	07.08.2015				
BLOCK TITLE U2_MGT_REAL_TIME						
UNIVERSITY OF MAINZ				SIZE C	REV.	DRAWING NO.
				SCALE		SHEET 7 OF 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



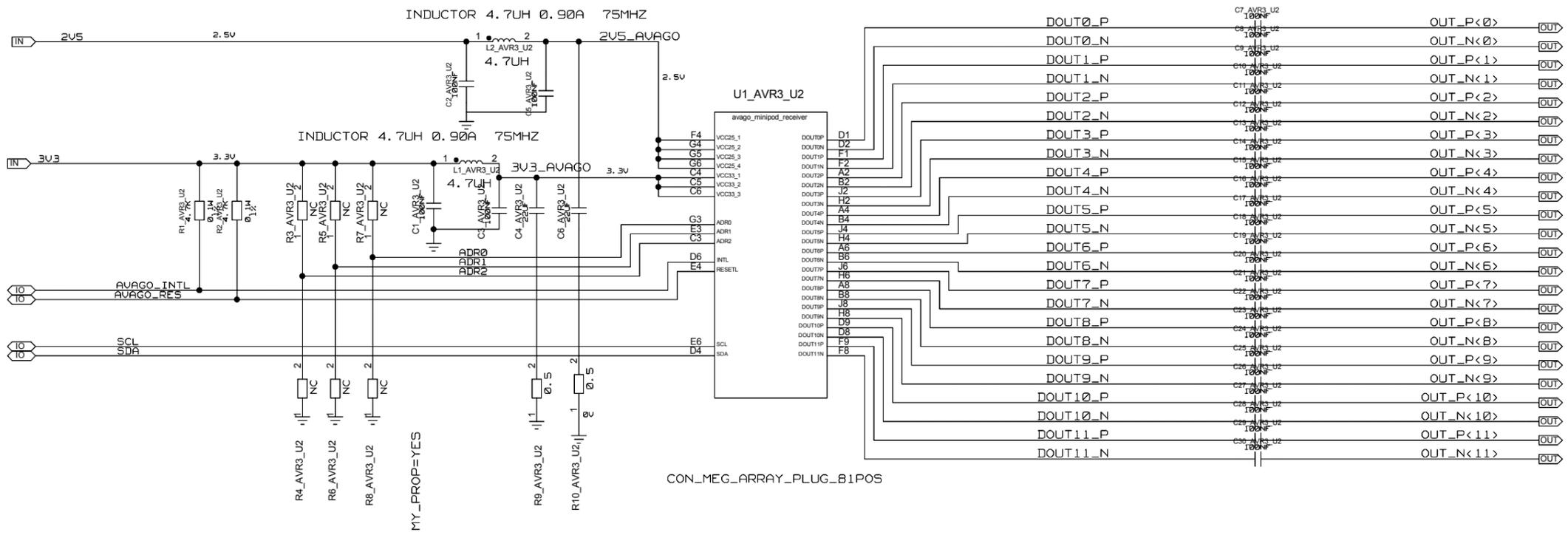
UNIVERSITY OF MAINZ		DRAWING TITLE	
		AVAGO RECEIVER	
SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



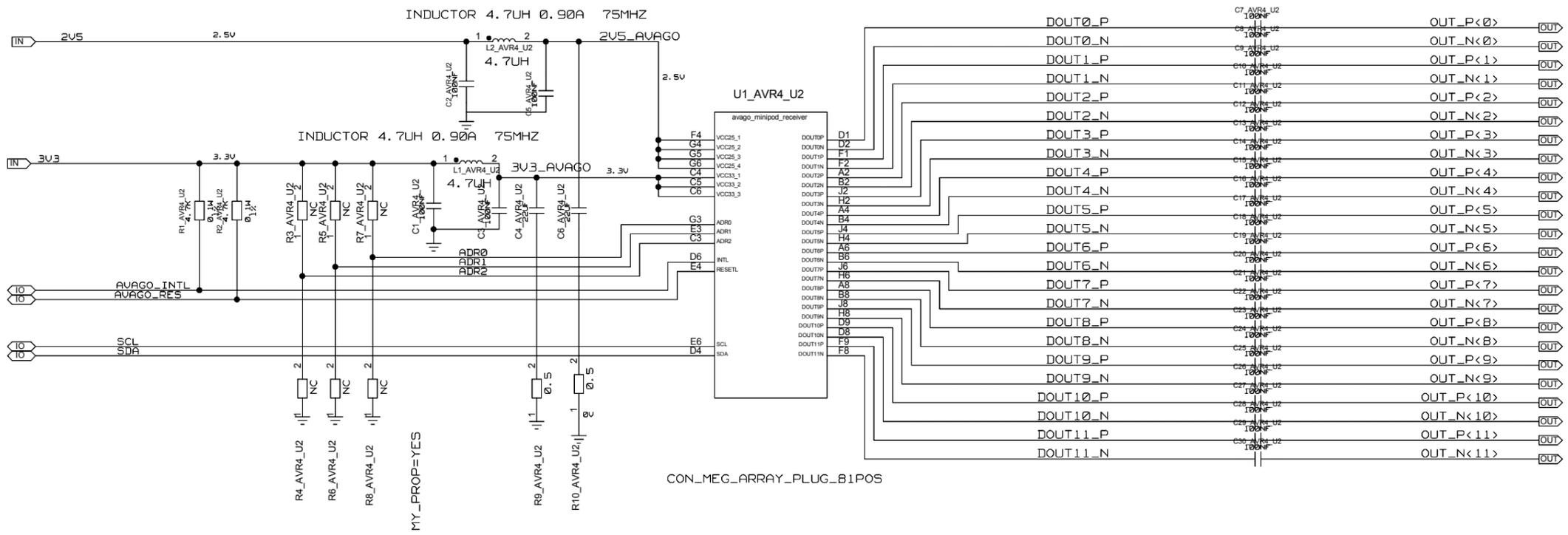
UNIVERSITY OF MAINZ		DRAWING TITLE	
		AVAGO RECEIVER	
SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



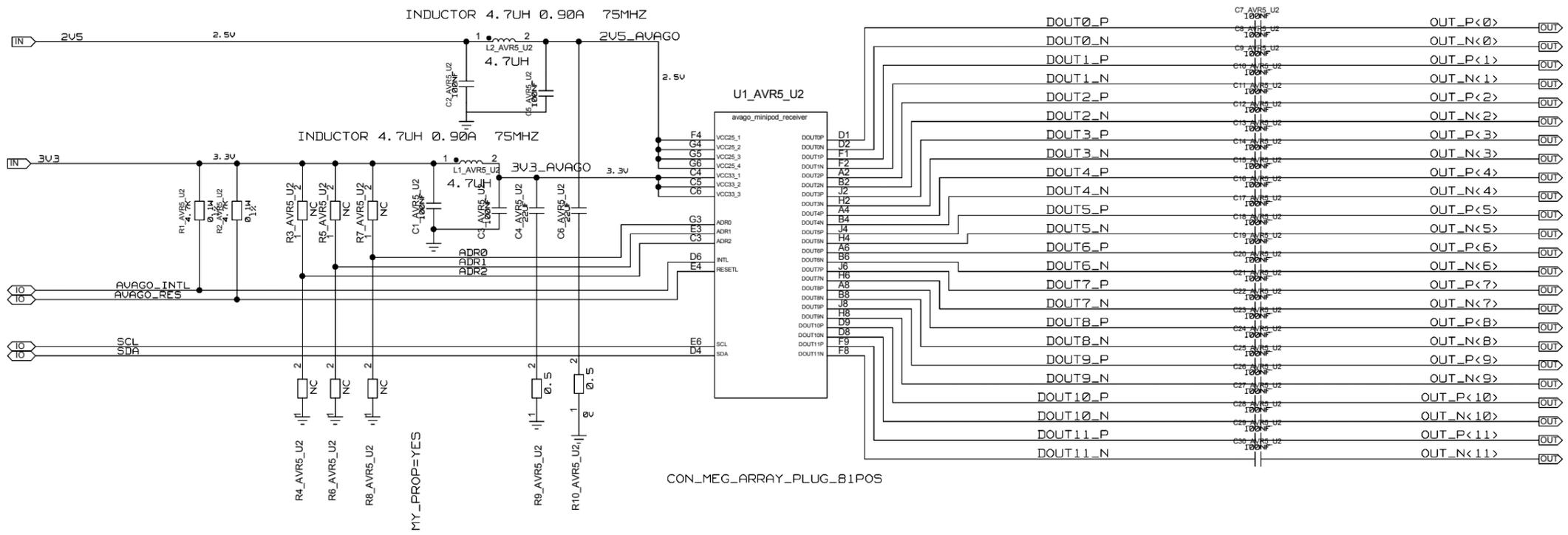
UNIVERSITY OF MAINZ		DRAWING TITLE	
		AVAGO RECEIVER	
SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



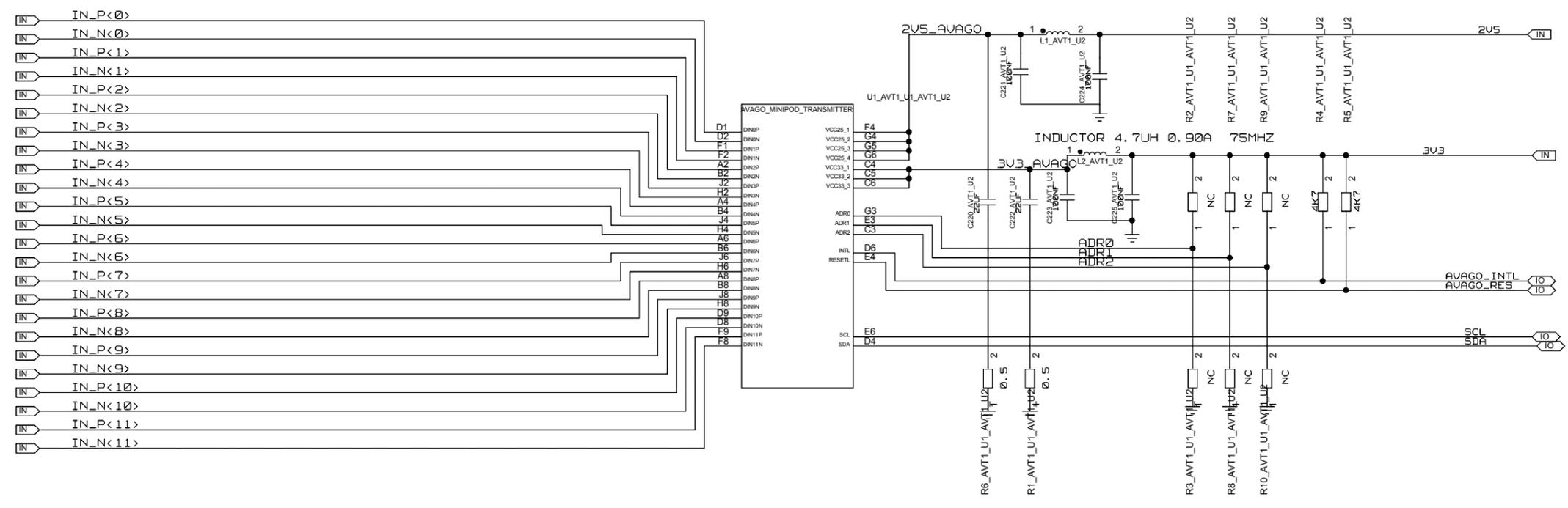
UNIVERSITY OF MAINZ		DRAWING TITLE	
		AVAGO RECEIVER	
SIZE	REV.	DRAWING NO.	
C			
SCALE			SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



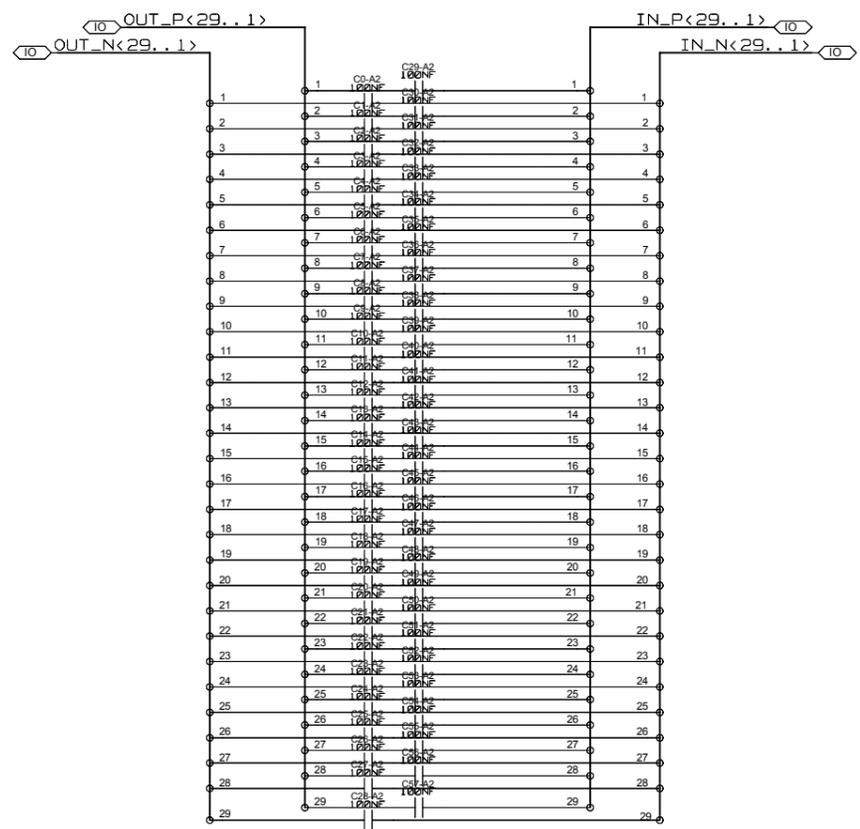
UNIVERSITY OF MAINZ		DRAWING TITLE	
		AVAGO RECEIVER	
SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



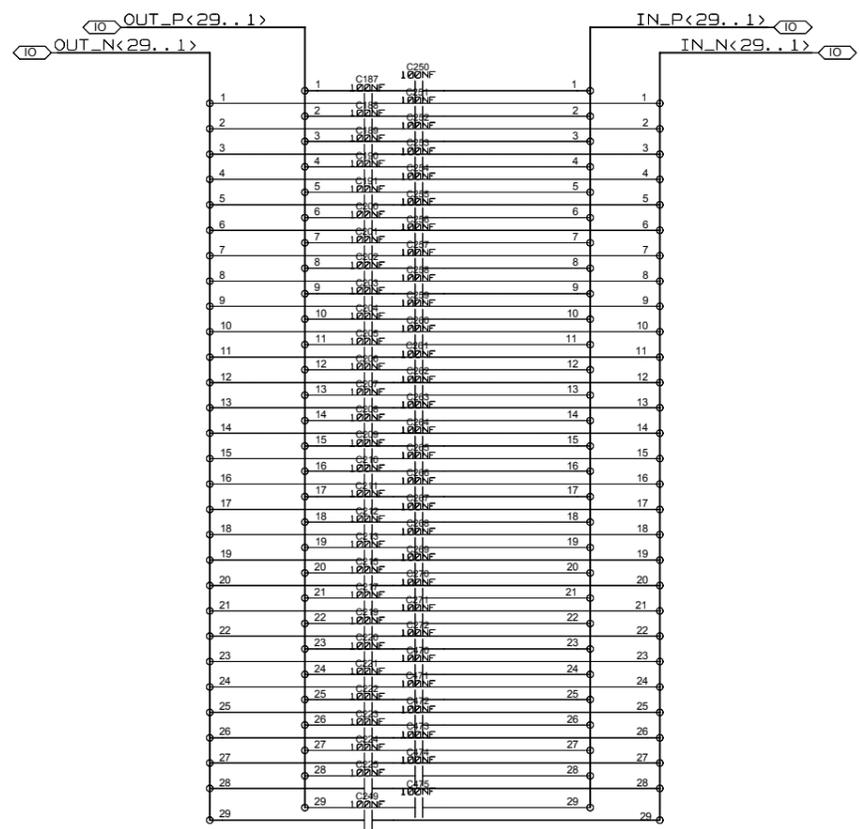
UNIVERSITY OF MAINZ		DRAWING TITLE	
		AVAGO TRANSMITTER	
SIZE	REV.	DRAWING NO.	
C			
SCALE			SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



	NAME	DATE	SIGN	DRAWING TITLE	
CHECKED	E.ROCCO			AC COUPLING 29BIT	
CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS				
BLOCK TITLE				SIZE	DRAWING NO.
UNIVERSITY OF MAINZ				C	REV.
				SCALE	SHEET OF

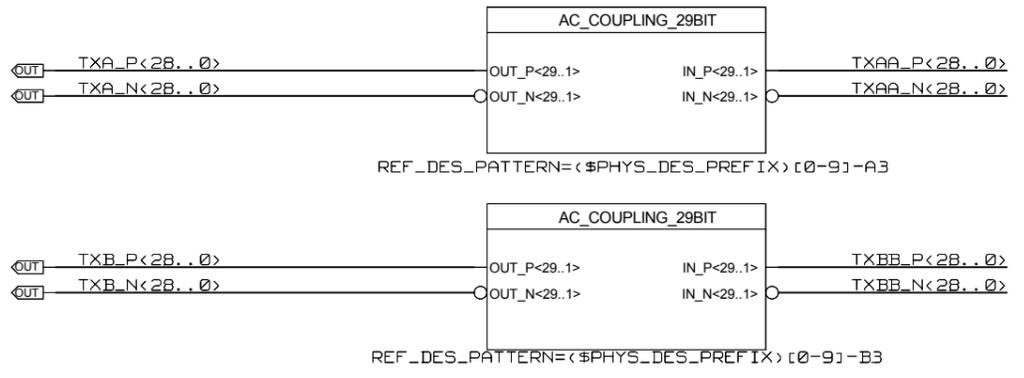
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



CHECKED	E.ROCCO	DATE	SIGN	DRAWING TITLE AC COUPLING 29BIT
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE				SIZE C
UNIVERSITY OF MAINZ				REV.
				DRAWING NO.
SCALE			SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

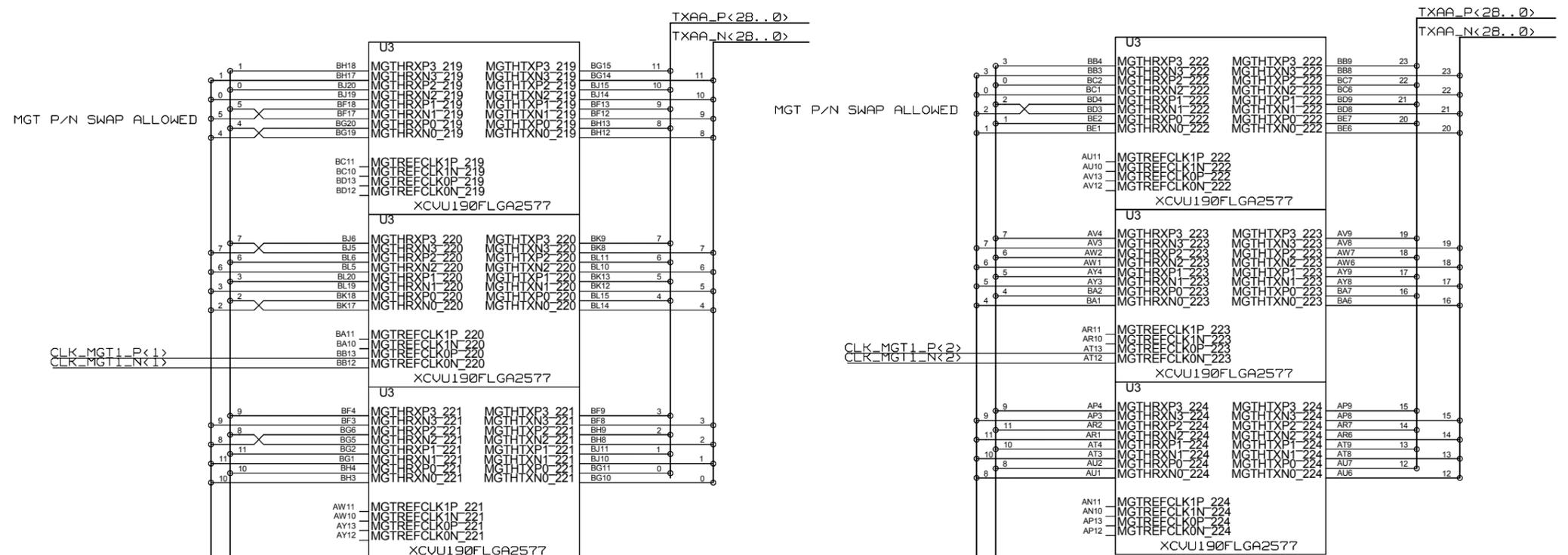
AC COUPLING



IN CLK_MGT1_P<12..1>
 IN CLK_MGT1_N<12..1>
 IN CLK_MGT2_P<6..1>
 IN CLK_MGT2_N<6..1>

	NAME	DATE	SIGN	DRAWING TITLE	
CHECKED	E.ROCCO			I/O + AC COUPLING	
CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS	07.08.2015			
BLOCK TITLE				SIZE	REV.
U3_MGT_REAL_TIME				C	
UNIVERSITY OF MAINZ				SCALE	DRAWING NO.
					SHEET 1 of 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

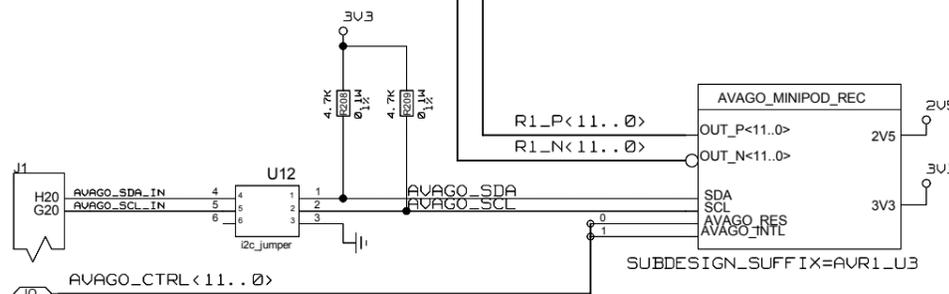


MGT P/N SWAP ALLOWED

MGT P/N SWAP ALLOWED

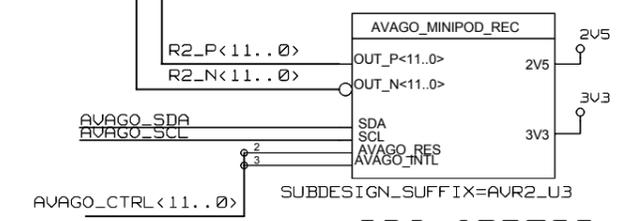
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CLK_MGT1_N<1>

CLK_MGT1_P<2>
CLK_MGT1_N<2>



AVAGO_CTRL<11..0>
AVAGO_CTRL 0, 2, 4, 6, 8, 10 = AVAGO_RES_XX
AVAGO_CTRL 1, 3, 5, 7, 9, 11 = AVAGO_INTL_XX

I2C ADDRESS:
R3=XXX R4=XXX
R5=XXX R6=XXX
R7=XXX R8=XXX

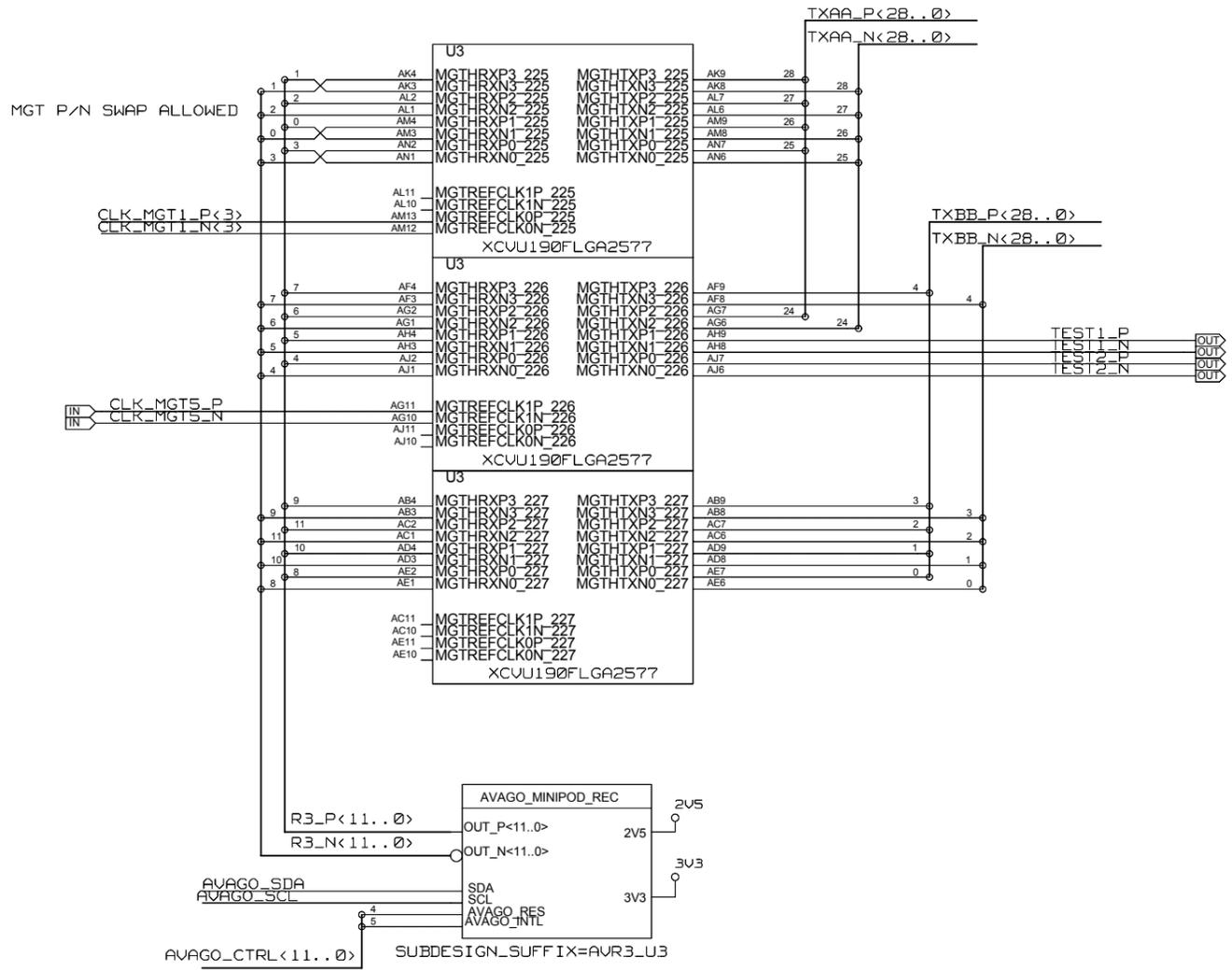


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I2C ADDRESS:
R3=XXX R4=XXX
R5=XXX R6=XXX
R7=XXX R8=XXX

BANK
219
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NAME	DATE	SIGN	DRAWING TITLE		
CHECKED E.ROCCO			AVAGO TXA		
CHECKED U.SCHAEFER					
CHECKED S.RAVE					
DRAWN BAUSS	07.08.2015				
BLOCK TITLE			SIZE	REV.	DRAWING NO.
UNIVERSITY OF MAINZ			C		
			SCALE		SHEET 2 OF 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

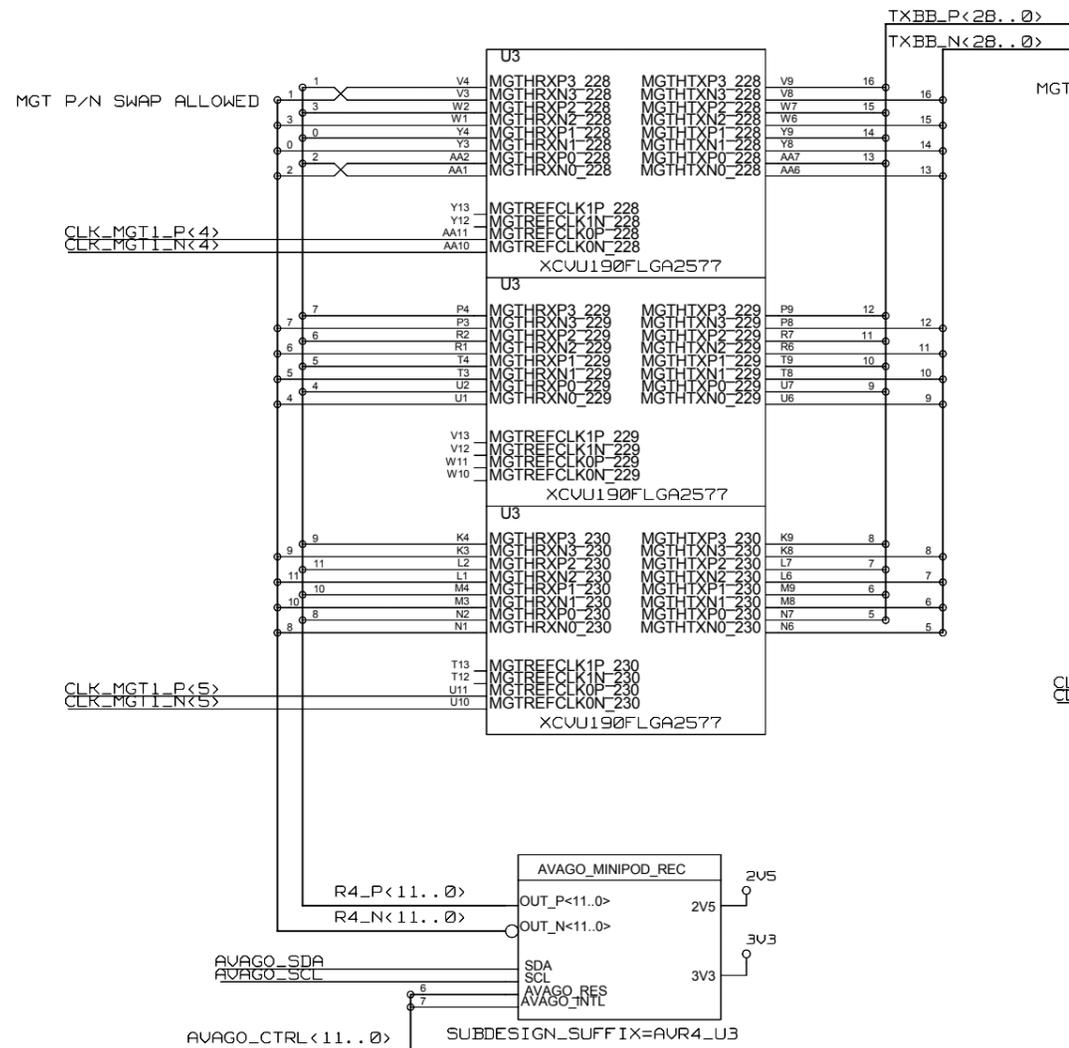


I2C ADDRESS:
R3=XXX R4=XXX
R5=XXX R6=XXX
R7=XXX R8=XXX

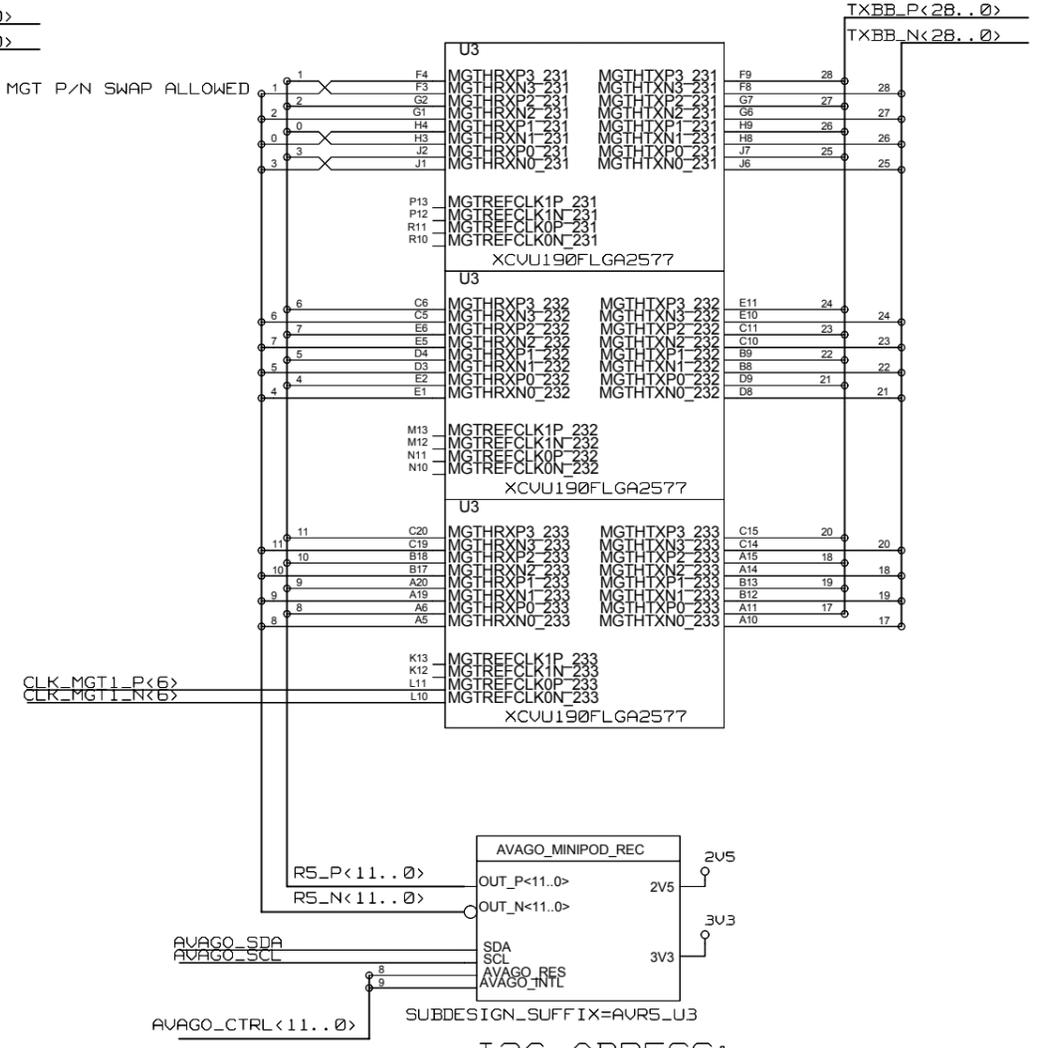
BANK
225
226
227

CHECKED	E.ROCCO			DRAWING TITLE AVAGO TXA + TXB
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U3_MGT_REAL_TIME				DRAWING NO.
UNIVERSITY OF MAINZ				
SIZE	REV.	DRAWING NO.		SHEET 3 of 7
C				
SCALE				

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE



I2C ADDRESS:
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R5=XXX R6=XXX
R7=XXX R8=XXX

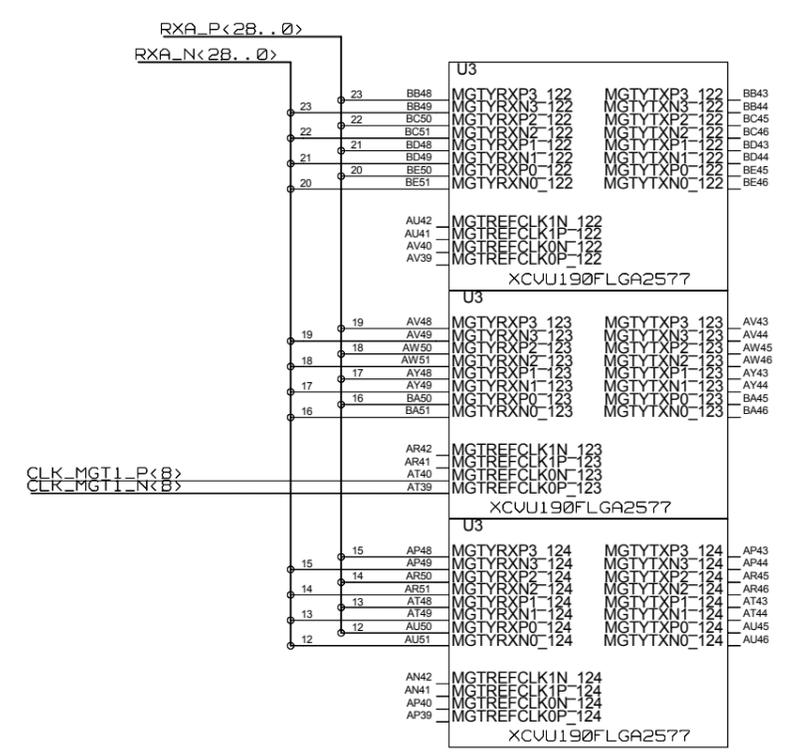
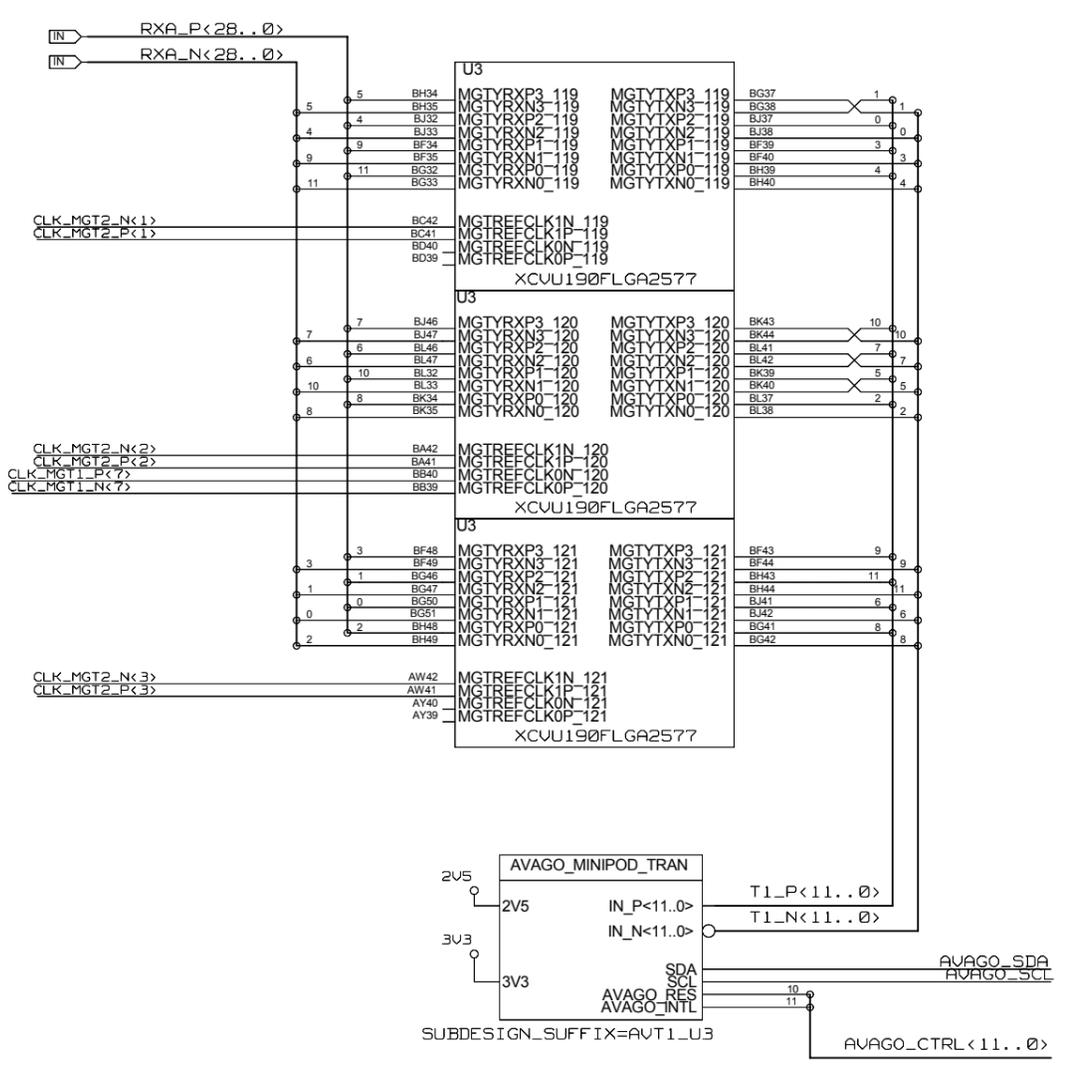


I2C ADDRESS:
R3=XXX R4=XXX
R5=XXX R6=XXX
R7=XXX R8=XXX

BANK
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CHECKED	NAME	DATE	SIGN	DRAWING TITLE AVAGO TXB
CHECKED	E.ROCCO			
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U3_MGT_REAL_TIME				SIZE C
UNIVERSITY OF MAINZ				REV.
				DRAWING NO.
SCALE				SHEET 4 of 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

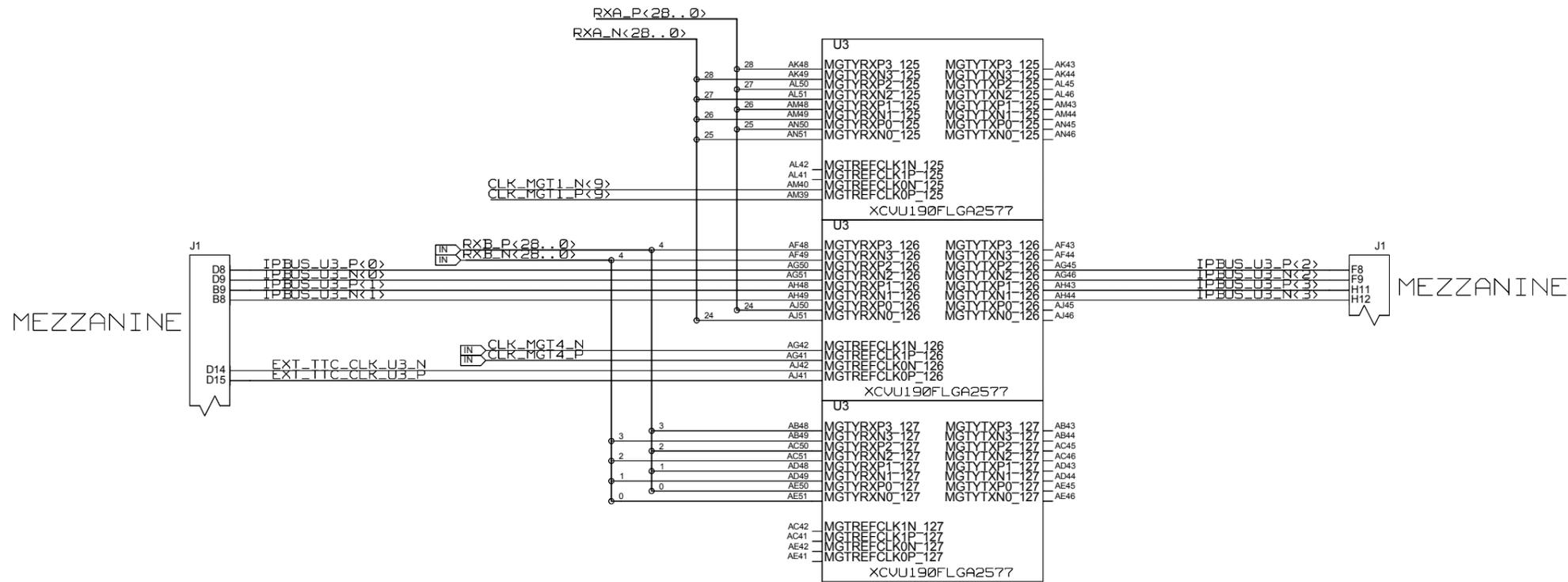


I2C ADDRESS:
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R5=XXX R6=XXX
R7=XXX R8=XXX

BANK
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CHECKED	E.ROCCO	DATE	SIGN	DRAWING TITLE AVAGO RXA
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U3_MGT_REAL_TIME				
UNIVERSITY OF MAINZ		SIZE C	REV.	DRAWING NO.
SCALE				SHEET 5 of 7

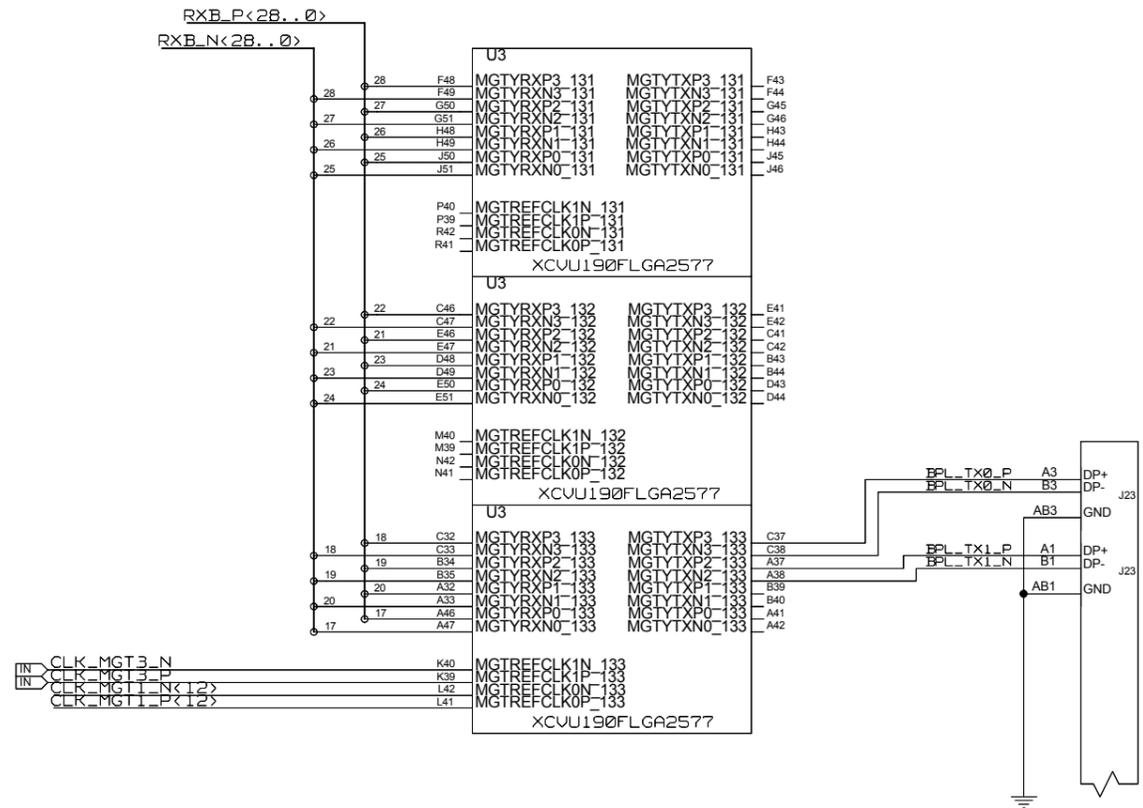
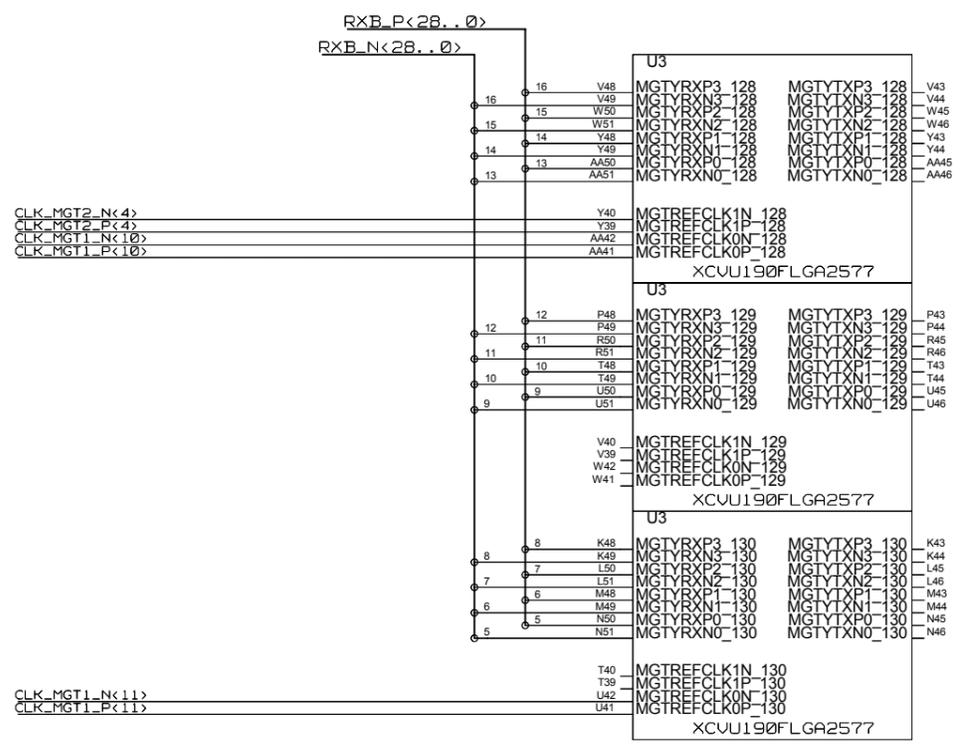
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
125
126
127

CHECKED	E.ROCCO			DRAWING TITLE RXA + RXB TXD + IPBUS	
CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS	07.08.2015			
BLOCK TITLE U3_MGT_REAL_TIME					
UNIVERSITY OF MAINZ				SIZE C	REV.
				SCALE	DRAWING NO.
					SHEET 6 OF 7

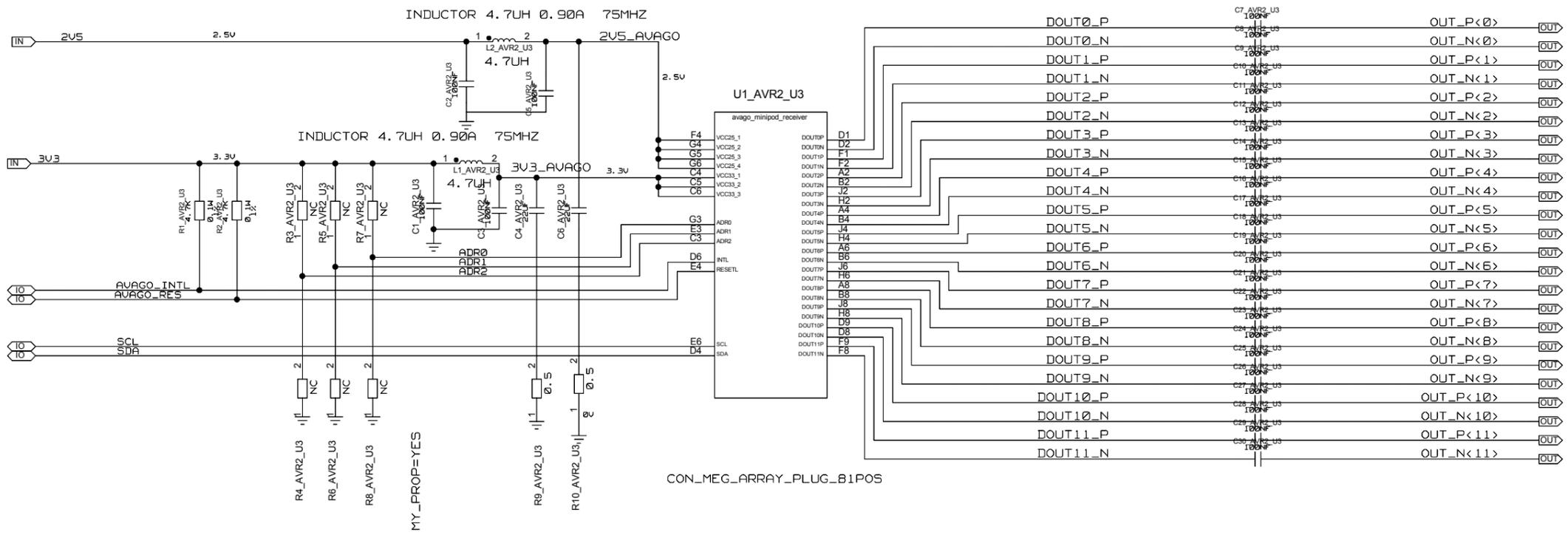
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
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134

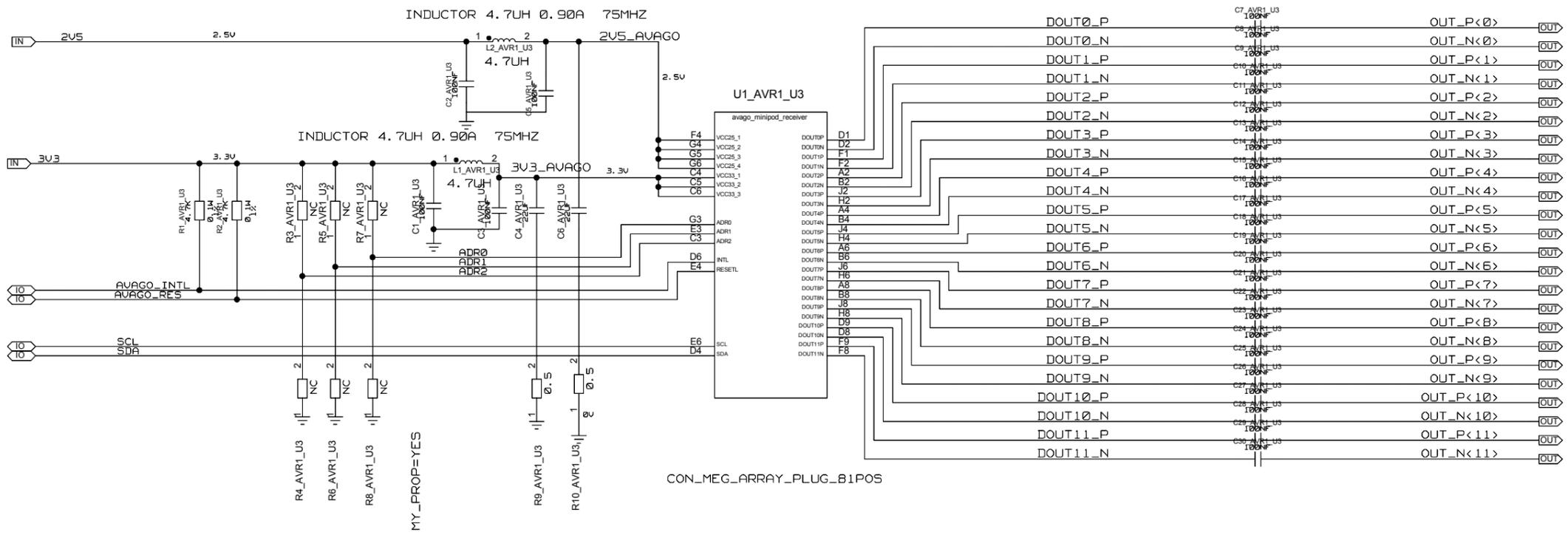
CHECKED	E.ROCCO			DRAWING TITLE RXB + TXC
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U3_MGT_REAL_TIME				
UNIVERSITY OF MAINZ				SIZE C
		REV.	DRAWING NO.	
SCALE				SHEET 7 OF 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ		DRAWING TITLE	
		AVAGO RECEIVER	
SIZE C	REV.	DRAWING NO.	
SCALE		SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

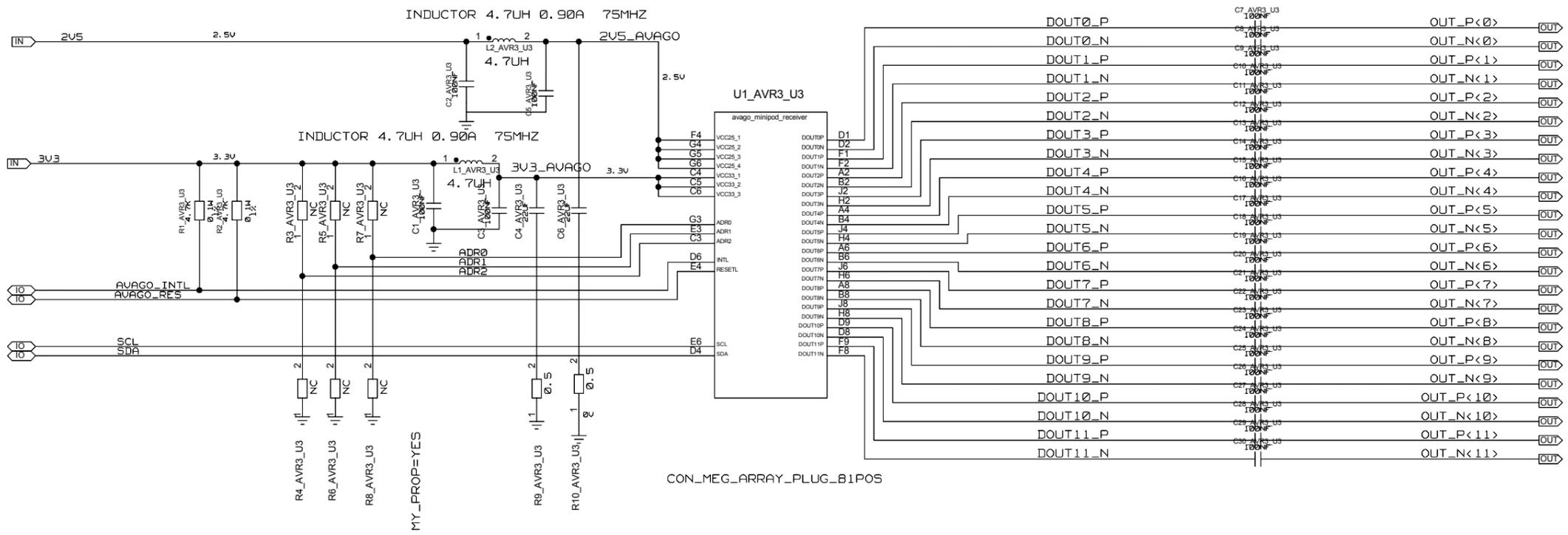


CON_MEG_ARRAY_PLUG_B1POS

MY_PROP=YES

UNIVERSITY OF MAINZ		DRAWING TITLE	
		AVAGO RECEIVER	
SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

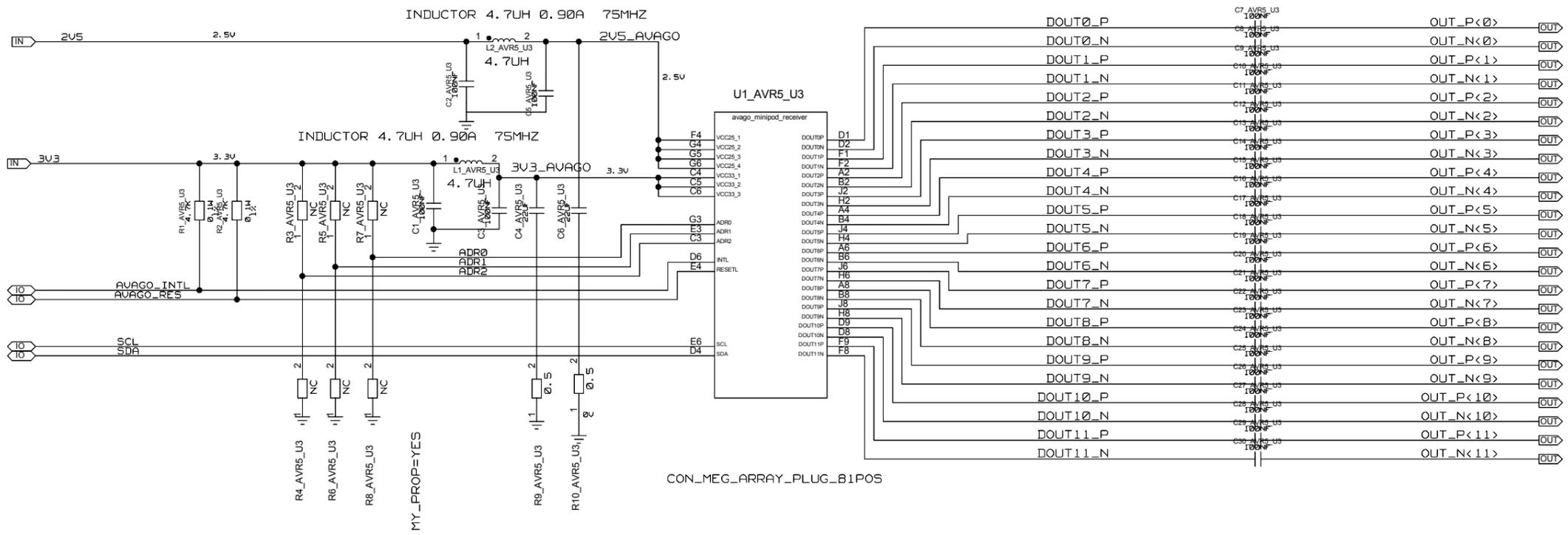


CON_MEG_ARRAY_PLUG_B1POS

MY_PROP=YES

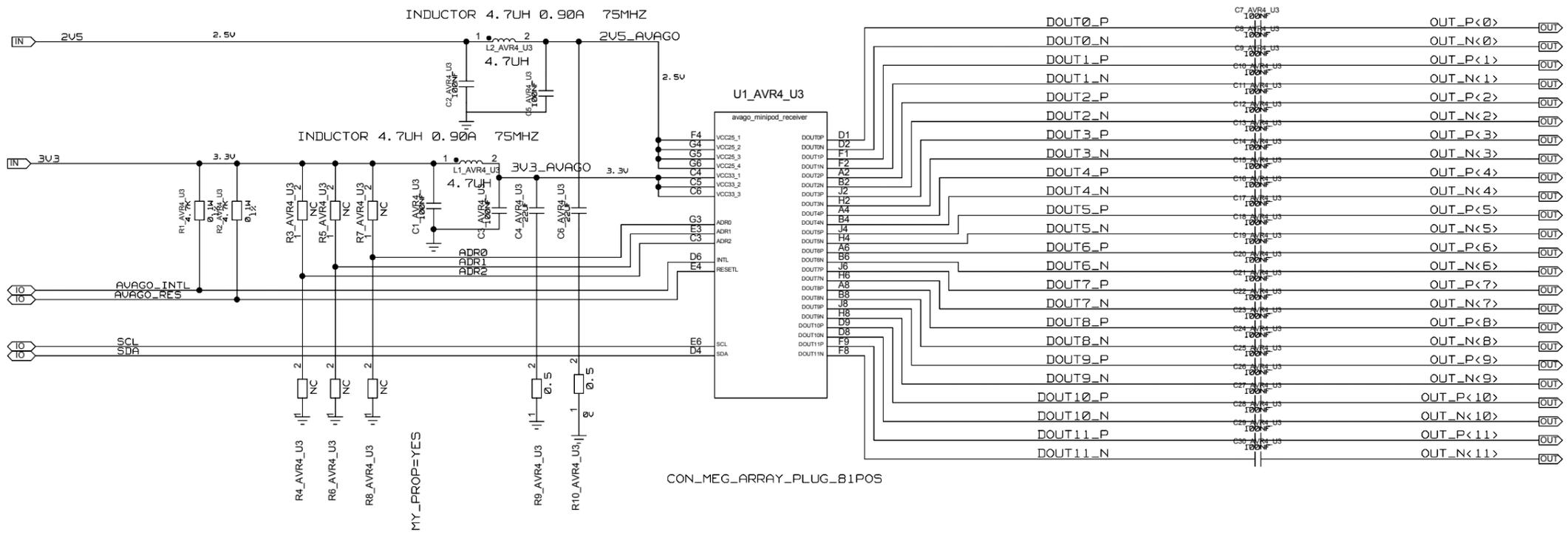
UNIVERSITY OF MAINZ		DRAWING TITLE	
		AVAGO RECEIVER	
SIZE	REV.	DRAWING NO.	
C			
SCALE			SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



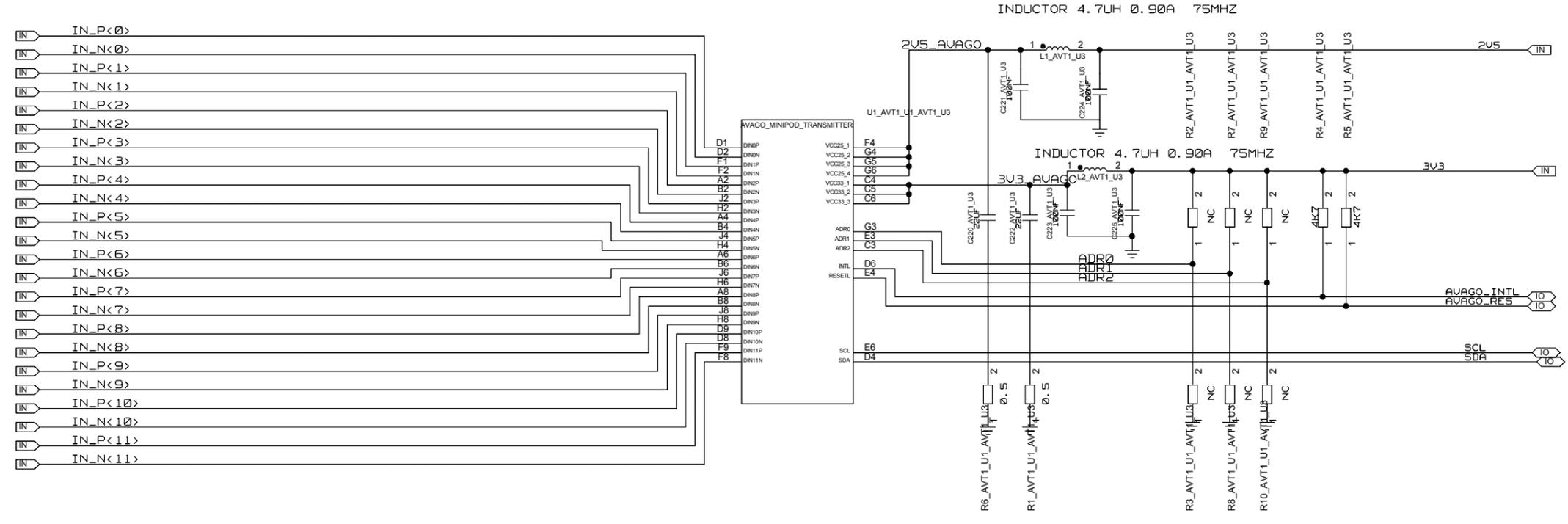
UNIVERSITY OF MAINZ		DRAWING TITLE	
		AVAGO RECEIVER	
SIZE	REV.	DRAWING NO.	
C			
SCALE			SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



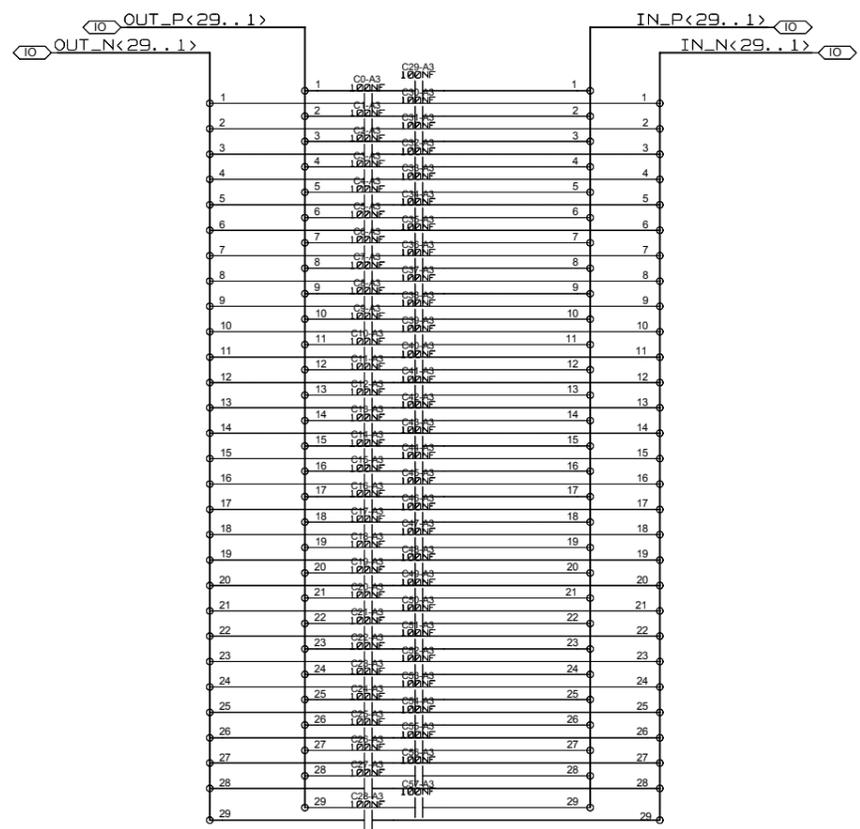
UNIVERSITY OF MAINZ		DRAWING TITLE	
		AVAGO RECEIVER	
SIZE	REV.	DRAWING NO.	
C			
SCALE			SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



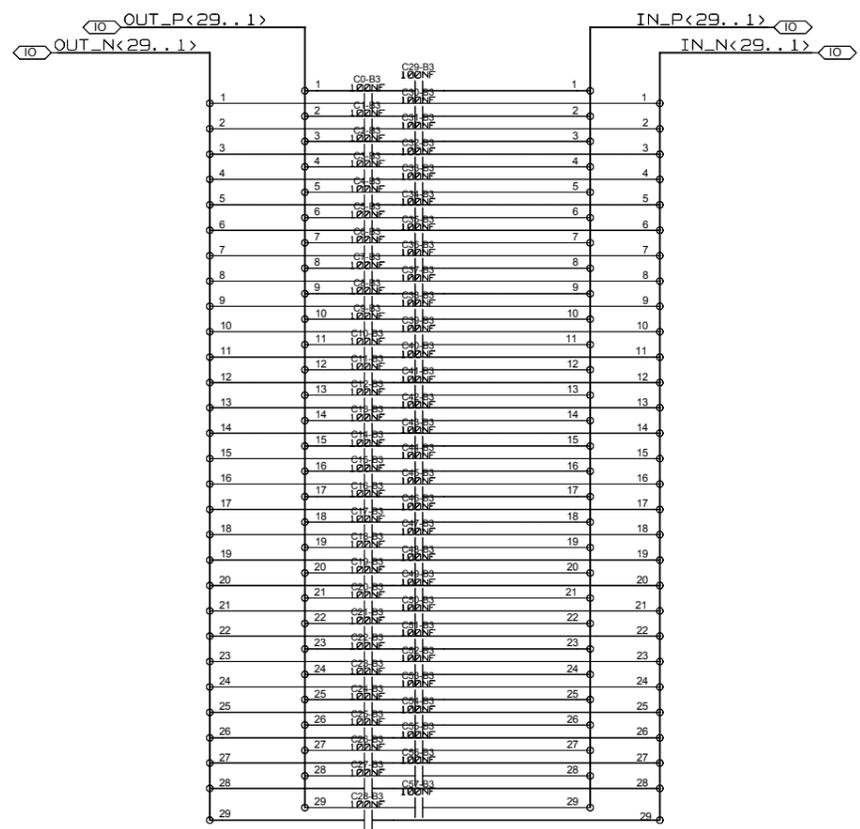
UNIVERSITY OF MAINZ		DRAWING TITLE	
		AVAGO TRANSMITTER	
SIZE	REV.	DRAWING NO.	
C			
SCALE			SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



CHECKED	NAME	DATE	SIGN	DRAWING TITLE AC COUPLING 29BIT		
CHECKED	E.ROCCO					
CHECKED	U.SCHAEFER					
CHECKED	S.RAVE					
DRAWN	BAUSS					
BLOCK TITLE				SIZE	REV.	DRAWING NO.
UNIVERSITY OF MAINZ				C		
				SCALE		SHEET OF

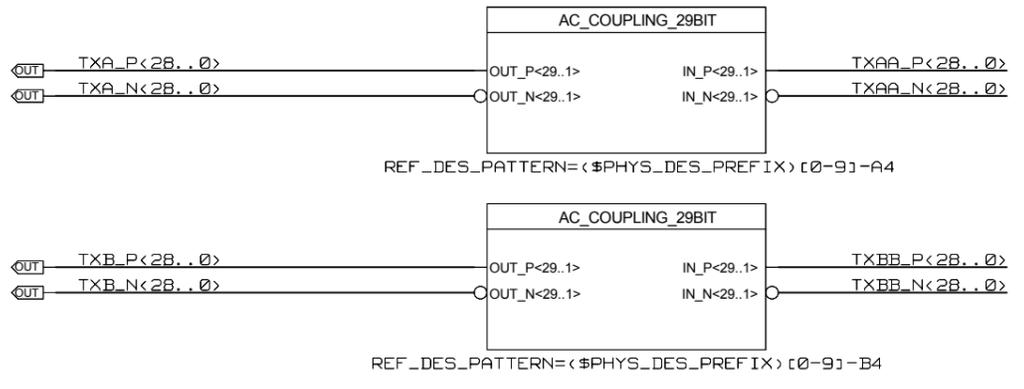
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



	NAME	DATE	SIGN	DRAWING TITLE	
CHECKED	E.ROCCO			AC COUPLING 29BIT	
CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS				
BLOCK TITLE				SIZE	DRAWING NO.
UNIVERSITY OF MAINZ				C	REV.
				SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

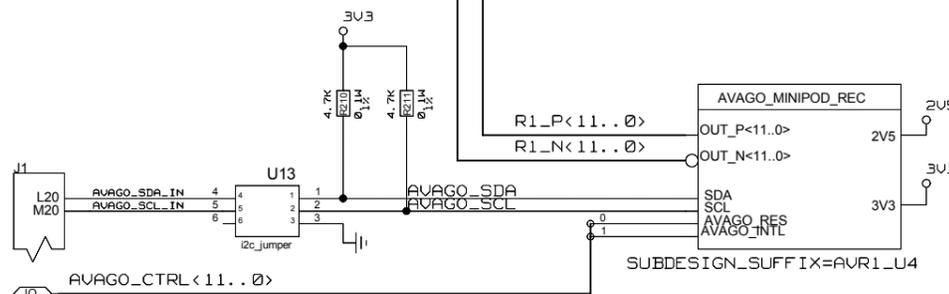
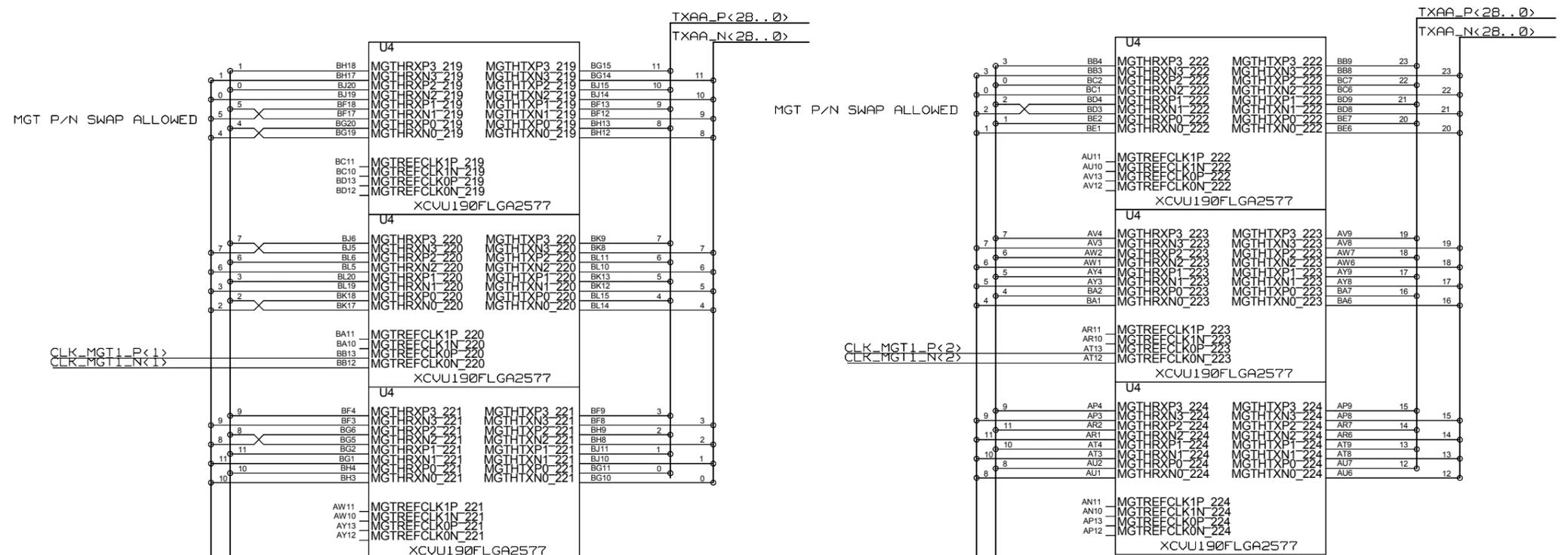
AC COUPLING



IN CLK_MGT1_P<12..1>
 IN CLK_MGT1_N<12..1>
 IN CLK_MGT2_P<6..1>
 IN CLK_MGT2_N<6..1>

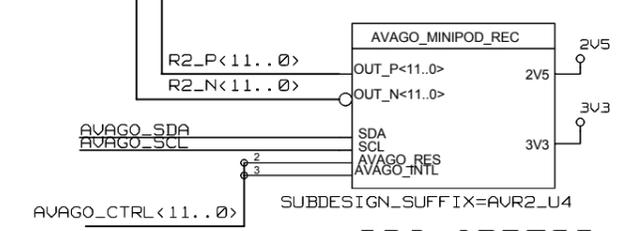
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CHECKED	E.ROCCO			I/O + AC COUPLING	
CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS	07.08.2015		BLOCK TITLE	
UNIVERSITY OF MAINZ				SIZE	DRAWING NO.
				C	
				SCALE	SHEET 1 of 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



AVAGO_CTRL<11..0>
 AVAGO_CTRL 0, 2, 4, 6, 8, 10 = AVAGO_RES_XX
 AVAGO_CTRL 1, 3, 5, 7, 9, 11 = AVAGO_INTL_XX

I2C ADDRESS:
 R3=XXX R4=XXX
 R5=XXX R6=XXX
 R7=XXX R8=XXX



I2C ADDRESS:
 R3=XXX R4=XXX
 R5=XXX R6=XXX
 R7=XXX R8=XXX

BANK
210
209
208
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200

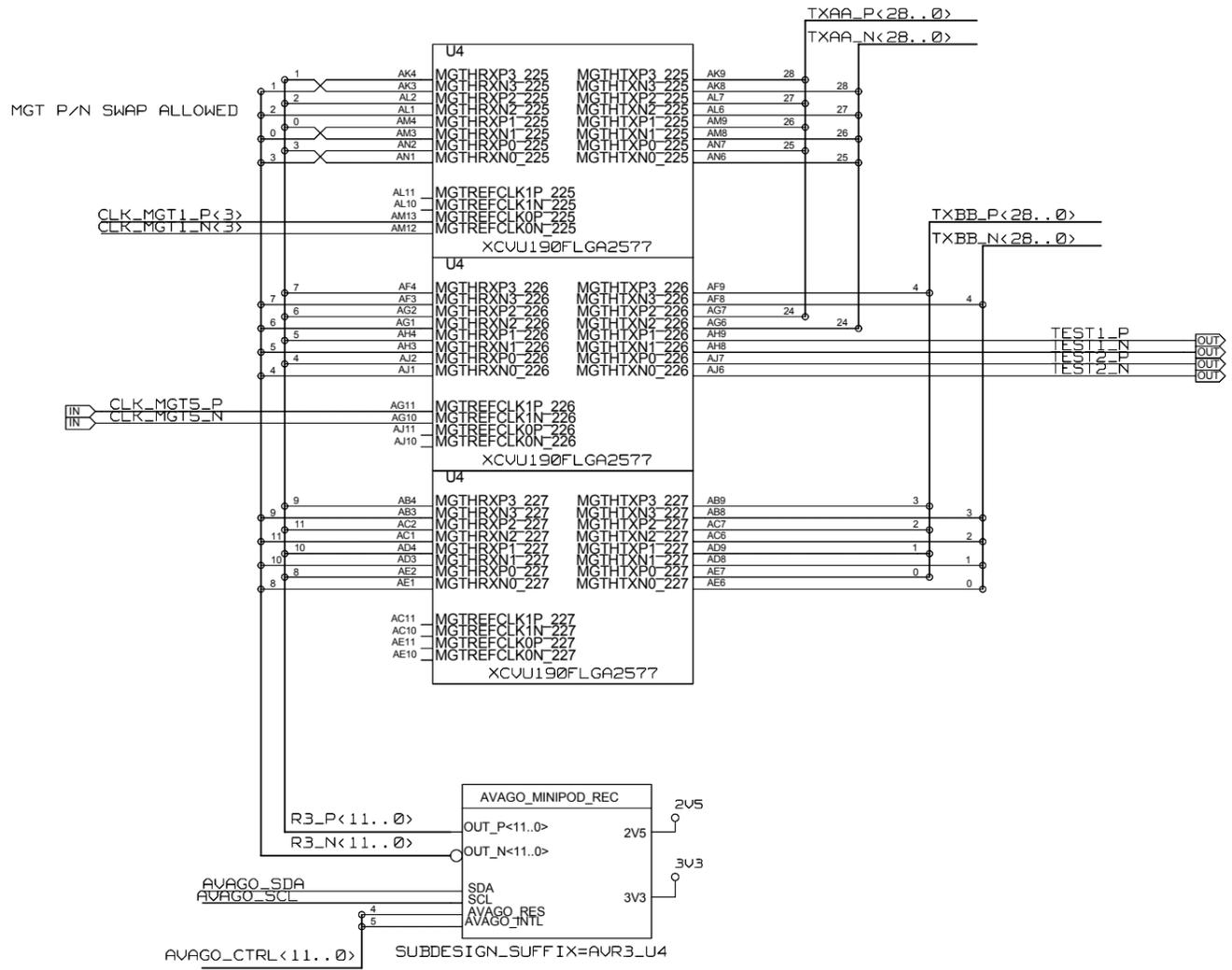
CHECKED	NAME	DATE	SIGN
	E.ROCCO		
	U.SCHAEFER		
	S.RAVE		
	BAUSS	07.08.2015	

BLOCK TITLE
 U4_MGT_REAL_TIME

DRAWING TITLE
 AVAGO
 TXA

UNIVERSITY OF MAINZ	SIZE C	REV.	DRAWING NO.
SCALE			SHEET 2 OF 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

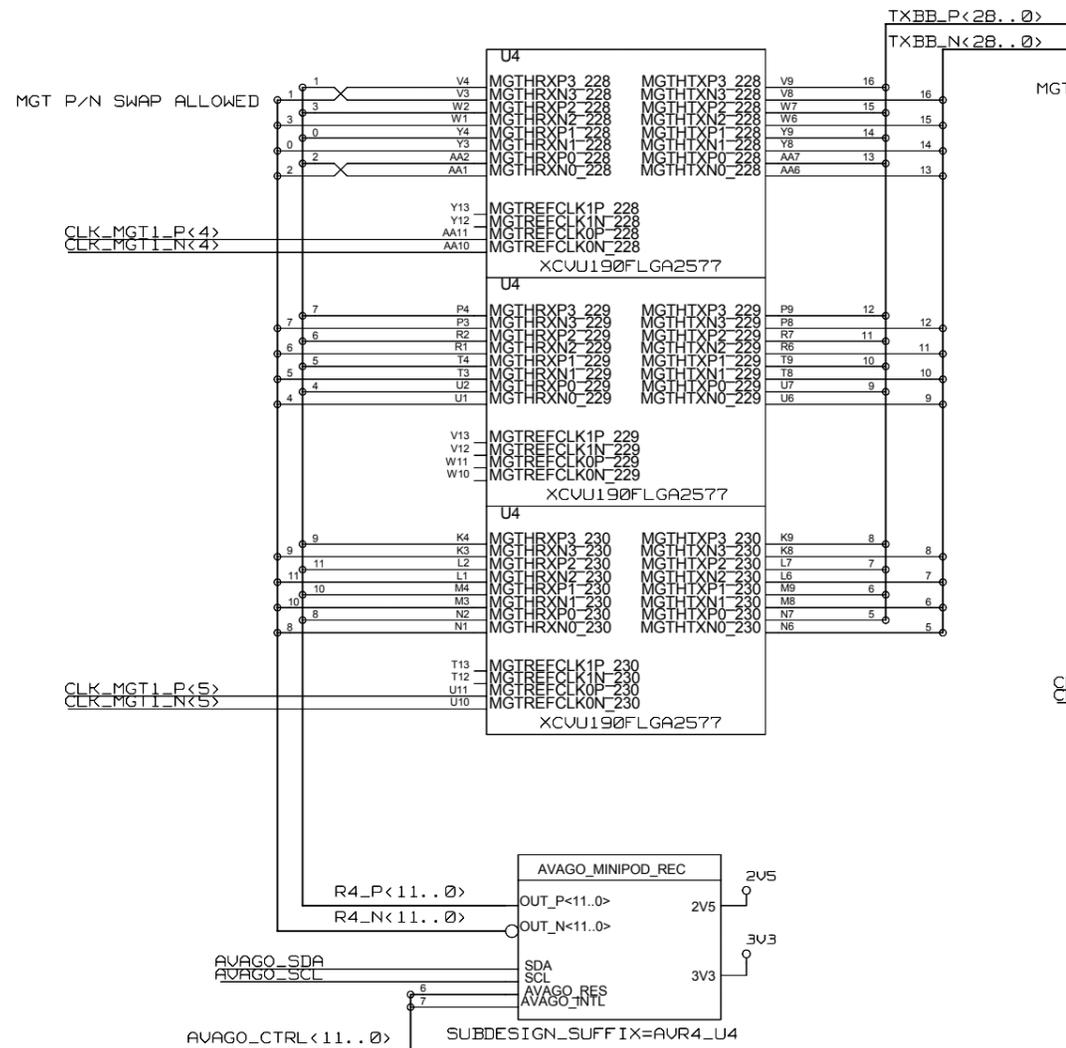


I2C ADDRESS:
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R5=XXX R6=XXX
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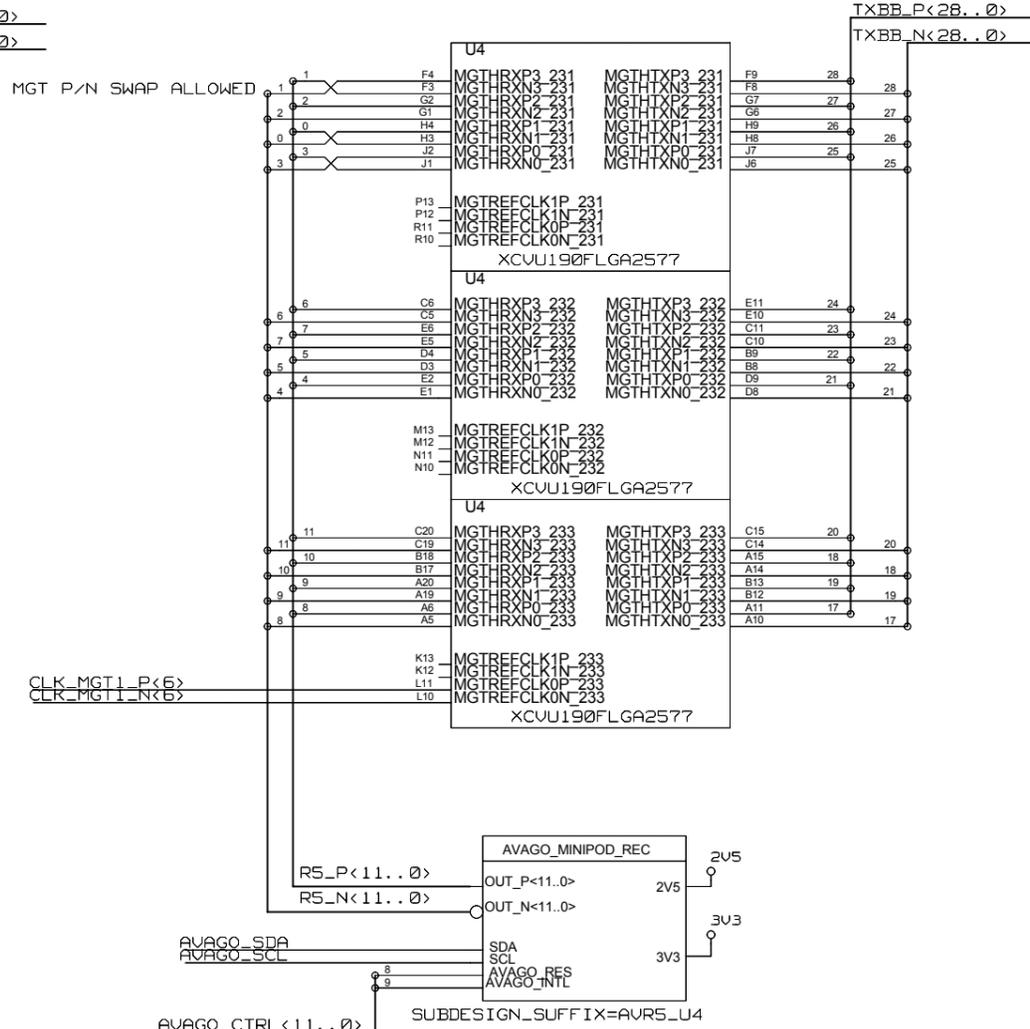
BANK
225
226
227

CHECKED	E.ROCCO			DRAWING TITLE AVAGO TXA + TXB
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U4_MGT_REAL_TIME				SIZE C
UNIVERSITY OF MAINZ				REV.
				DRAWING NO.
SCALE				SHEET 3 of 7

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE



I2C ADDRESS:
R3=XXX R4=XXX
R5=XXX R6=XXX
R7=XXX R8=XXX

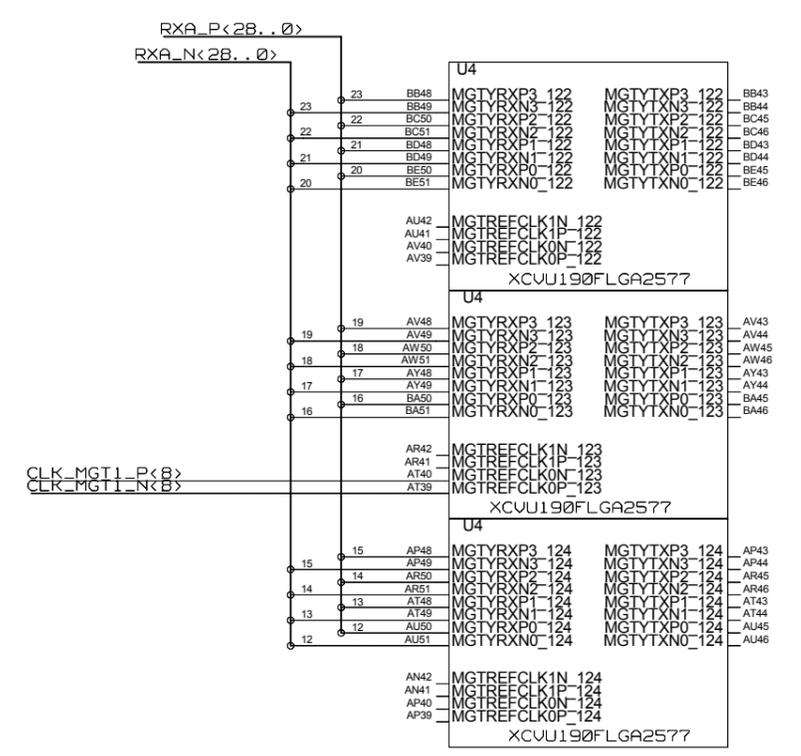
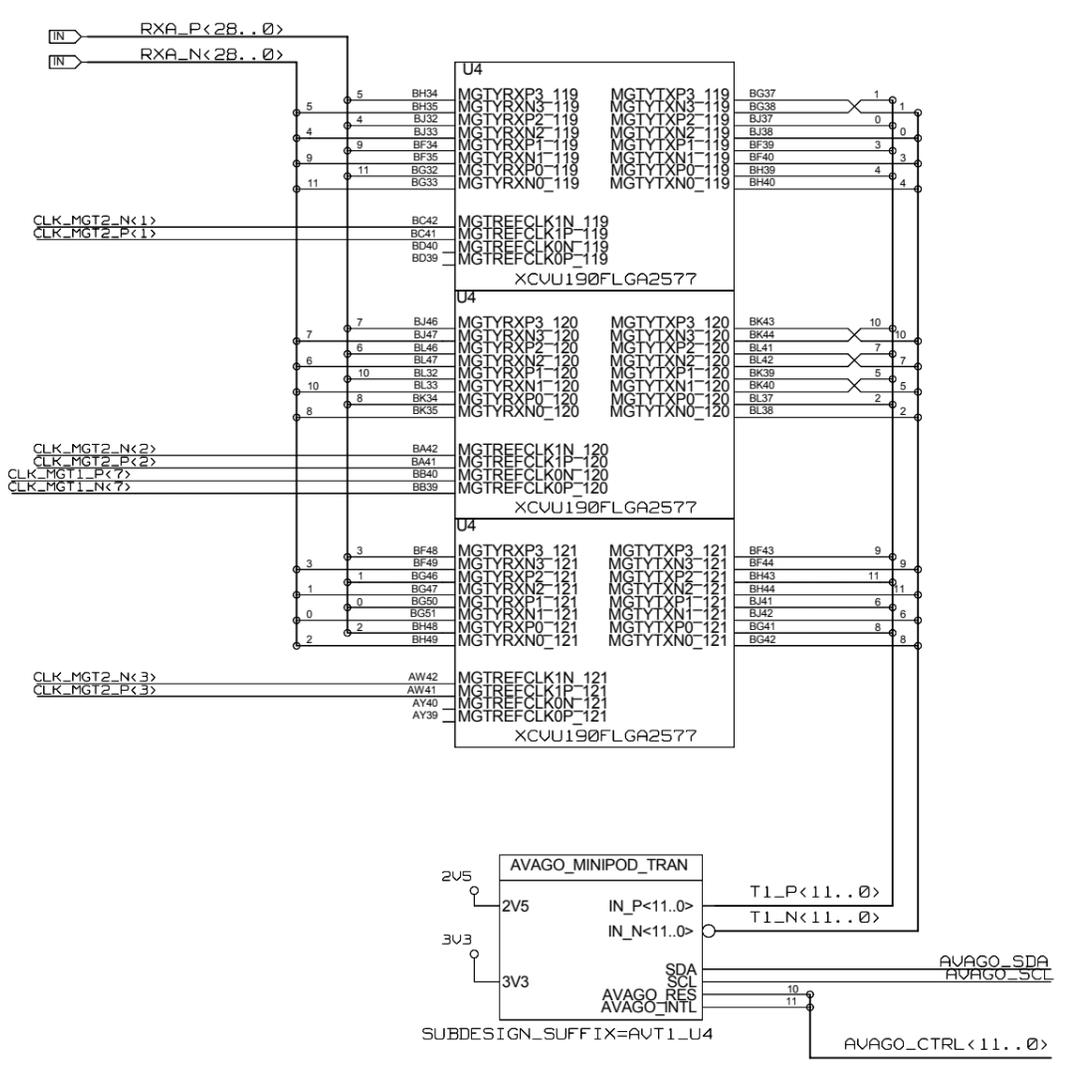


I2C ADDRESS:
R3=XXX R4=XXX
R5=XXX R6=XXX
R7=XXX R8=XXX

BANK
228
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CHECKED	NAME	DATE	SIGN	DRAWING TITLE AVAGO TXB
CHECKED	E.ROCCO			
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U4_MGT_REAL_TIME				SIZE C
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
				SHEET 4 of 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

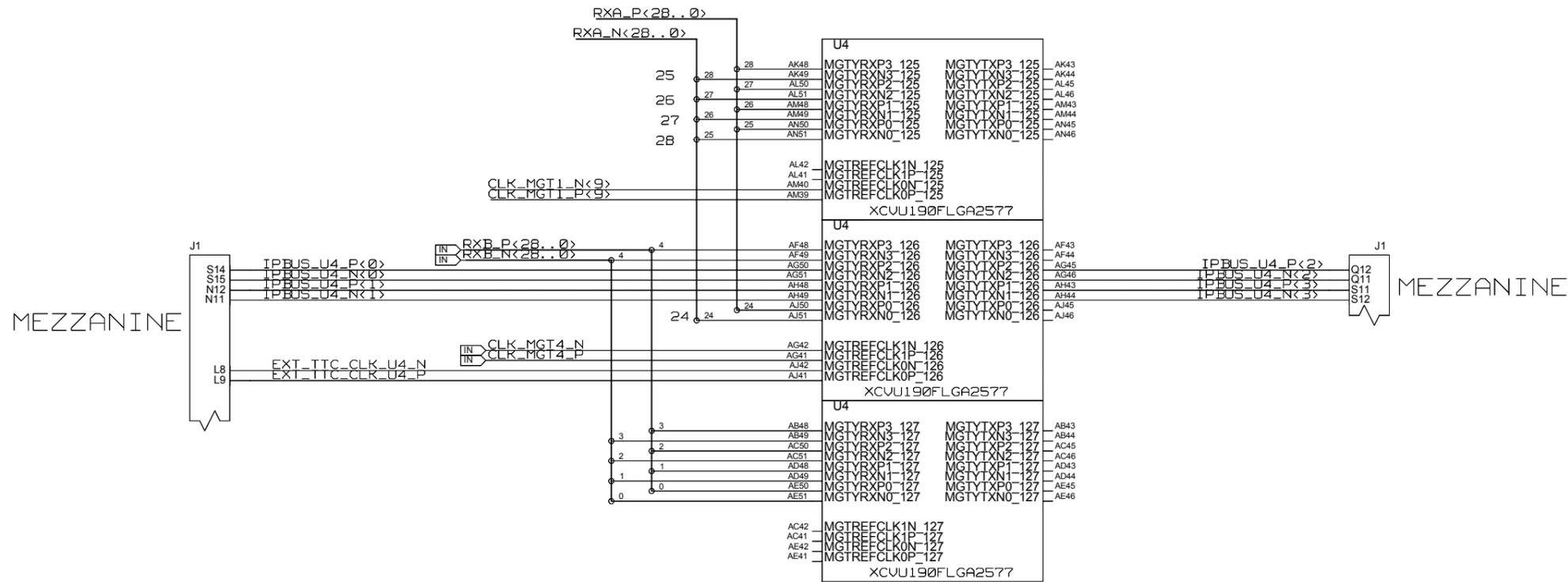


I2C ADDRESS:
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R5=XXX R6=XXX
R7=XXX R8=XXX

BANK
119
120
121
122
123
124

CHECKED	NAME	DATE	SIGN	DRAWING TITLE AVAGO RXA
CHECKED	E.ROCCO			
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U4_MGT_REAL_TIME				DRAWING NO.
UNIVERSITY OF MAINZ				
SIZE C	REV.	DRAWING NO.		SHEET 5 of 7
SCALE				

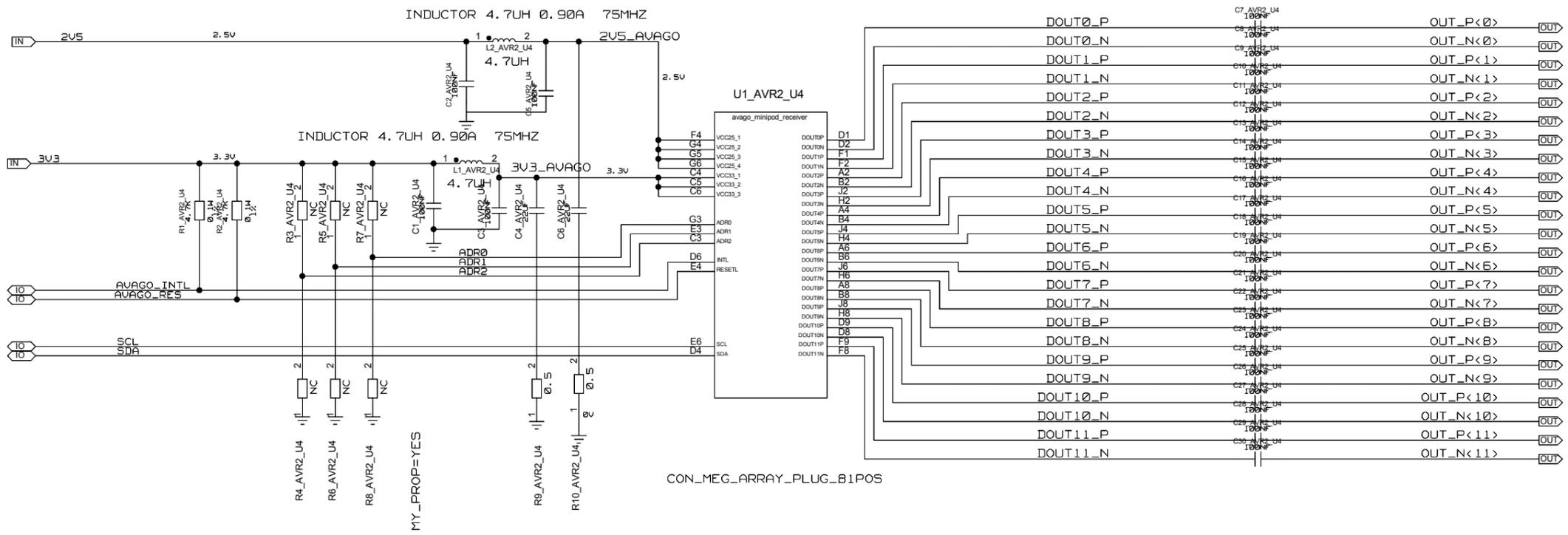
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
125
126
127

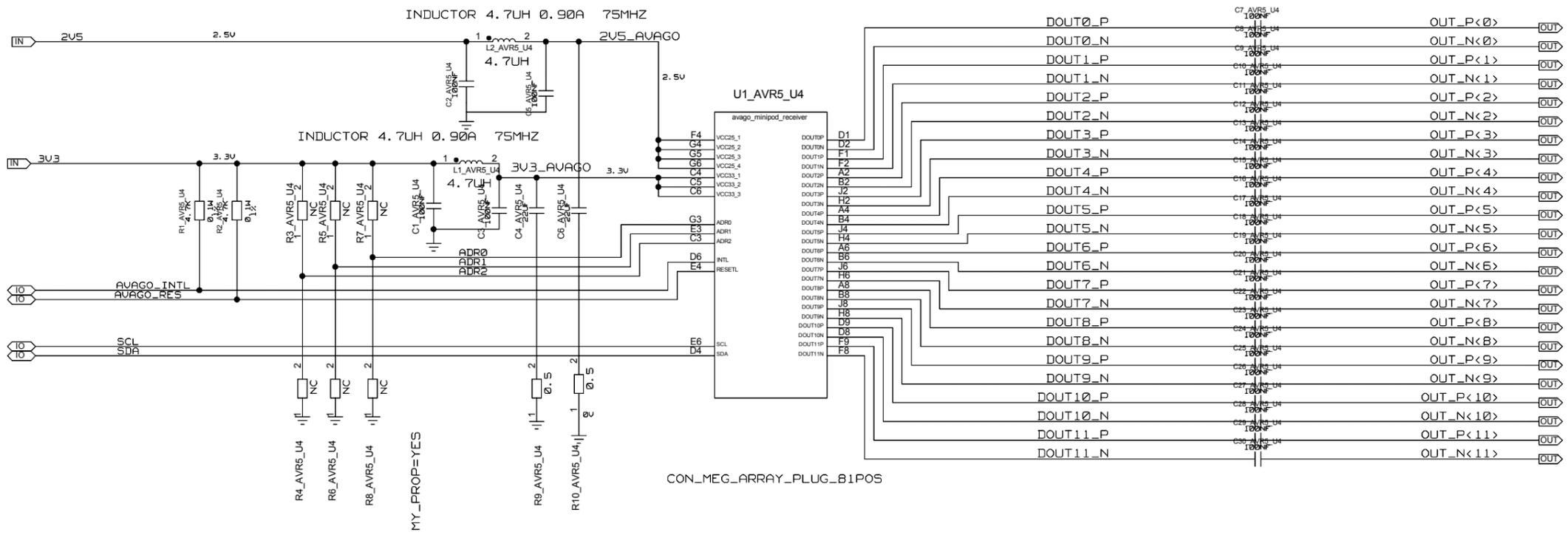
CHECKED	E.ROCCO			DRAWING TITLE RXA + RXB TXD + IPBUS
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U4_MGT_REAL_TIME				
UNIVERSITY OF MAINZ				SIZE C
				REV.
				DRAWING NO.
SCALE				SHEET 6 OF 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



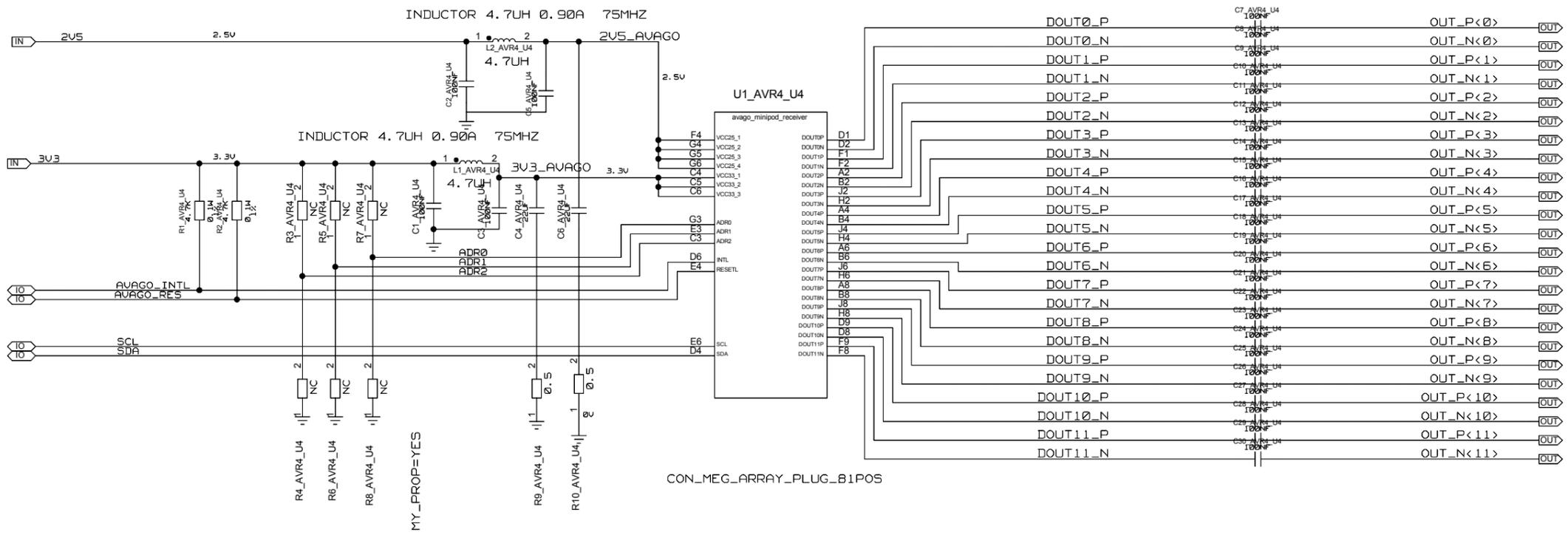
UNIVERSITY OF MAINZ		DRAWING TITLE	
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SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



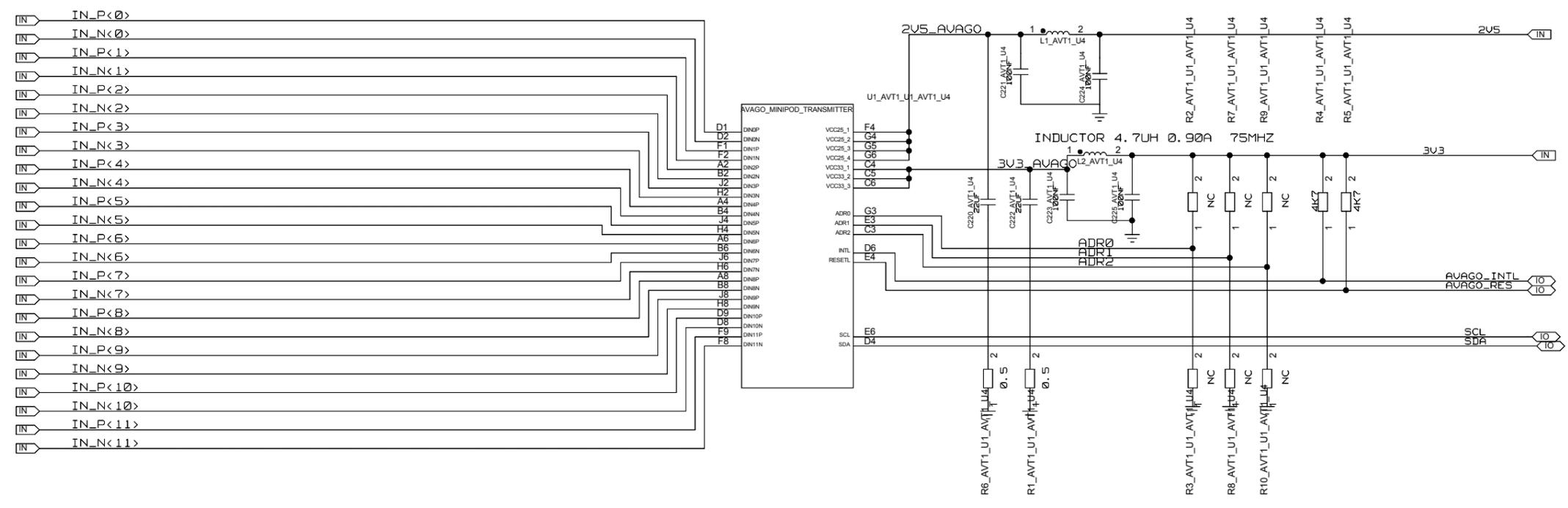
UNIVERSITY OF MAINZ	DRAWING TITLE		
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SIZE C	REV.	DRAWING NO.	
SCALE			SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



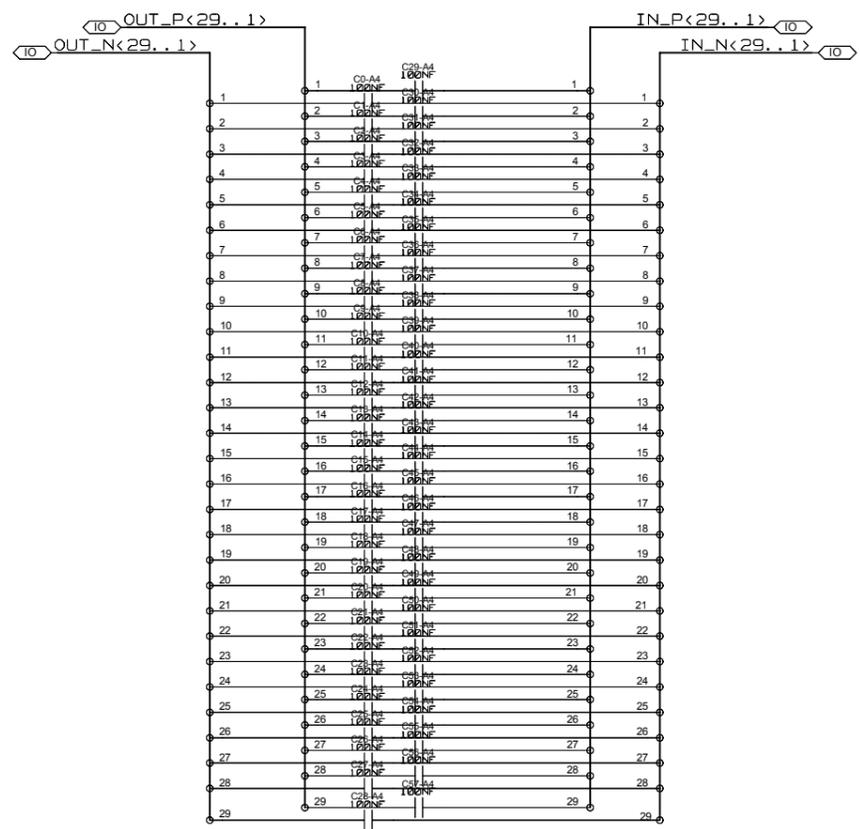
UNIVERSITY OF MAINZ		DRAWING TITLE	
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SIZE	REV.	DRAWING NO.	
C			
SCALE			SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



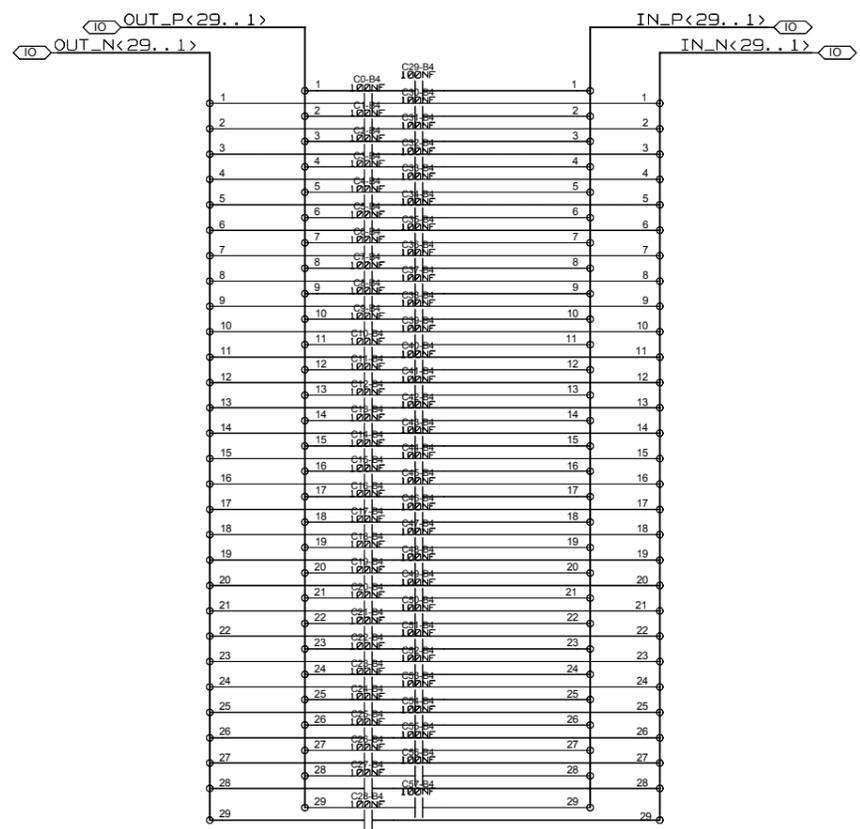
UNIVERSITY OF MAINZ		DRAWING TITLE	
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SIZE	REV.	DRAWING NO.	
C			
SCALE			SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



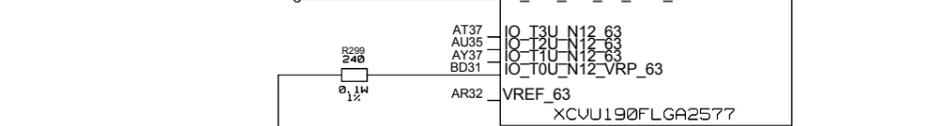
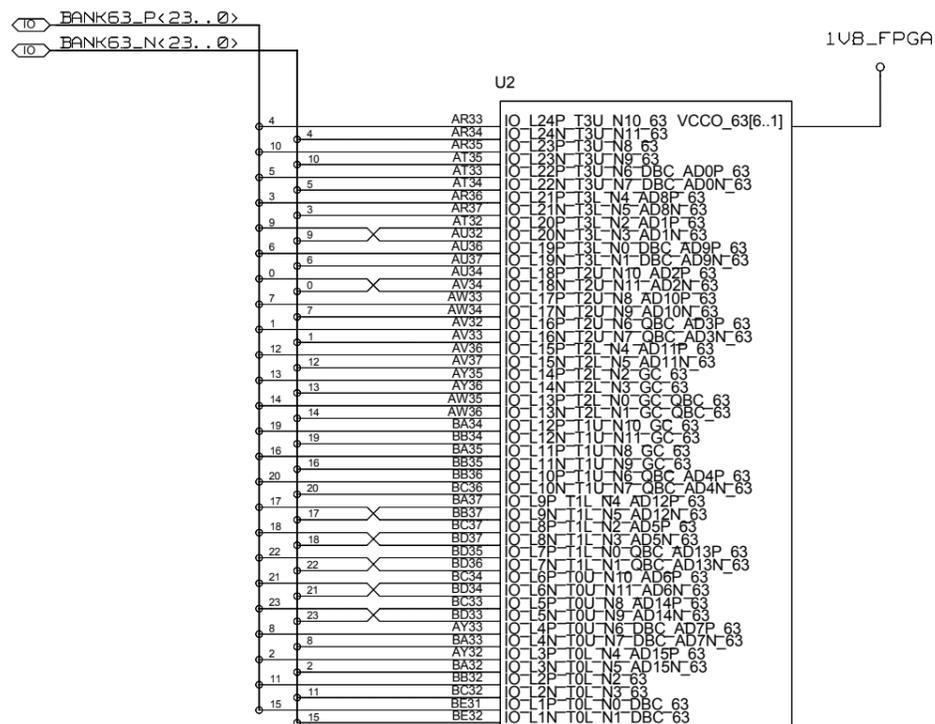
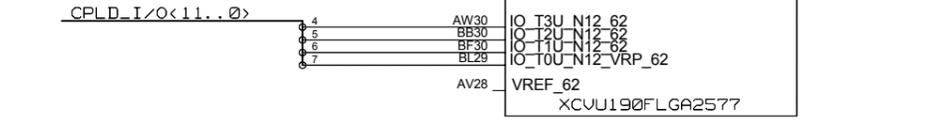
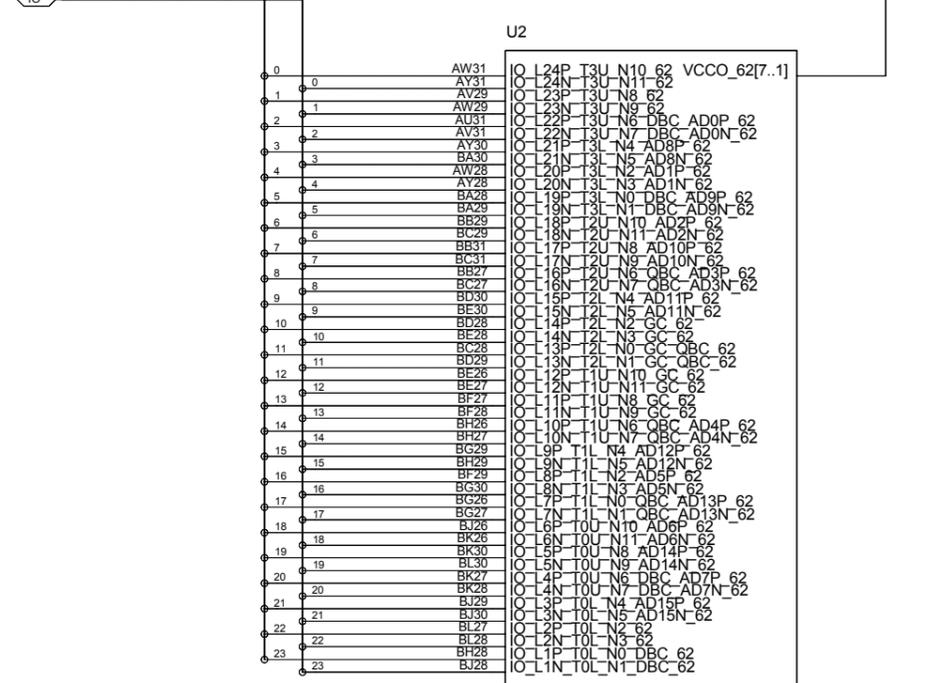
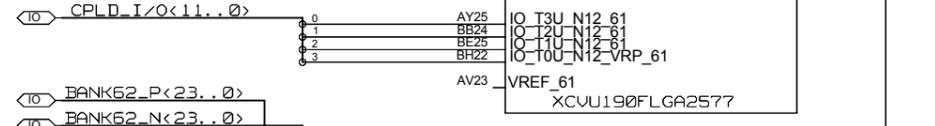
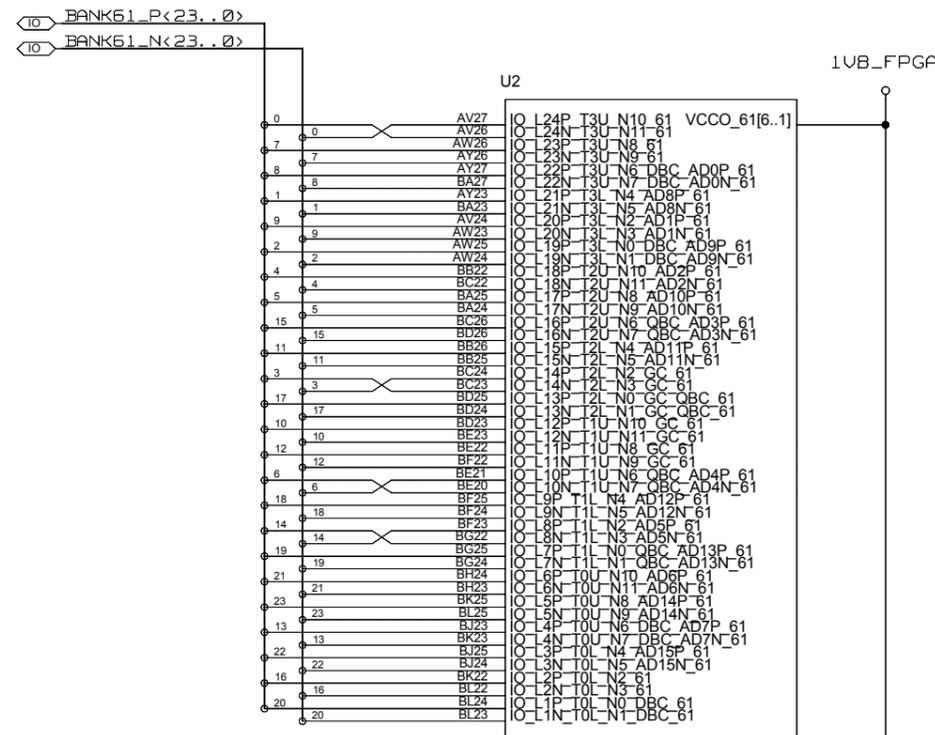
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CHECKED	E.ROCCO			AC COUPLING 29BIT	
CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS				
BLOCK TITLE				SIZE	DRAWING NO.
UNIVERSITY OF MAINZ				C	REV.
				SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



CHECKED	NAME	DATE	SIGN	DRAWING TITLE AC COUPLING 29BIT		
CHECKED	E.ROCCO					
CHECKED	U.SCHAEFER					
CHECKED	S.RAVE					
DRAWN	BAUSS					
BLOCK TITLE				SIZE	REV.	DRAWING NO.
UNIVERSITY OF MAINZ				C		
				SCALE		SHEET OF

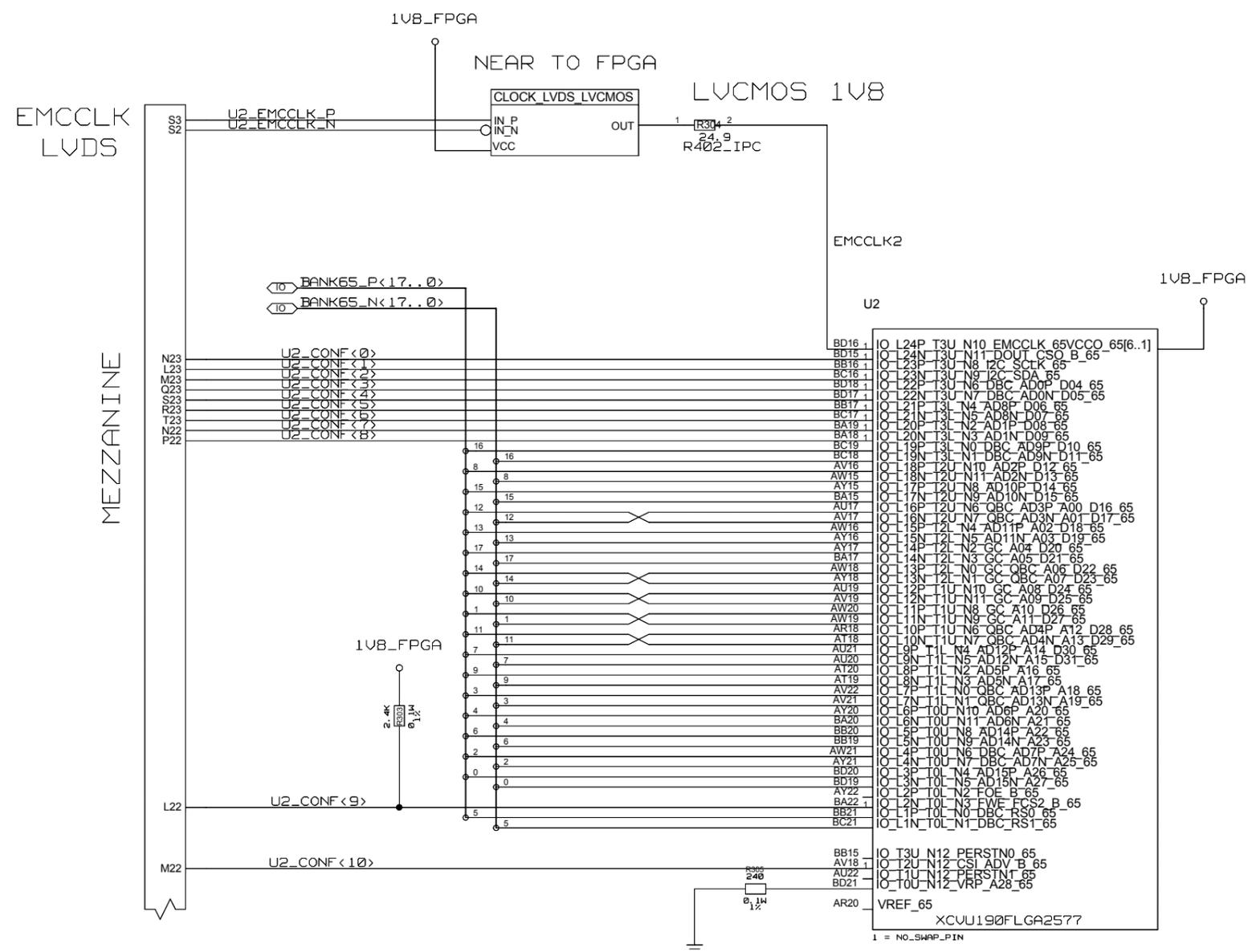
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
61
62
63

NAME	DATE	SIGN	DRAWING TITLE	
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CHECKED U.SCHAEFER				
CHECKED S.RAVE				
DRAWN BAUSS	25.08.2015		BLOCK TITLE	
UNIVERSITY OF MAINZ			SIZE C	DRAWING NO.
SCALE			REV.	SHEET 1 of 5

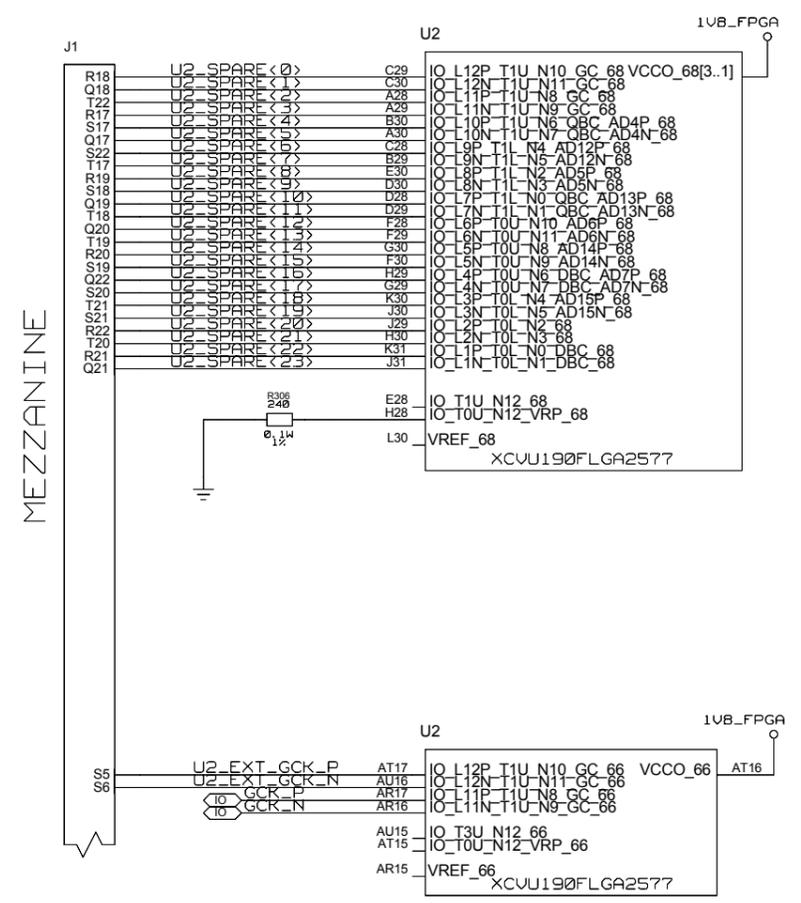
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
65

CHECKED	NAME	DATE	SIGN	DRAWING TITLE JFEX		
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CHECKED	U.SCHAEFER					
CHECKED	S.RAVE					
DRAWN	BAUSS	25.08.2015				
BLOCK TITLE U2_PARALLEL_I/O				SIZE C	REV.	DRAWING NO.
UNIVERSITY OF MAINZ				SCALE		SHEET 2 OF 5

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

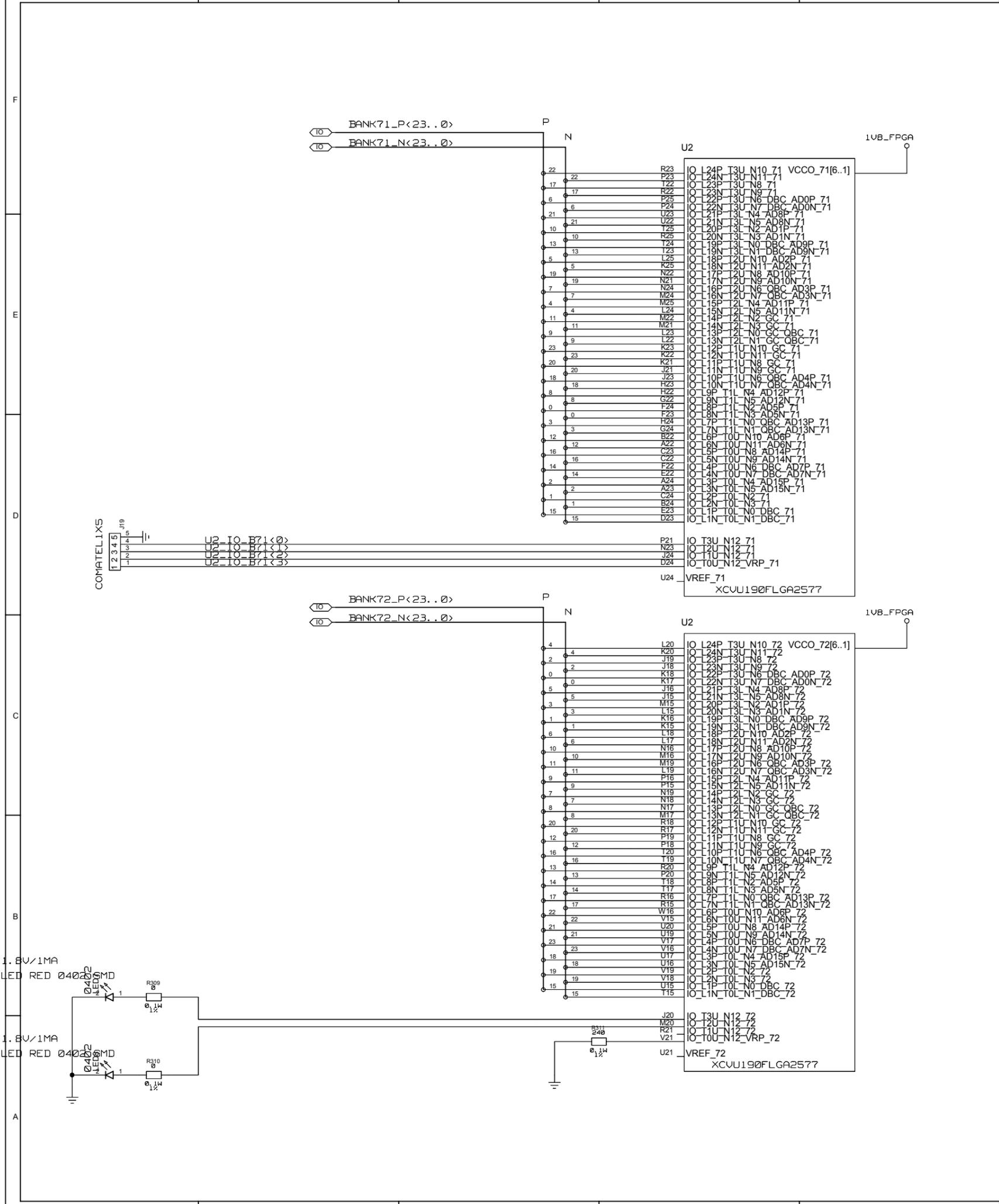


MEZZANINE

BANK
66
68

CHECKED	NAME	DATE	SIGN	DRAWING TITLE <h1>JFEX</h1>
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	U.SCHAEFER			
	S.RAVE			
	BAUSS	25.08.2015		
BLOCK TITLE U2_PARALLEL_I/O				SIZE C
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
				SHEET 3 OF 5

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
71
72

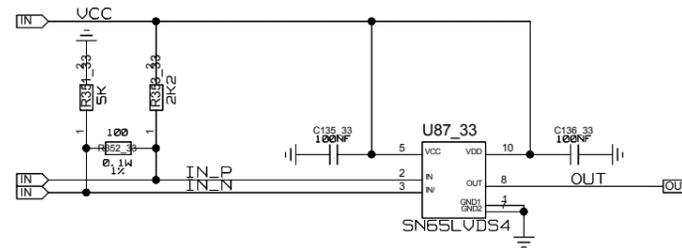
CHECKED	NAME	DATE	SIGN
CHECKED	E.ROCCO		
CHECKED	U.SCHAEFER		
CHECKED	S.RAVE		
DRAWN	BAUSS	25.08.2015	

DRAWING TITLE		
JFEX		
BLOCK TITLE		
U2_PARALLEL_I/O		
SIZE	REV.	DRAWING NO.
C		
SCALE		SHEET 5 OF 5

UNIVERSITY OF MAINZ

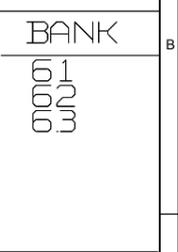
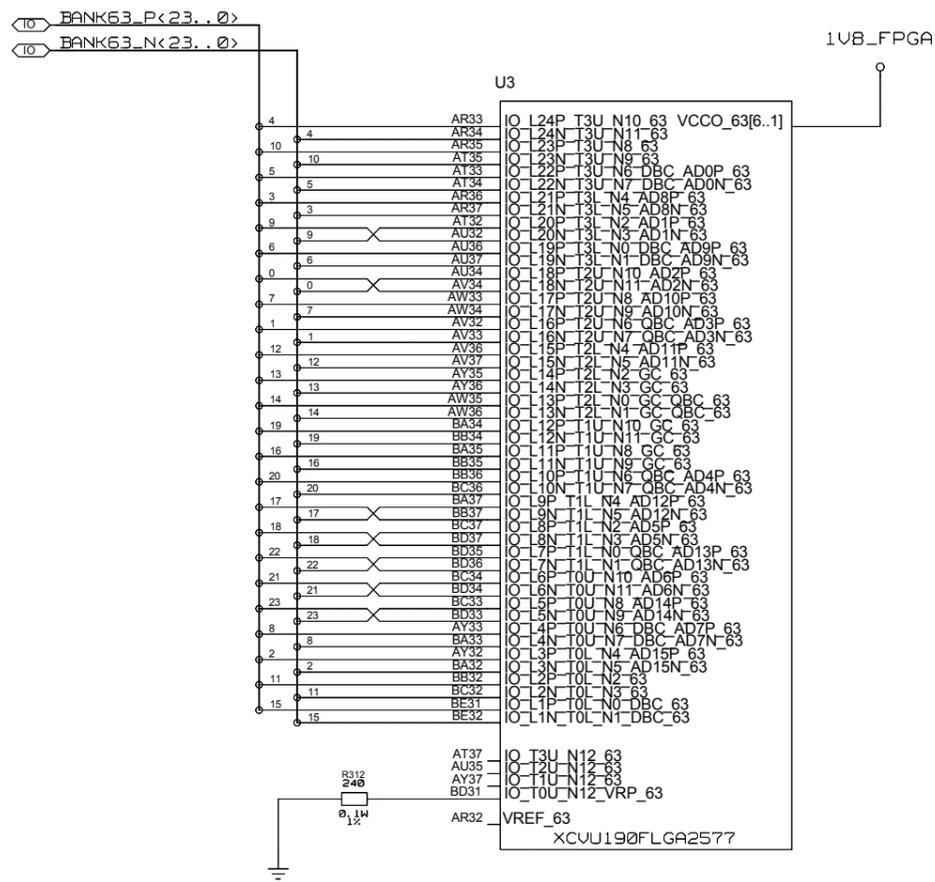
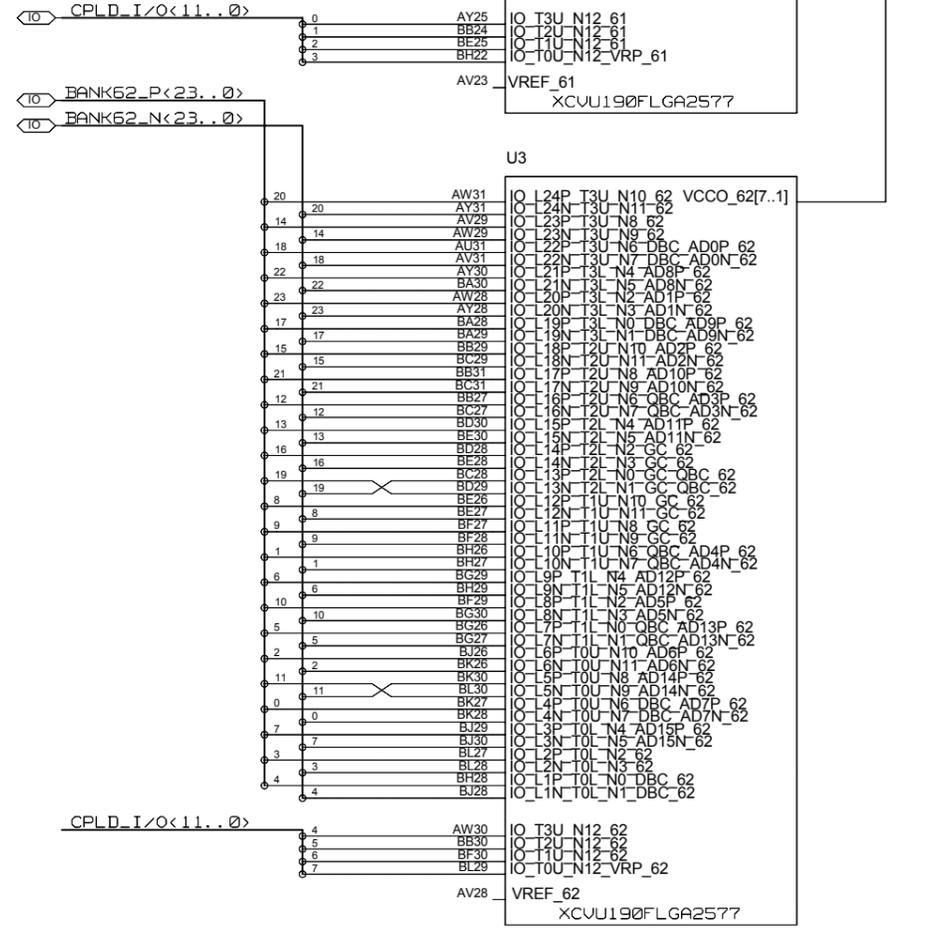
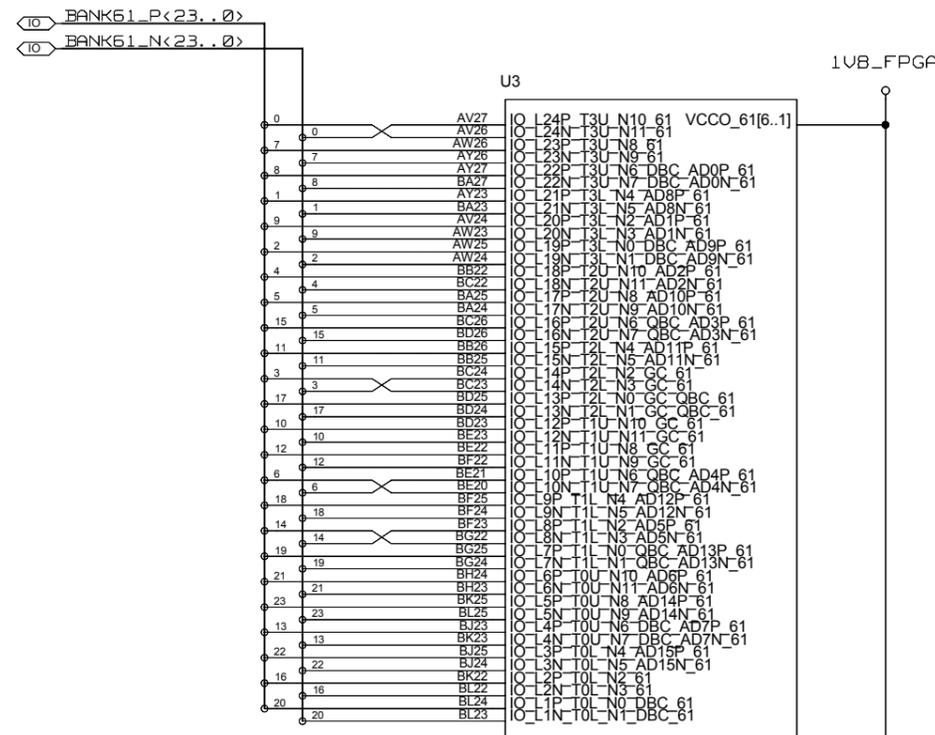
REVISIONS

ZONE	LTR	DESCRIPTION	DATE	APPR.



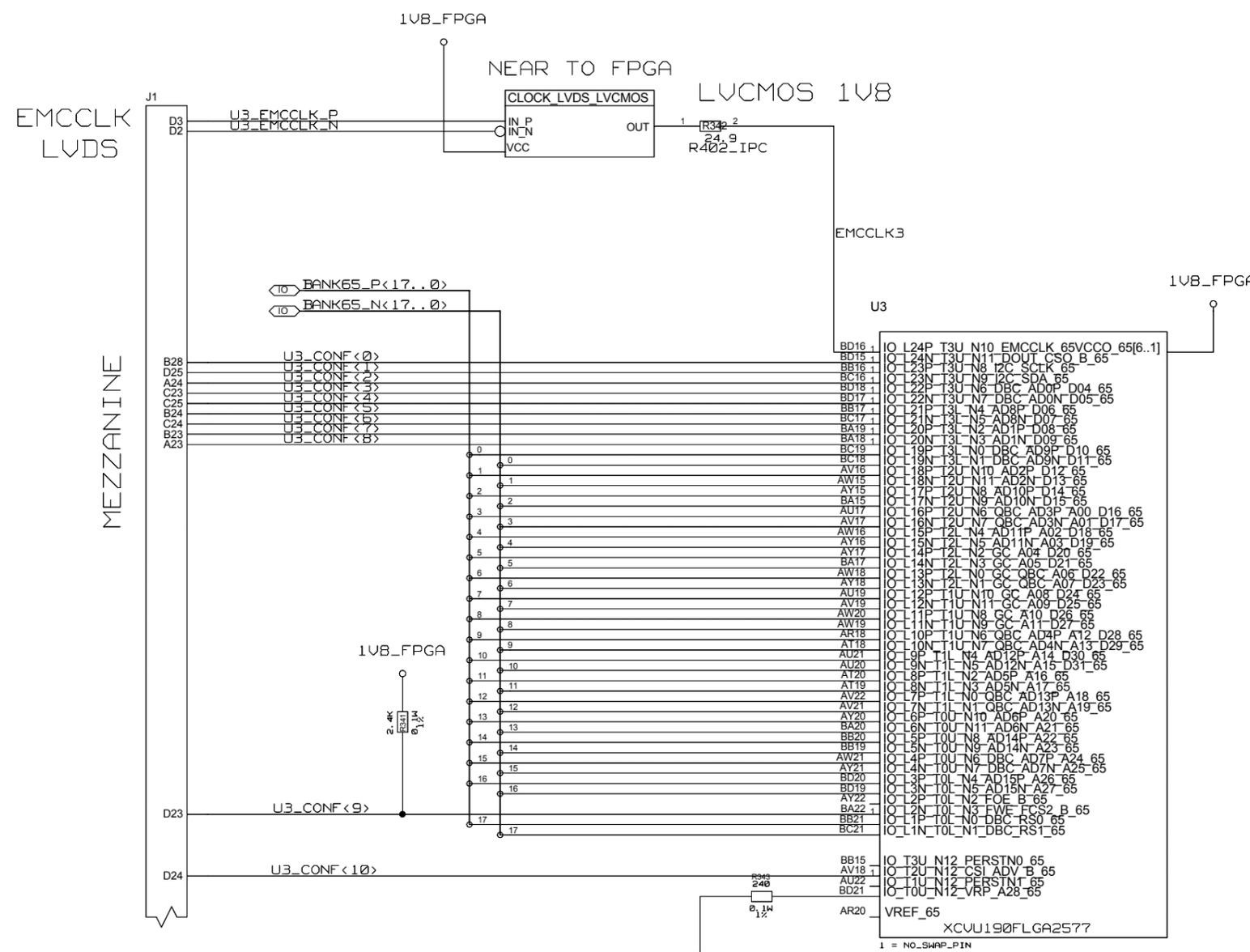
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CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS				
BLOCK TITLE				DRAWING NO.	
CLOCK_LVDS_LVCMOS				SIZE	REV.
UNIVERSITY OF MAINZ				C	
				SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



NAME	DATE	SIGN	DRAWING TITLE	
CHECKED	E.ROCCO		JFEX	
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	25.08.2015	BLOCK TITLE	
			U3_PARALLEL_I/O	
			UNIVERSITY OF MAINZ	
SIZE	REV.	DRAWING NO.		
C				
SCALE		SHEET 1 of 5		

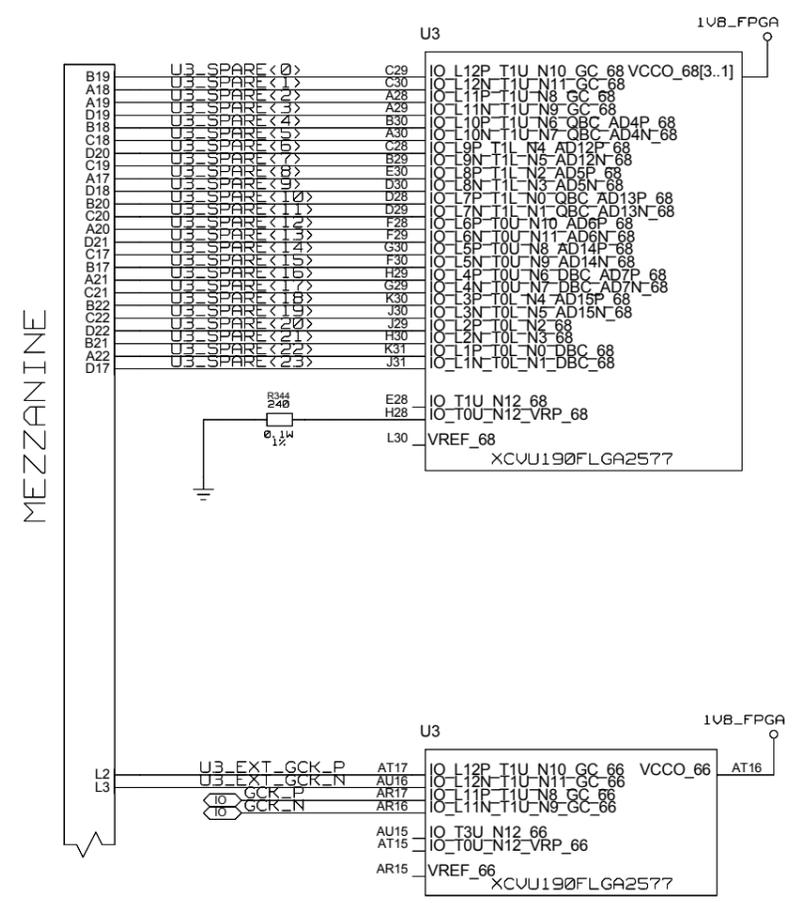
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
65

CHECKED	NAME	DATE	SIGN	DRAWING TITLE JFEX
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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	25.08.2015		
BLOCK TITLE U3_PARALLEL_I/O				SIZE C
UNIVERSITY OF MAINZ				DRAWING NO.
SCALE				SHEET 2 OF 5

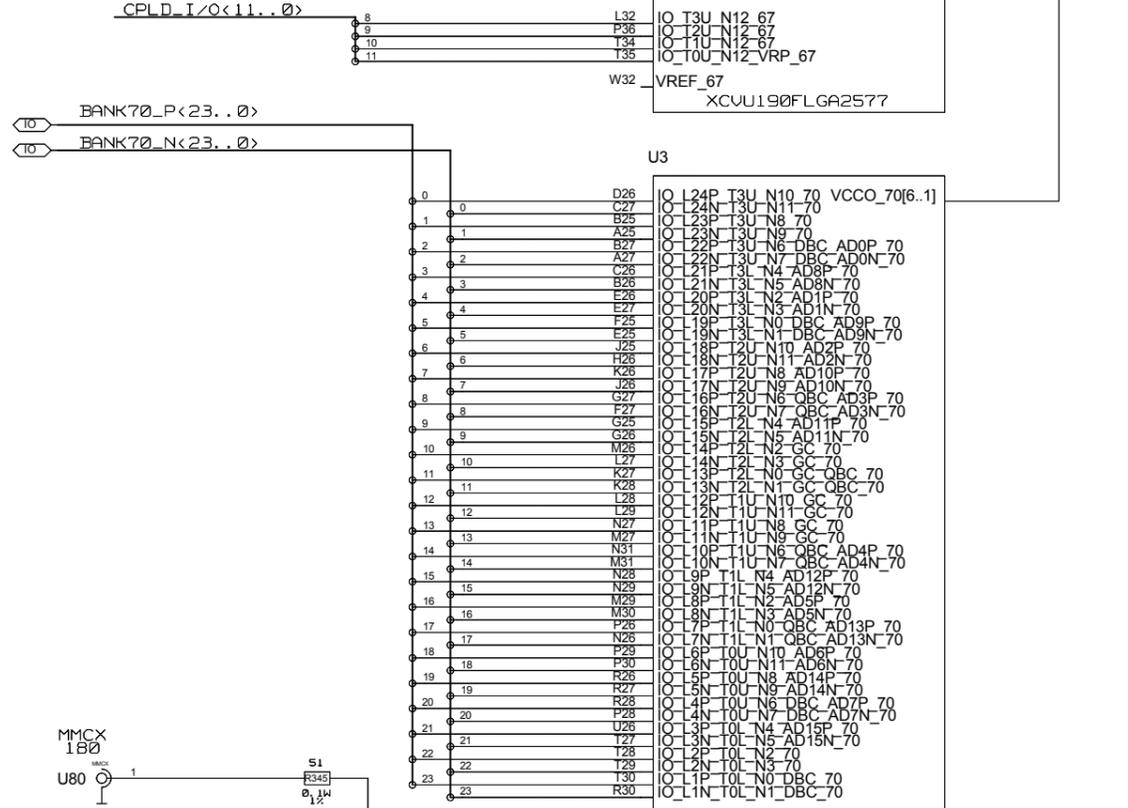
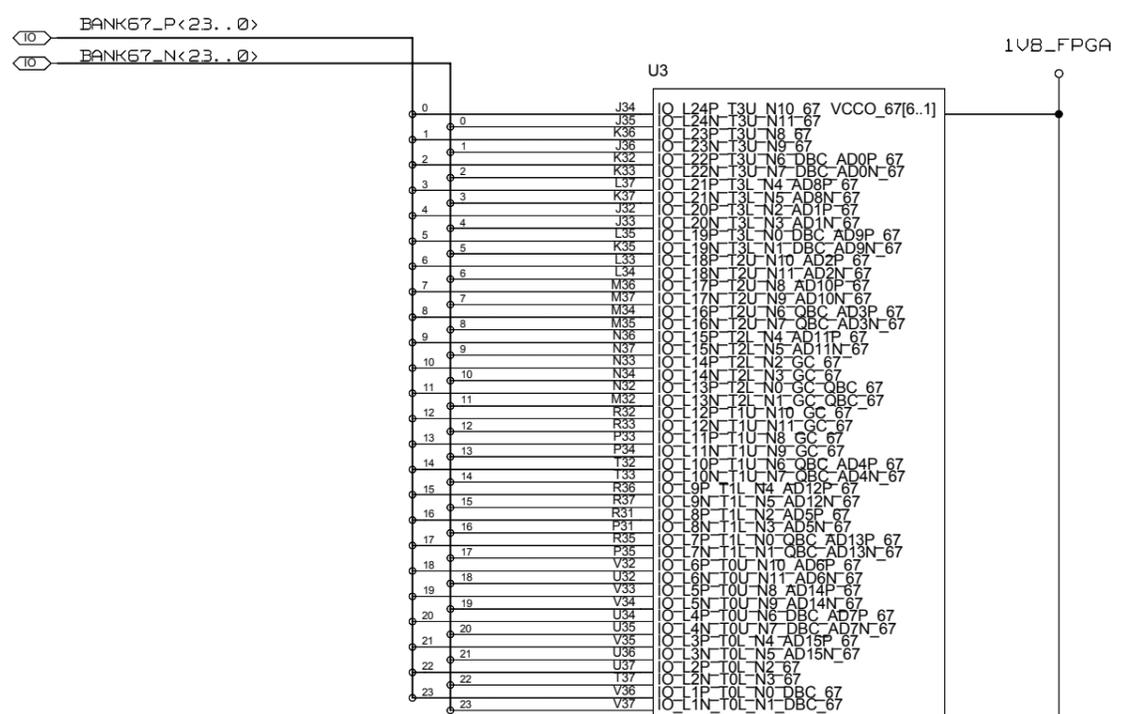
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
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CHECKED	NAME	DATE	SIGN	DRAWING TITLE <h1>JFEX</h1>
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	U.SCHAEFER			
	S.RAVE			
	BAUSS	25.08.2015		
BLOCK TITLE U3_PARALLEL_I/O				SIZE C
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
				SHEET 3 OF 5

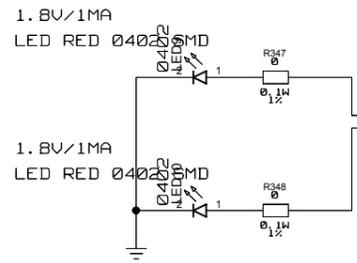
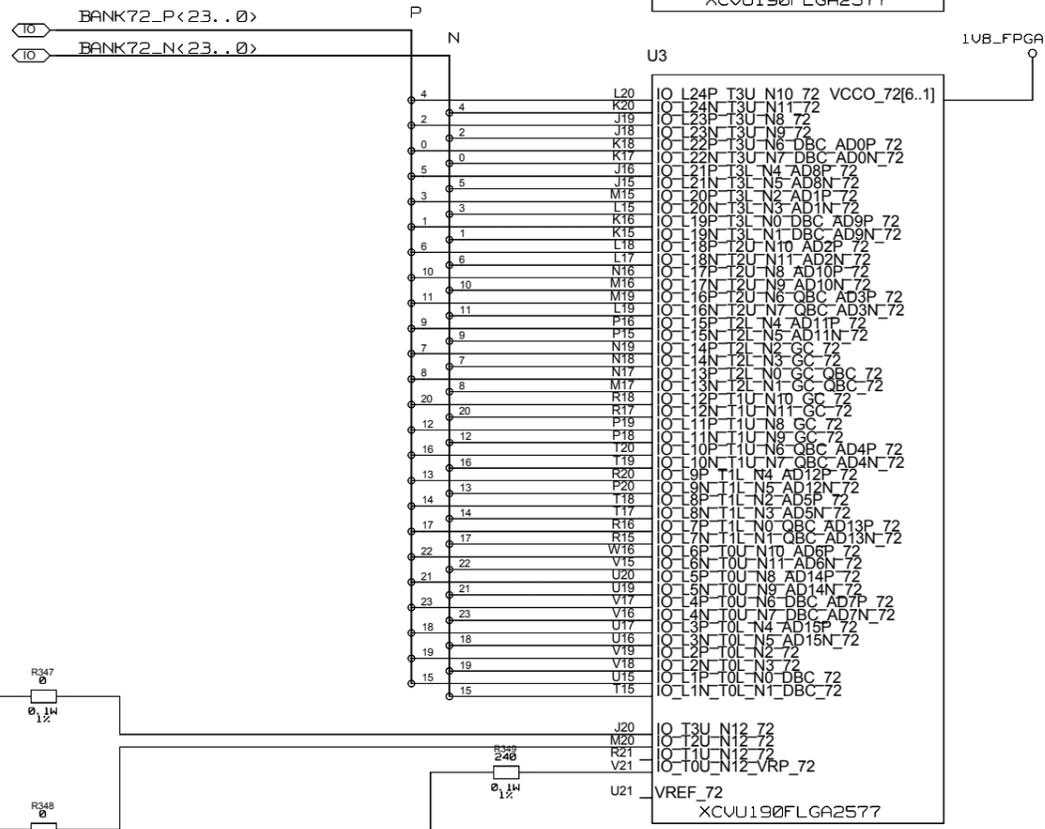
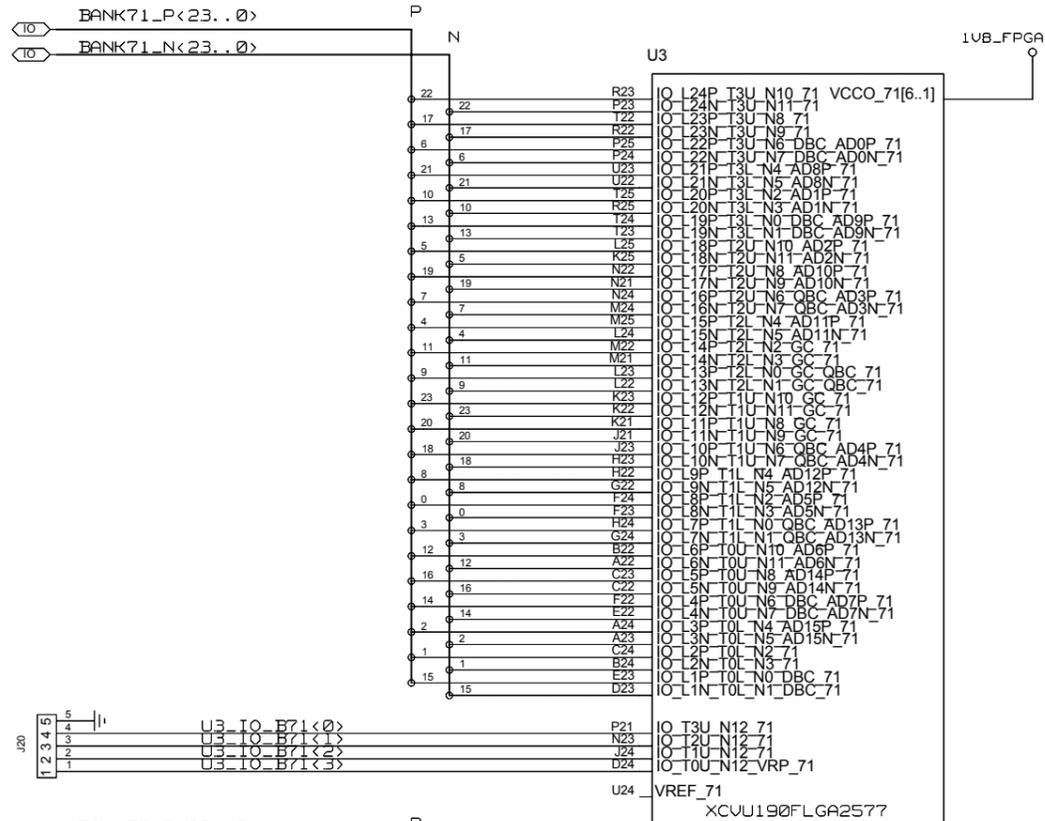
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ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
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CHECKED	NAME	DATE	SIGN	DRAWING TITLE JFEX
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	U.SCHAEFER			
	S.RAVE			
	BAUSS	25.08.2015		
BLOCK TITLE U3_PARALLEL_I/O				SIZE C
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
				SHEET 4 of 5

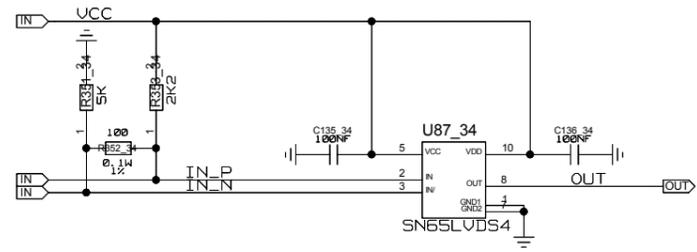
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ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
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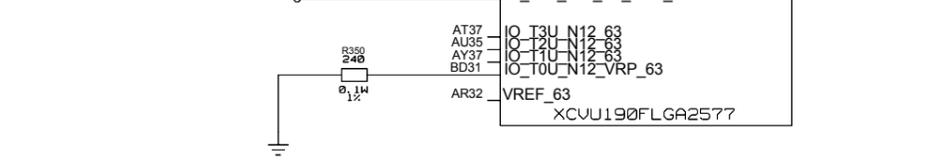
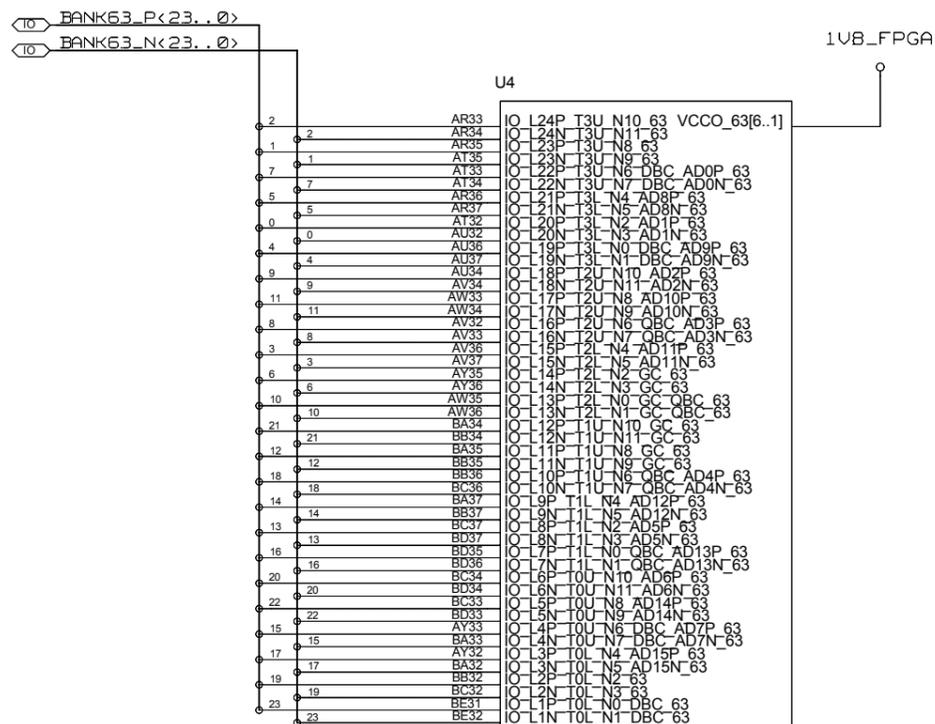
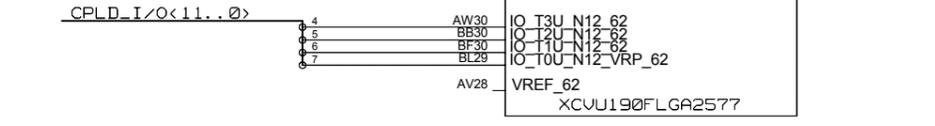
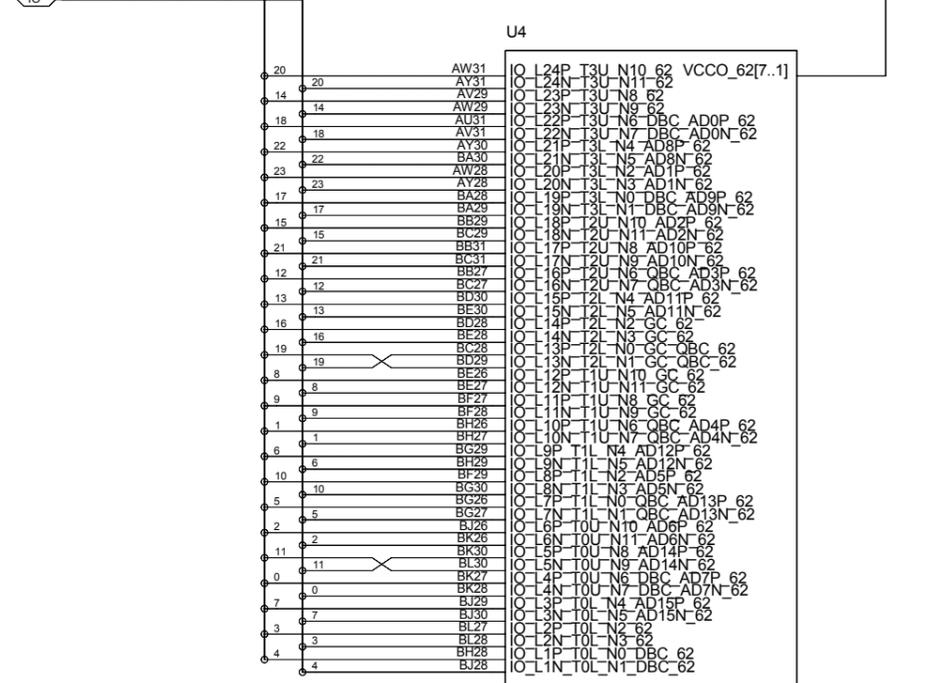
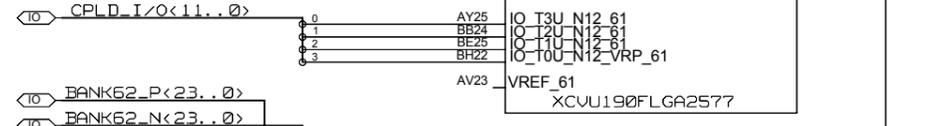
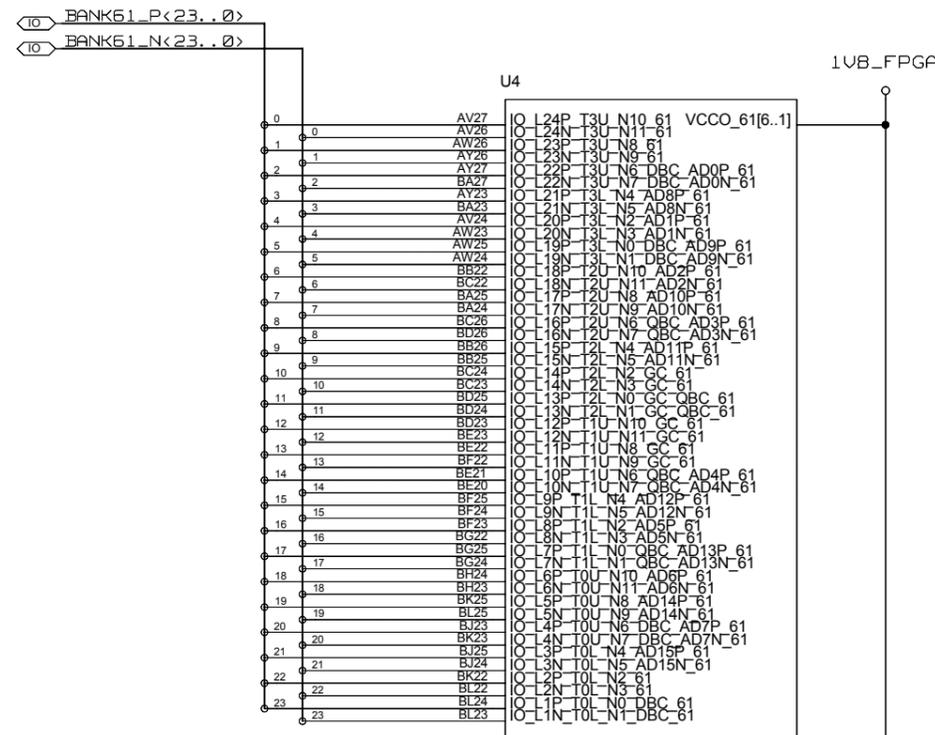
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CHECKED U.SCHAEFER				
CHECKED S.RAVE				
DRAWN BAUSS	25.08.2015			
BLOCK TITLE			UNIVERSITY OF MAINZ	
SIZE C		REV.	DRAWING NO.	
SCALE				SHEET 5 of 5

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS				
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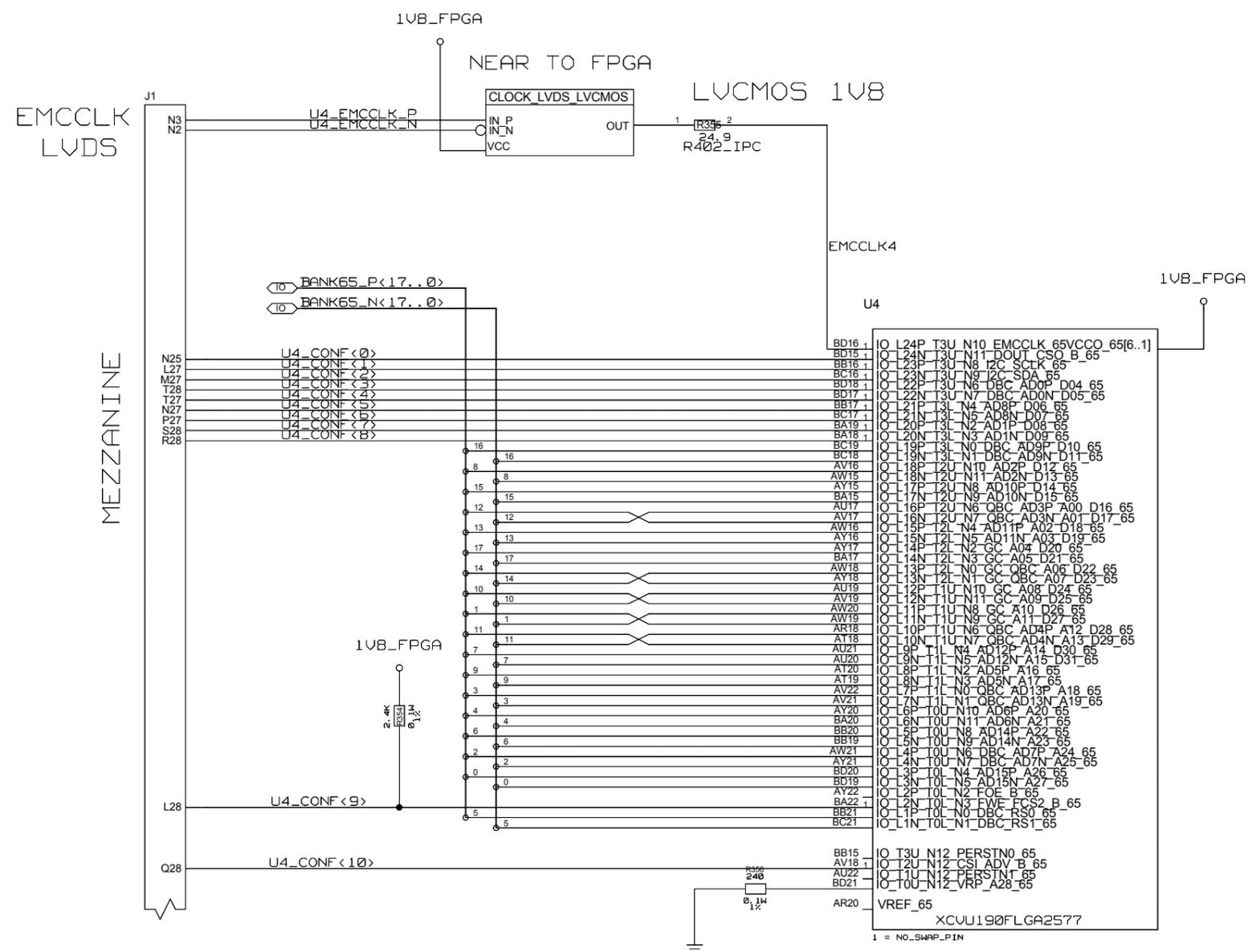
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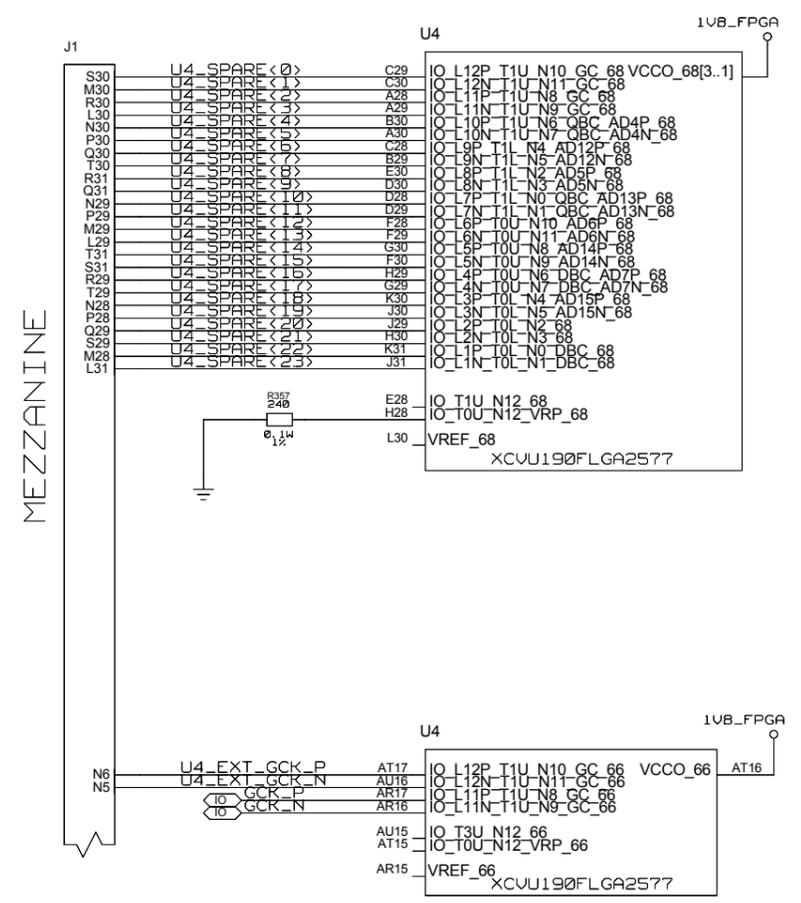
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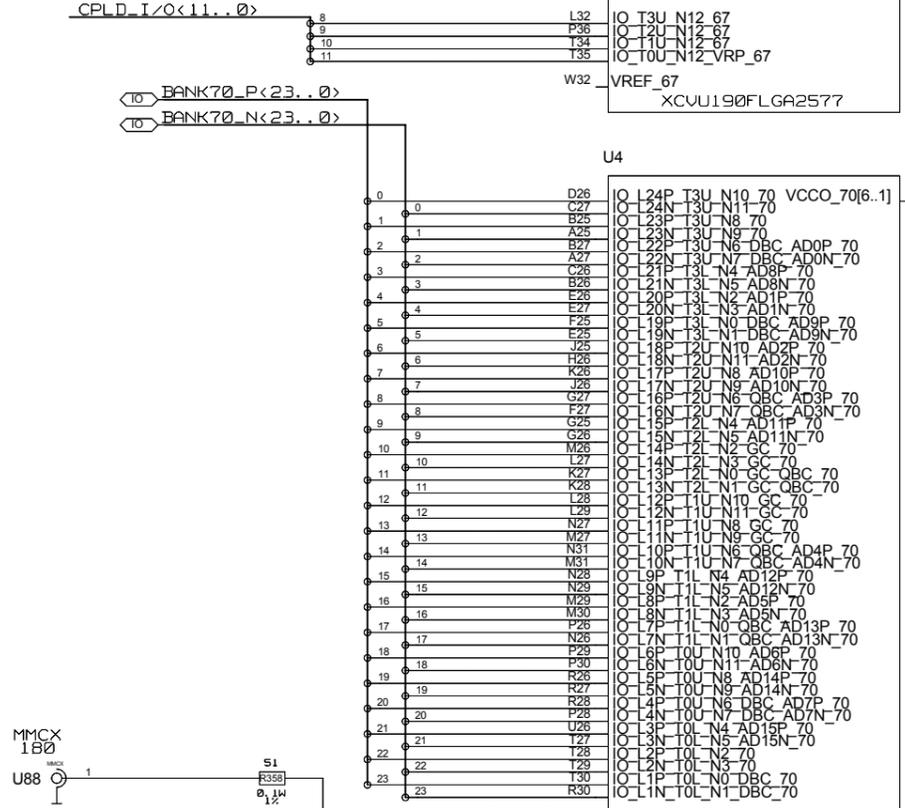
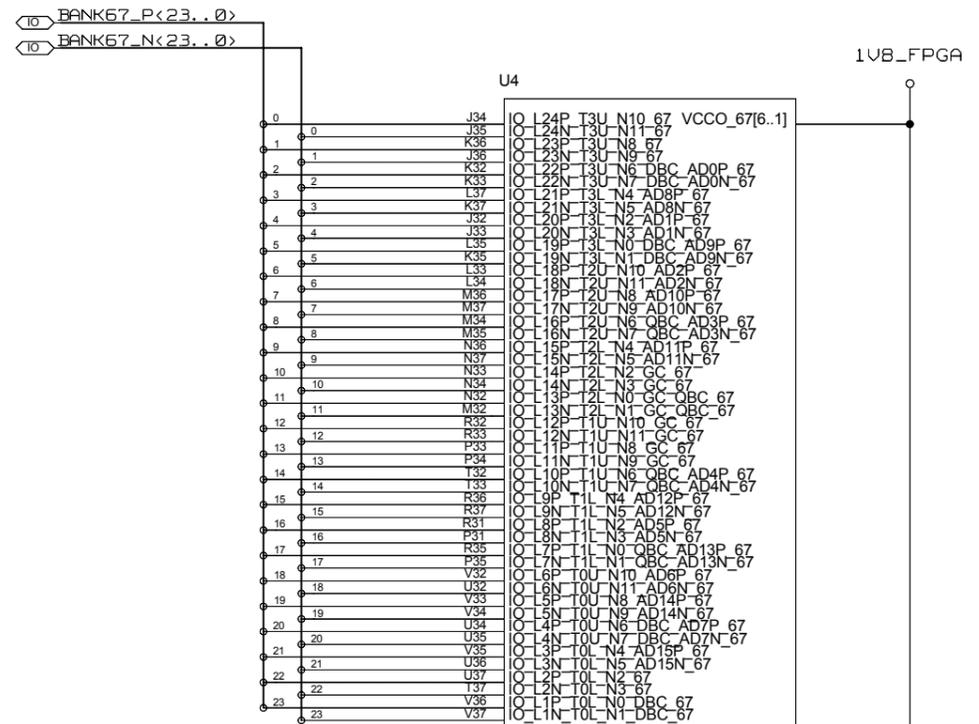
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UNIVERSITY OF MAINZ				
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SCALE			SHEET 3 OF 5	

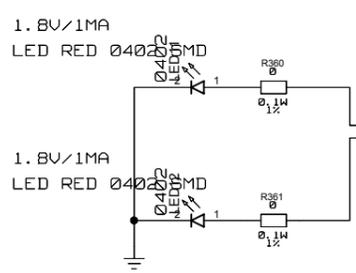
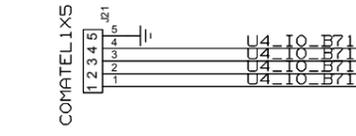
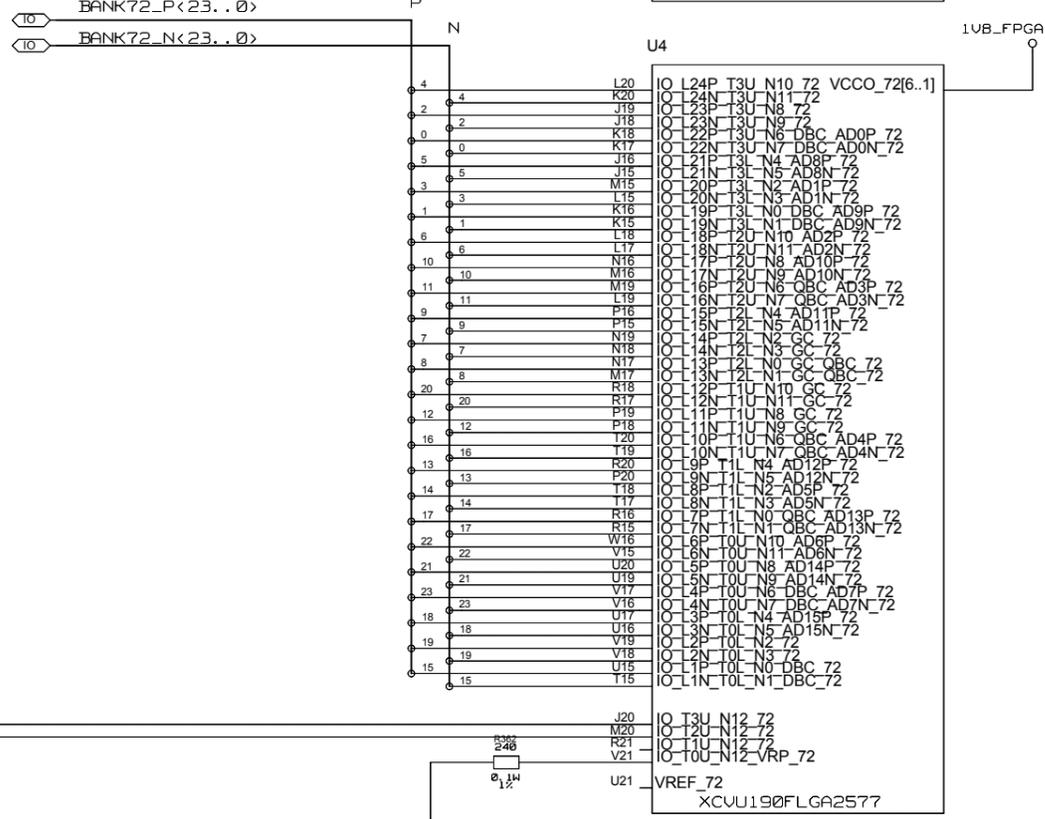
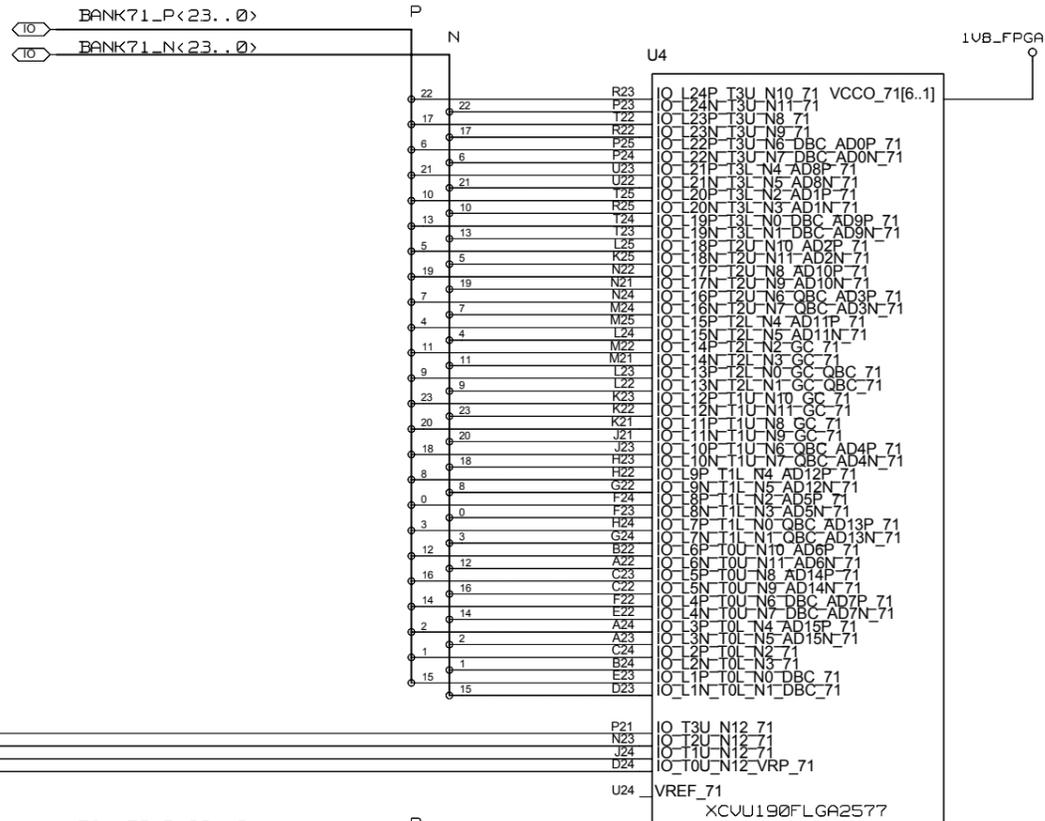
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ZONE	LTR	DESCRIPTION	DATE	APPR.



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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	25.08.2015		
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SCALE				SHEET 4 of 5

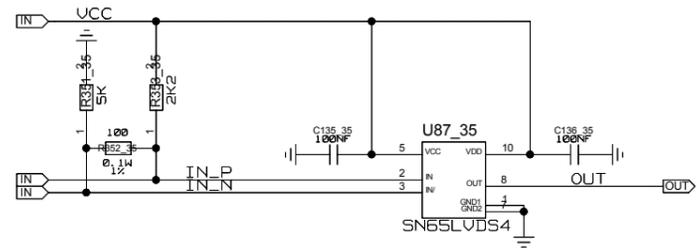
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SCALE		SHEET 5 of 5	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

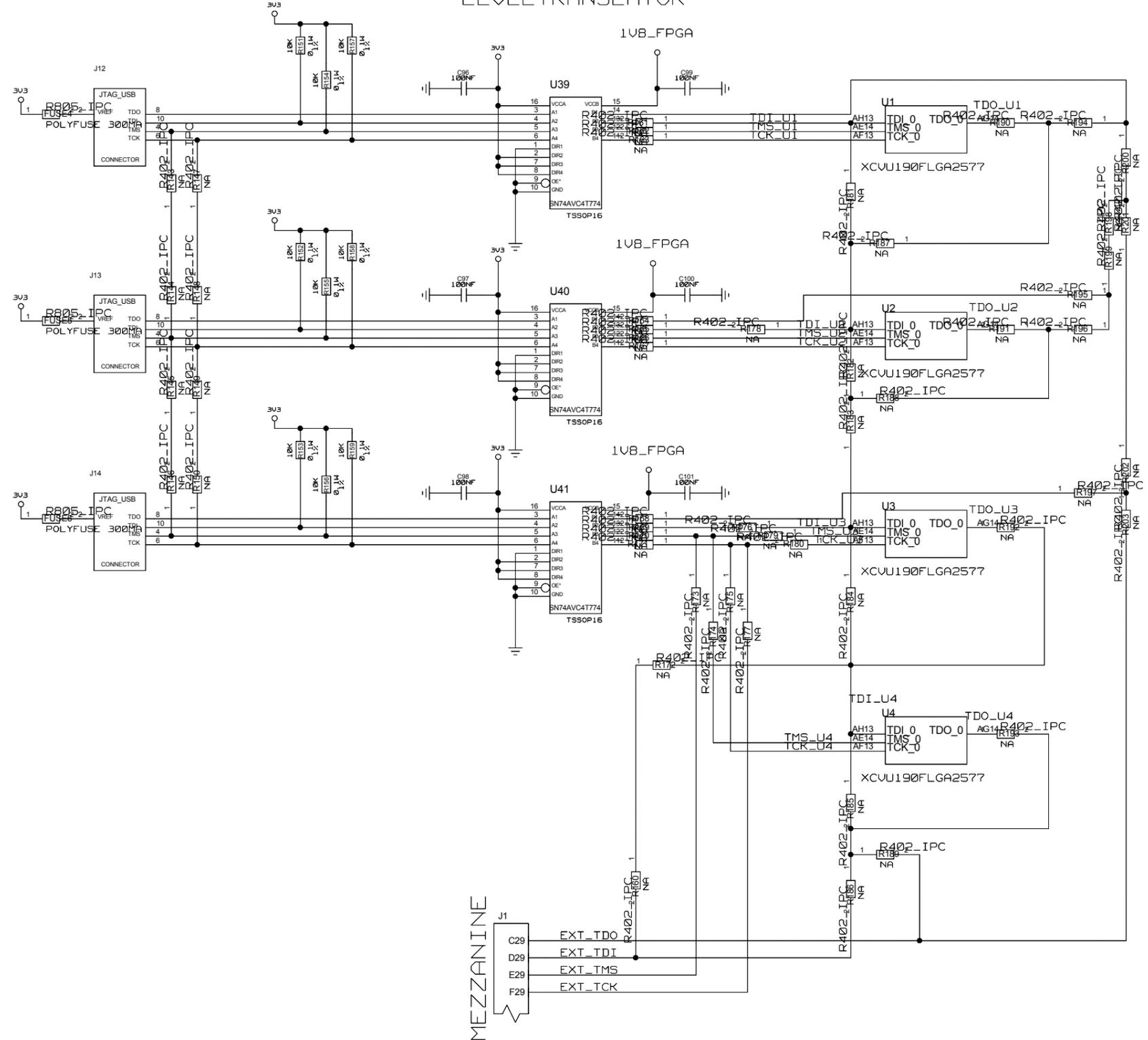


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UNIVERSITY OF MAINZ				C	
				SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

CLOSE TOGETHER
NEAR FRONTPANEL

LEVEL TRANSLATOR



MEZZANINE

	NAME	DATE	SIGN	DRAWING TITLE
CHECKED	E.ROCCO			
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	15.07.2015		
BLOCK TITLE				DRAWING NO.
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UNIVERSITY OF MAINZ				
	SIZE	REV.		SHEET OF
	C			
	SCALE			

JTAG CHAIN