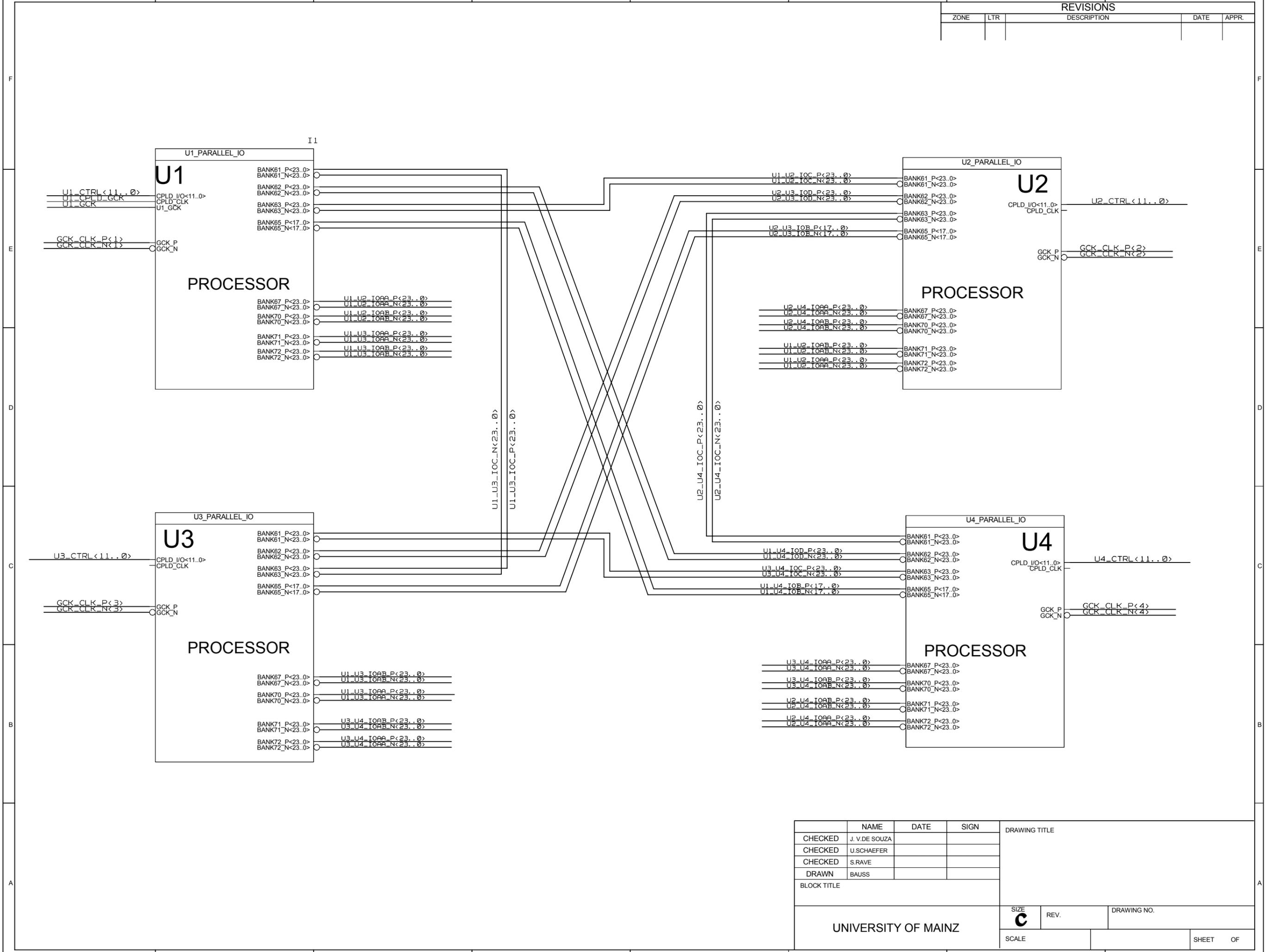
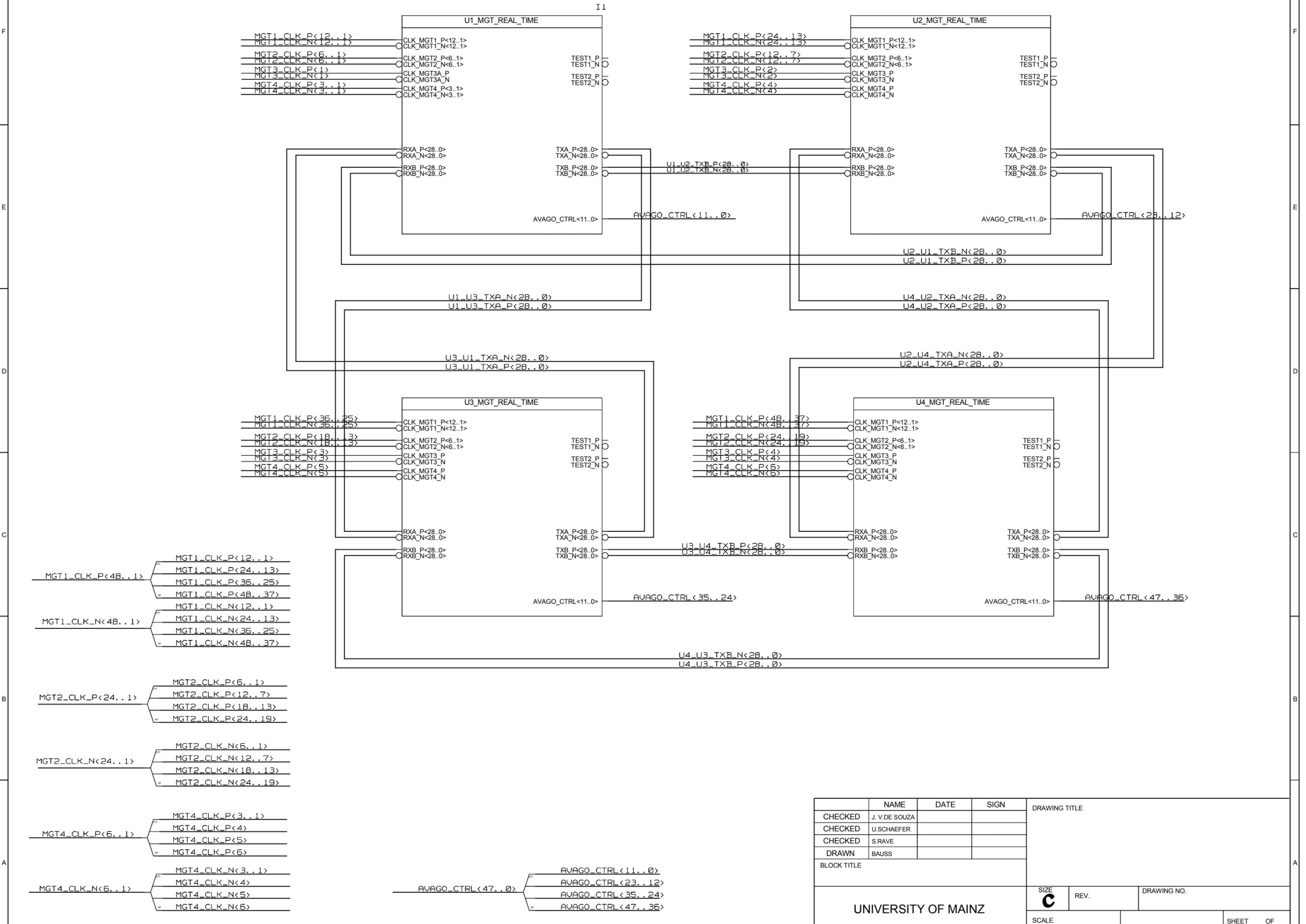


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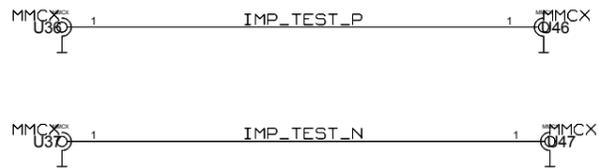
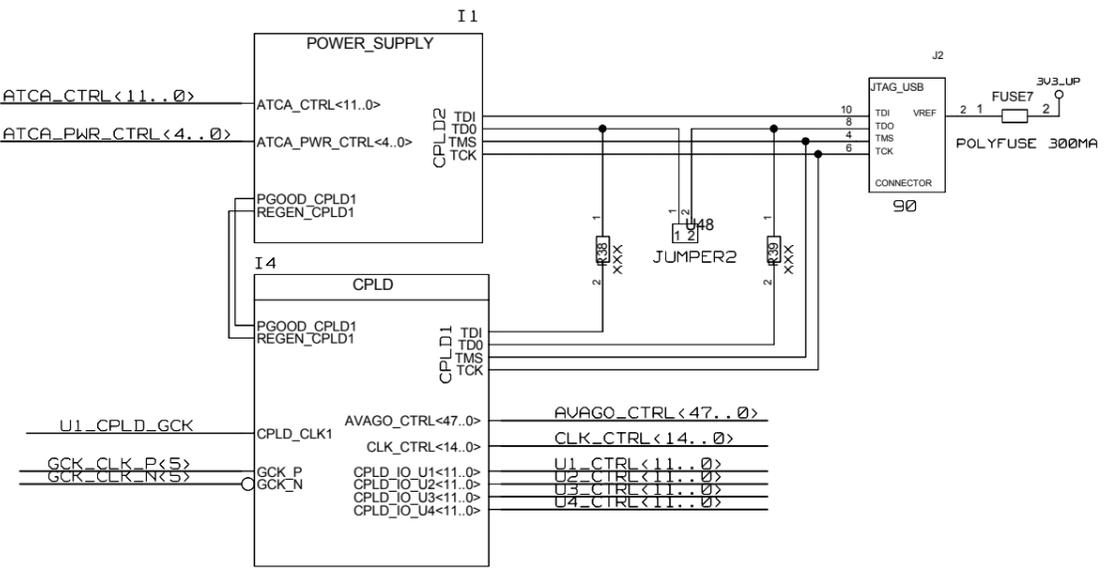
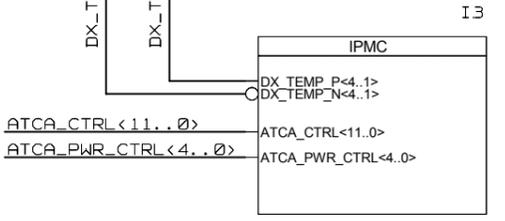
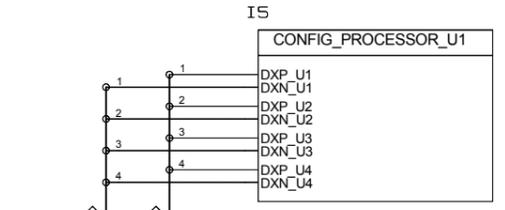
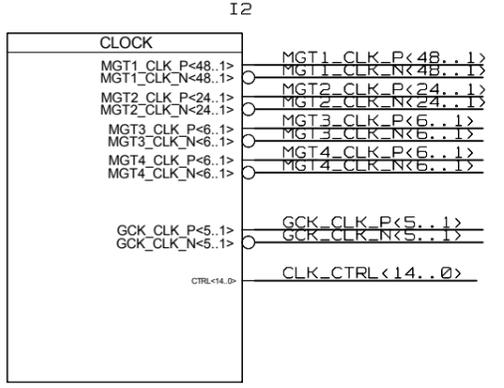
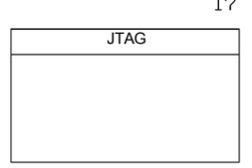
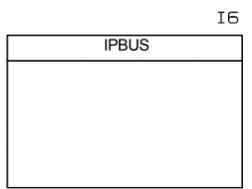
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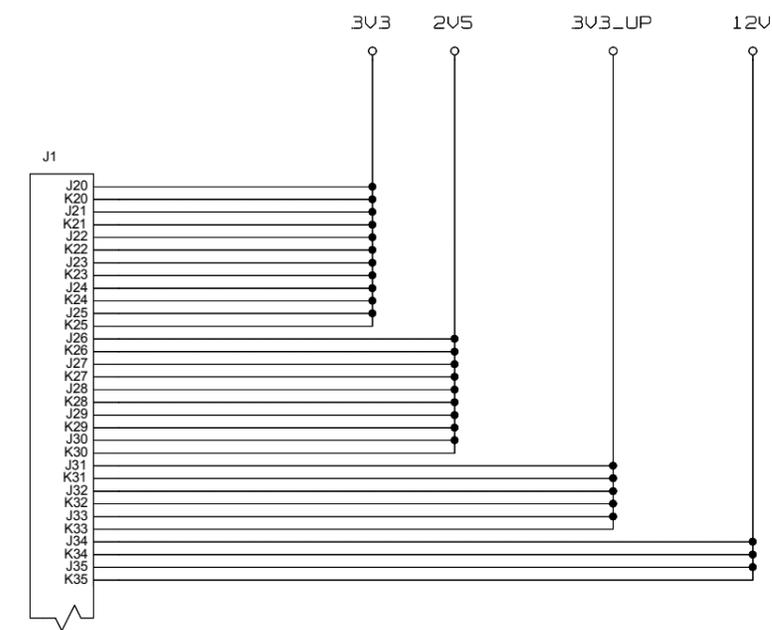
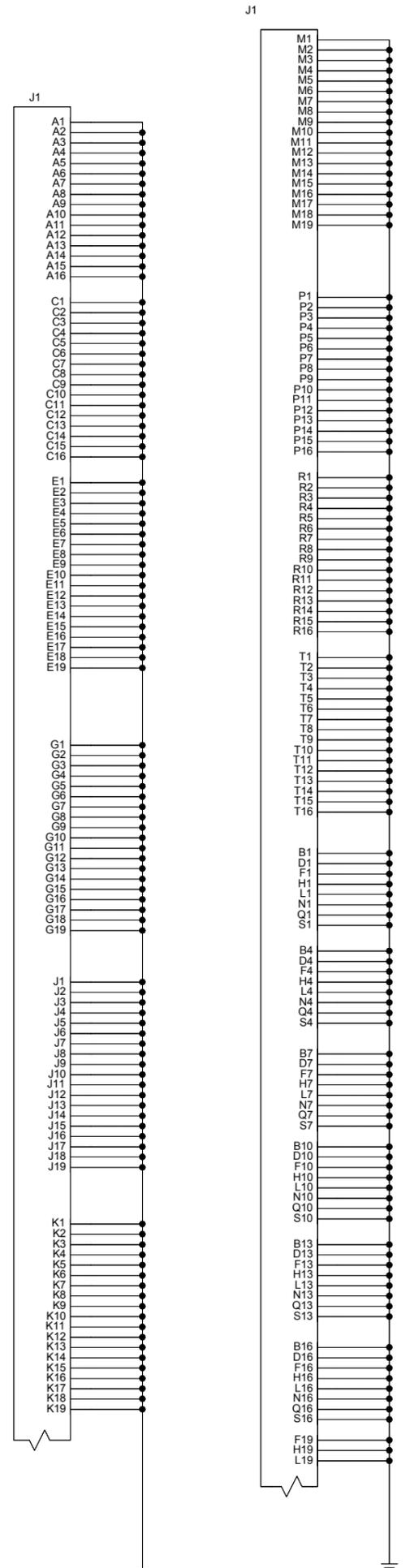
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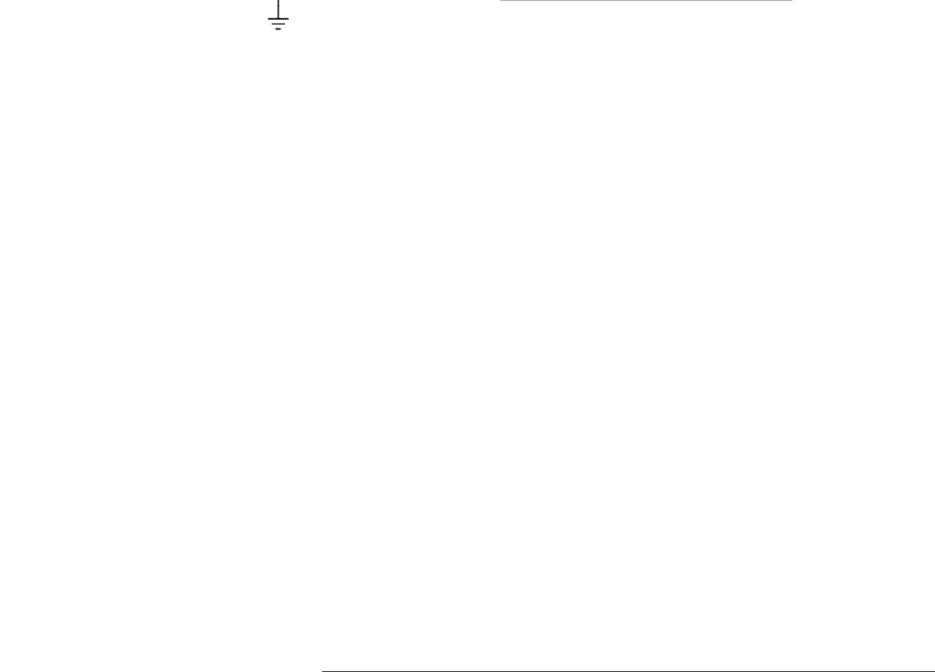
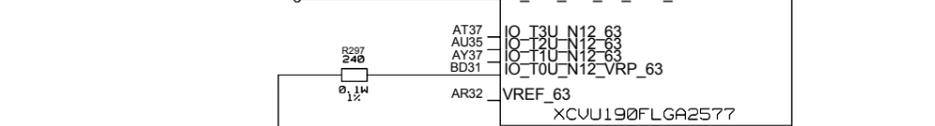
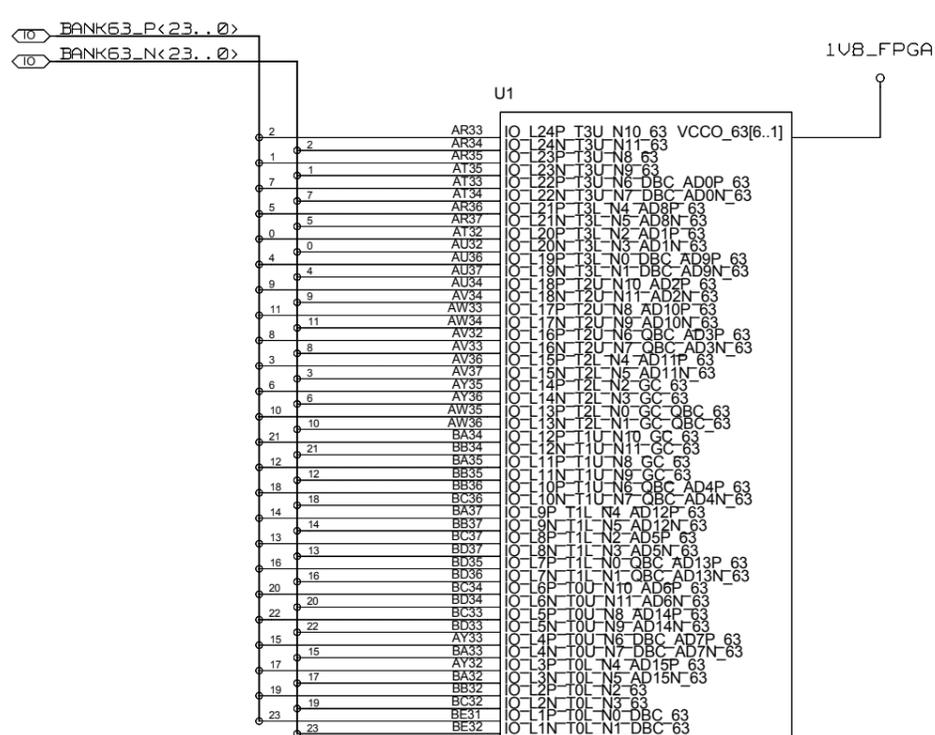
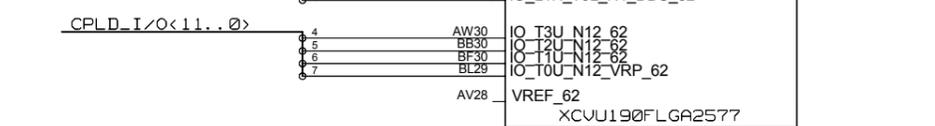
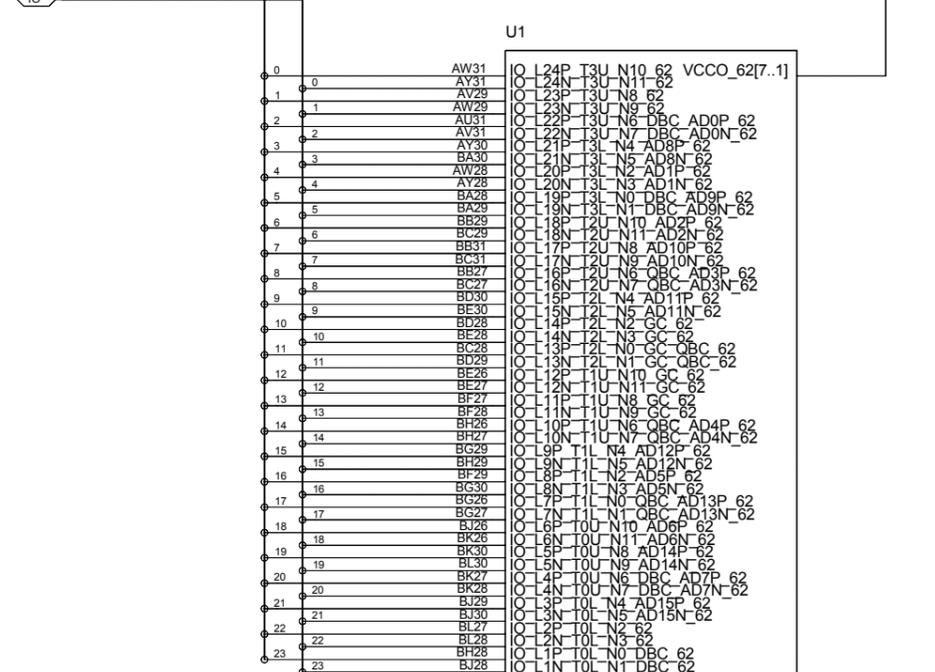
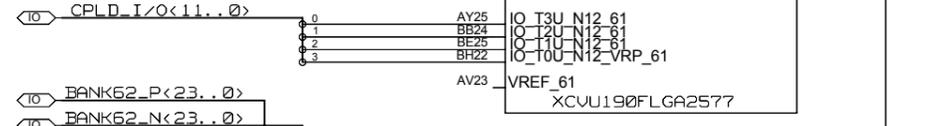
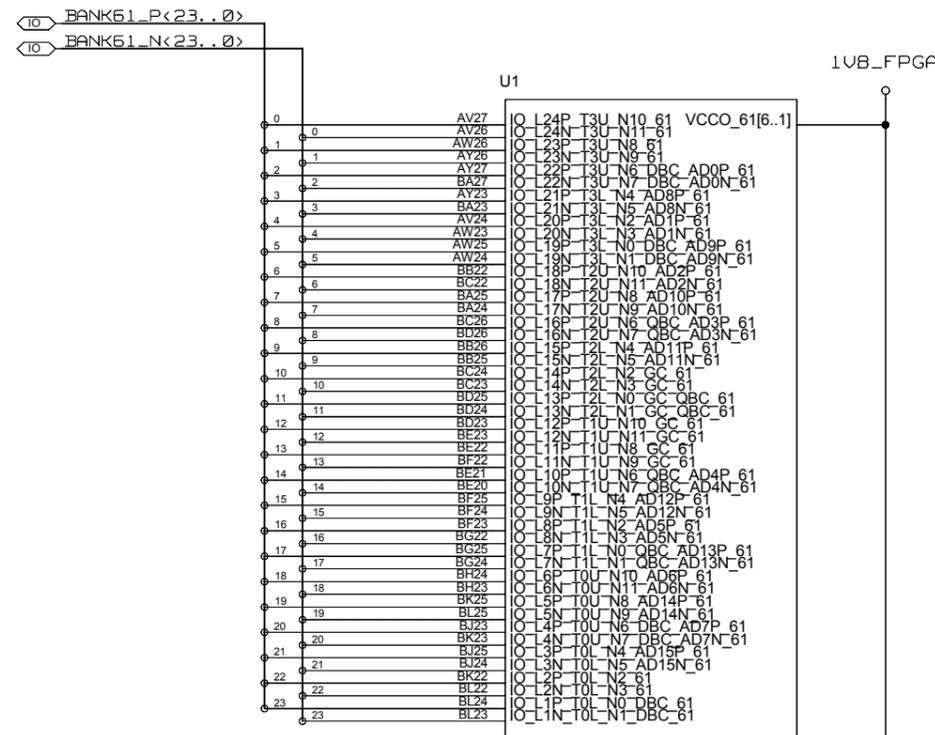
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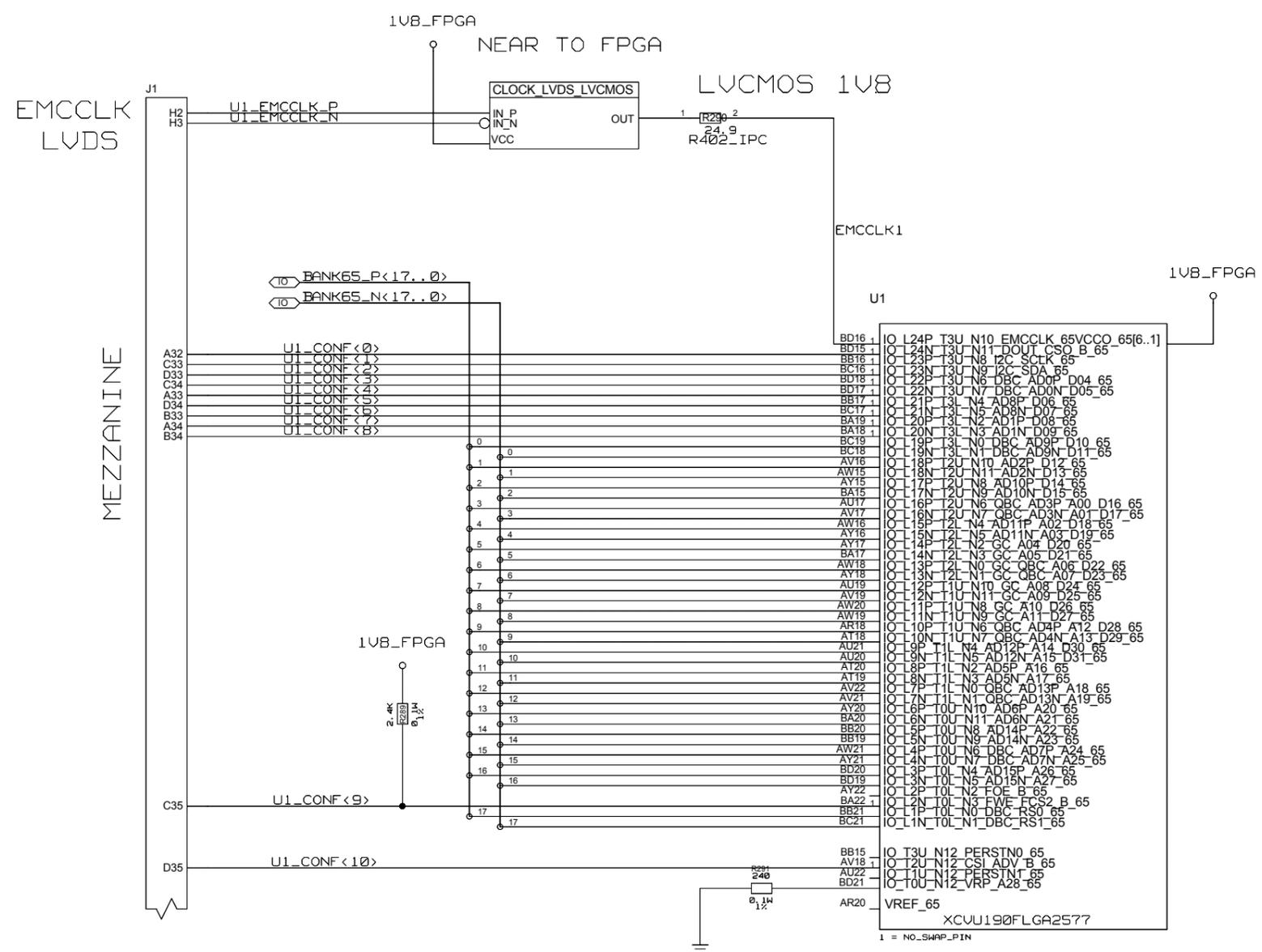


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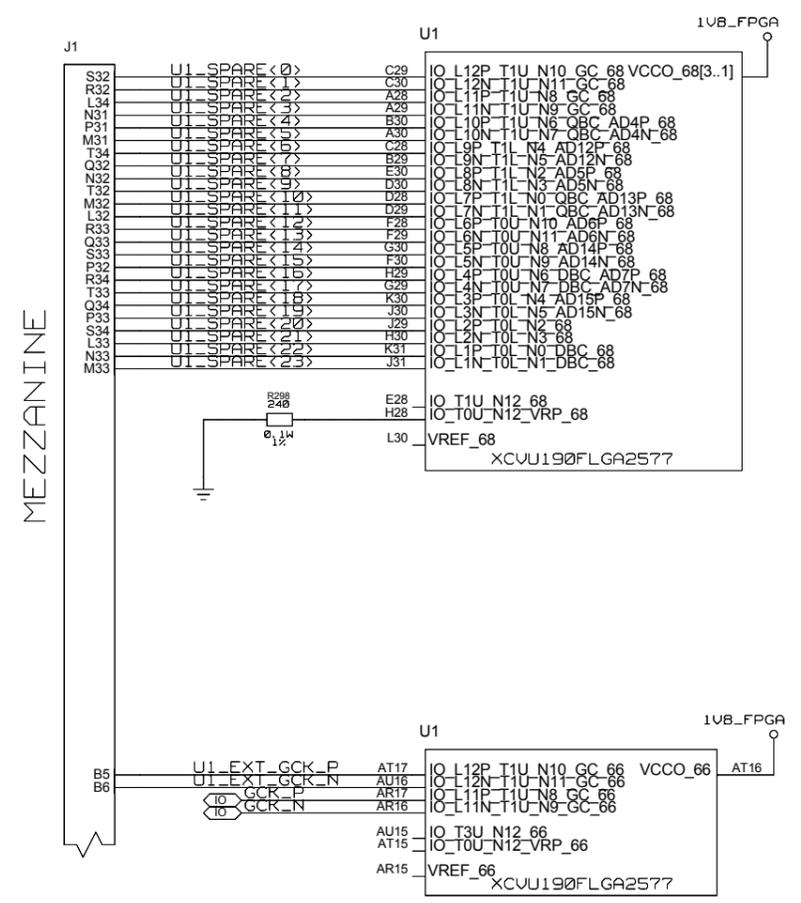
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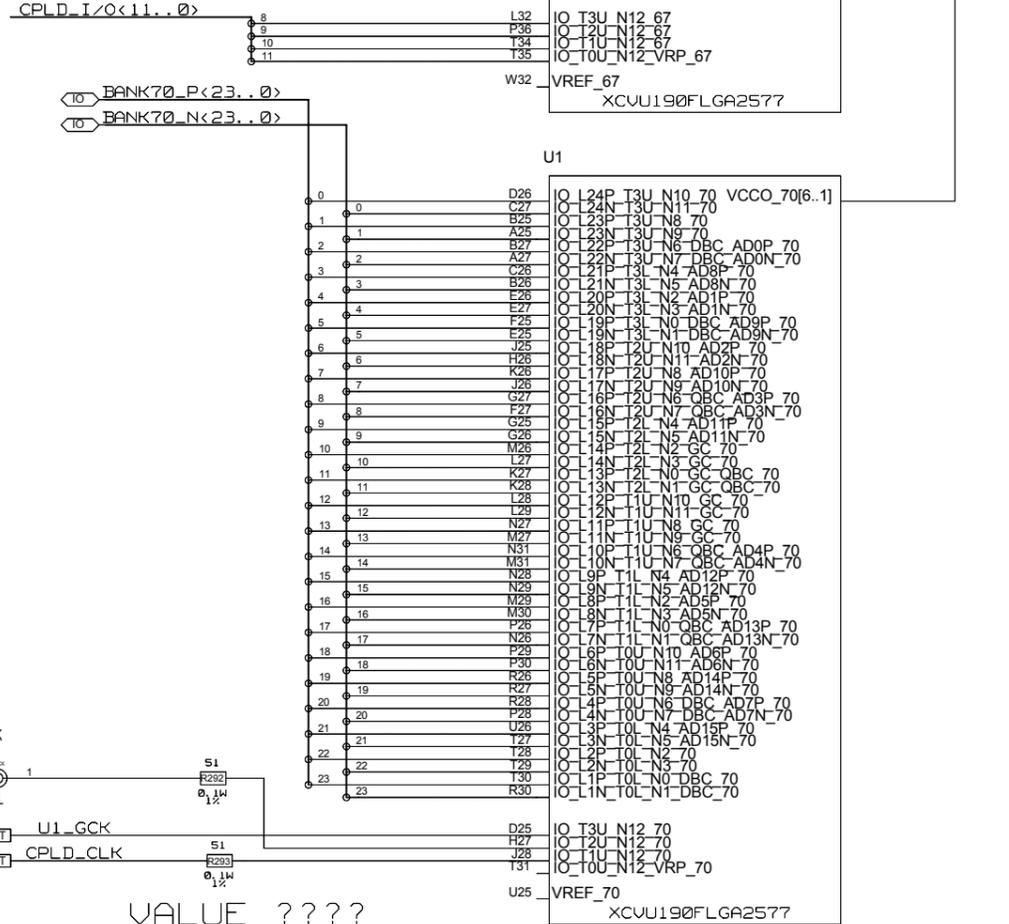
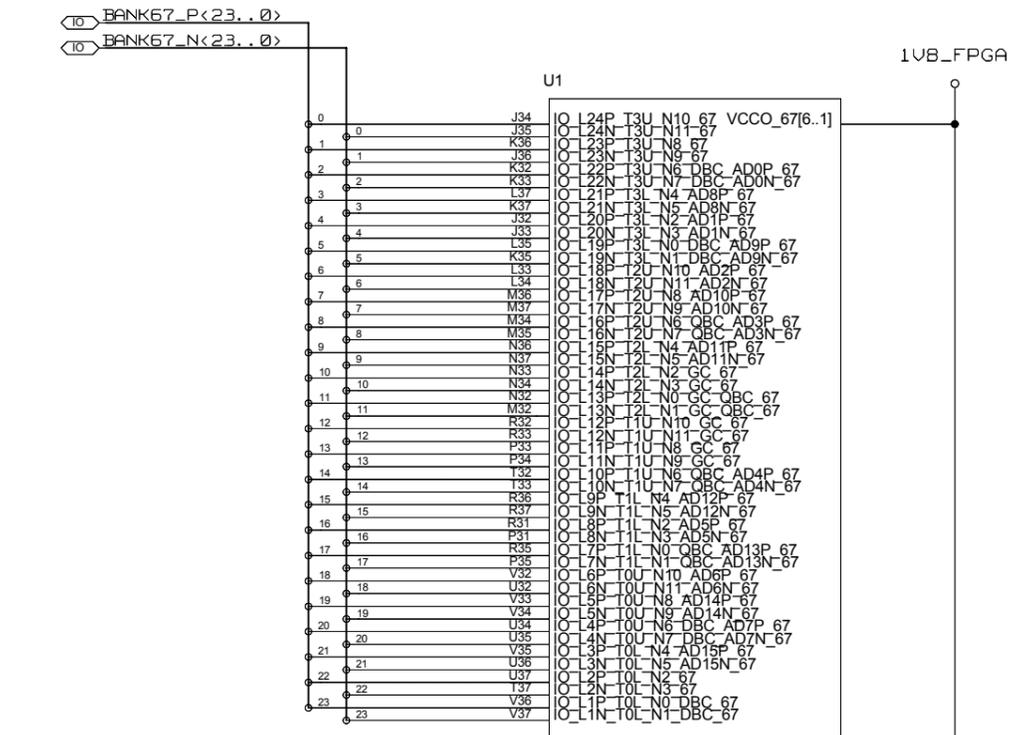
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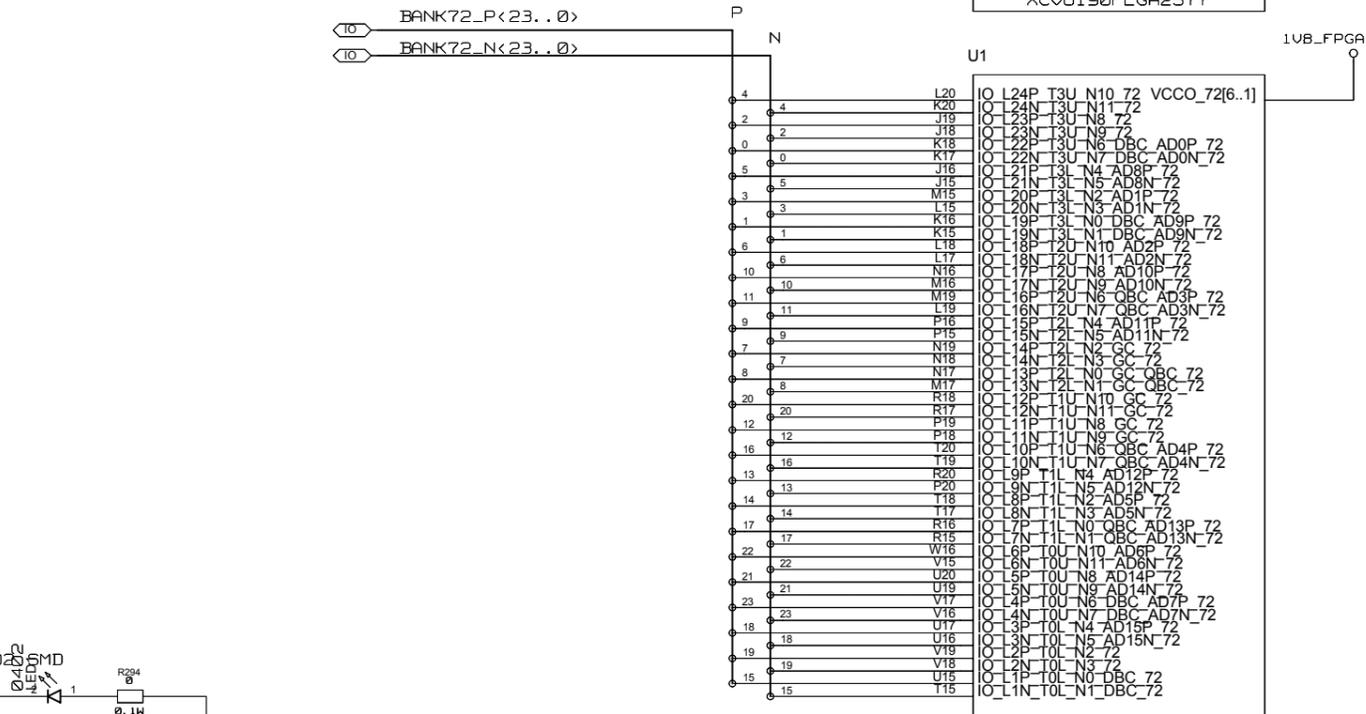
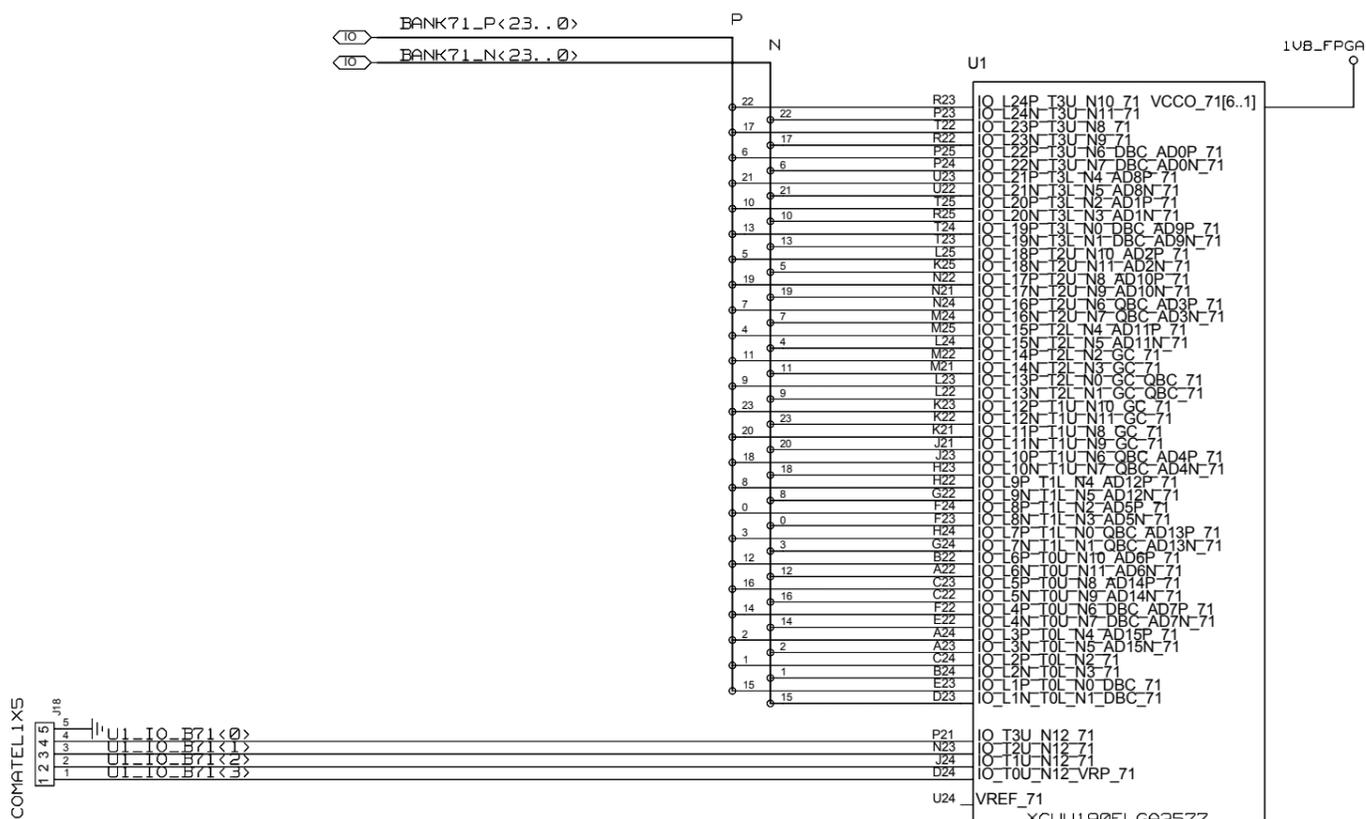
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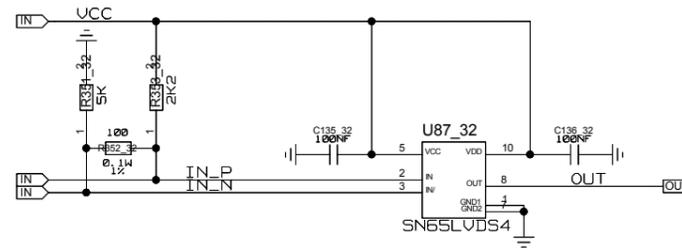


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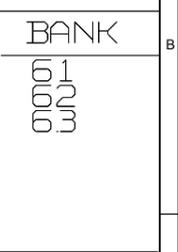
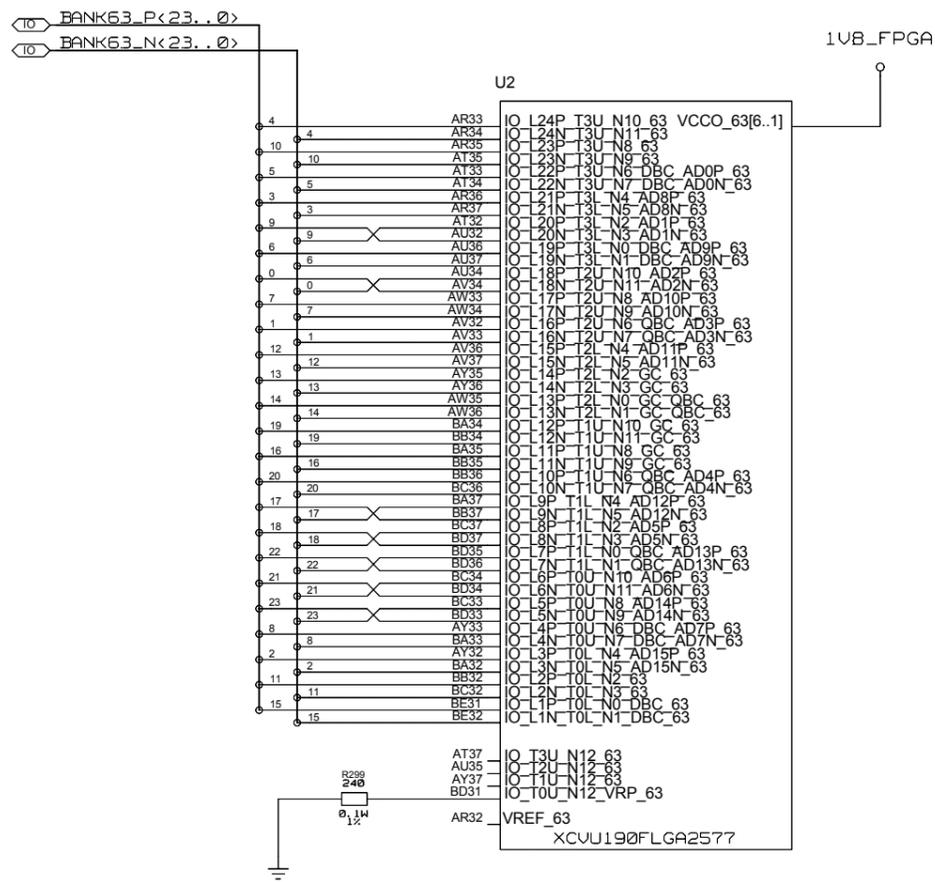
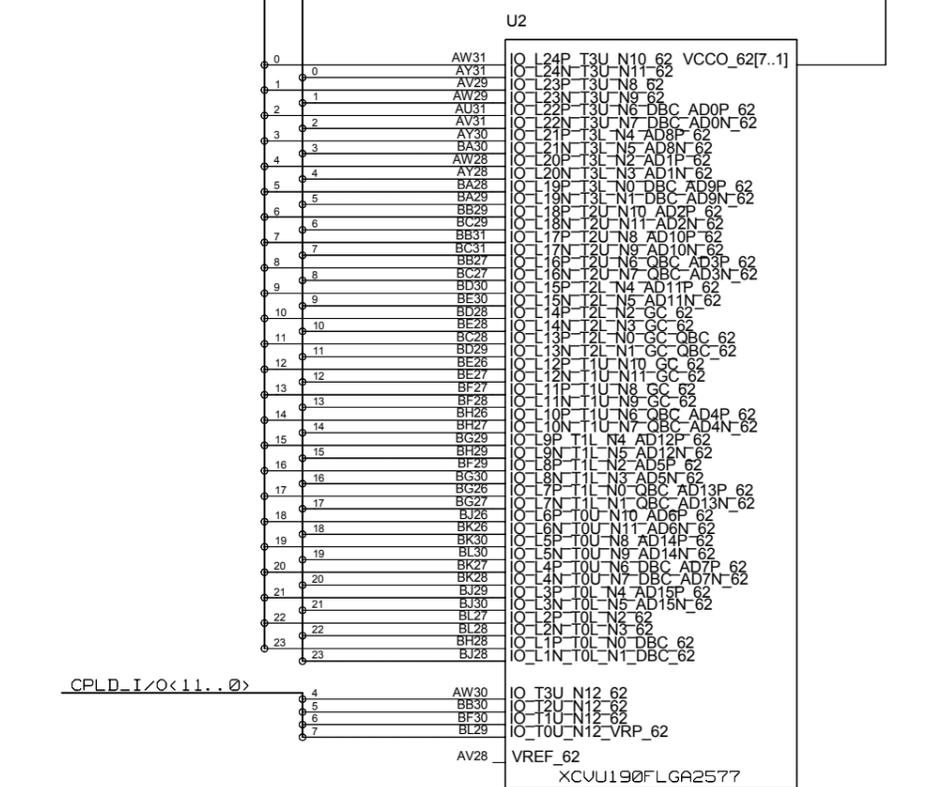
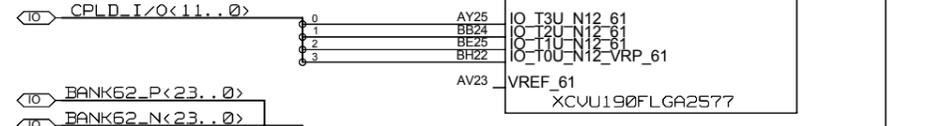
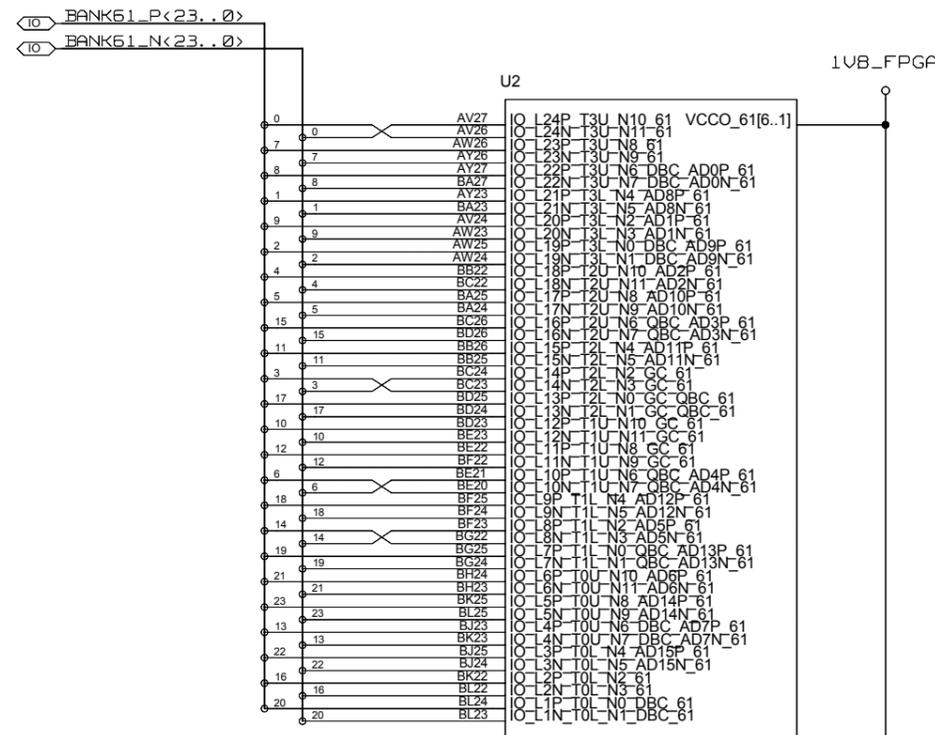
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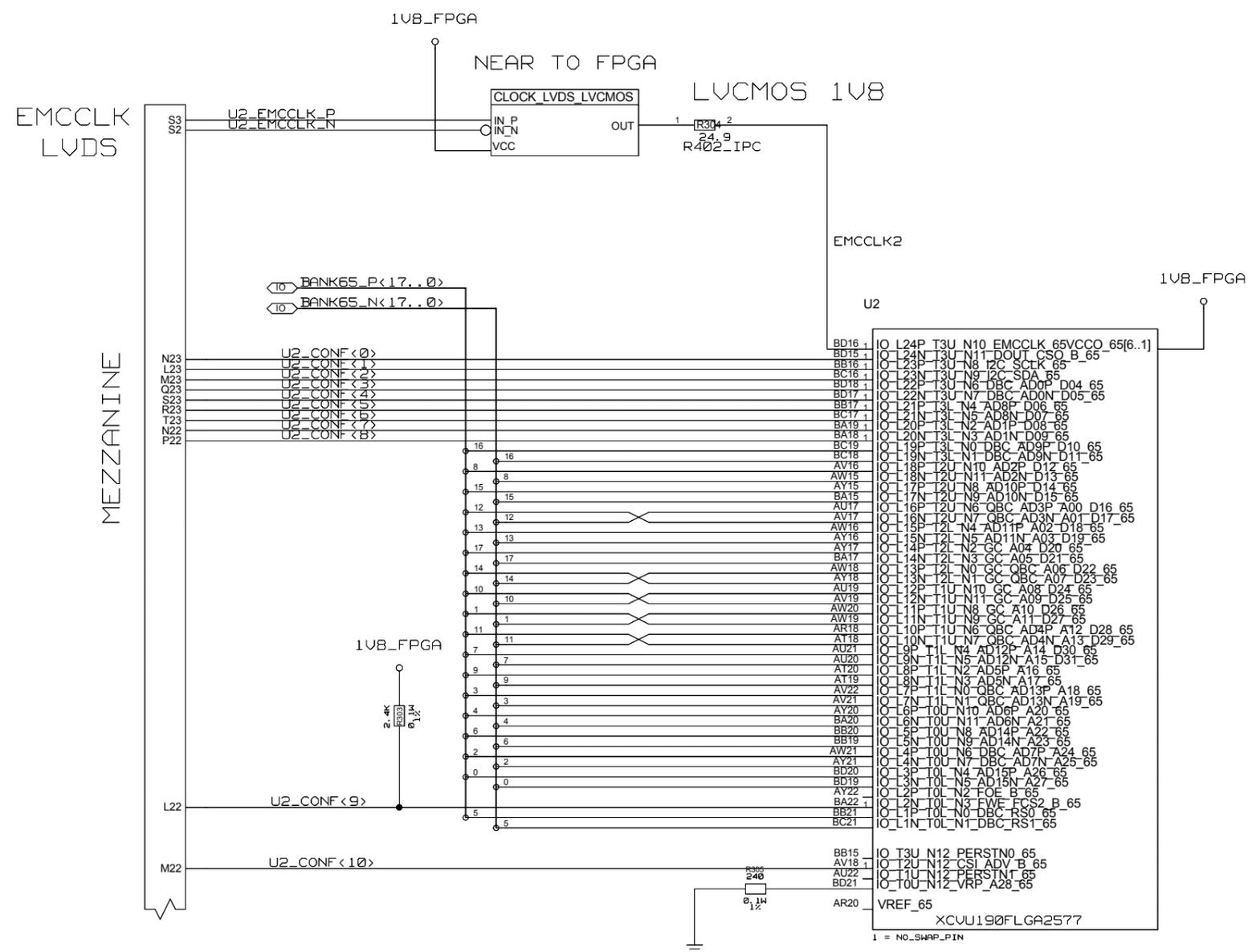
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REVISIONS			
ZONE	LTR	DESCRIPTION	DATE



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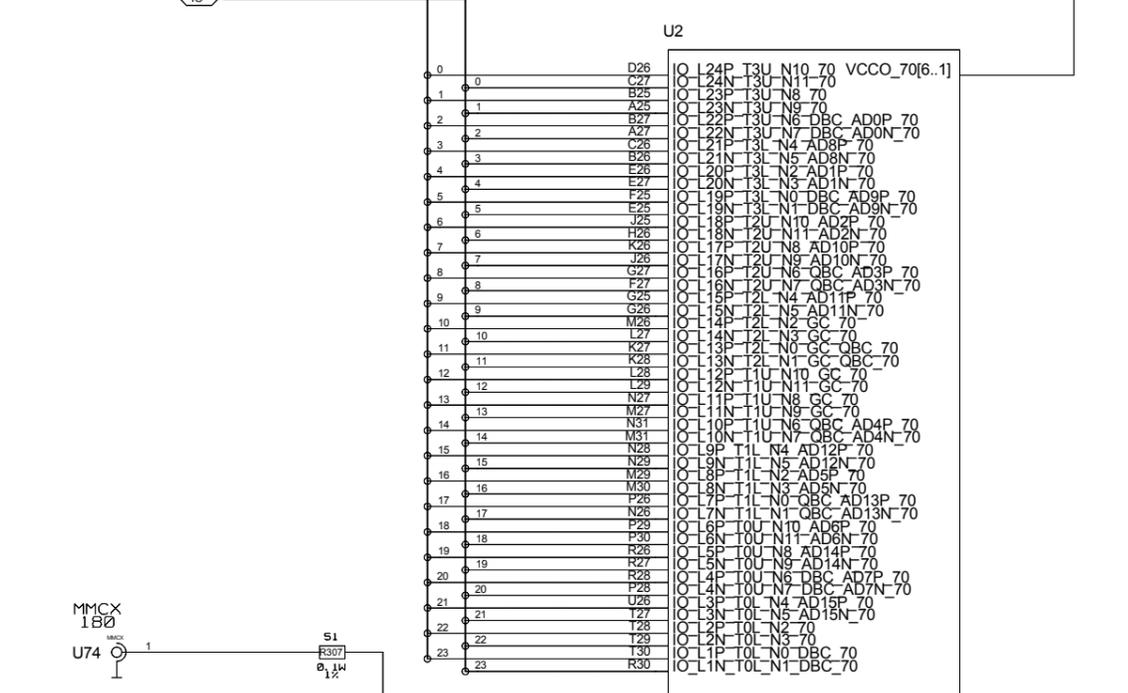
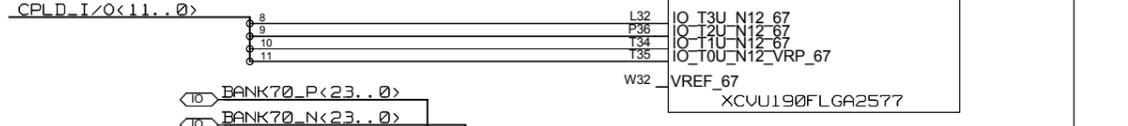
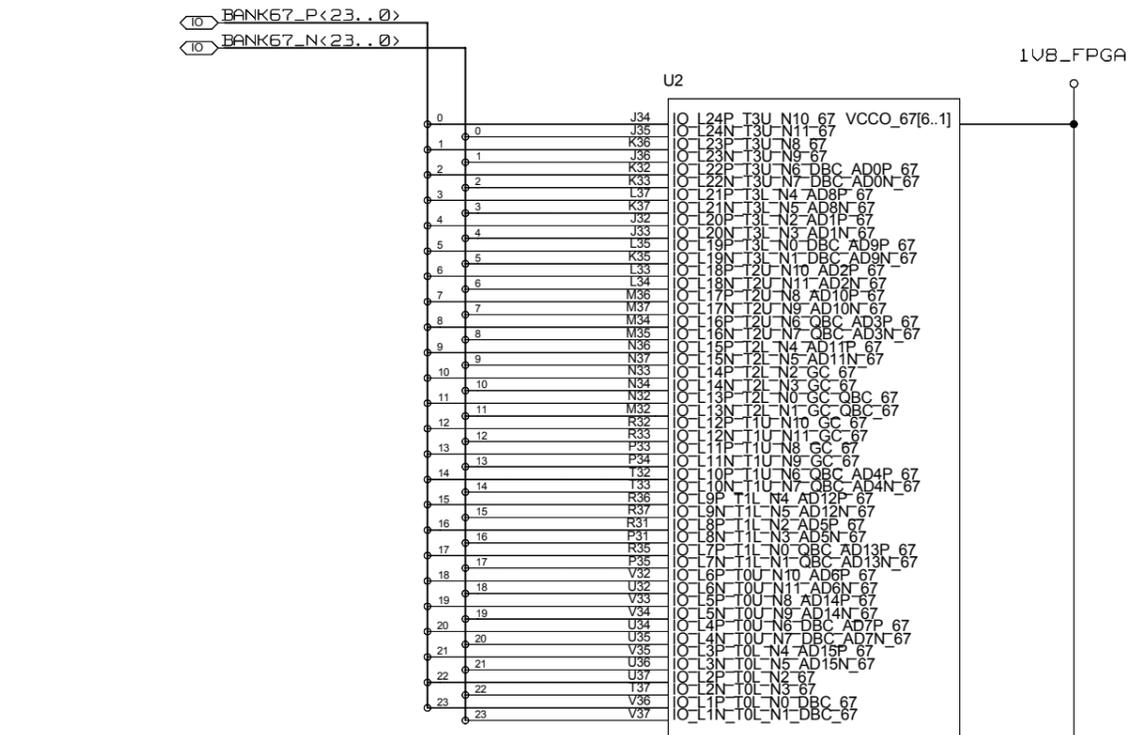
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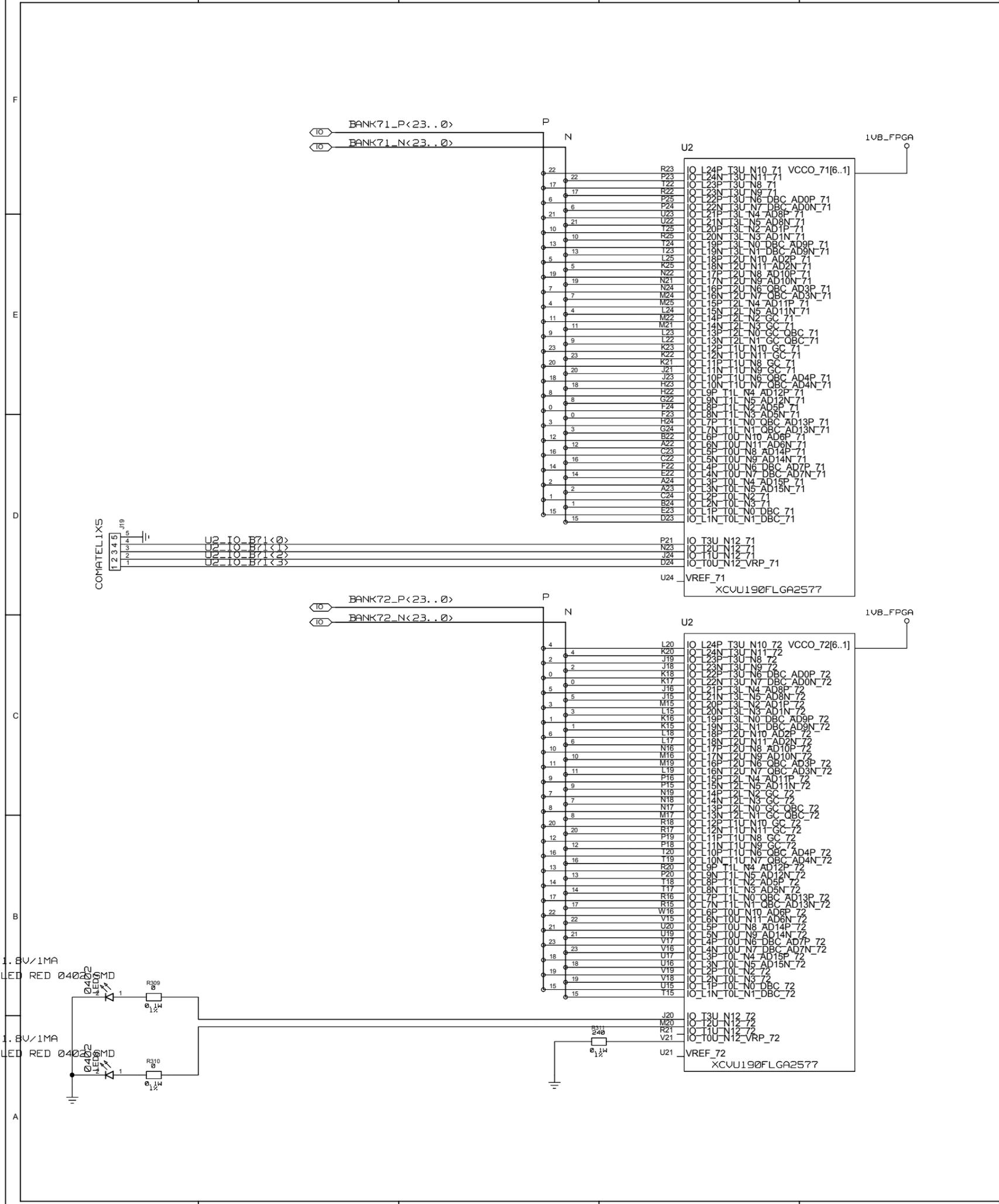


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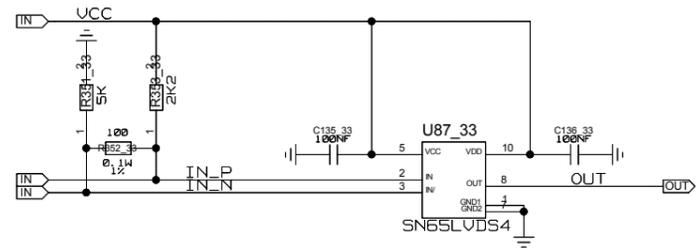
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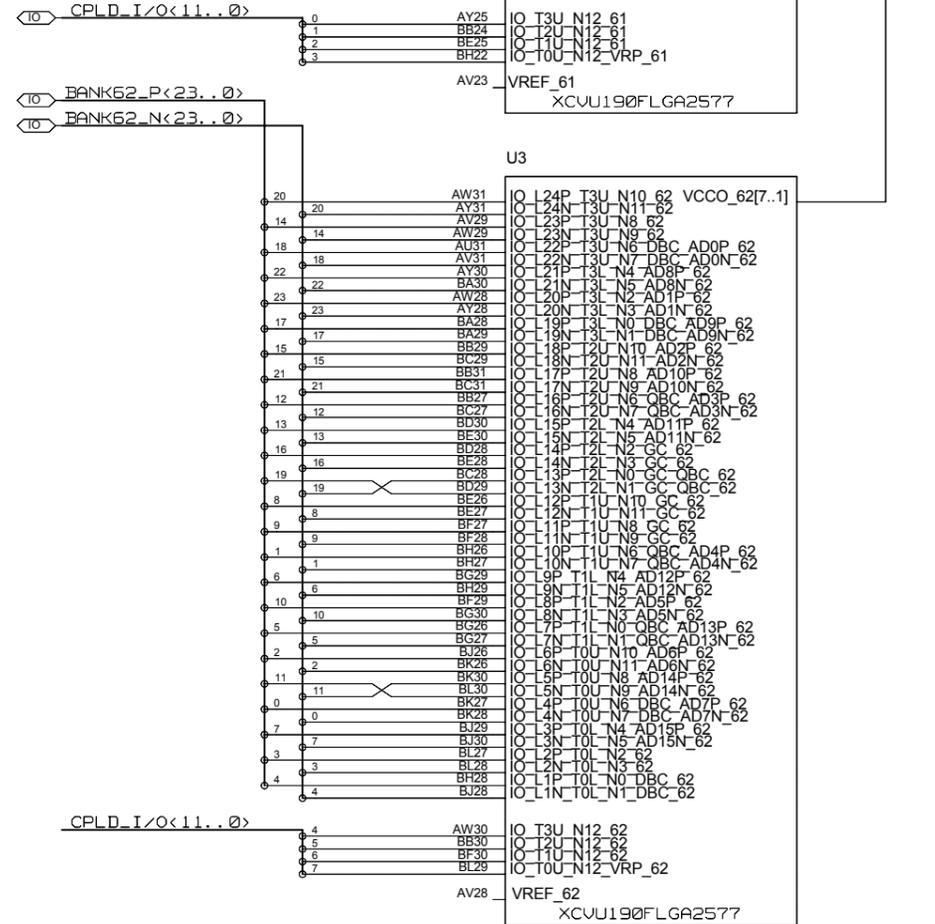
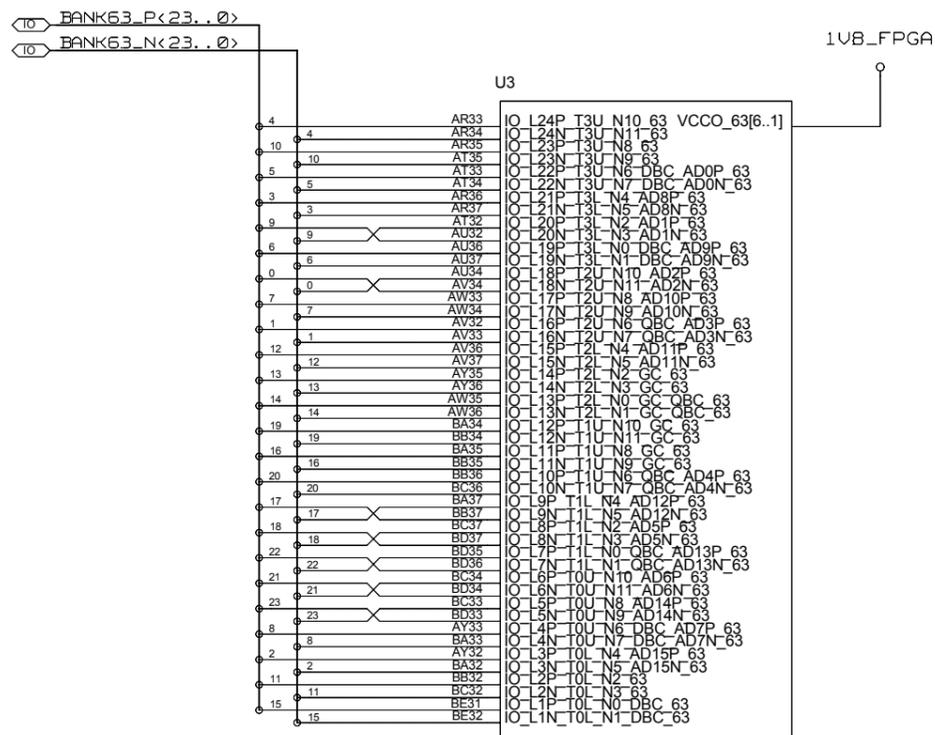
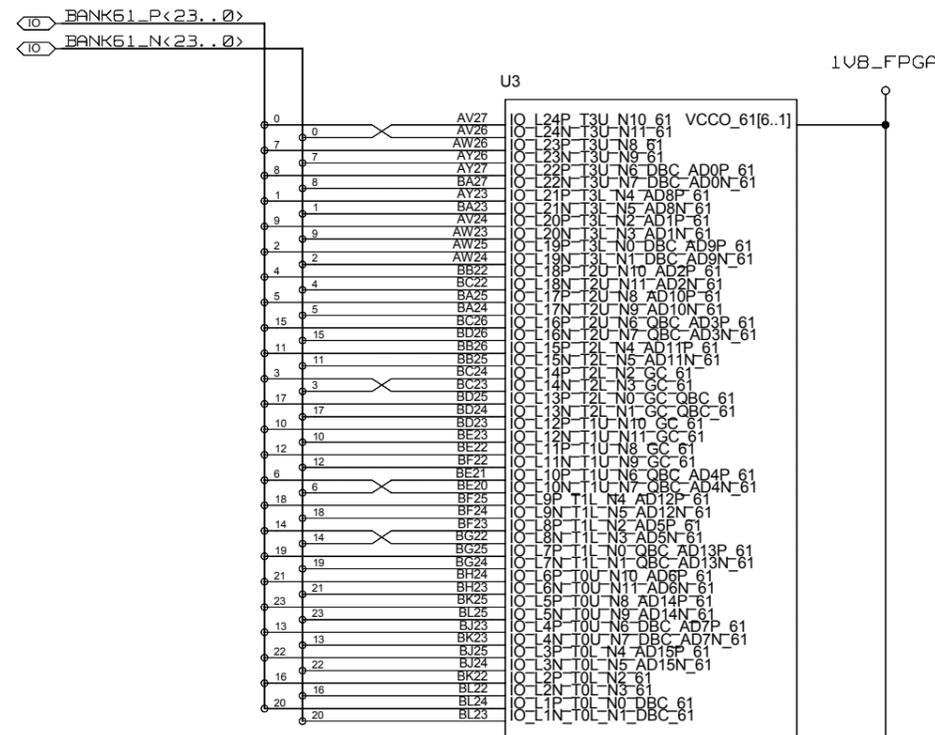
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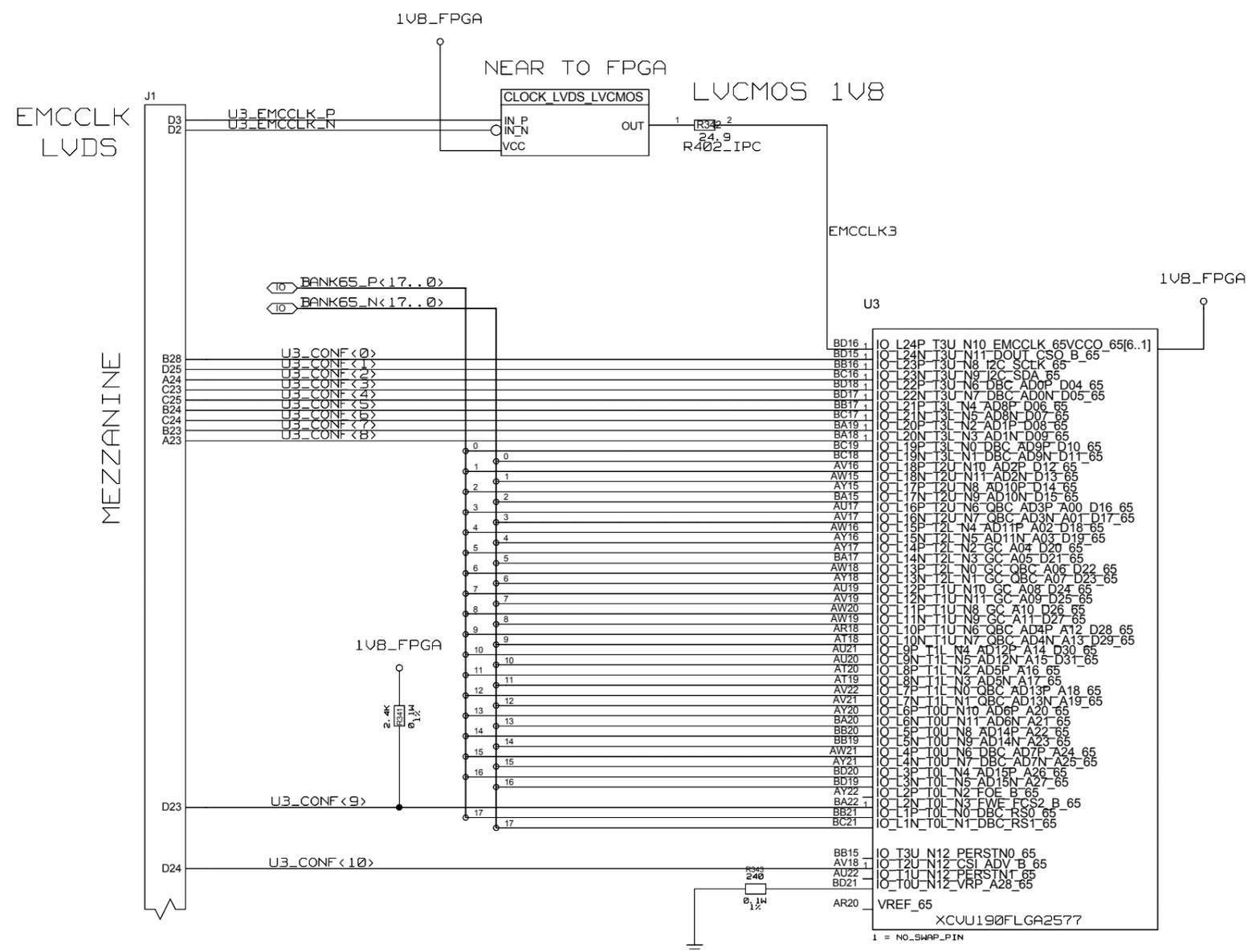
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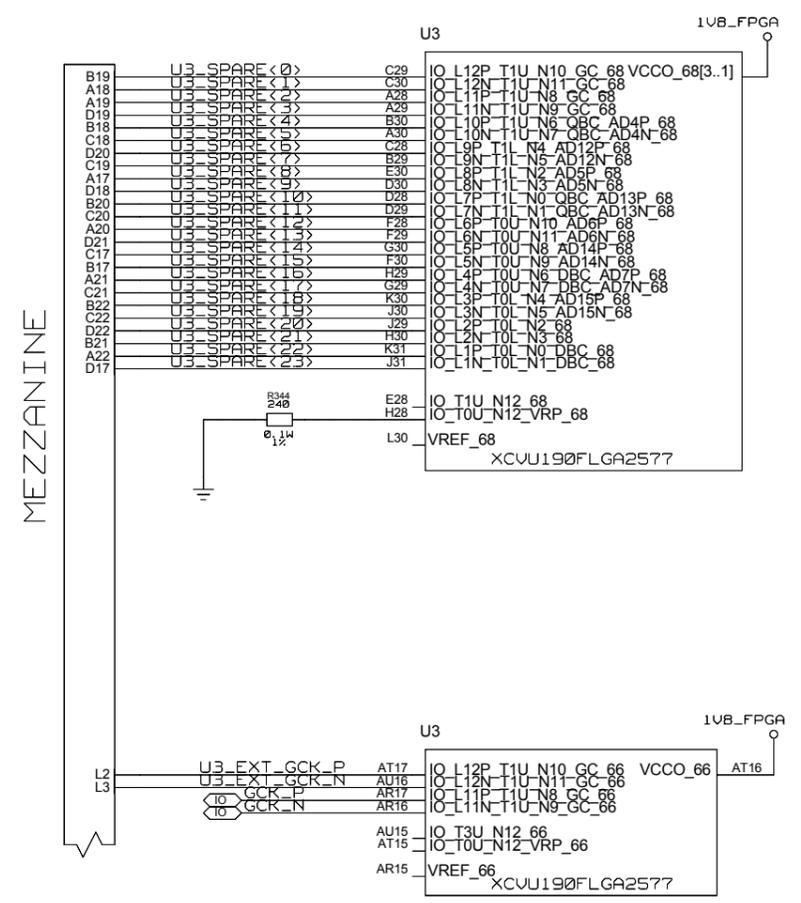
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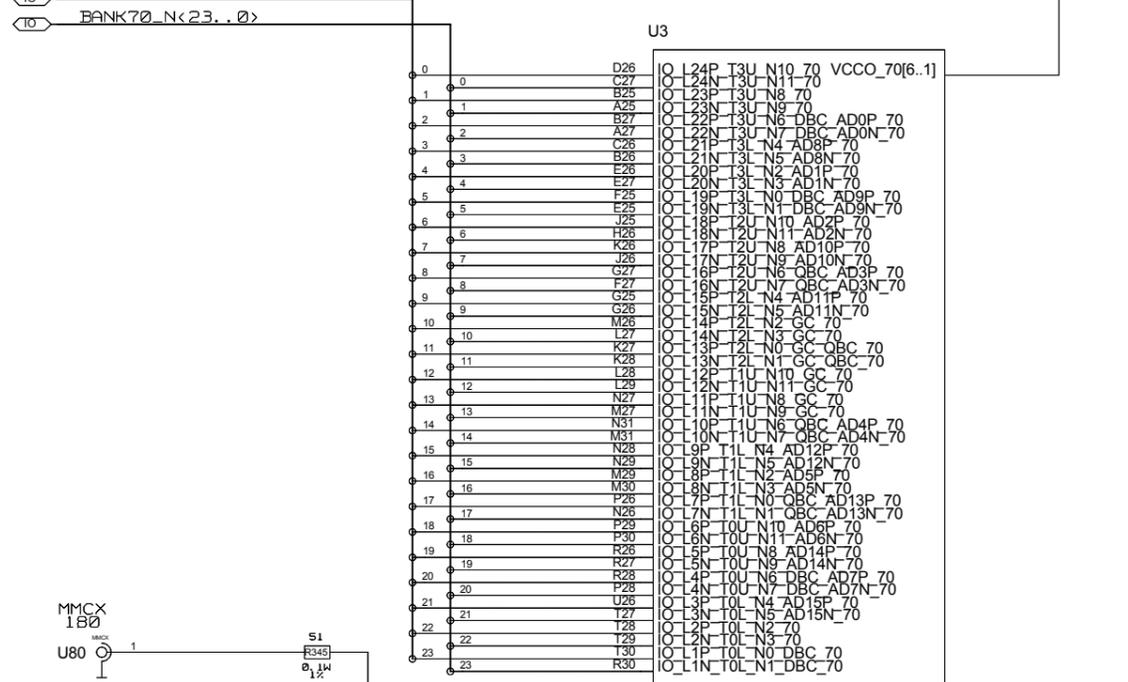
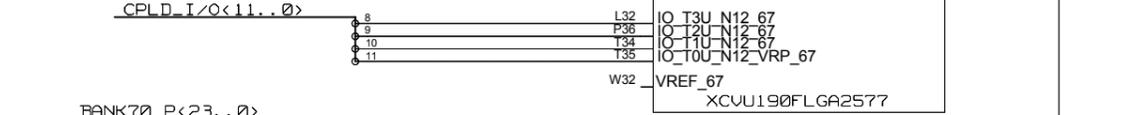
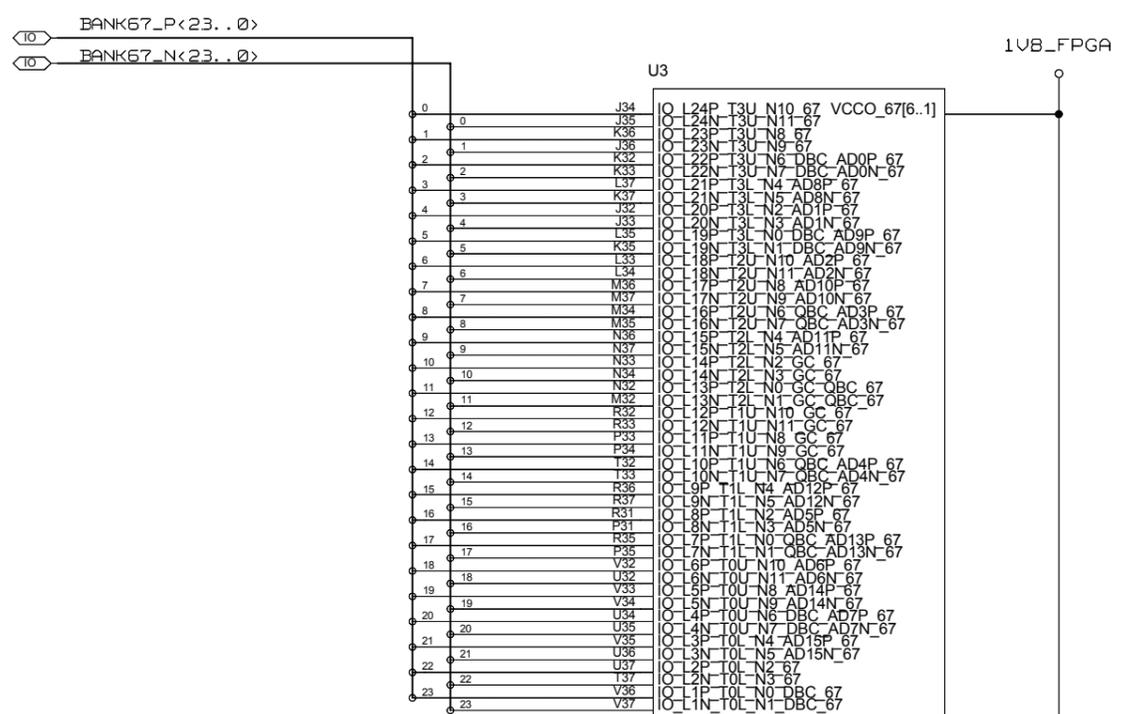
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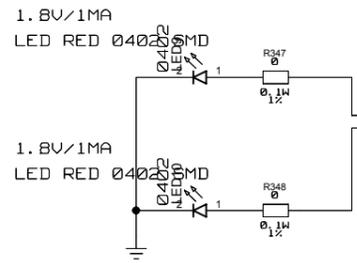
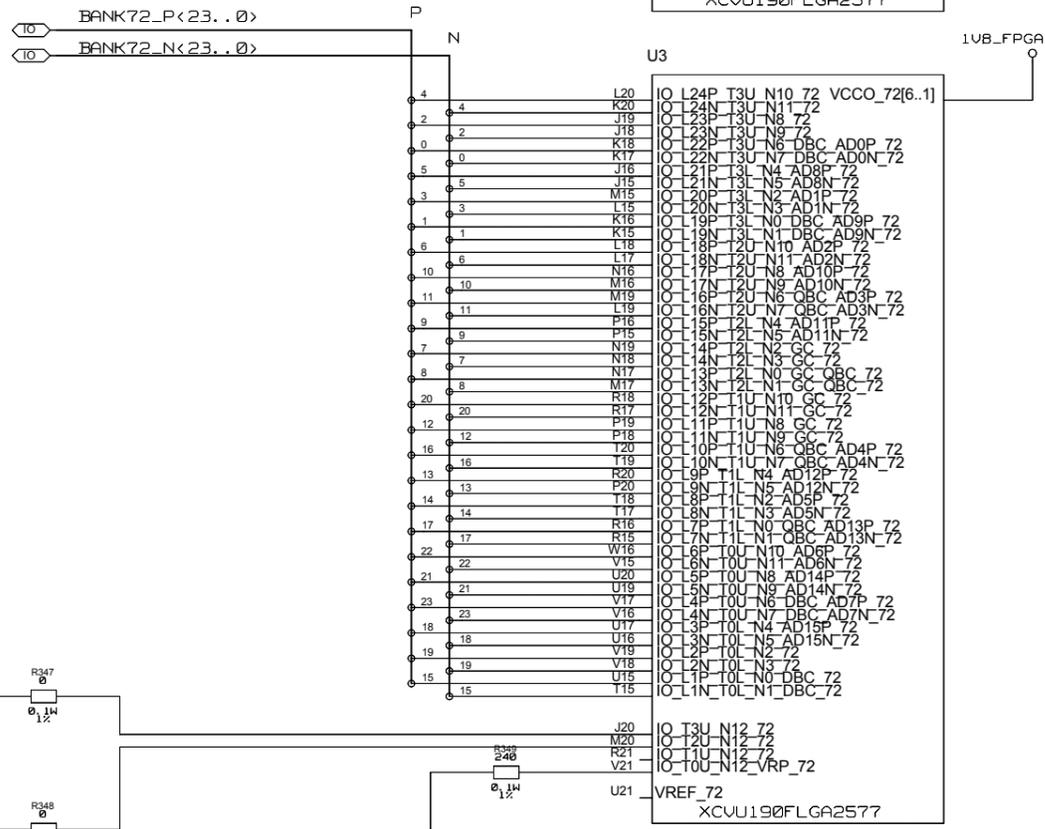
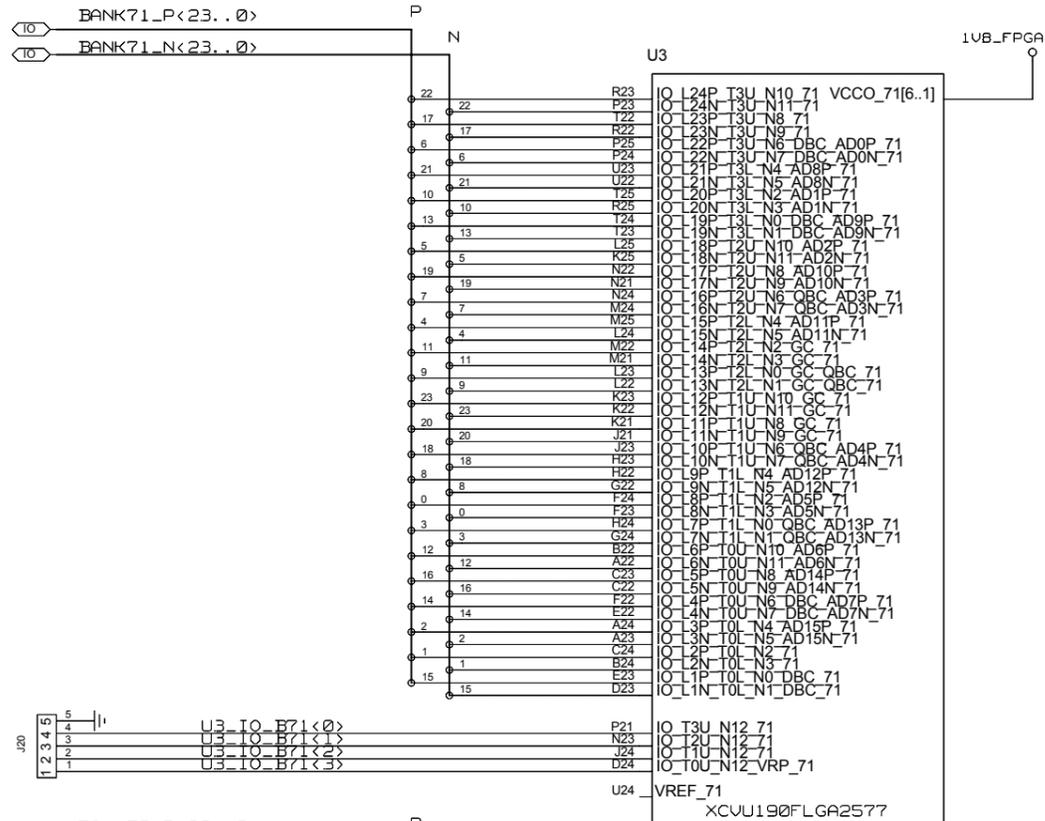
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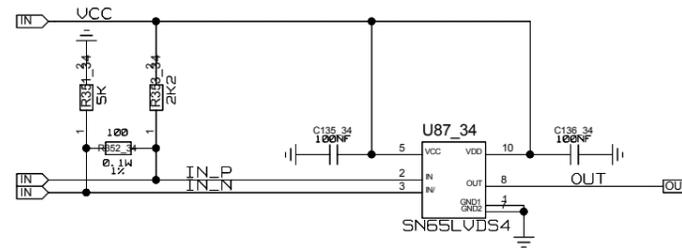


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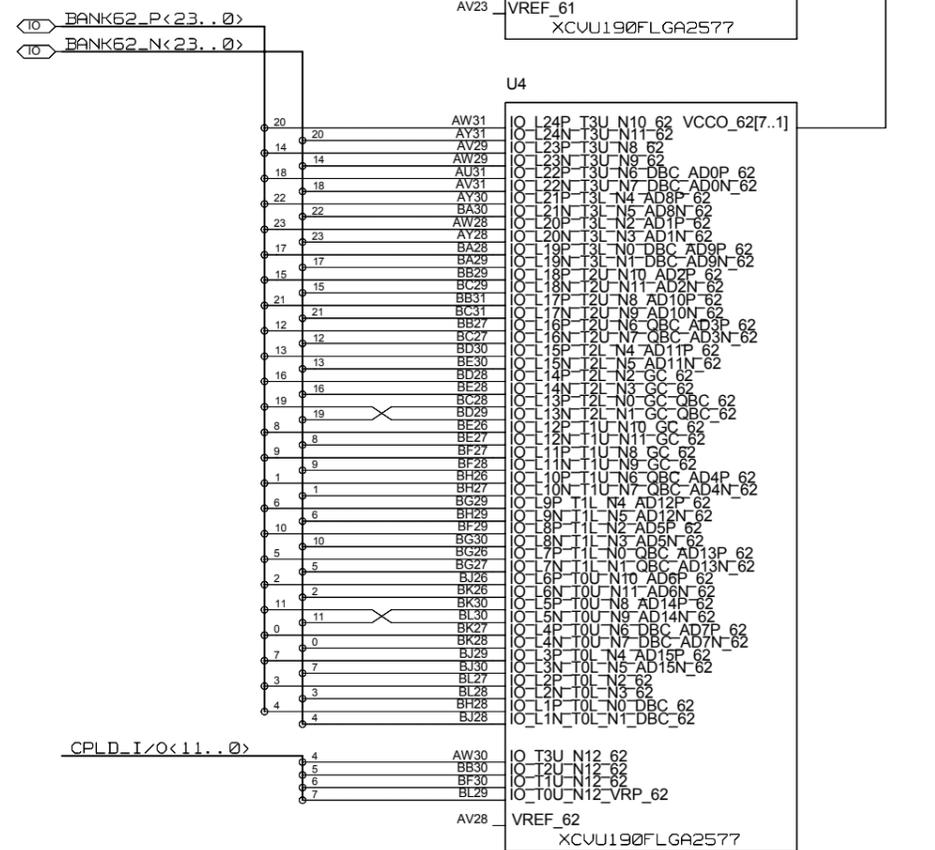
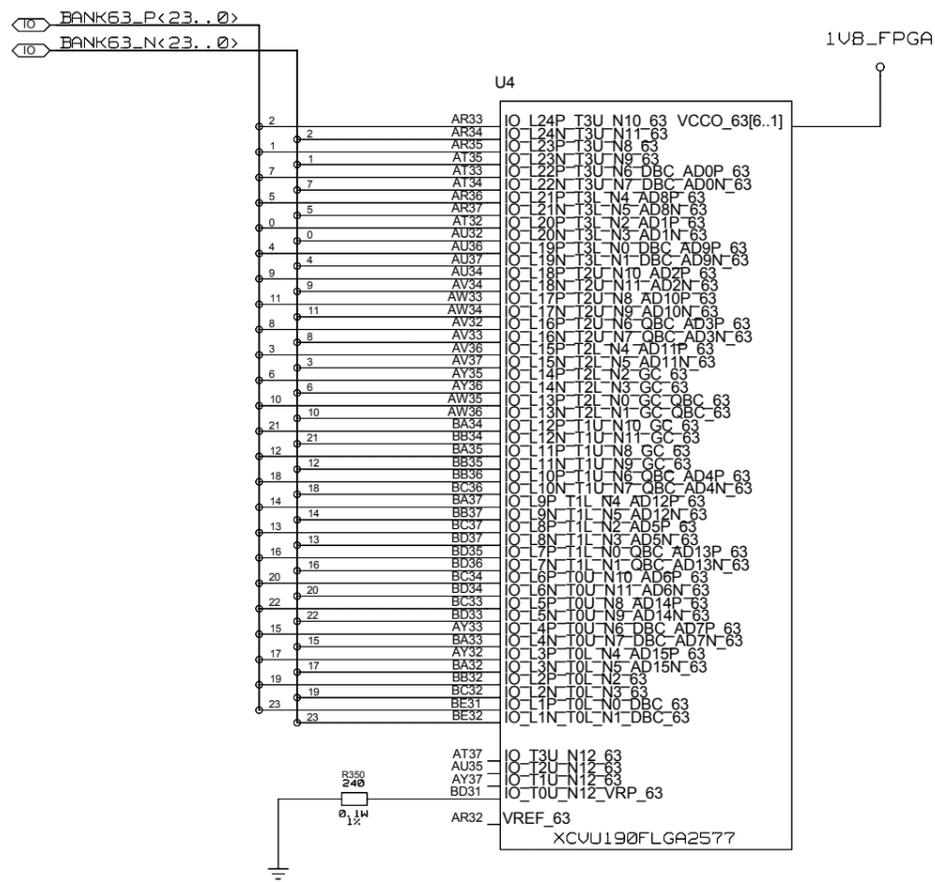
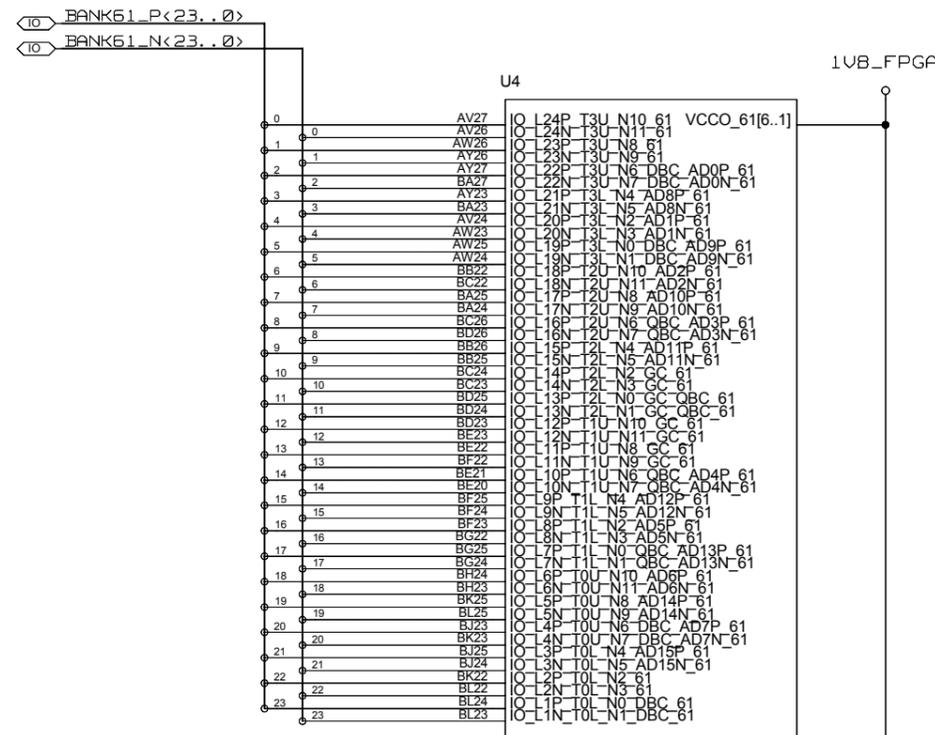
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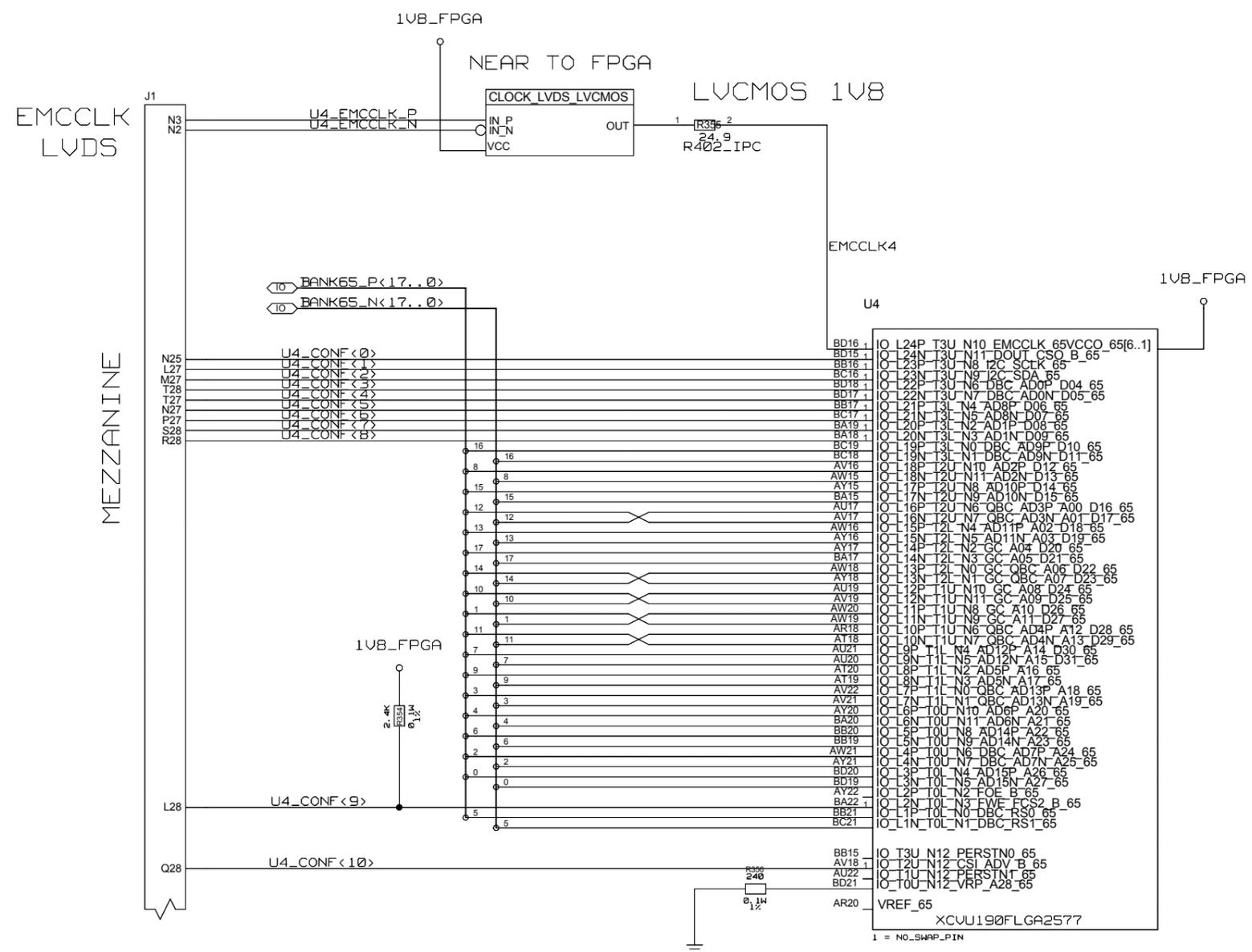
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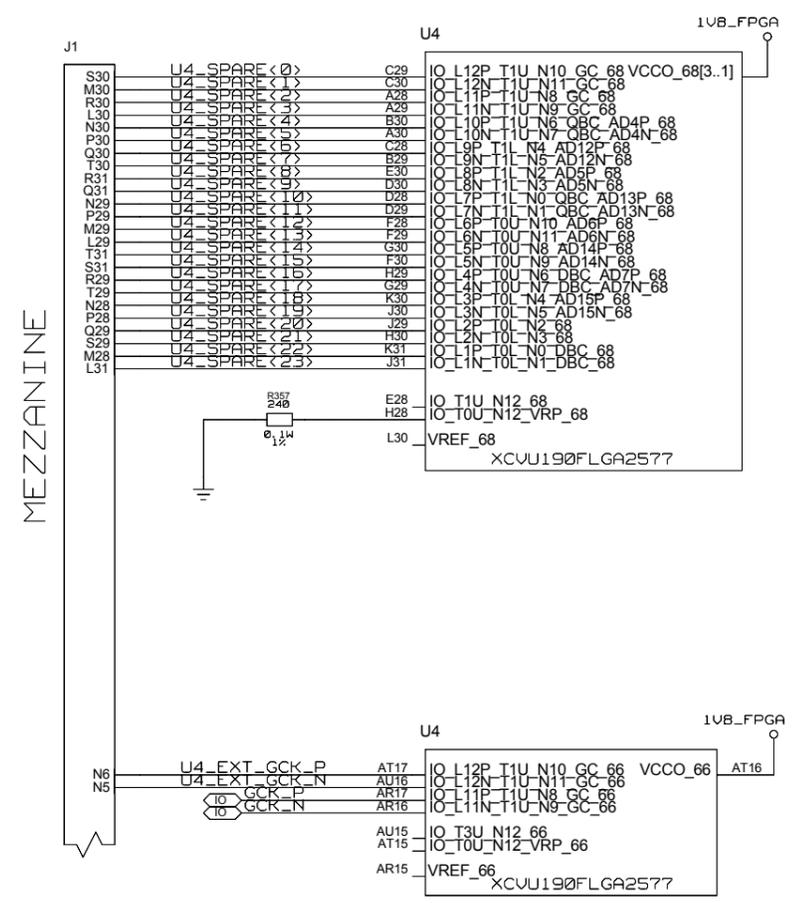
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DRAWN	BAUSS	25.08.2015		
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				DRAWING NO.
SCALE				SHEET 2 OF 5

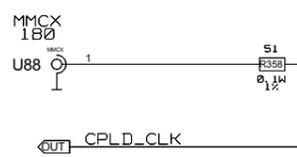
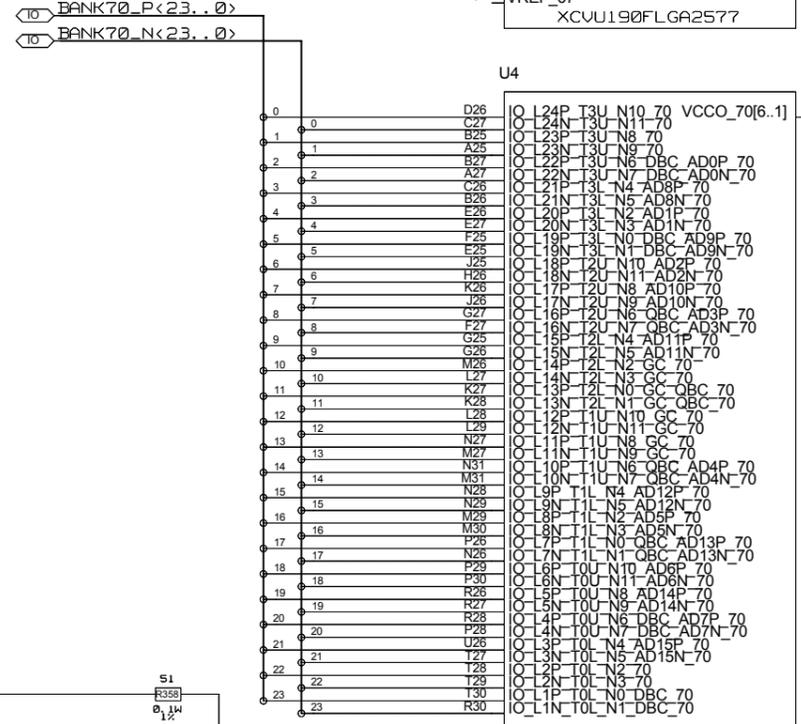
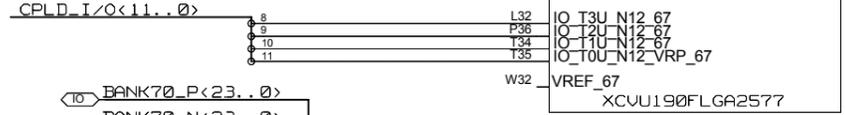
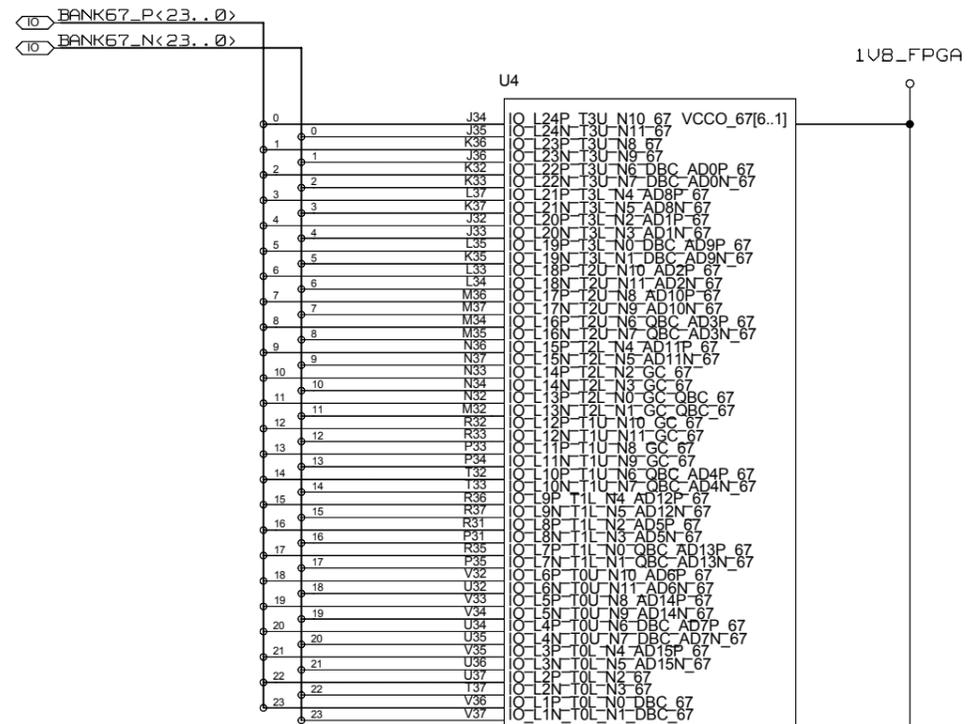
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
66
68

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	J. V.DE SOUZA			
	U.SCHAEFER			
	S.RAVE			
	BAUSS	25.08.2015		
BLOCK TITLE U4_PARALLEL_I/O				SIZE C
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
				SHEET 3 OF 5

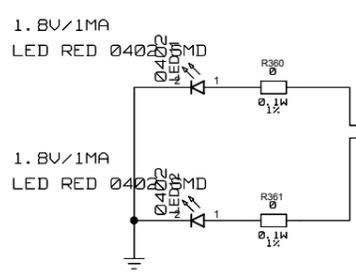
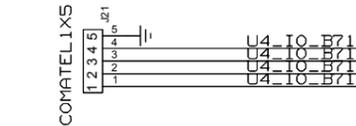
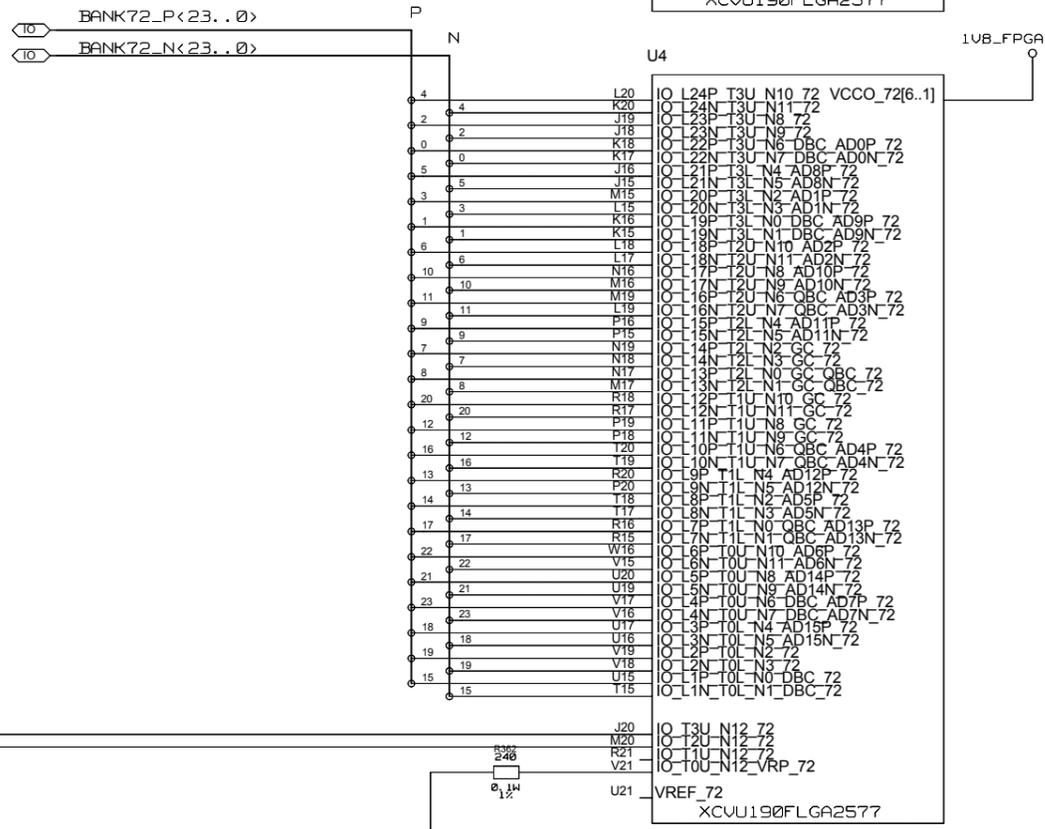
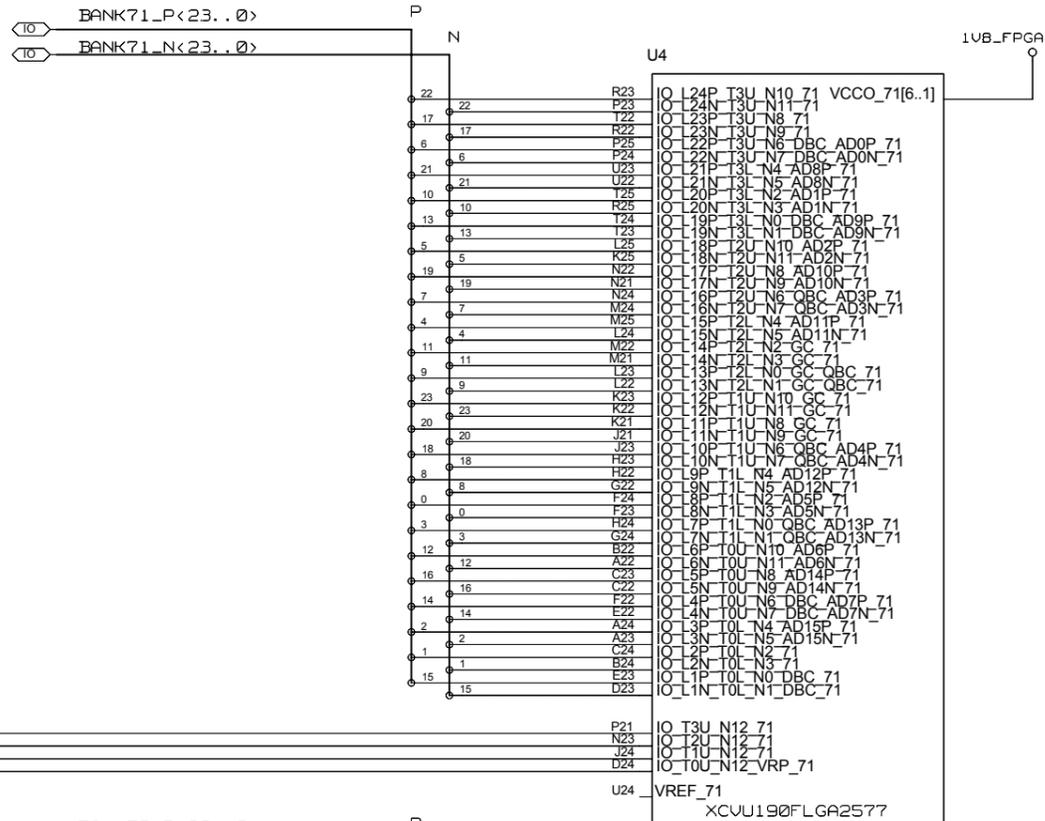
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
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CHECKED	J. V. DE SOUZA			JFEX		
CHECKED	U. SCHAEFER					
CHECKED	S. RAVE					
DRAWN	BAUSS	25.08.2015		BLOCK TITLE		
				U4_PARALLEL_I/O		
UNIVERSITY OF MAINZ				SIZE C	REV.	DRAWING NO.
SCALE				SHEET 4 of 5		

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

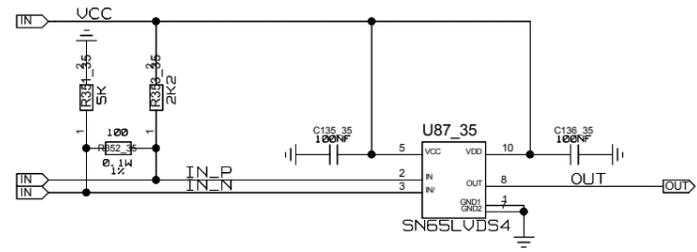


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NAME	DATE	SIGN	DRAWING TITLE
CHECKED J. V. DE SOUZA			JFEX
CHECKED U. SCHAEFER			
CHECKED S. RAVE			
DRAWN BAUSS	25.08.2015		
BLOCK TITLE			U4_PARALLEL_I/O
UNIVERSITY OF MAINZ			SIZE C
REV.		DRAWING NO.	
SCALE		SHEET 5 OF 5	

REVISIONS

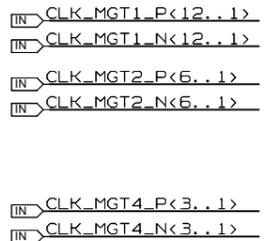
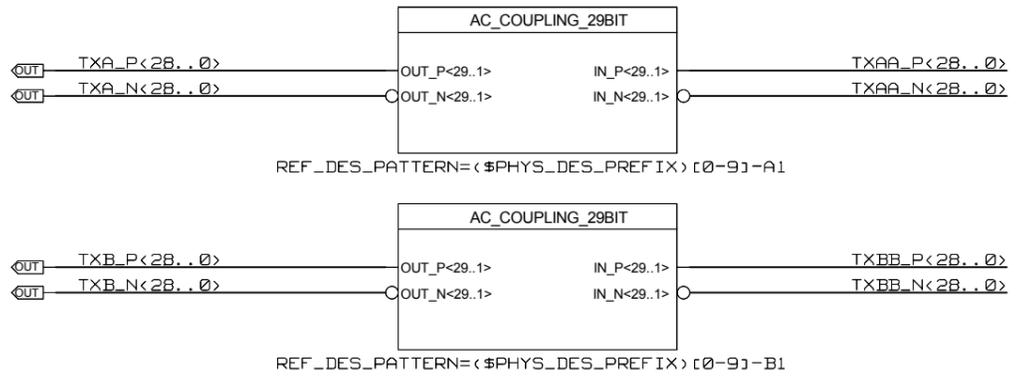
ZONE	LTR	DESCRIPTION	DATE	APPR.



	NAME	DATE	SIGN	DRAWING TITLE	
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CHECKED	U. SCHAEFER				
CHECKED	S. RAVE				
DRAWN	BAUSS				
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UNIVERSITY OF MAINZ				C	
				SCALE	SHEET OF

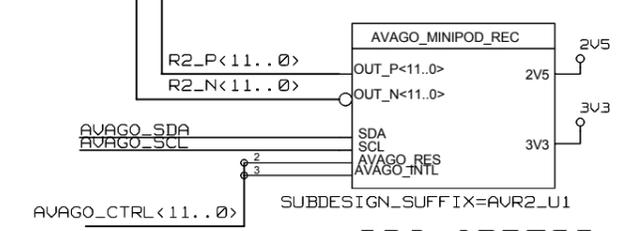
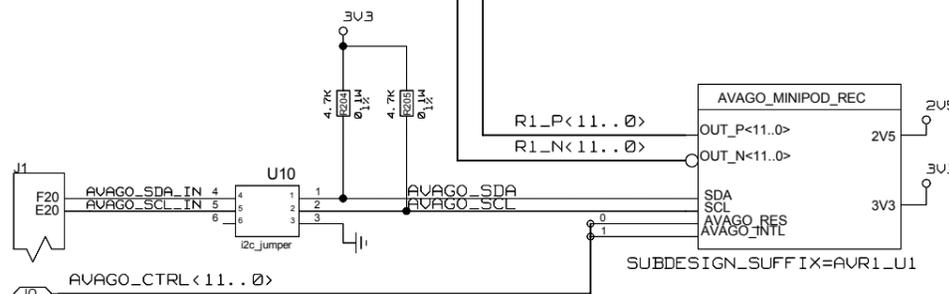
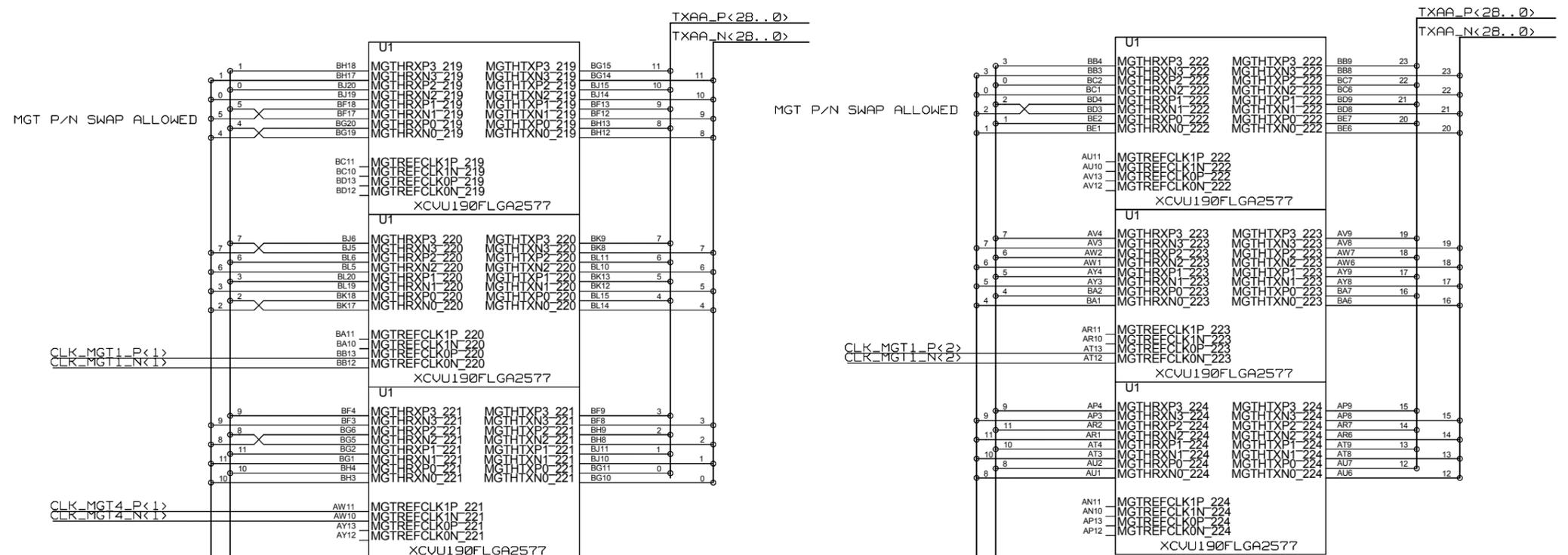
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ZONE	LTR	DESCRIPTION	DATE	APPR.

AC COUPLING



	NAME	DATE	SIGN	DRAWING TITLE	
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CHECKED	U. SCHAEFER				
CHECKED	S. RAVE				
DRAWN	BAUSS	07.08.2015		BLOCK TITLE	
UNIVERSITY OF MAINZ				U1_MGT_REAL_TIME	
	SIZE	REV.	DRAWING NO.		
	C				
	SCALE				SHEET 1 of 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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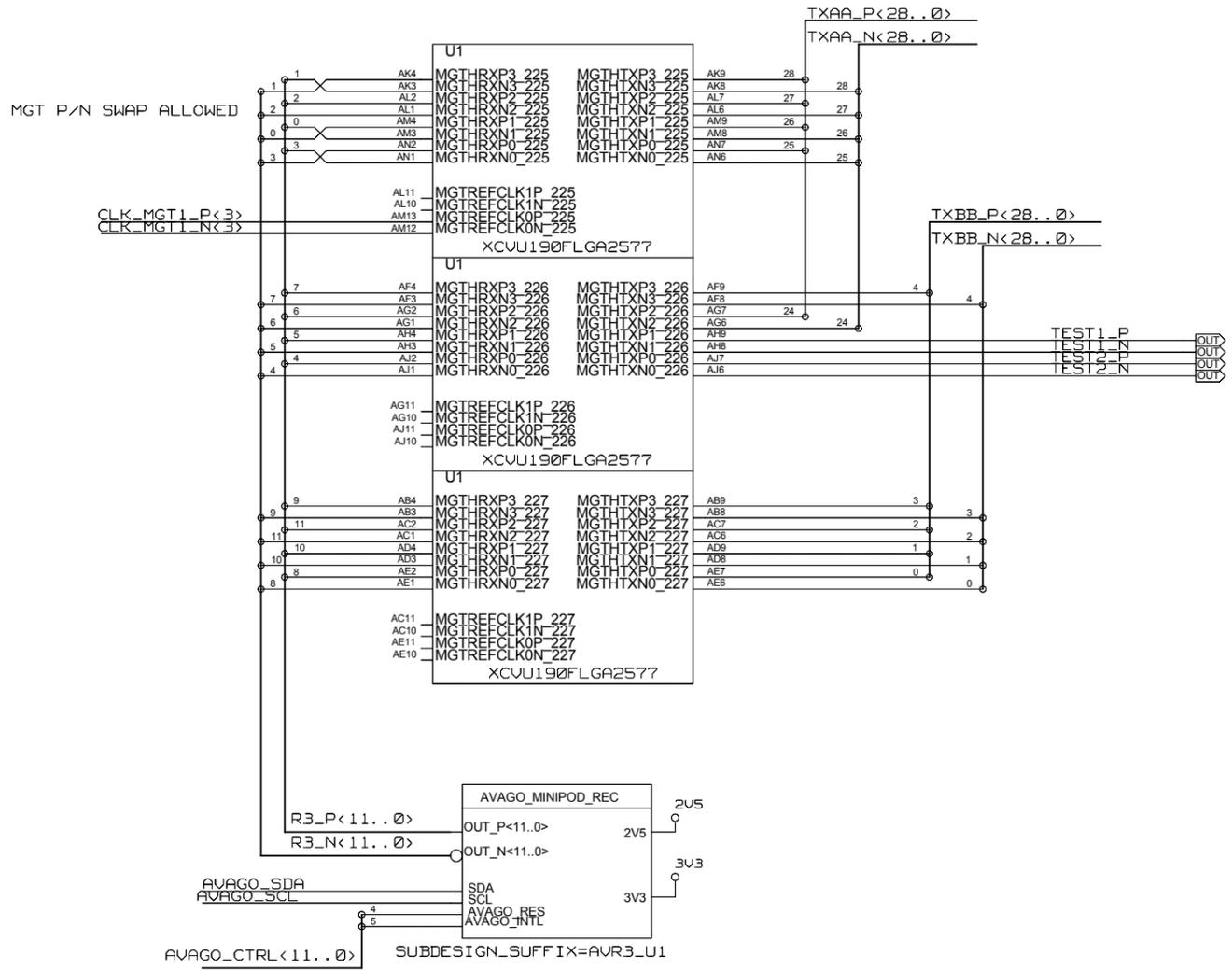
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 R5=XXX R6=XXX
 R7=XXX R8=XXX

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

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NAME	DATE	SIGN	DRAWING TITLE		
CHECKED J. V. DE SOUZA			AVAGO TXA		
CHECKED U. SCHAEFER					
CHECKED S. RAVE					
DRAWN BAUSS	07.08.2015				
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U1_MGT_REAL_TIME			C		
UNIVERSITY OF MAINZ			SCALE		SHEET 2 OF 7

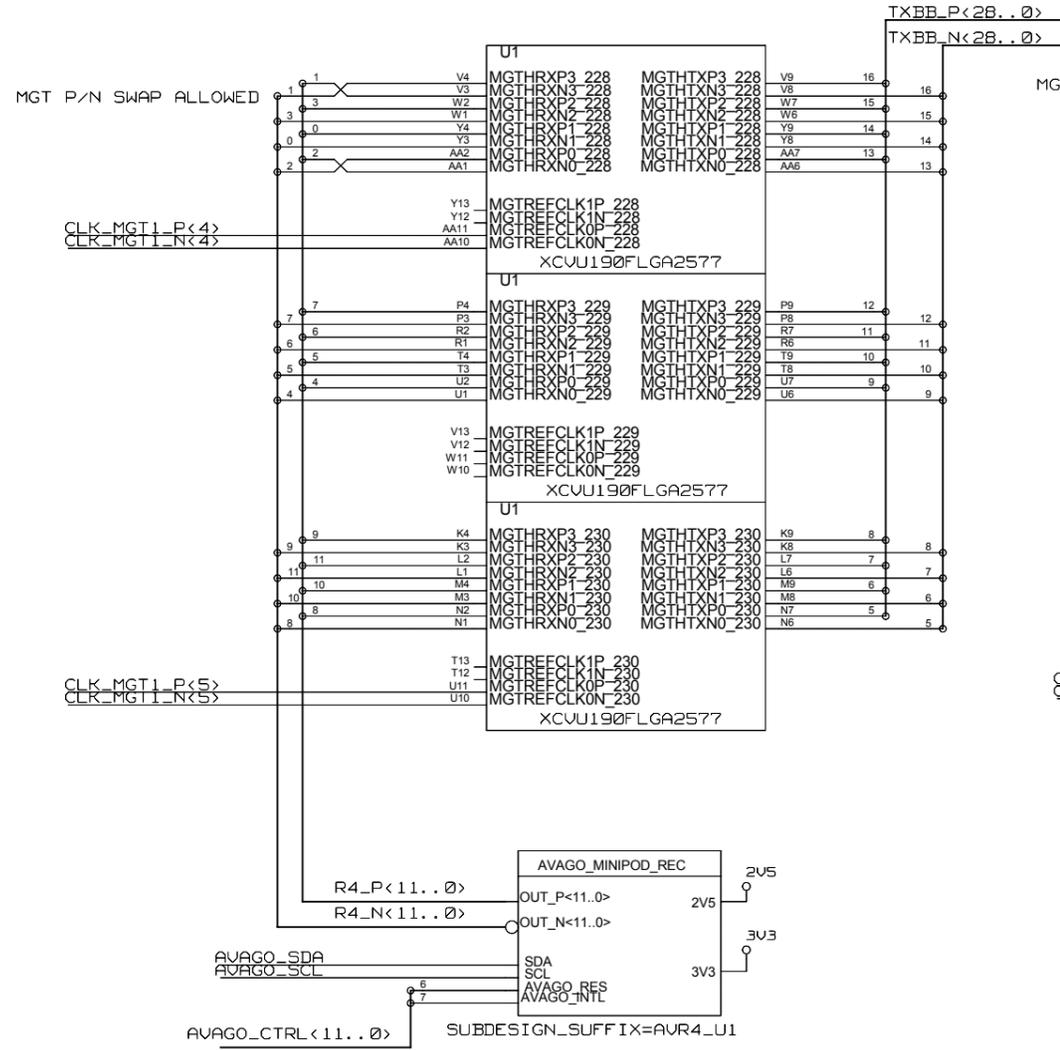
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



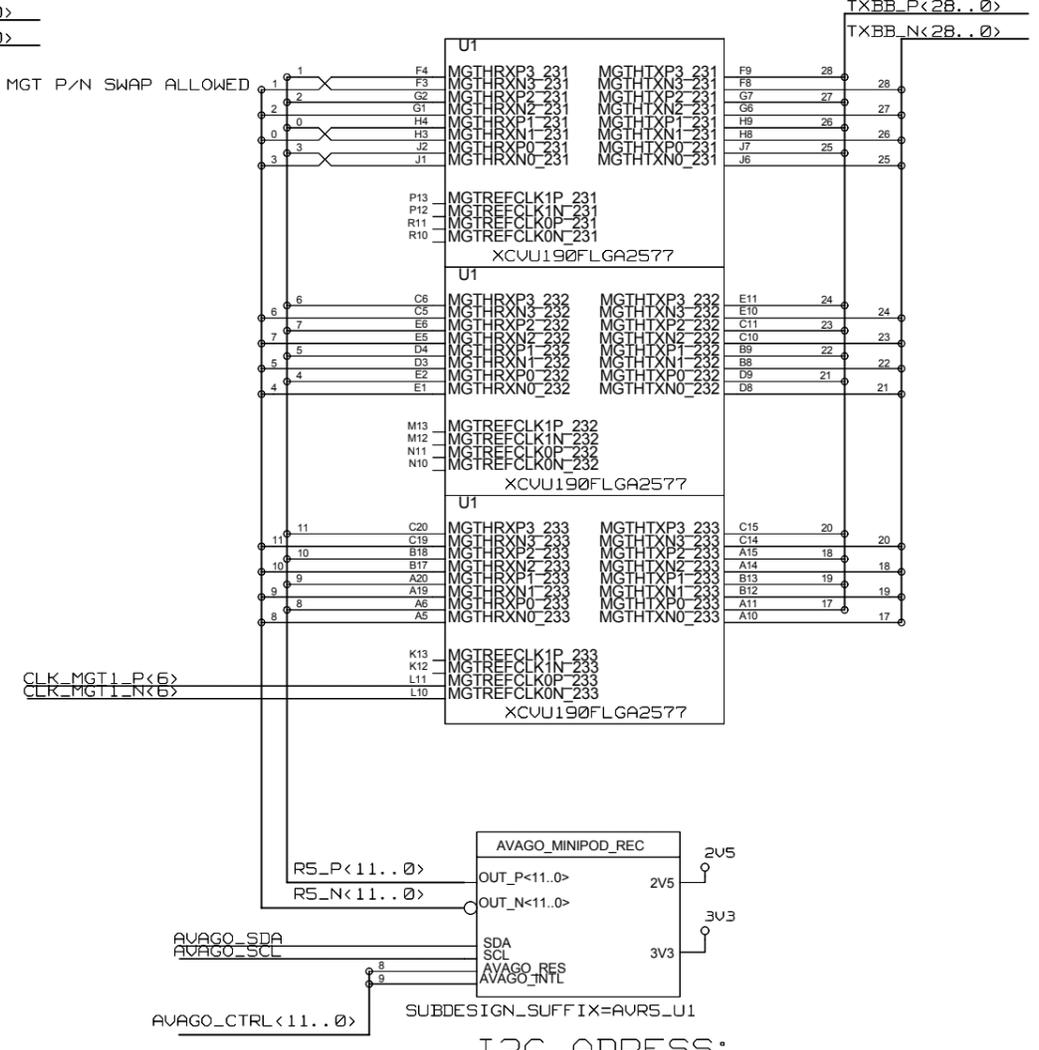
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CHECKED	S. RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U1_MGT_REAL_TIME				SIZE C
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
				SHEET 3 of 7

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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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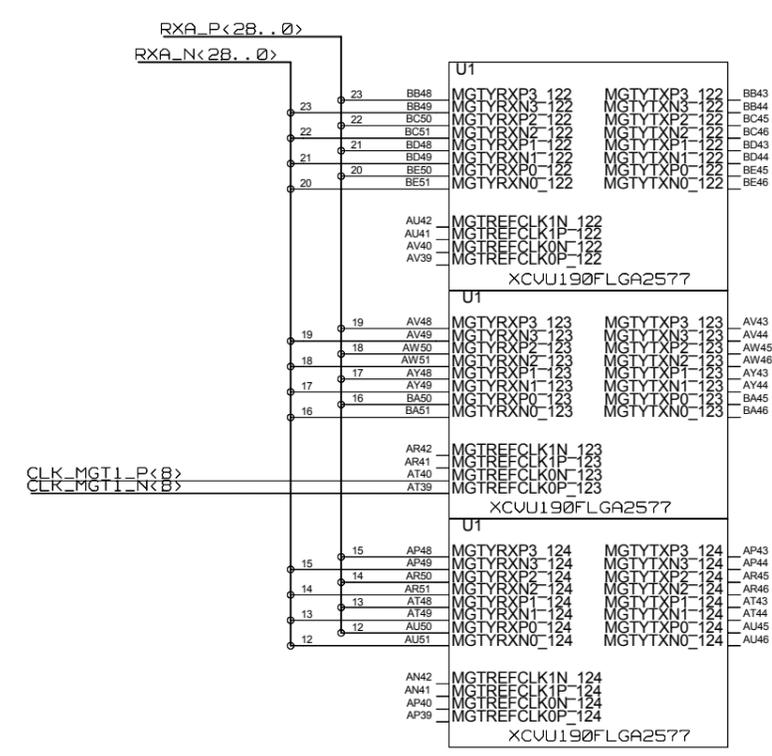
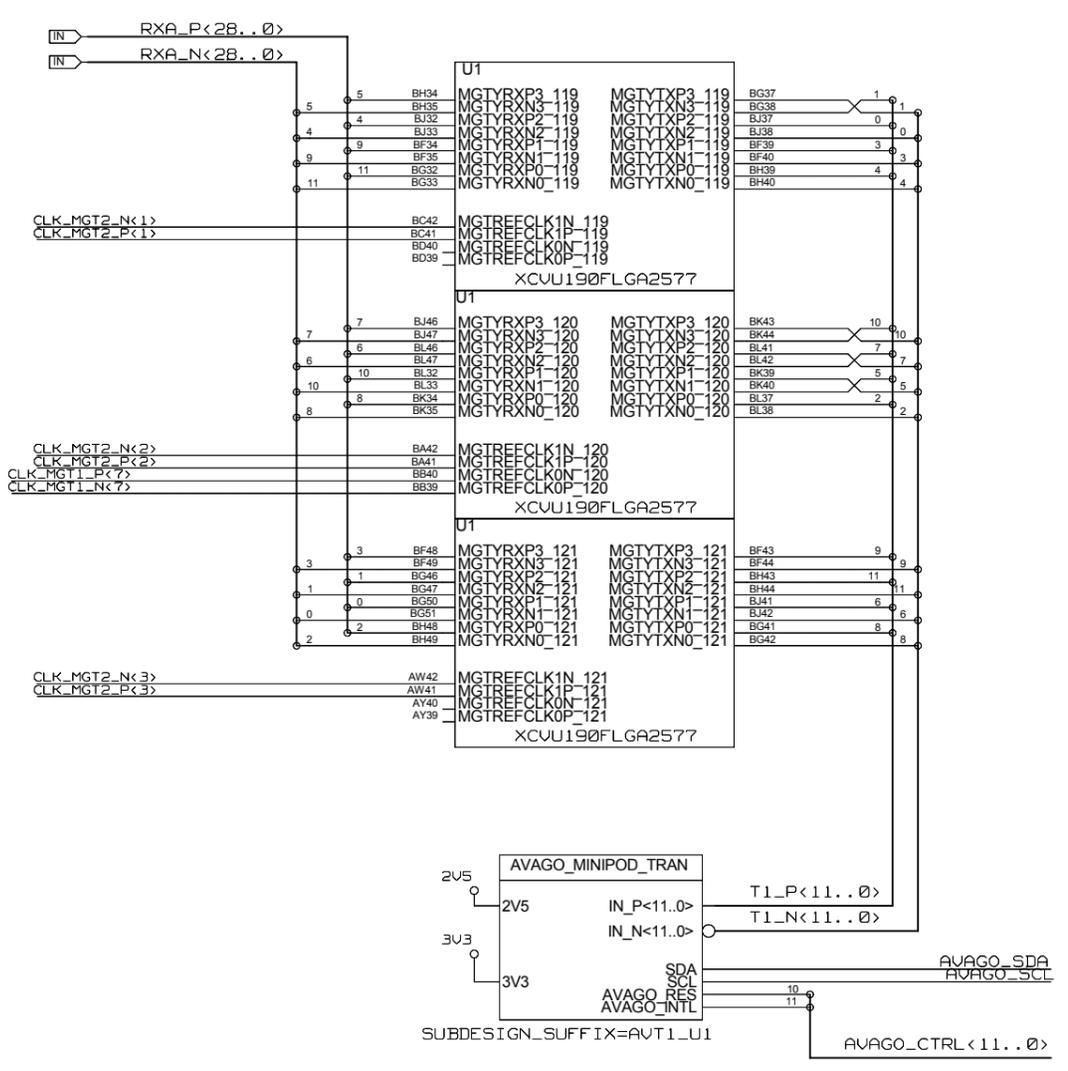


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CHECKED	NAME	DATE	SIGN	DRAWING TITLE AVAGO TXB
	J. V. DE SOUZA			
	U. SCHAEFER			
	S. RAVE			
	BAUSS	07.08.2015		
BLOCK TITLE U1_MGT_REAL_TIME				SIZE C
UNIVERSITY OF MAINZ				REV.
				DRAWING NO.
				SHEET 4 of 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

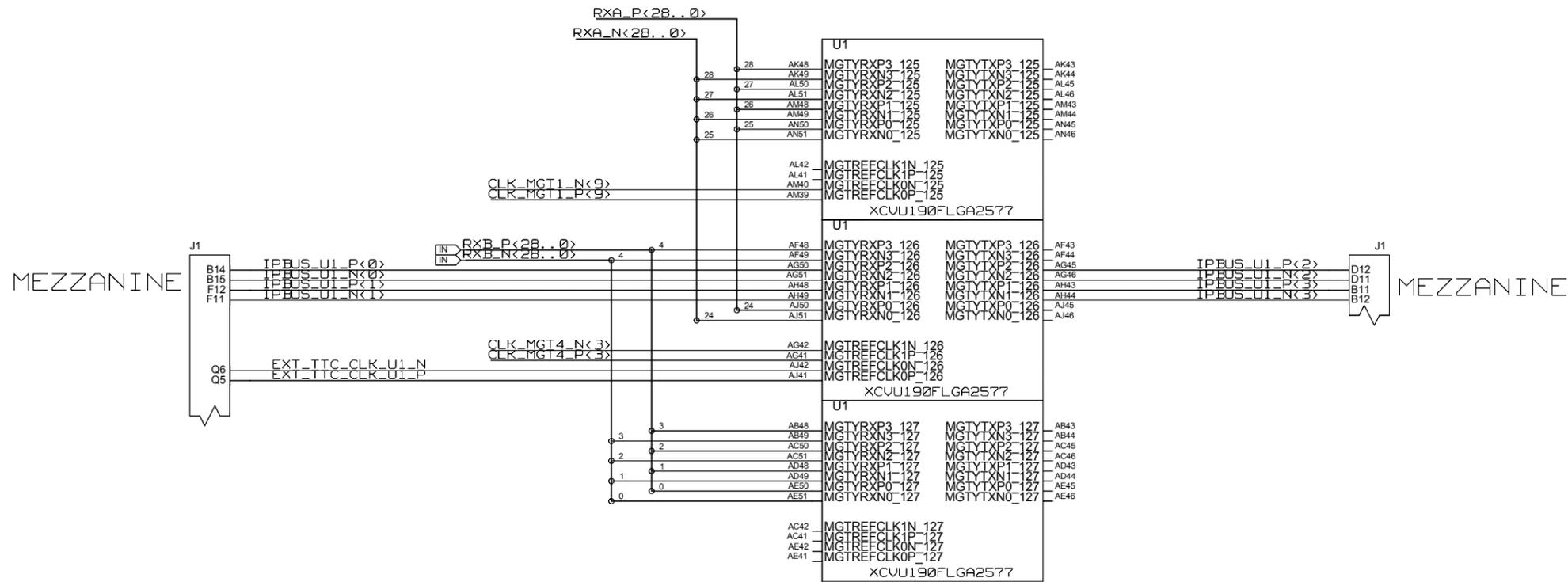


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R7=XXX R8=XXX

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CHECKED	NAME	DATE	SIGN	DRAWING TITLE AVAGO RXA
CHECKED	J. V.DE SOUZA			
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U1_MGT_REAL_TIME				SIZE C
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
SHEET 5 of 7				

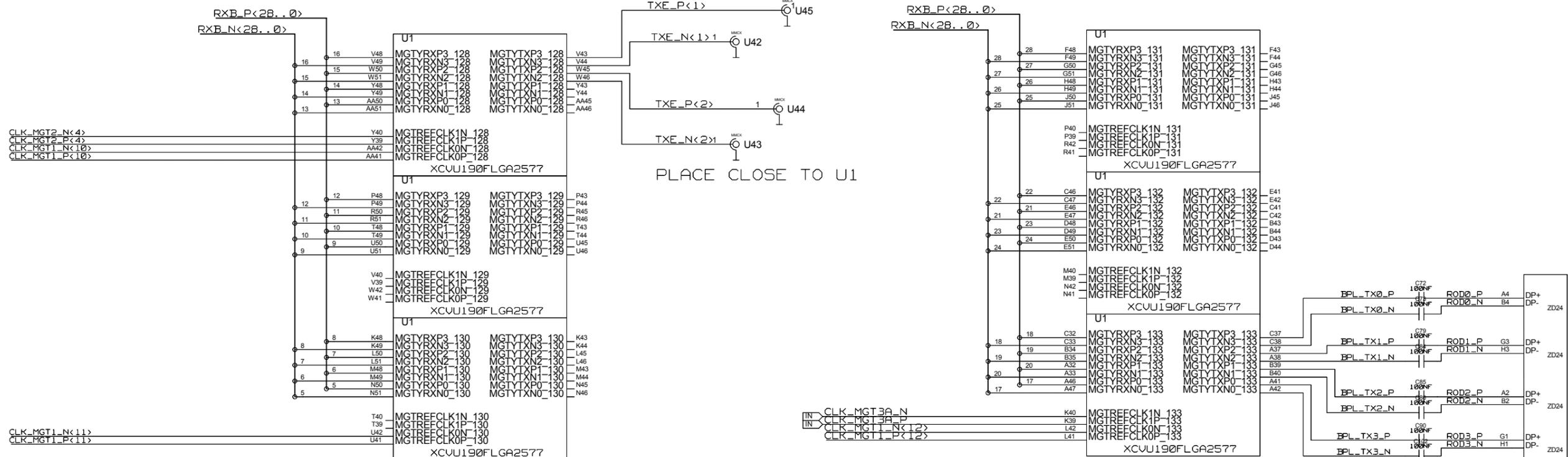
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
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CHECKED	NAME	DATE	SIGN	DRAWING TITLE	
CHECKED	J. V. DE SOUZA			RXA + RXB	
CHECKED	U. SCHAEFER			TXD + IPBUS	
CHECKED	S. RAVE				
DRAWN	BAUSS	07.08.2015			
BLOCK TITLE				U1_MGT_REAL_TIME	
UNIVERSITY OF MAINZ				SIZE	DRAWING NO.
				C	
SCALE				REV.	SHEET 6 OF 7

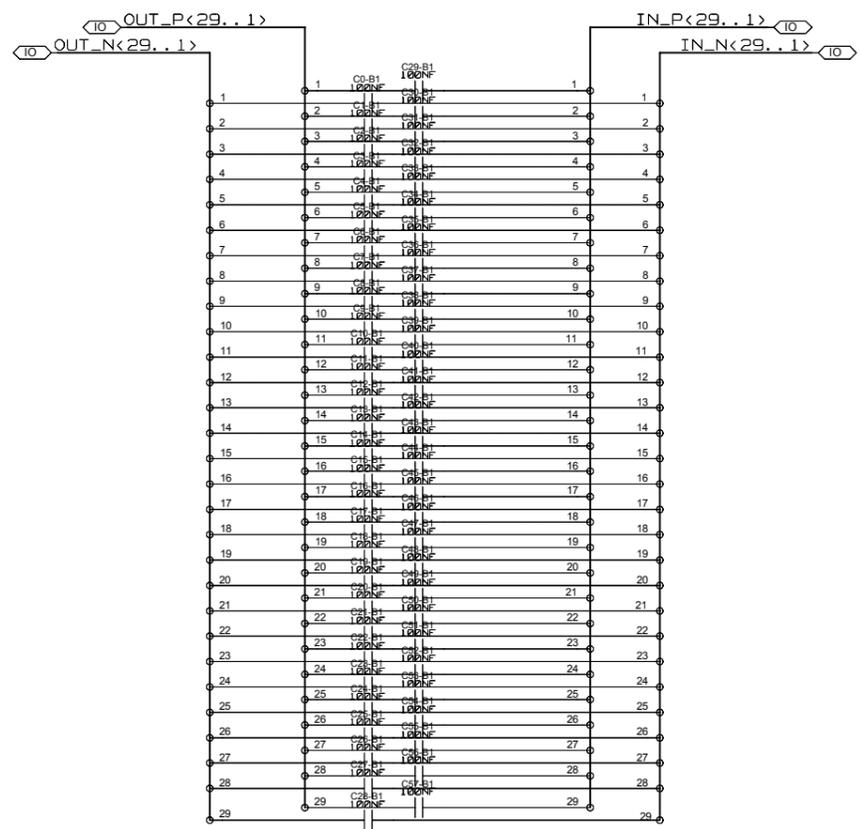
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ZONE	LTR	DESCRIPTION	DATE	APPR.



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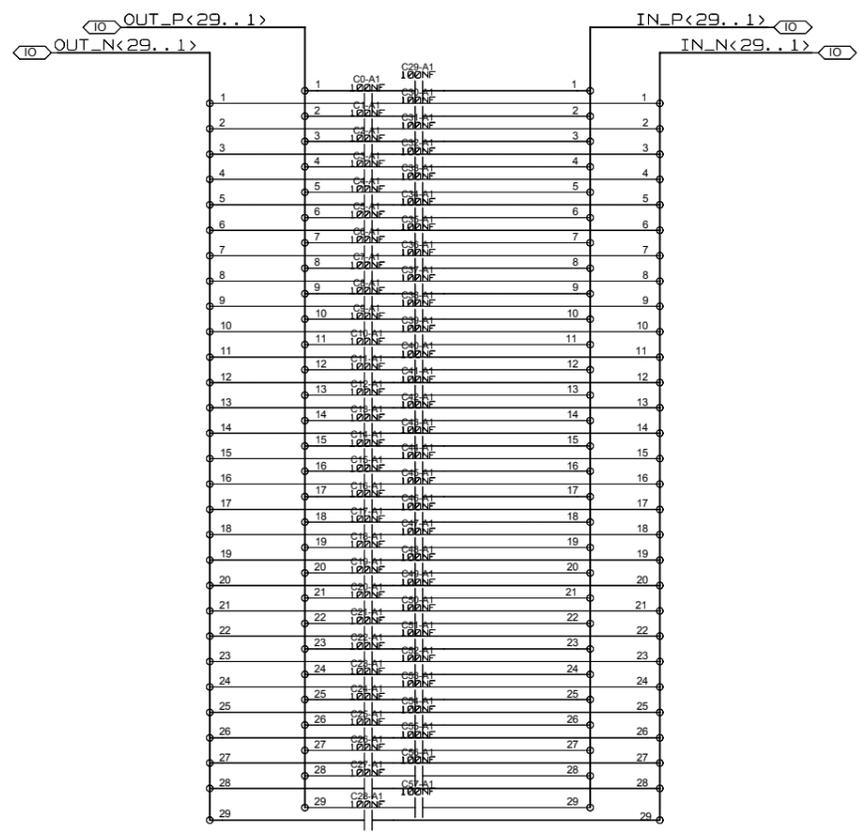
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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE			DRAWING NO.	
UNIVERSITY OF MAINZ			SIZE	REV.
			C	
			SCALE	SHEET 7 OF 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



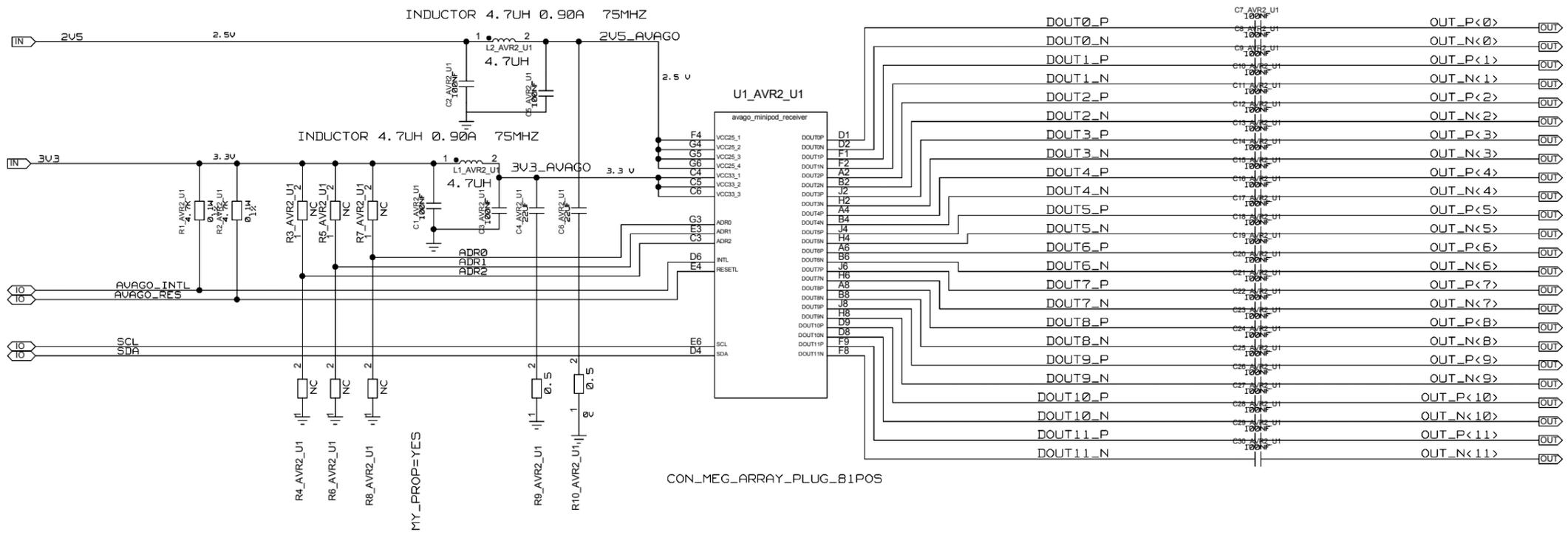
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CHECKED	U. SCHAEFER			
CHECKED	S. RAVE			
DRAWN	BAUSS			
BLOCK TITLE				SIZE C
UNIVERSITY OF MAINZ				REV.
				DRAWING NO.
SCALE			SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



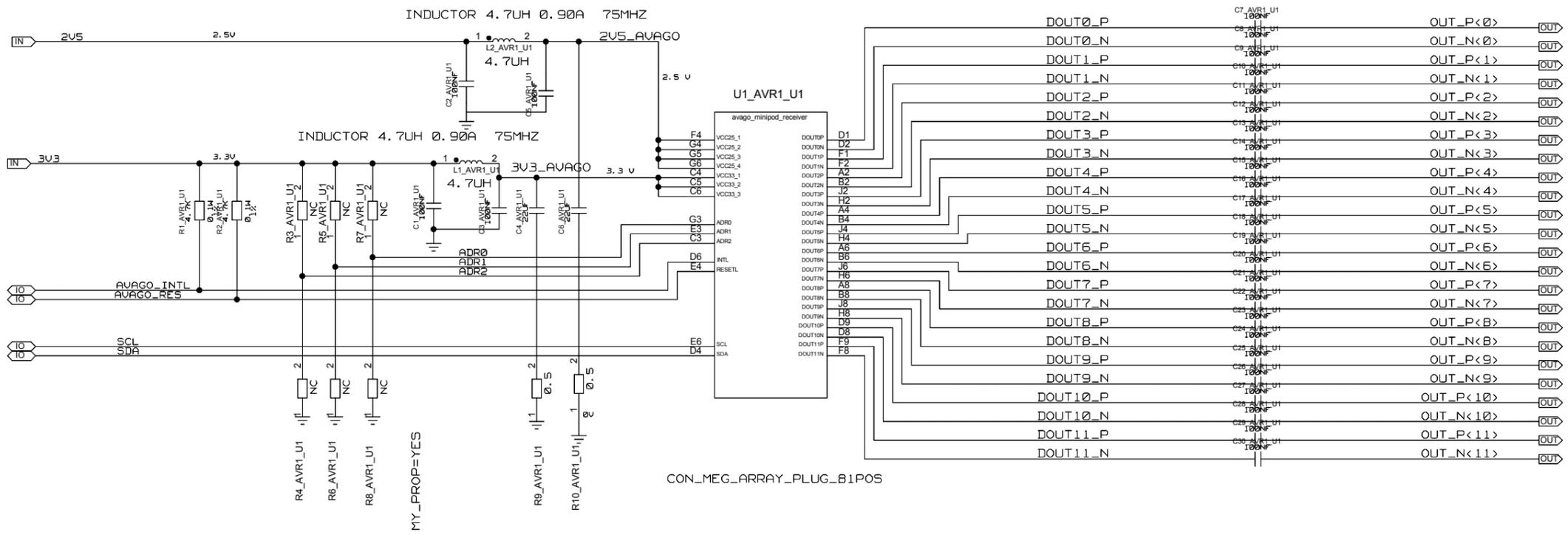
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CHECKED	U. SCHAEFER				
CHECKED	S. RAVE				
DRAWN	BAUSS				
BLOCK TITLE				SIZE	DRAWING NO.
UNIVERSITY OF MAINZ				C	REV.
				SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

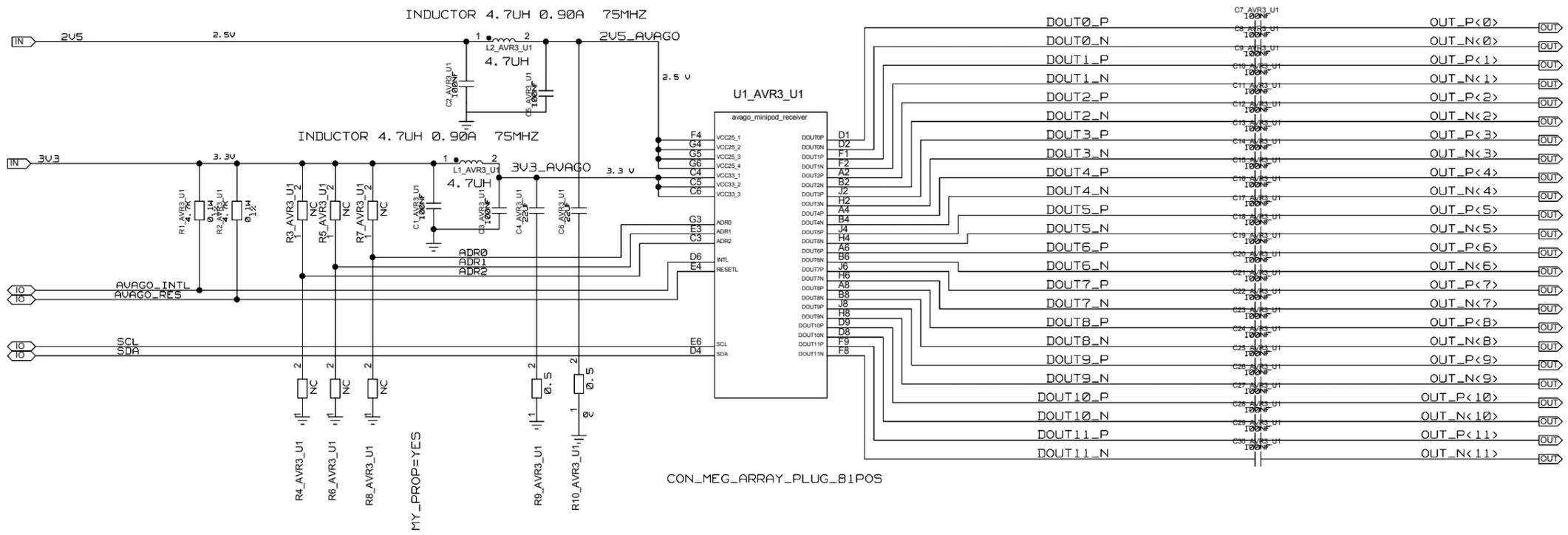


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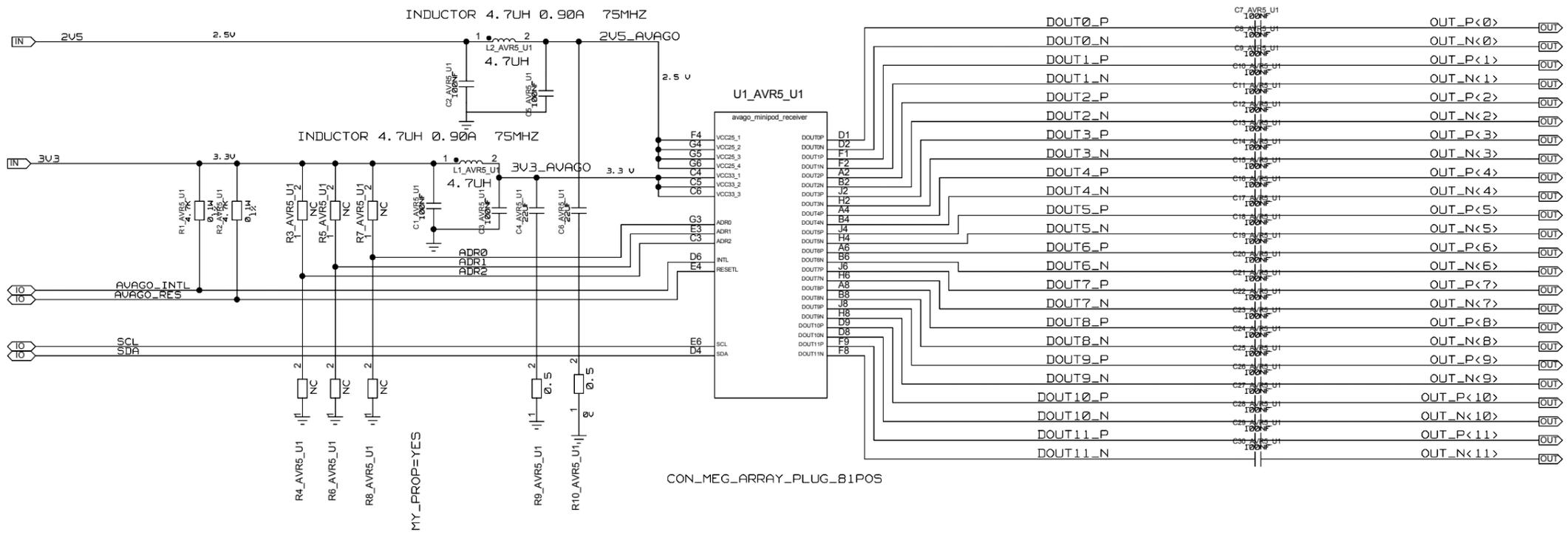
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SIZE C	REV.	DRAWING NO.	
SCALE			SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



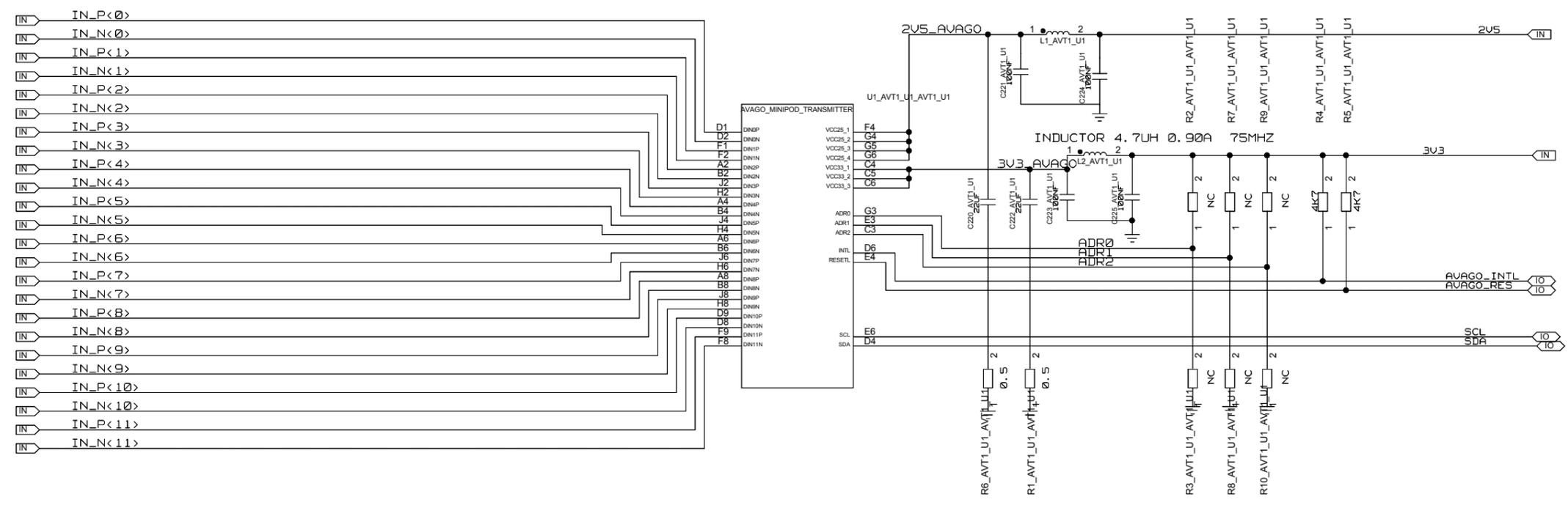
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		AVAGO RECEIVER	
SIZE C	REV.	DRAWING NO.	
SCALE		SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

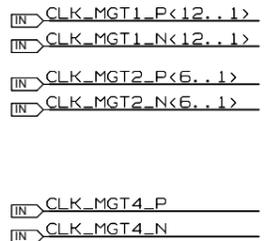
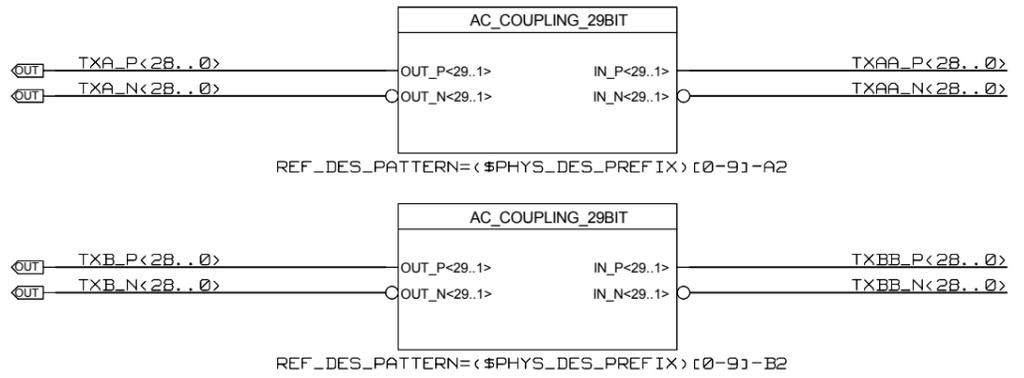
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

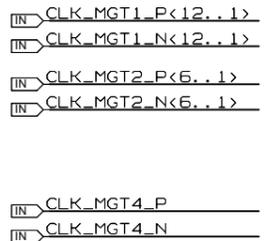
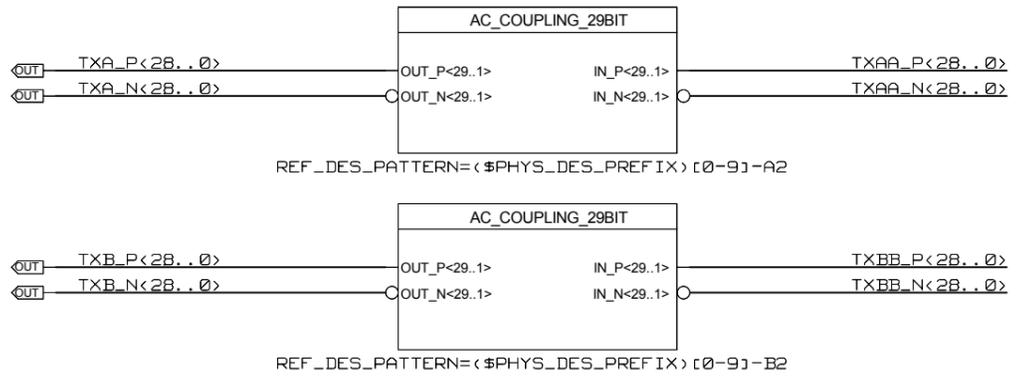
AC COUPLING



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

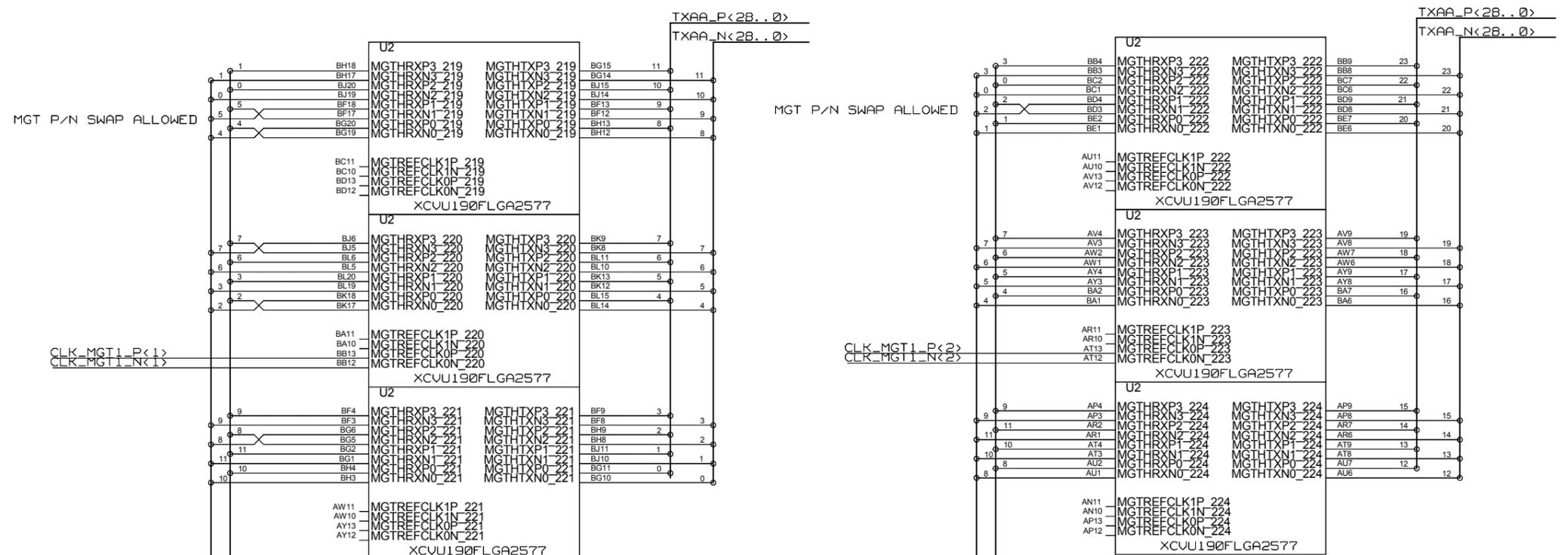
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

AC COUPLING



	NAME	DATE	SIGN	DRAWING TITLE	
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CHECKED	U. SCHAEFER				
CHECKED	S. RAVE				
DRAWN	BAUSS	07.08.2015		DRAWING NO.	
BLOCK TITLE				SIZE	REV.
U1_MGT_REAL_TIME				C	
UNIVERSITY OF MAINZ				SCALE	SHEET 1 of 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

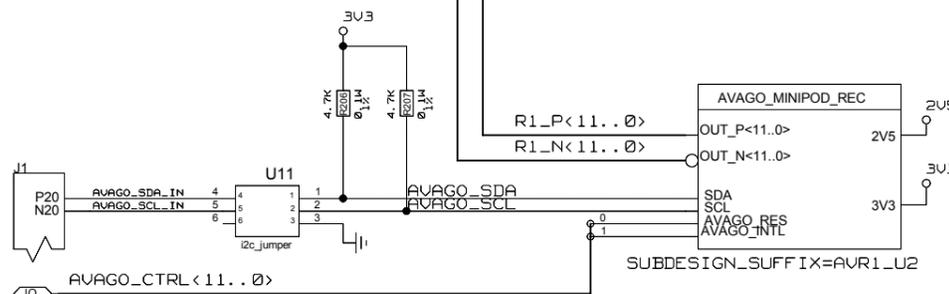


MGT P/N SWAP ALLOWED

MGT P/N SWAP ALLOWED

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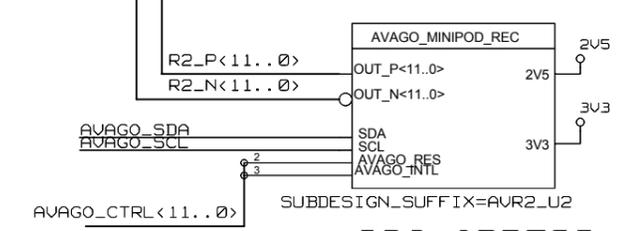


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I2C ADDRESS:

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R5=XXX	R6=XXX
R7=XXX	R8=XXX



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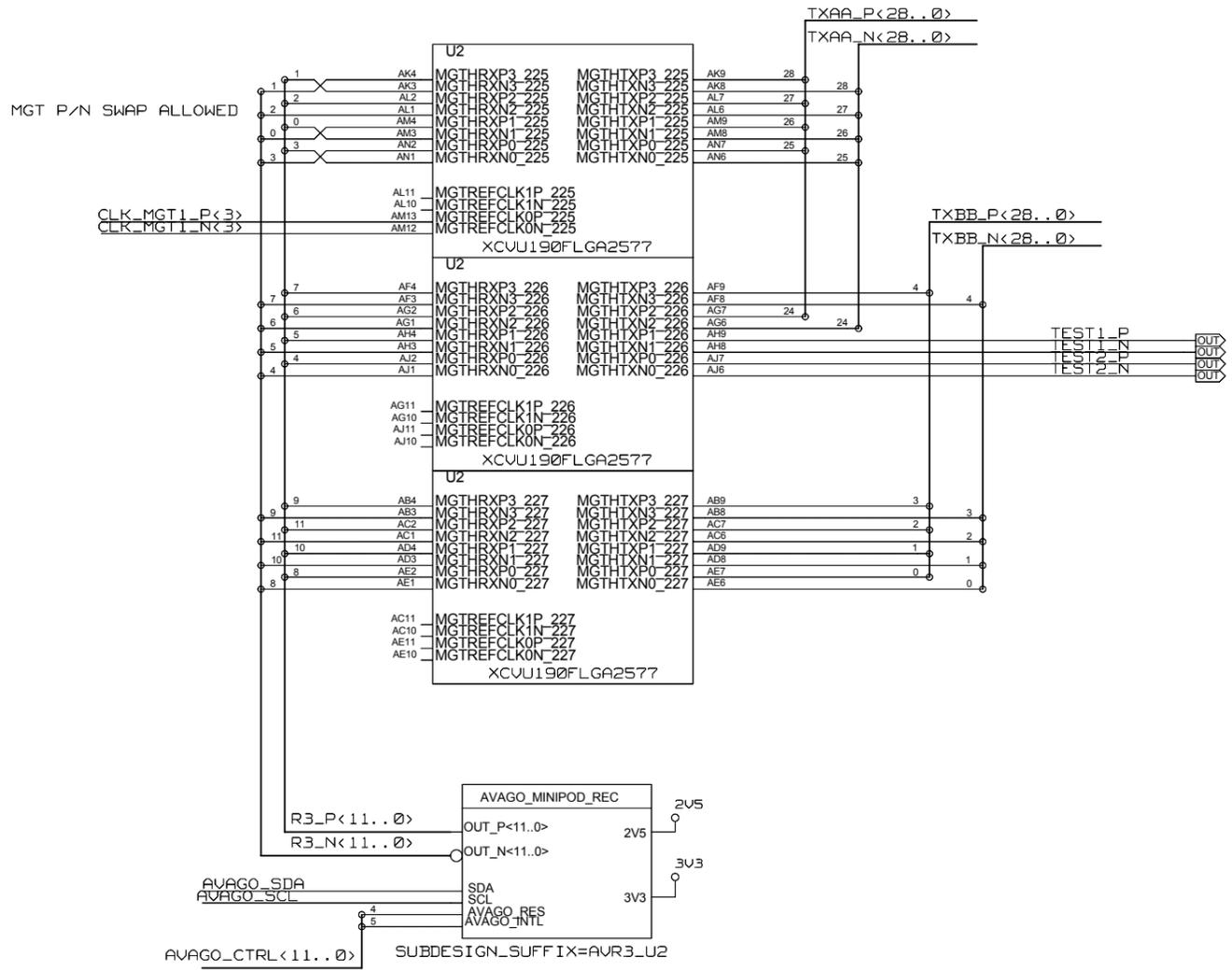
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NAME	DATE	SIGN	DRAWING TITLE		
CHECKED J. V. DE SOUZA			AVAGO TXA		
CHECKED U. SCHAEFER					
CHECKED S. RAVE					
DRAWN BAUSS	07.08.2015				
BLOCK TITLE			SIZE	REV.	DRAWING NO.
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UNIVERSITY OF MAINZ			SCALE		SHEET 2 OF 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

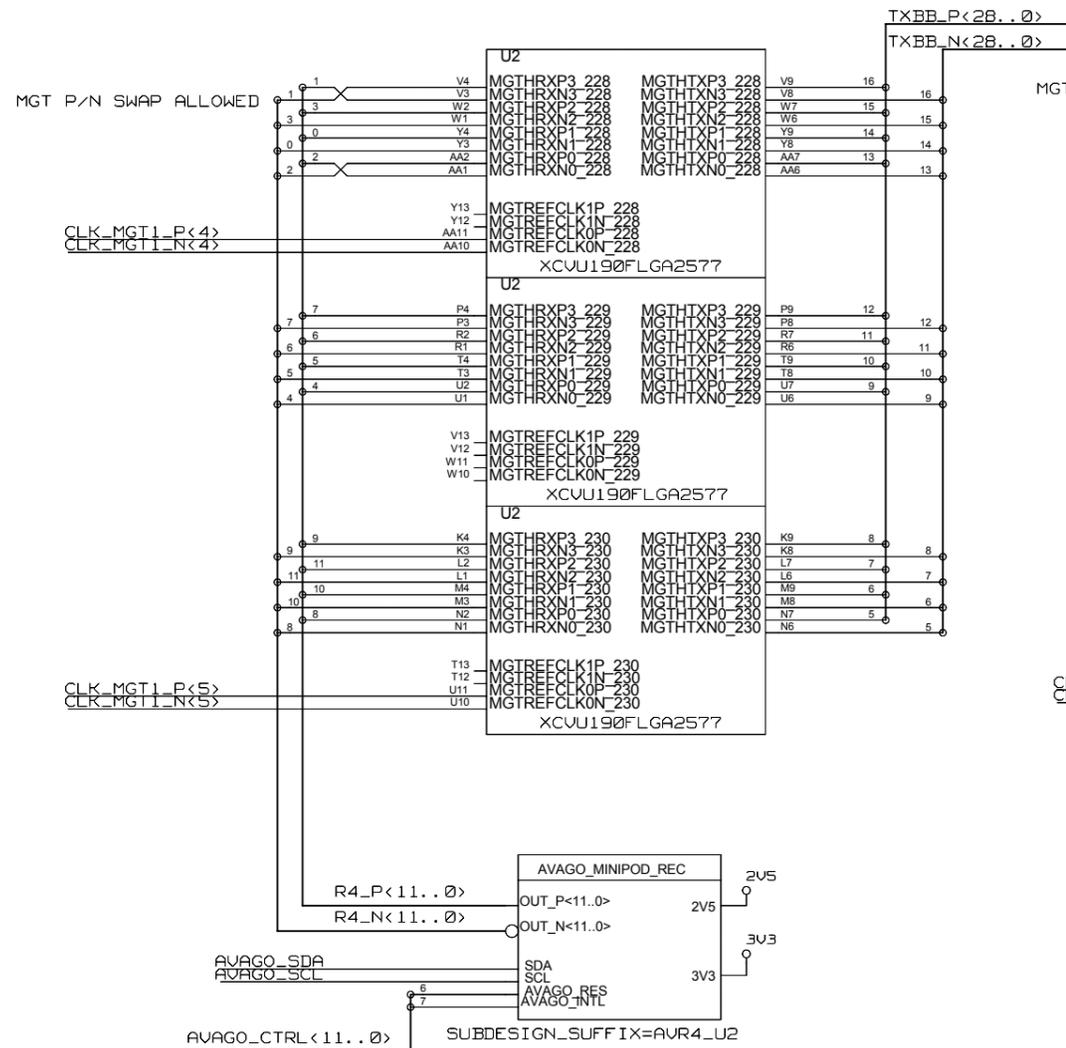


I2C ADDRESS:
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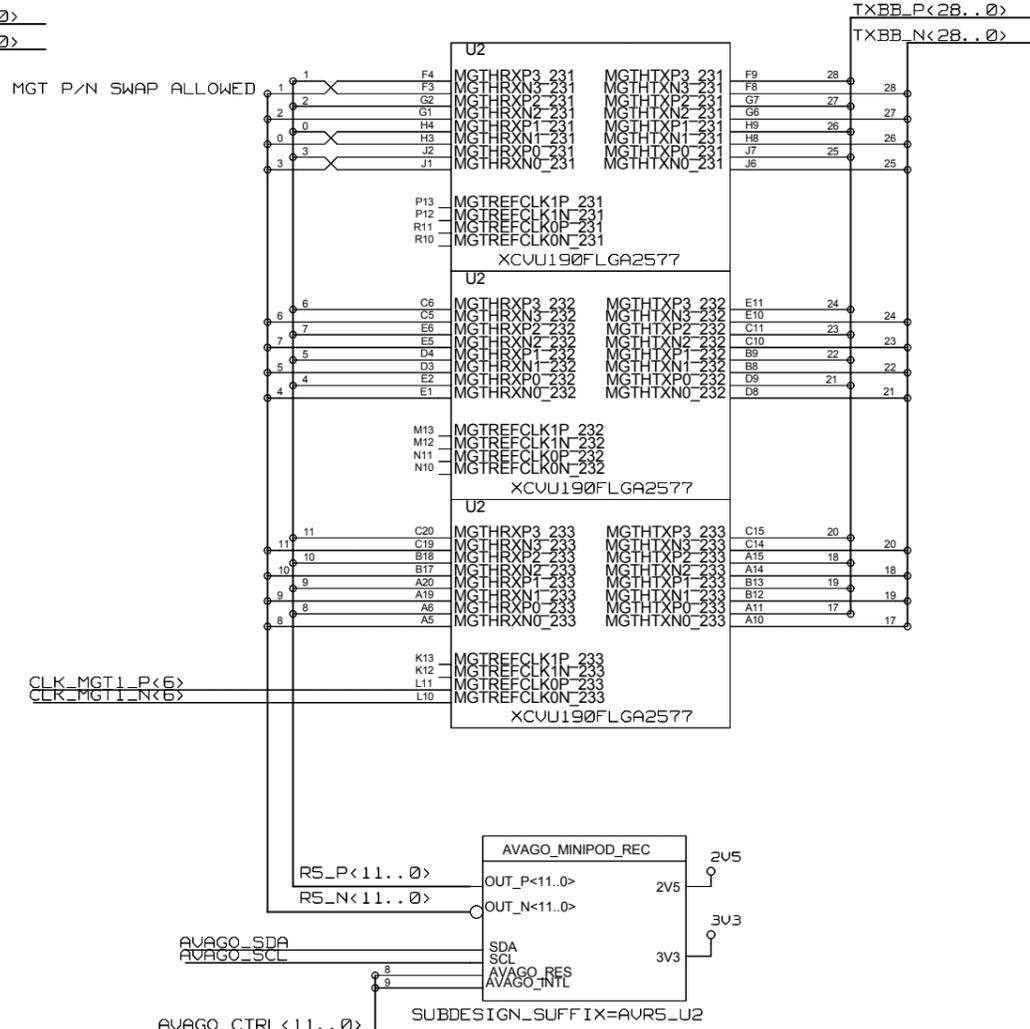
BANK
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CHECKED	J. V. DE SOUZA			DRAWING TITLE AVAGO TXA + TXB
CHECKED	U. SCHAEFER			
CHECKED	S. RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U3_MGT_REAL_TIME				
UNIVERSITY OF MAINZ				
SIZE C	REV.	DRAWING NO.		
SCALE				SHEET 3 of 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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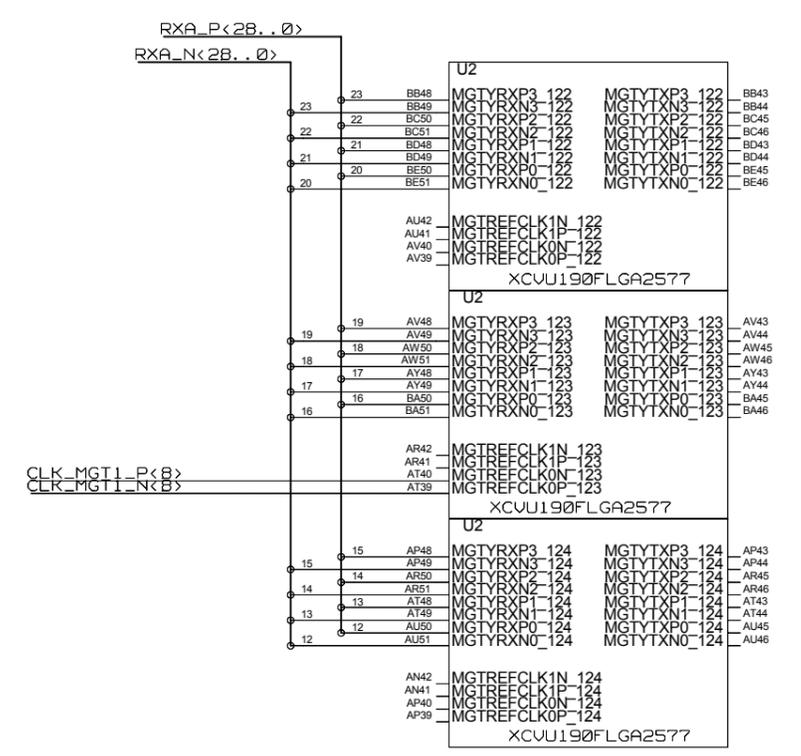
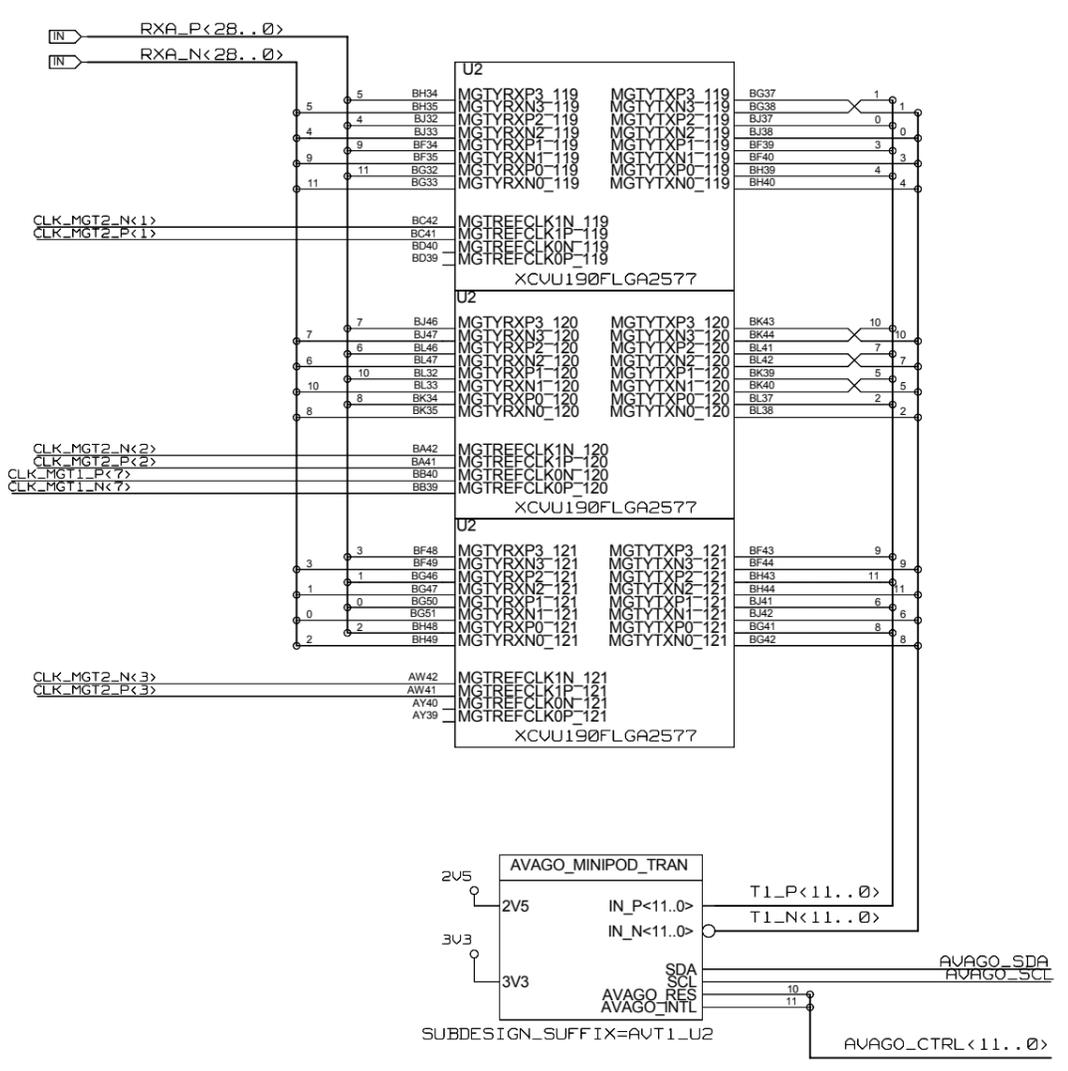


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R5=XXX R6=XXX
R7=XXX R8=XXX

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CHECKED	NAME	DATE	SIGN	DRAWING TITLE AVAGO TXB
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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 4 of 7				

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

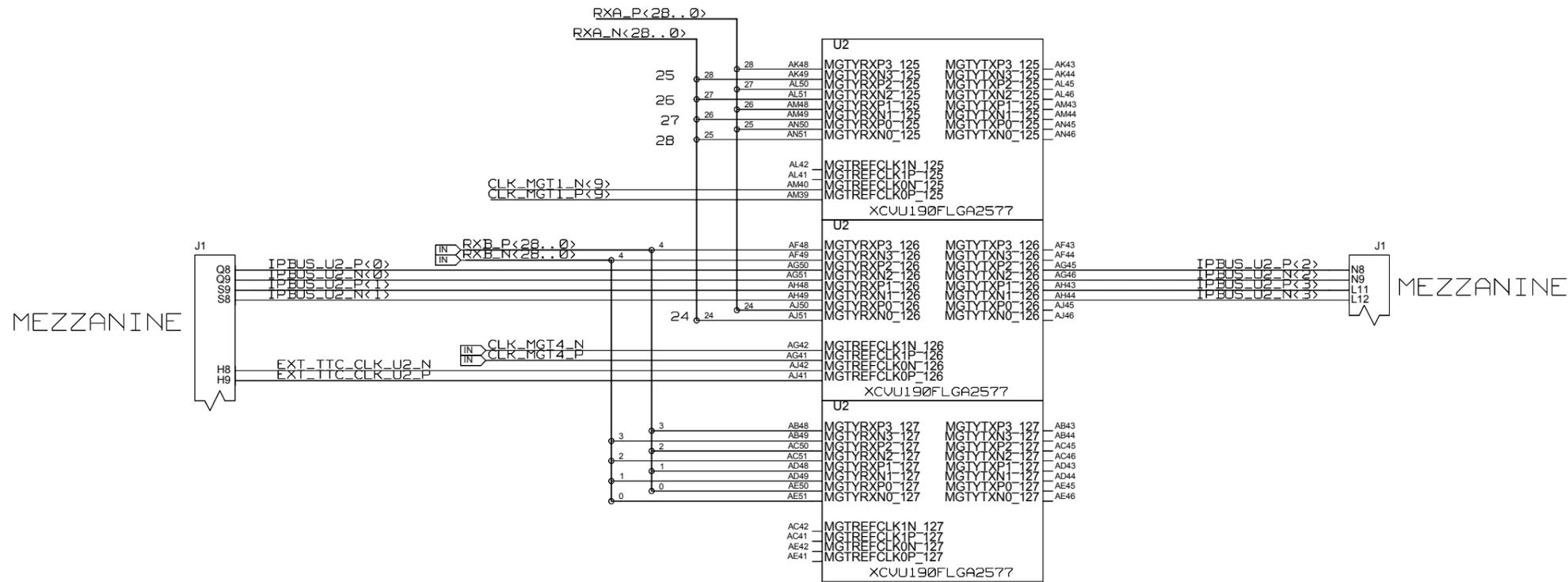


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R7=XXX R8=XXX

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CHECKED	J. V. DE SOUZA			DRAWING TITLE AVAGO RXA
CHECKED	U. SCHAEFER			
CHECKED	S. RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U2_MGT_REAL_TIME				
UNIVERSITY OF MAINZ				
SIZE	REV.	DRAWING NO.		
SCALE				SHEET 5 of 7

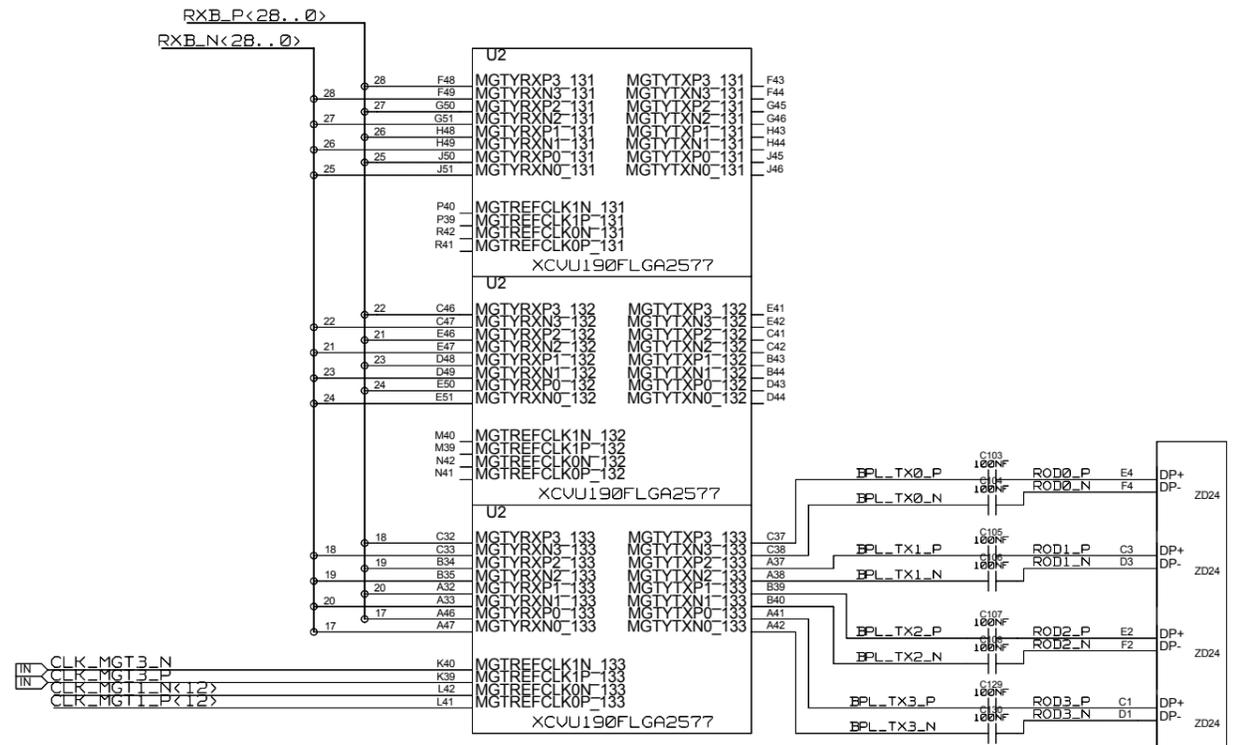
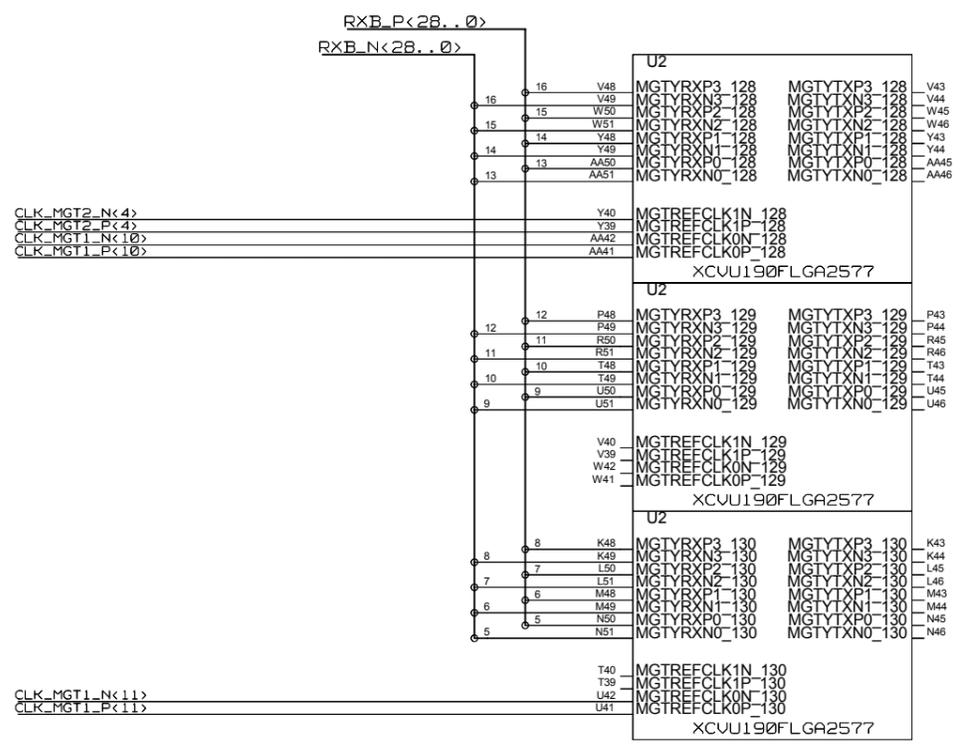
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
125
126
127

CHECKED	J. V. DE SOUZA			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

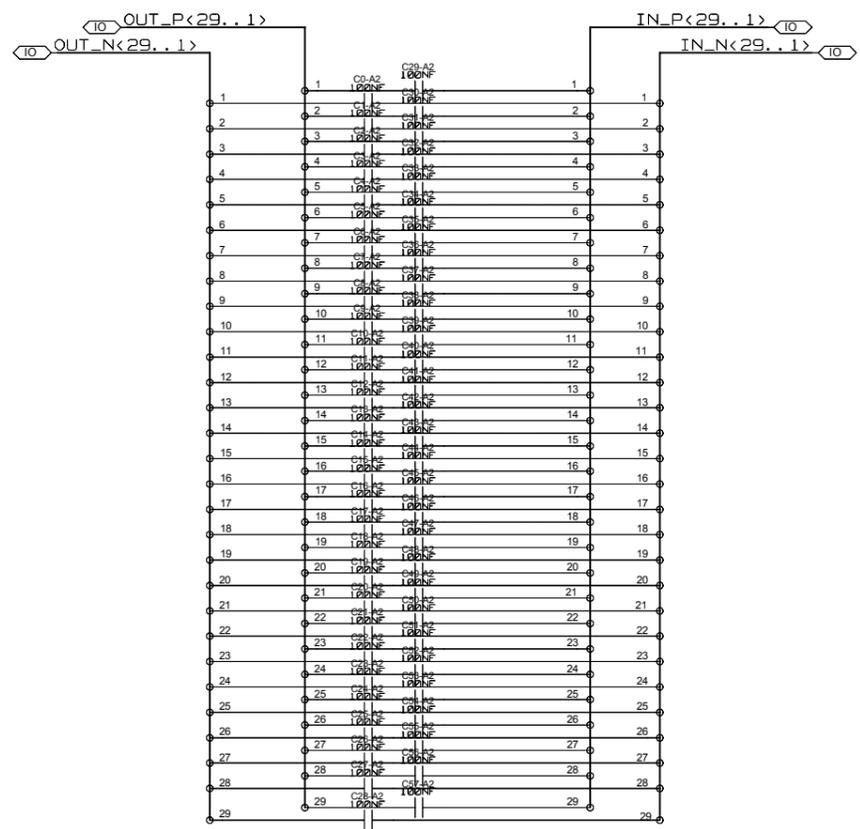
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ZONE	LTR	DESCRIPTION	DATE	APPR.



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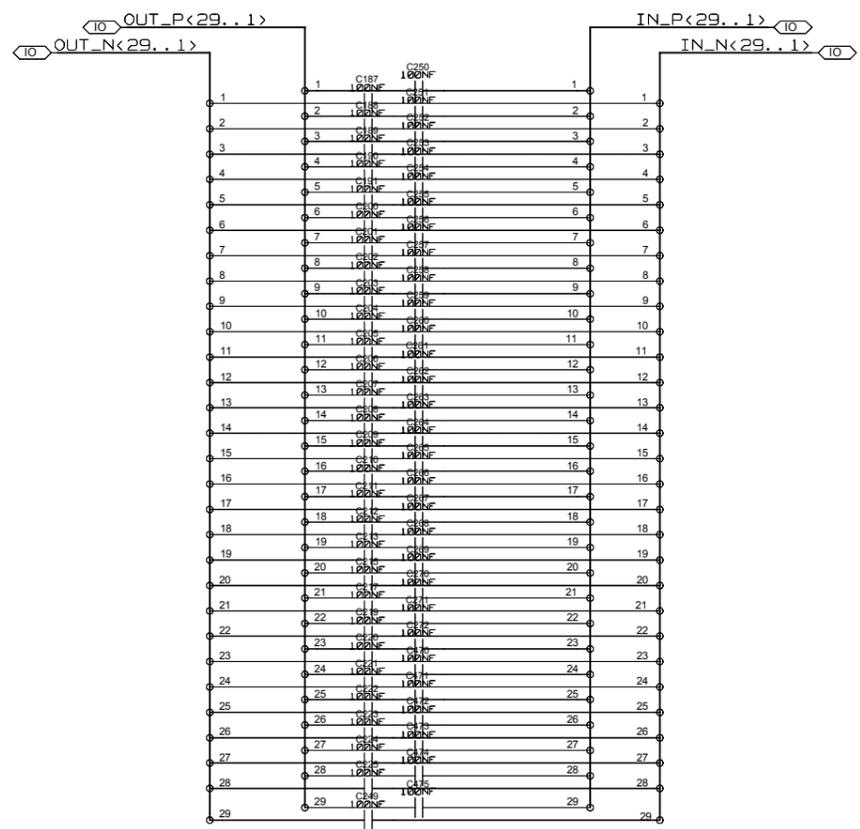
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CHECKED	U. SCHAEFER					
CHECKED	S. RAVE					
DRAWN	BAUSS	07.08.2015				
BLOCK TITLE U2_MGT_REAL_TIME						
UNIVERSITY OF MAINZ				SIZE C	REV.	DRAWING NO.
				SCALE		SHEET 7 OF 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



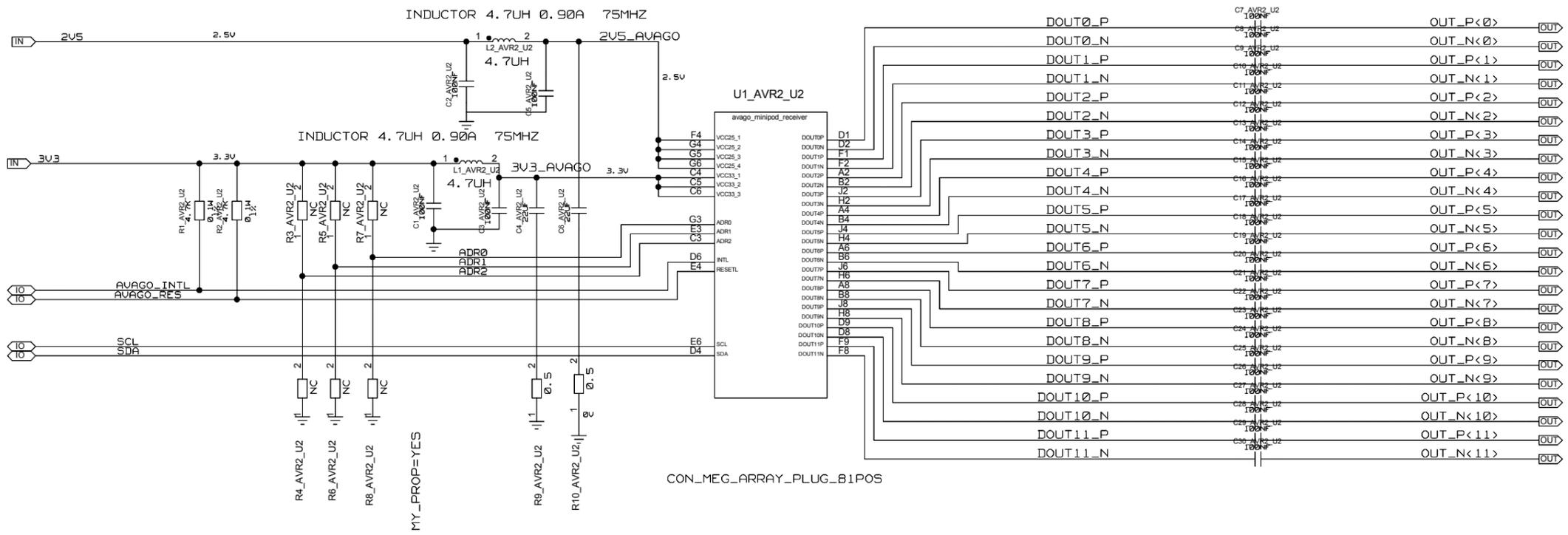
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CHECKED	J. V. DE SOUZA					
CHECKED	U. SCHAEFER					
CHECKED	S. RAVE					
DRAWN	BAUSS					
BLOCK TITLE						
UNIVERSITY OF MAINZ				SIZE C	REV.	DRAWING NO.
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



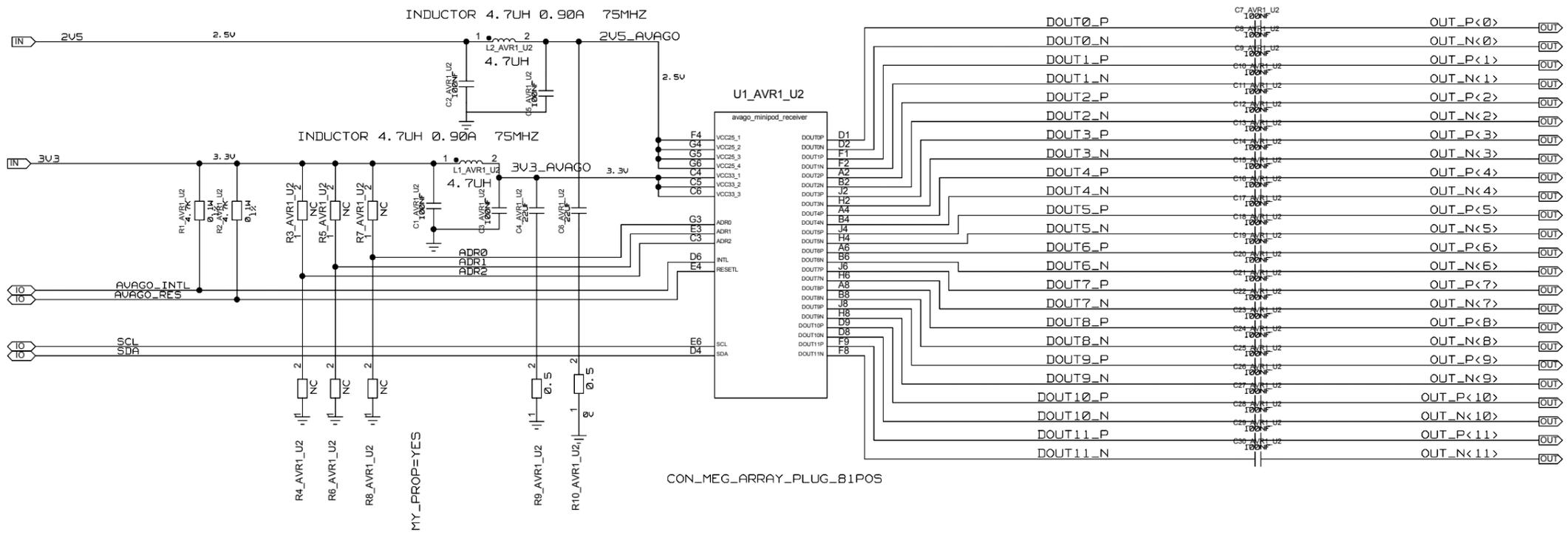
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CHECKED	U. SCHAEFER					
CHECKED	S. RAVE					
DRAWN	BAUSS					
BLOCK TITLE						
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



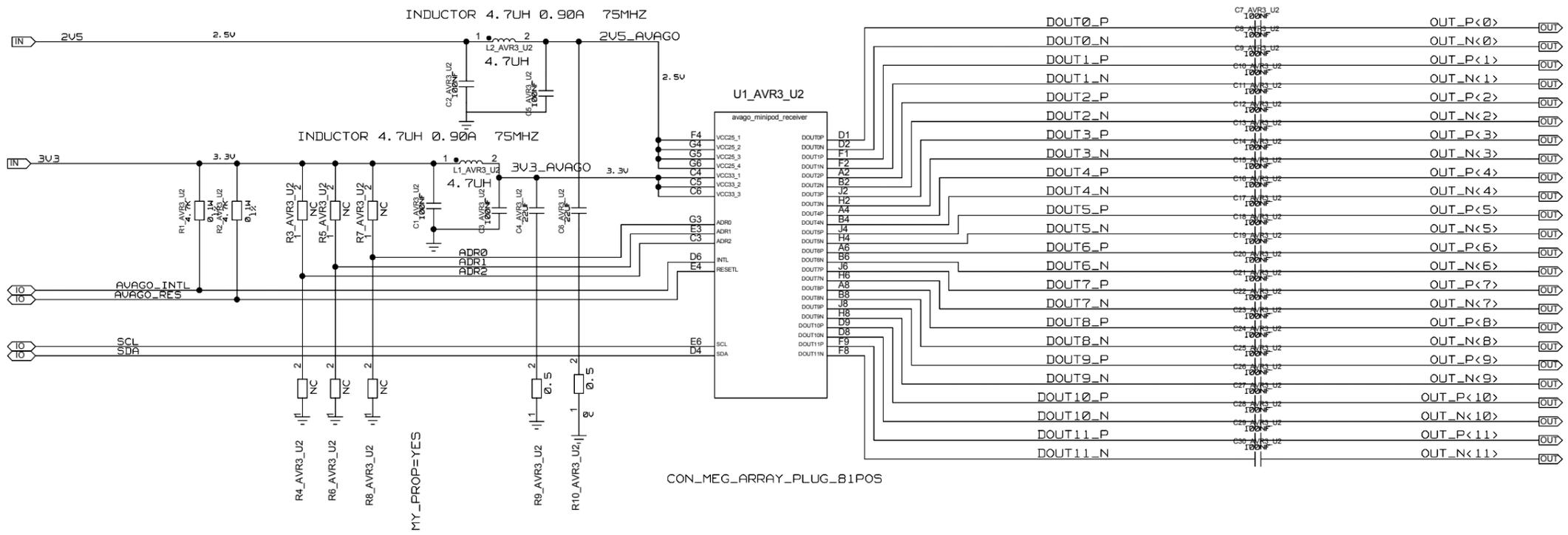
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		AVAGO RECEIVER	
SIZE	REV.	DRAWING NO.	
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SCALE		SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



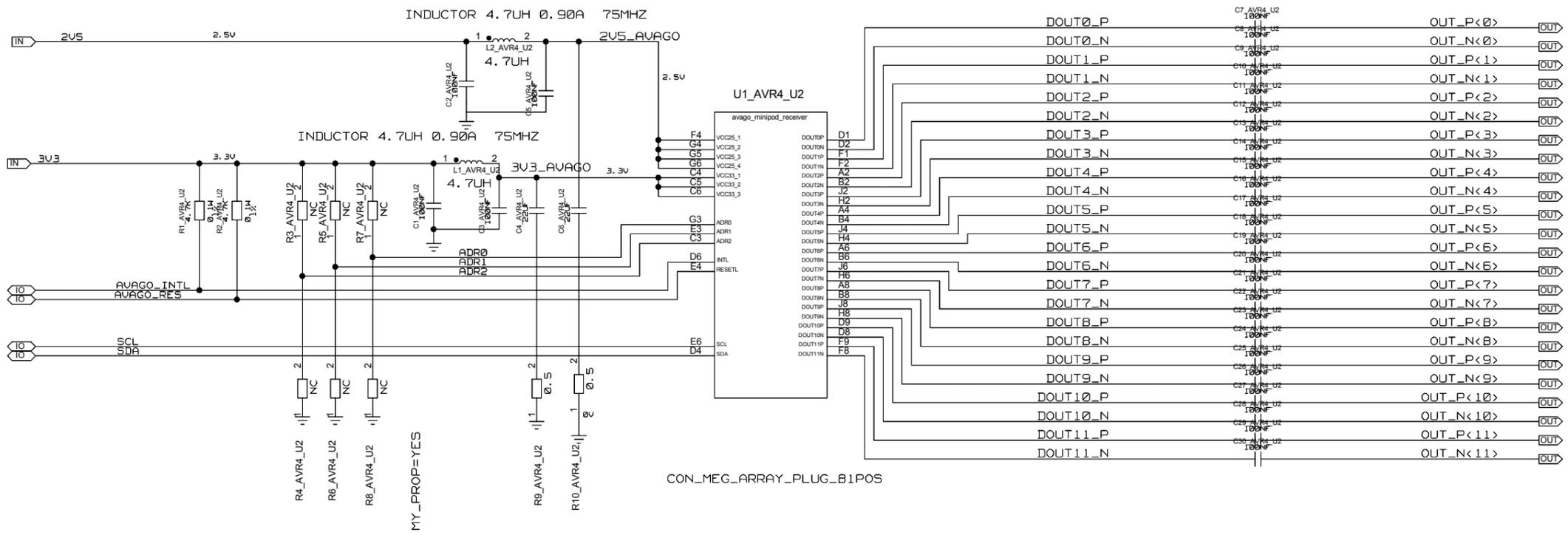
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		AVAGO RECEIVER	
SIZE C	REV.	DRAWING NO.	
SCALE		SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



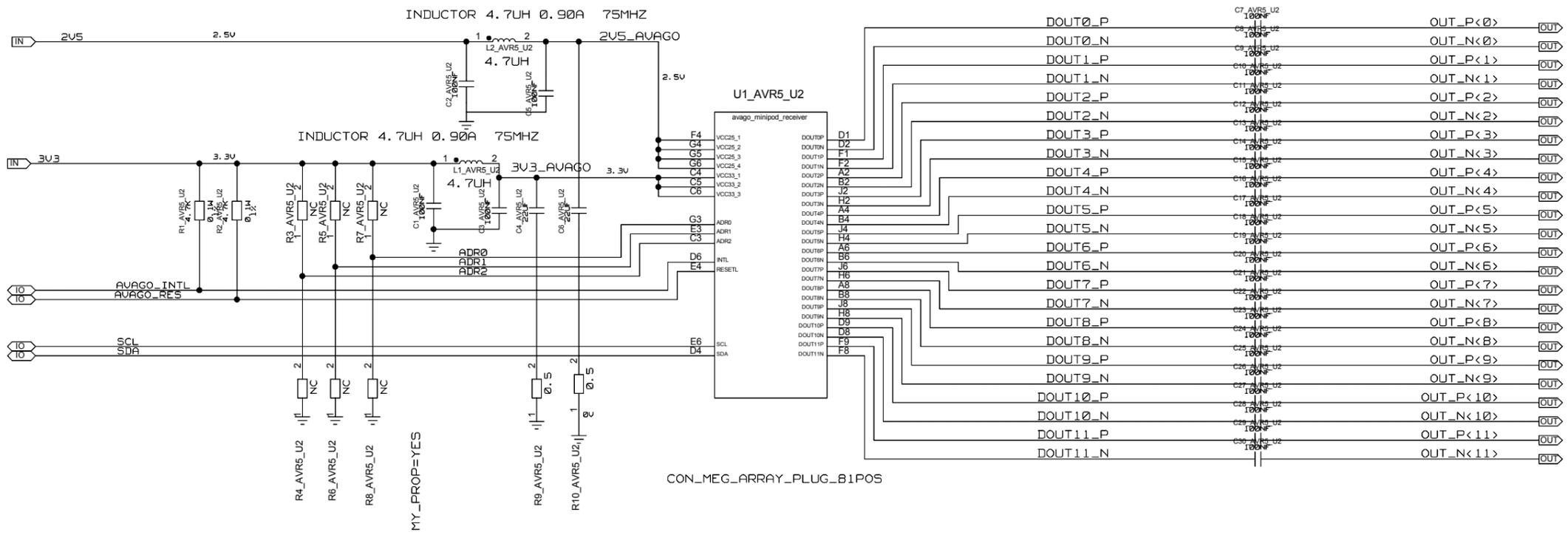
UNIVERSITY OF MAINZ		DRAWING TITLE	
		AVAGO RECEIVER	
SIZE	REV.	DRAWING NO.	
C			
SCALE			SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



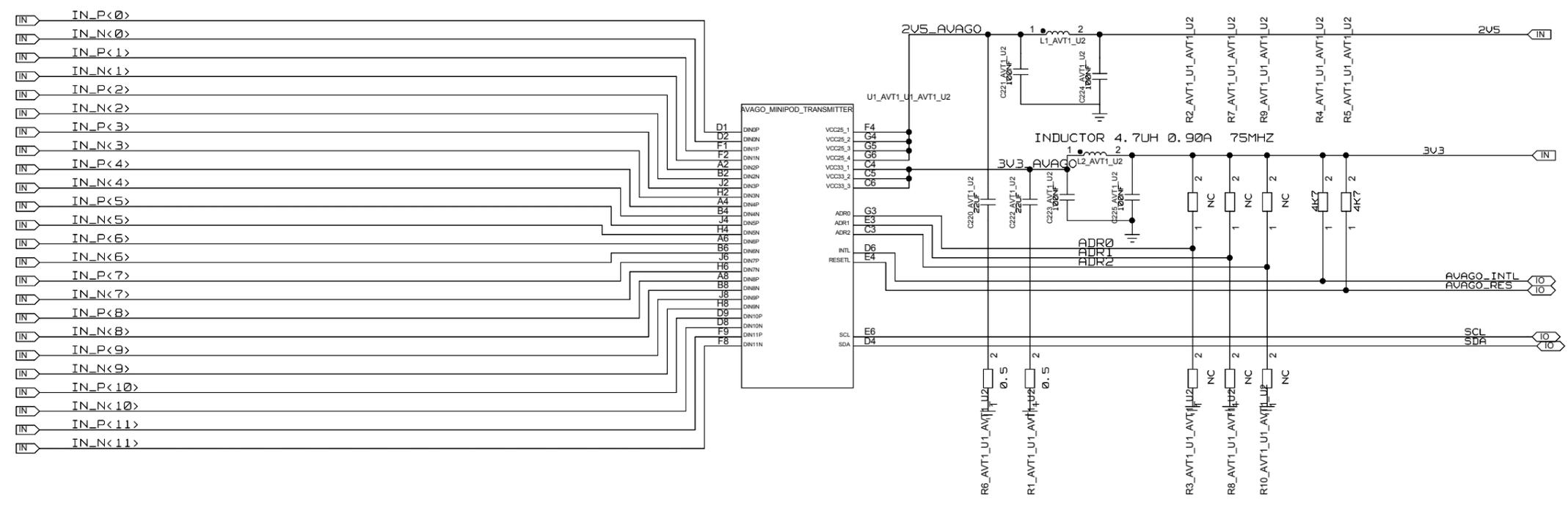
UNIVERSITY OF MAINZ		DRAWING TITLE	
		AVAGO RECEIVER	
SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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SIZE C	REV.	DRAWING NO.	
SCALE			SHEET OF

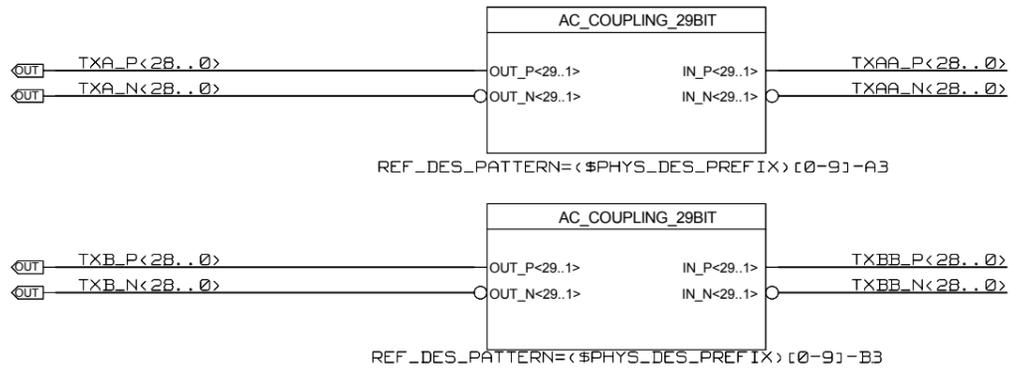
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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SIZE	REV.	DRAWING NO.	
C			
SCALE			SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

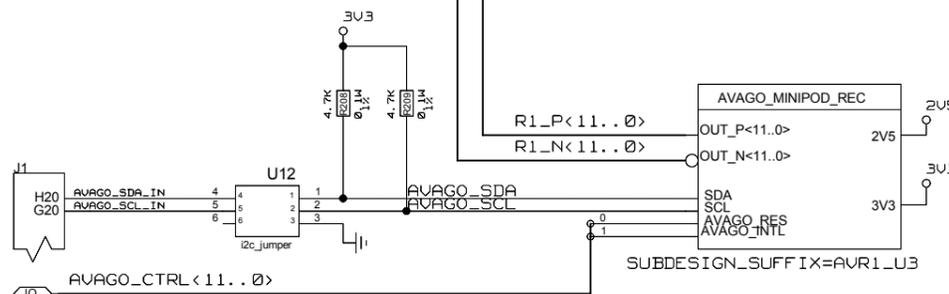
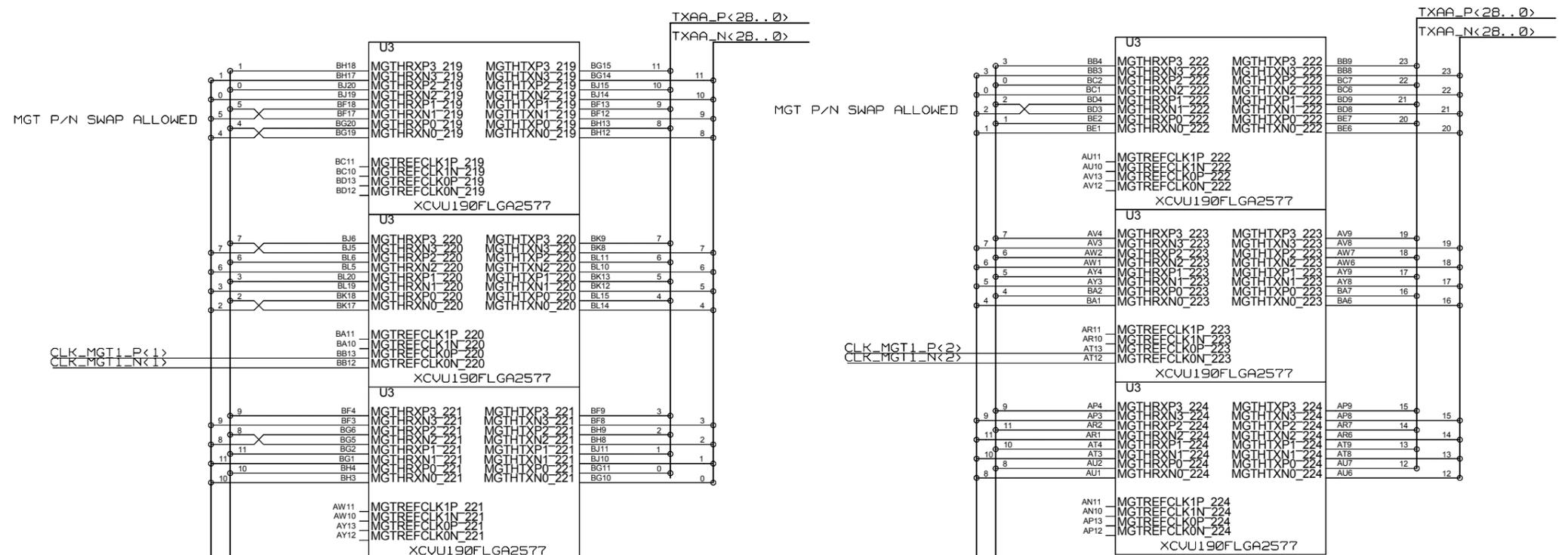
AC COUPLING



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

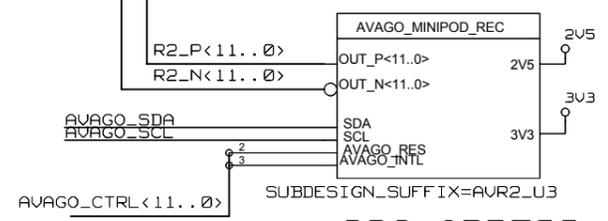
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CHECKED	J. V. DE SOUZA			I/O + AC COUPLING	
CHECKED	U. SCHAEFER				
CHECKED	S. RAVE				
DRAWN	BAUSS	07.08.2015			
BLOCK TITLE				SIZE	REV.
U3_MGT_REAL_TIME				C	
UNIVERSITY OF MAINZ				DRAWING NO.	
				SCALE	SHEET 1 of 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



AVAGO_CTRL<11..0>
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 AVAGO_CTRL 1, 3, 5, 7, 9, 11 = AVAGO_INTL_XX

I2C ADDRESS:
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 R5=XXX R6=XXX
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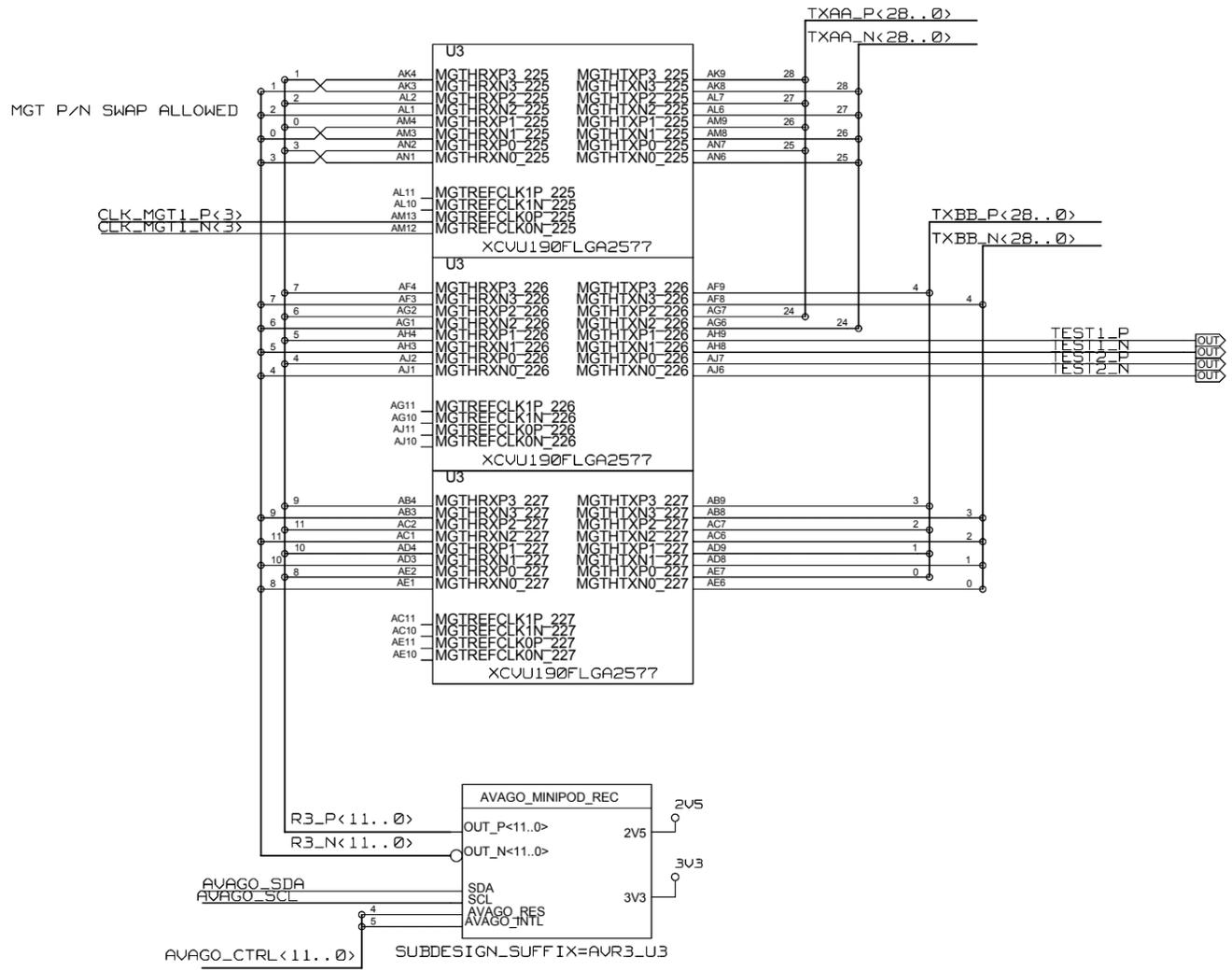


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 R7=XXX R8=XXX

BANK
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NAME	DATE	SIGN	DRAWING TITLE		
CHECKED J. V. DE SOUZA			AVAGO TXA		
CHECKED U. SCHAEFER					
CHECKED S. RAVE					
DRAWN BAUSS	07.08.2015				
BLOCK TITLE			SIZE	REV.	DRAWING NO.
U3_MGT_REAL_TIME			C		
UNIVERSITY OF MAINZ			SCALE		SHEET 2 OF 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

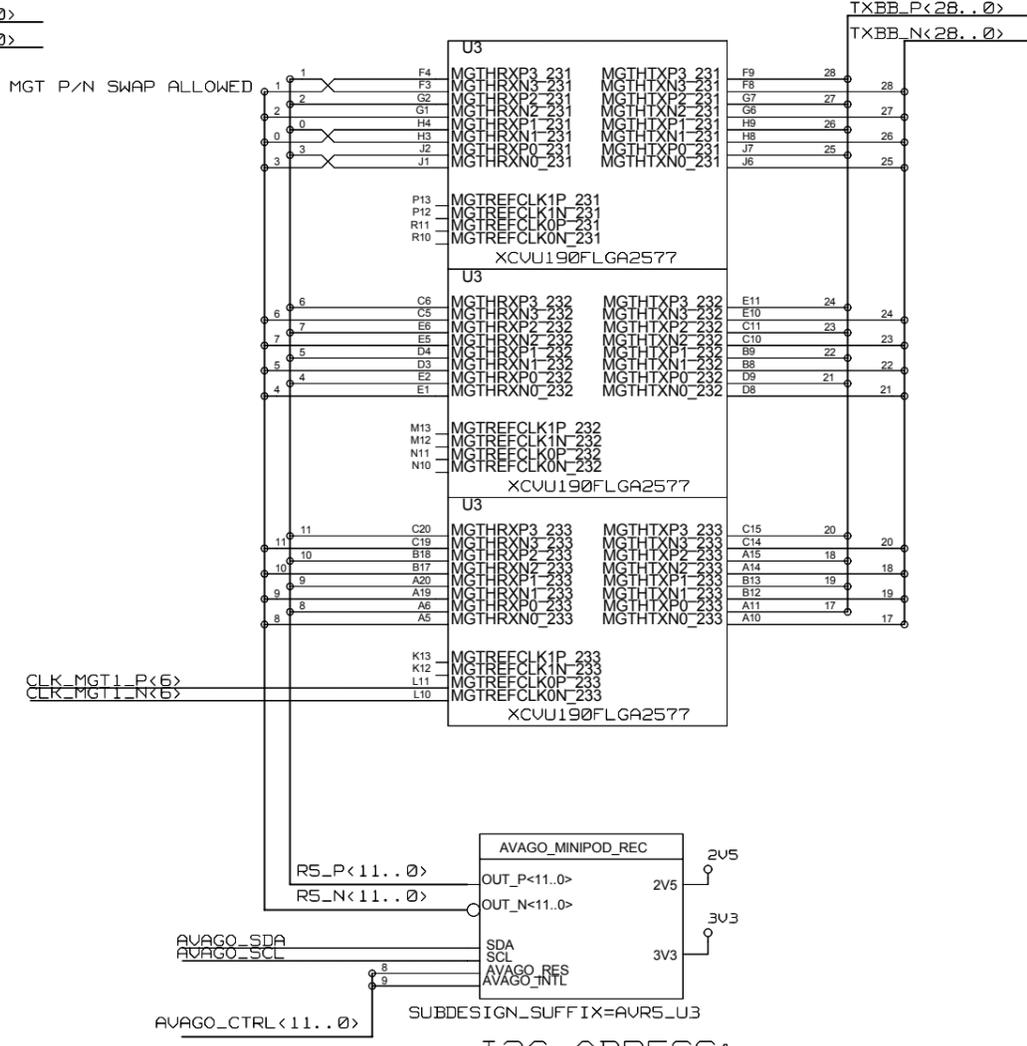
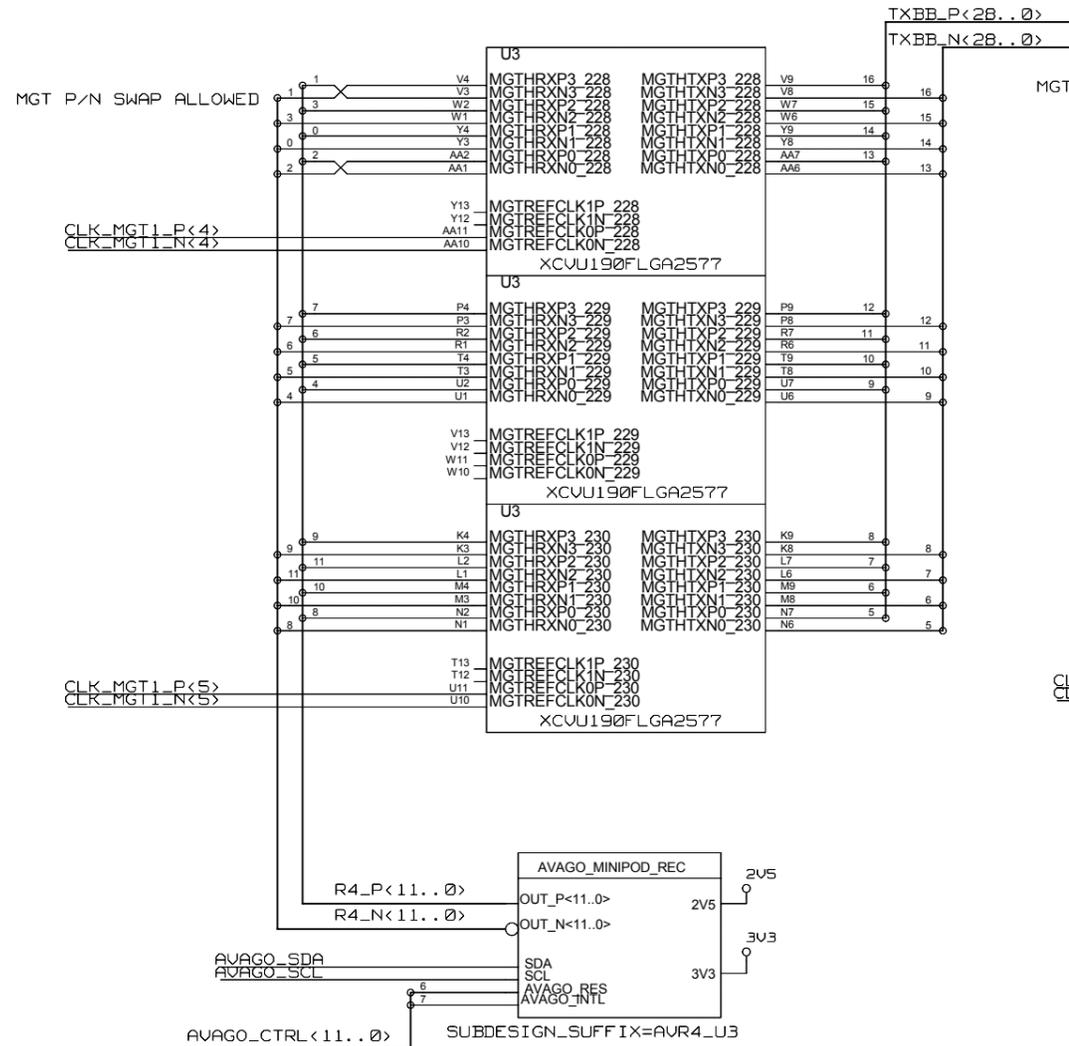


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R5=XXX R6=XXX
R7=XXX R8=XXX

BANK
225
226
227

CHECKED	NAME	DATE	SIGN	DRAWING TITLE AVAGO TXA + TXB
CHECKED	J. V. DE SOUZA			
CHECKED	U. SCHAEFER			
CHECKED	S. RAVE			
DRAWN	BAUSS	07.08.2015		BLOCK TITLE U3_MGT_REAL_TIME
UNIVERSITY OF MAINZ				
SIZE	REV.	DRAWING NO.		SHEET 3 of 7
C				
SCALE				

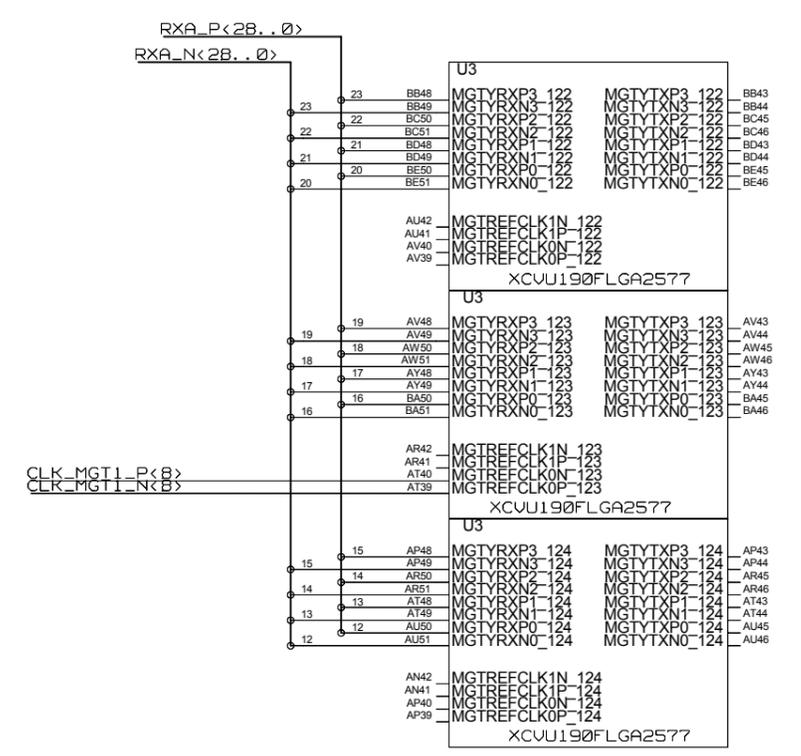
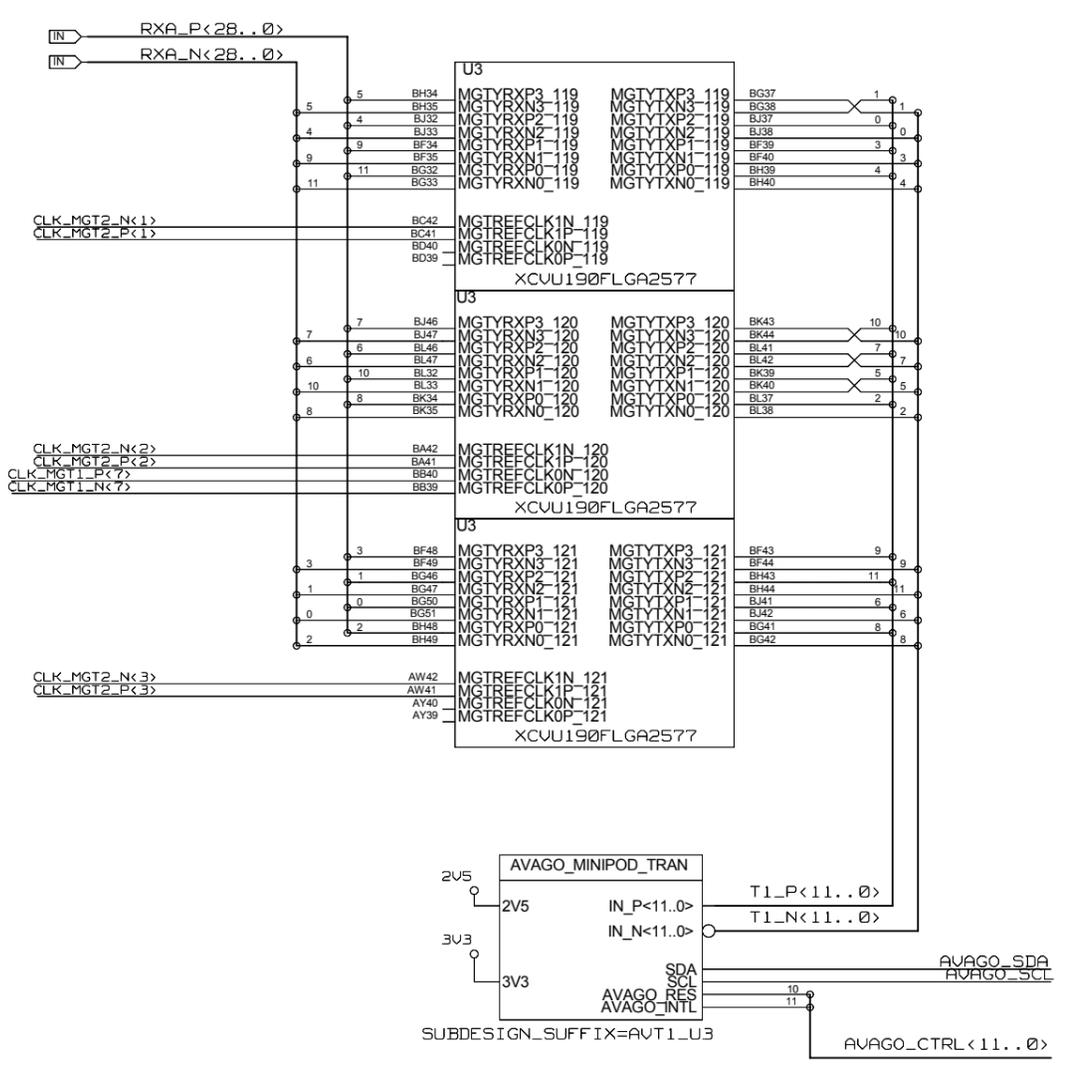
REVISIONS			
ZONE	LTR	DESCRIPTION	DATE



BANK
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229
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CHECKED	J. V. DE SOUZA			DRAWING TITLE AVAGO 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.
				SHEET 4 of 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

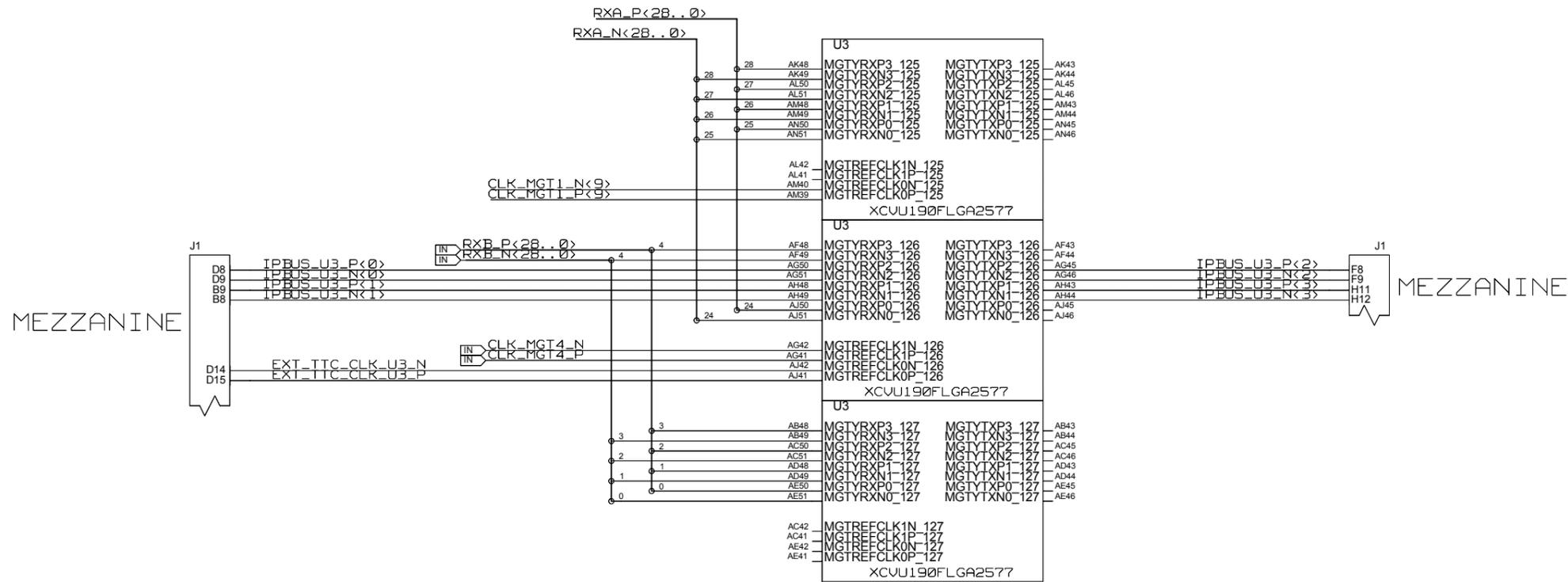


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 R5=XXX R6=XXX
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BANK
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CHECKED	J. V. DE SOUZA	DATE	SIGN	DRAWING TITLE AVAGO RXA
CHECKED	U. SCHAEFER			
CHECKED	S. RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U3_MGT_REAL_TIME				SIZE C
UNIVERSITY OF MAINZ				REV.
				DRAWING NO.
				SHEET 5 of 7

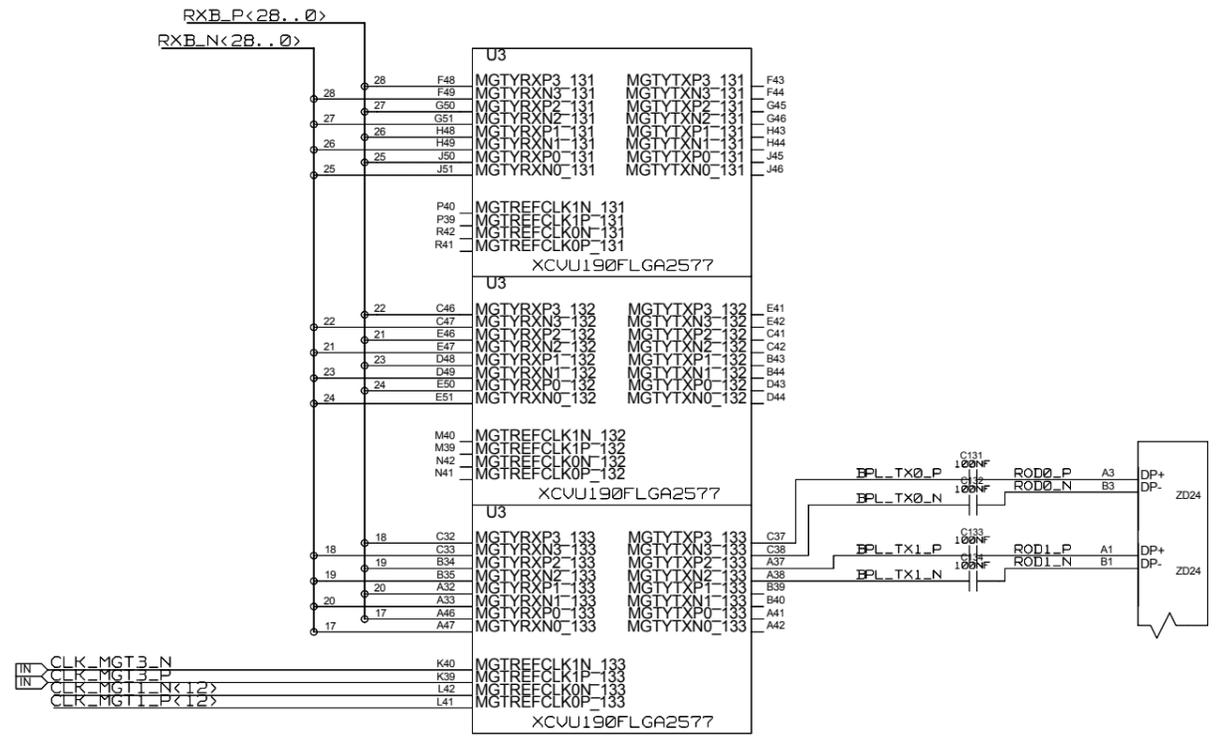
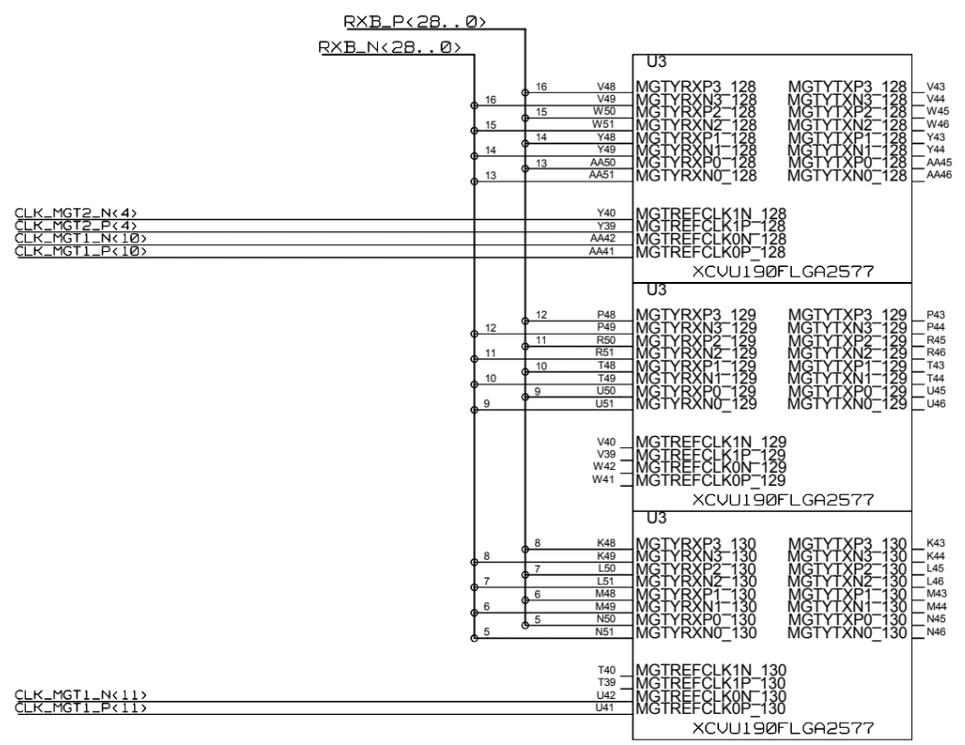
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
125
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127

CHECKED	NAME	DATE	SIGN	DRAWING TITLE		
CHECKED	J. V. DE SOUZA			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.	DRAWING NO.
SCALE				SHEET 6 OF 7		

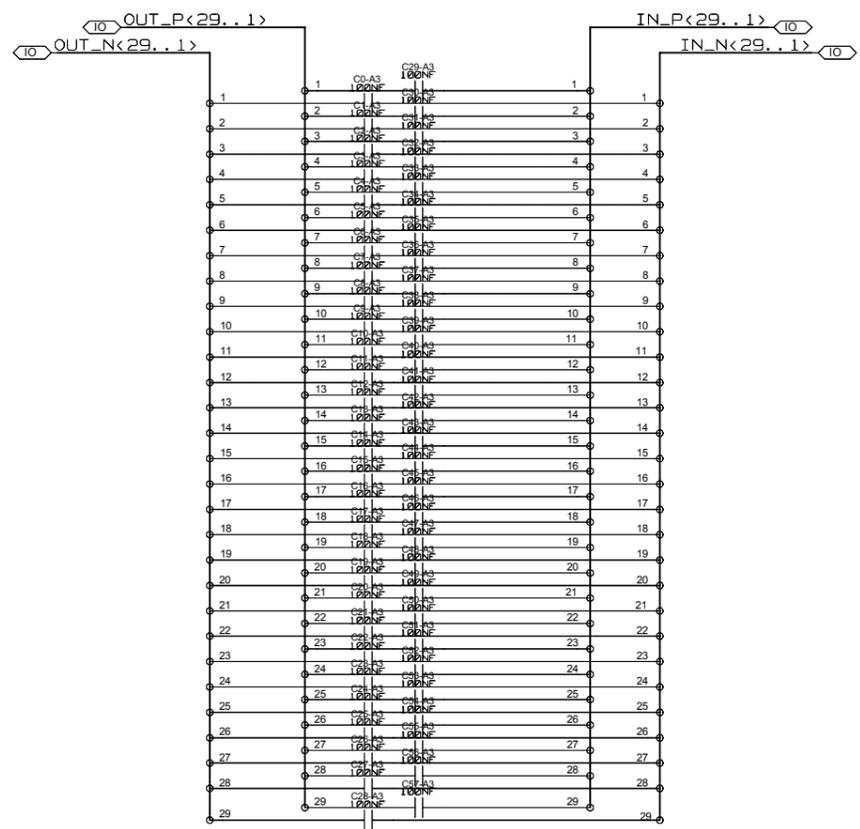
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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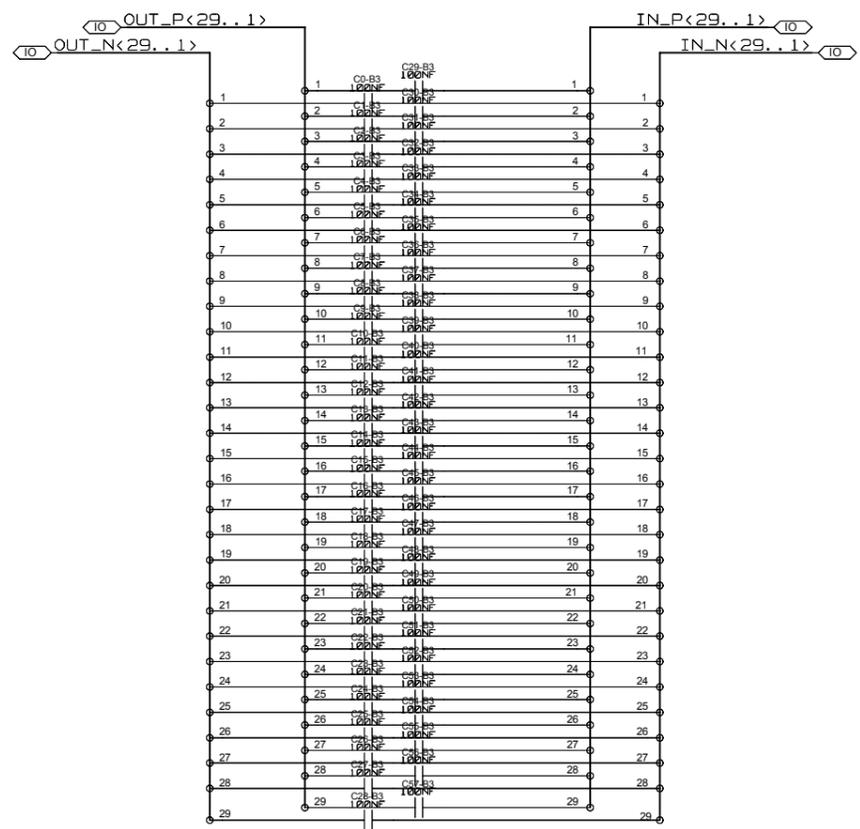
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CHECKED	U. SCHAEFER			
CHECKED	S. RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U3_MGT_REAL_TIME				DRAWING NO.
UNIVERSITY OF MAINZ				
SIZE	C	REV.		DRAWING NO.
SCALE				
				SHEET 7 OF 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



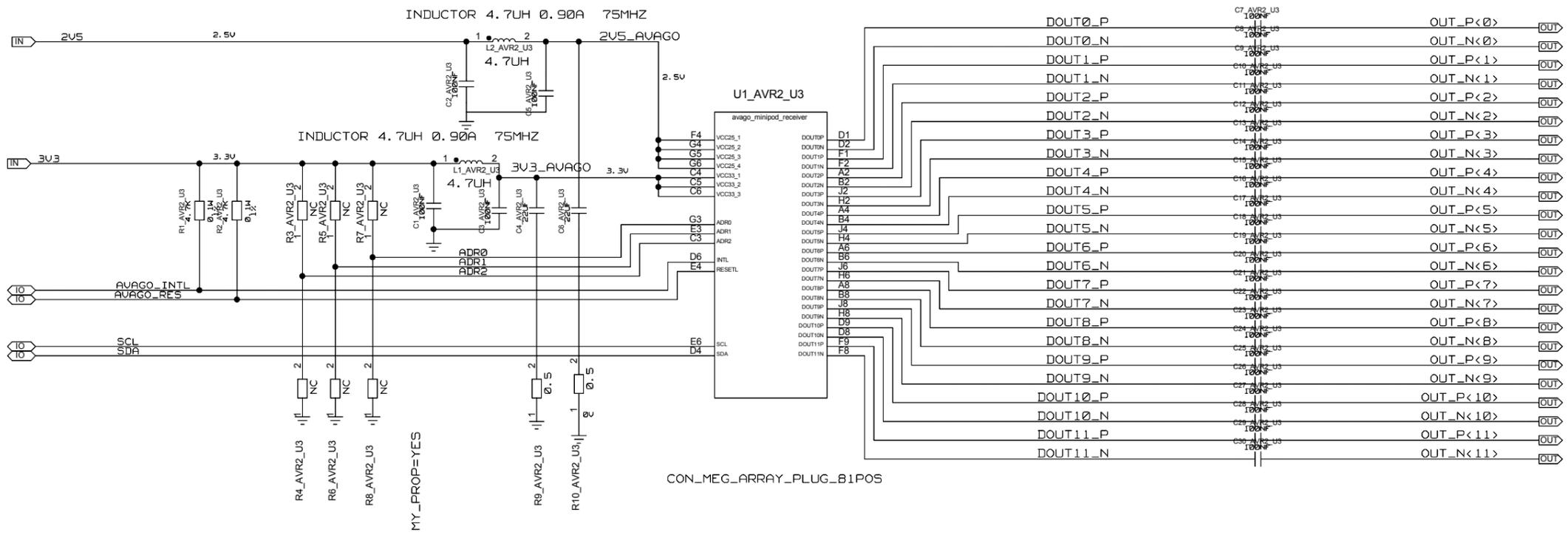
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CHECKED	U. SCHAEFER					
CHECKED	S. RAVE					
DRAWN	BAUSS					
BLOCK TITLE						
UNIVERSITY OF MAINZ				SIZE C	REV.	DRAWING NO.
				SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

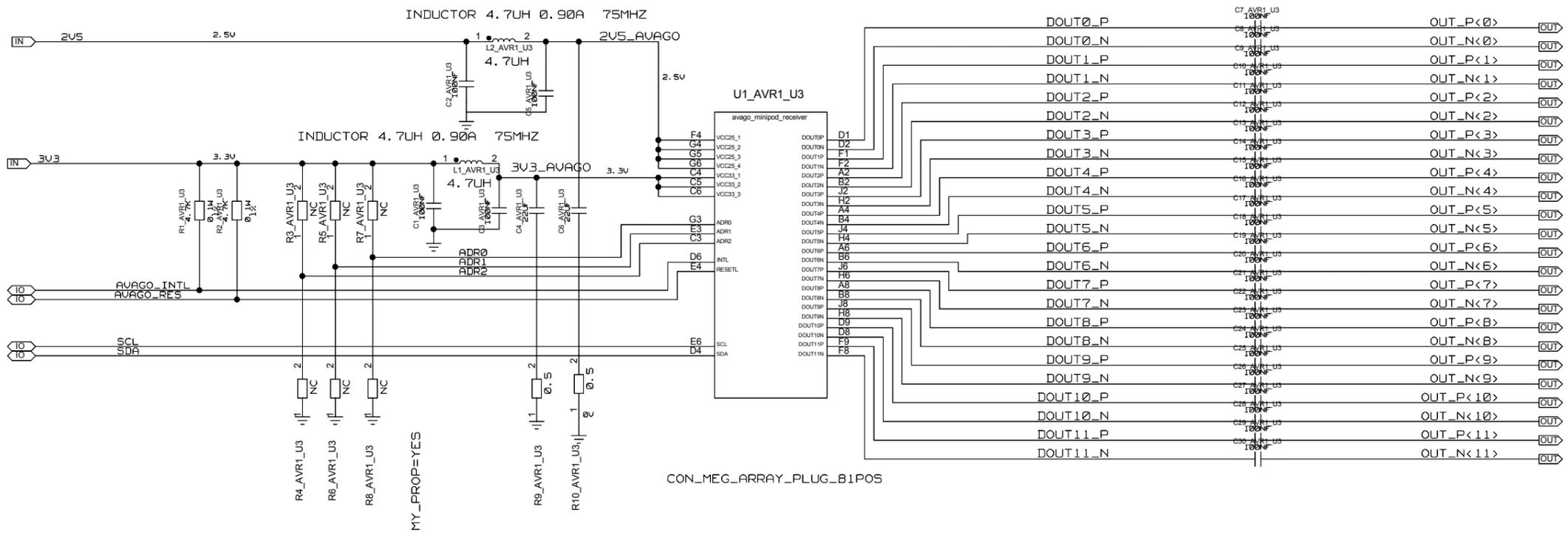
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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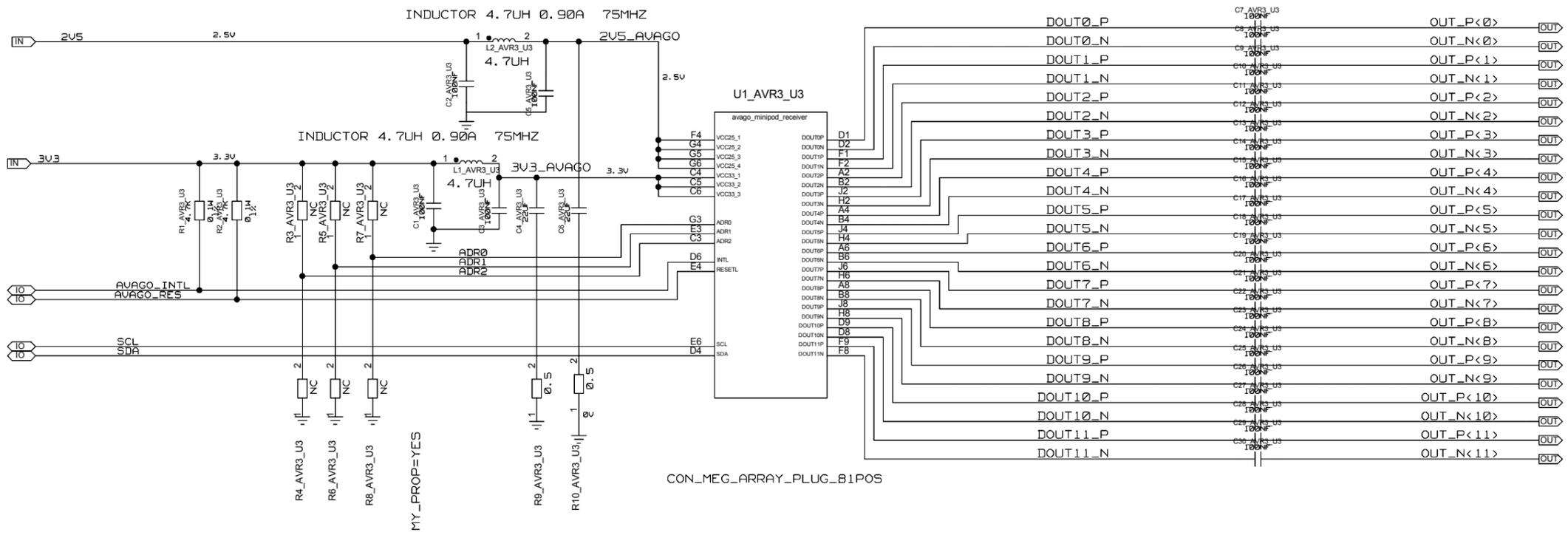
UNIVERSITY OF MAINZ		DRAWING TITLE		
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SIZE	REV.	DRAWING NO.		
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SCALE			SHEET OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



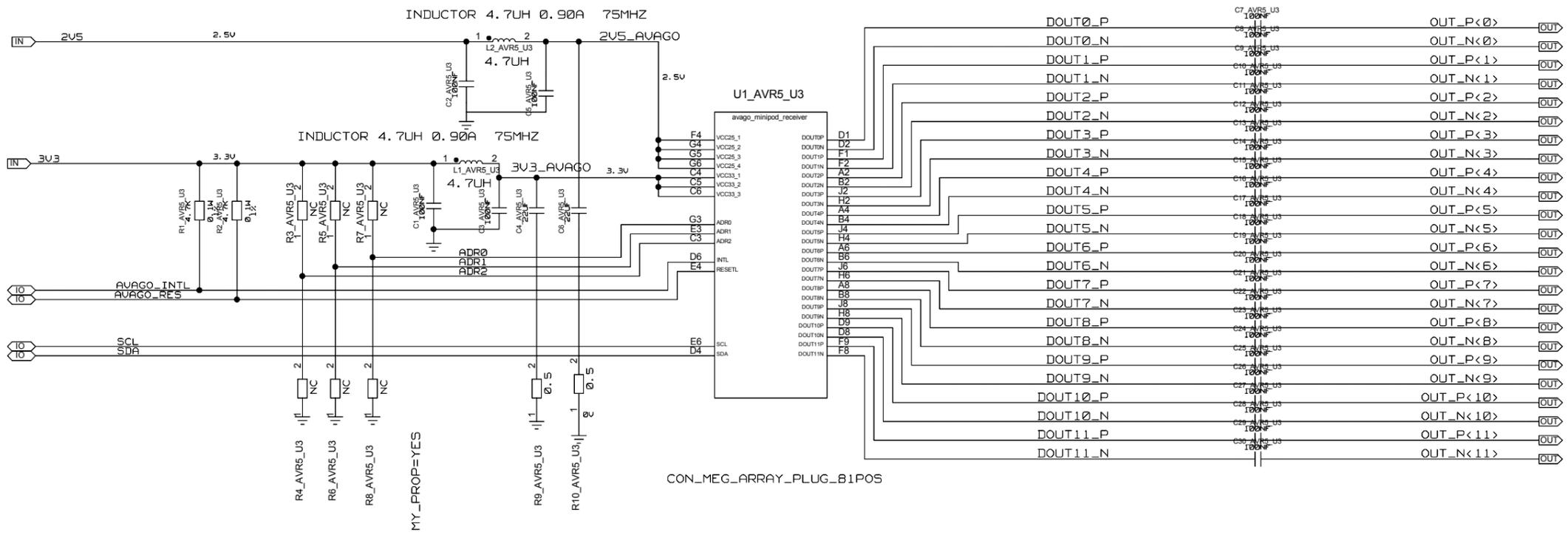
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SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



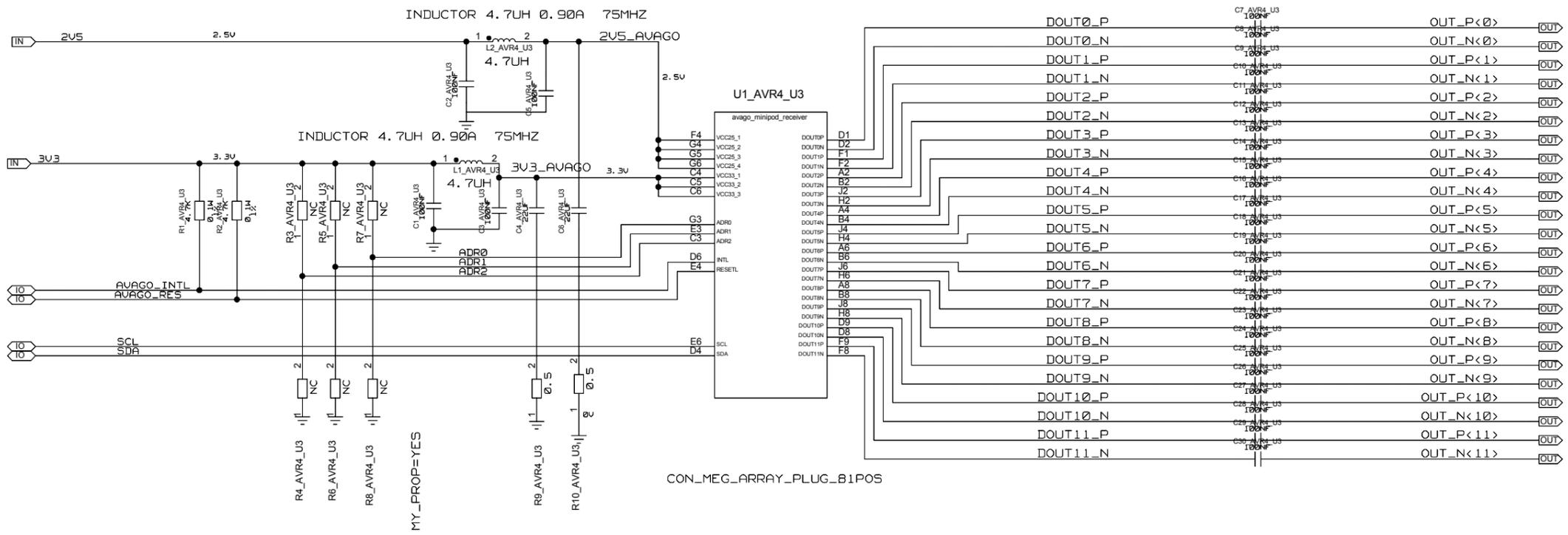
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SIZE	REV.	DRAWING NO.	
C			
SCALE			SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



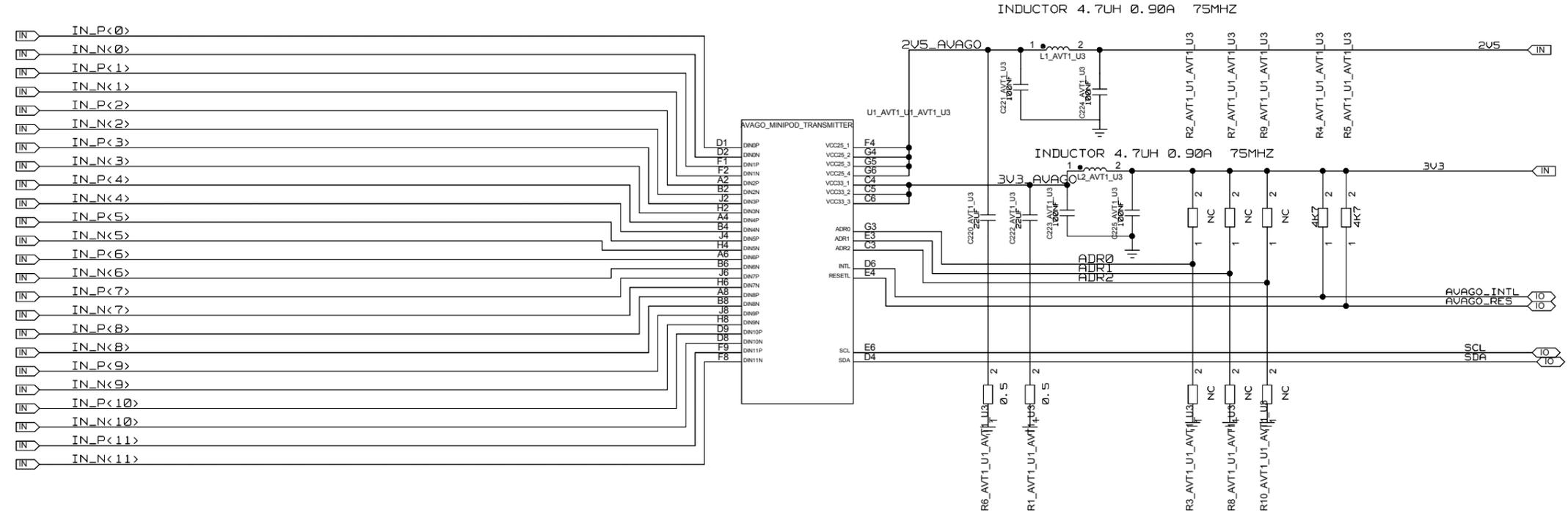
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		AVAGO RECEIVER	
SIZE C	REV.	DRAWING NO.	
SCALE		SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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		AVAGO RECEIVER	
SIZE C	REV.	DRAWING NO.	
SCALE			SHEET OF

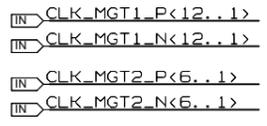
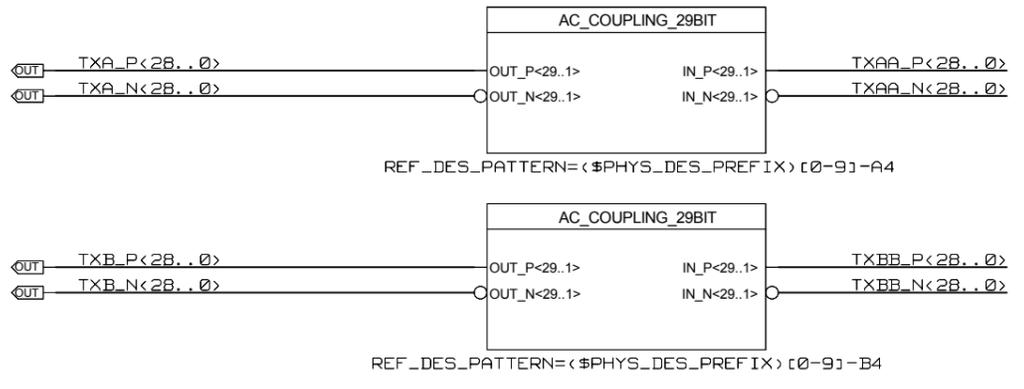
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

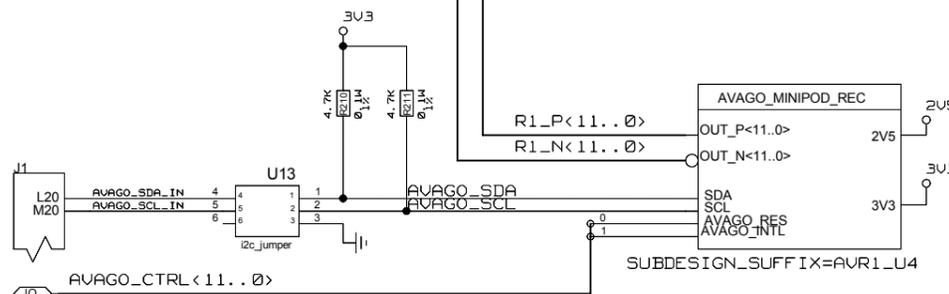
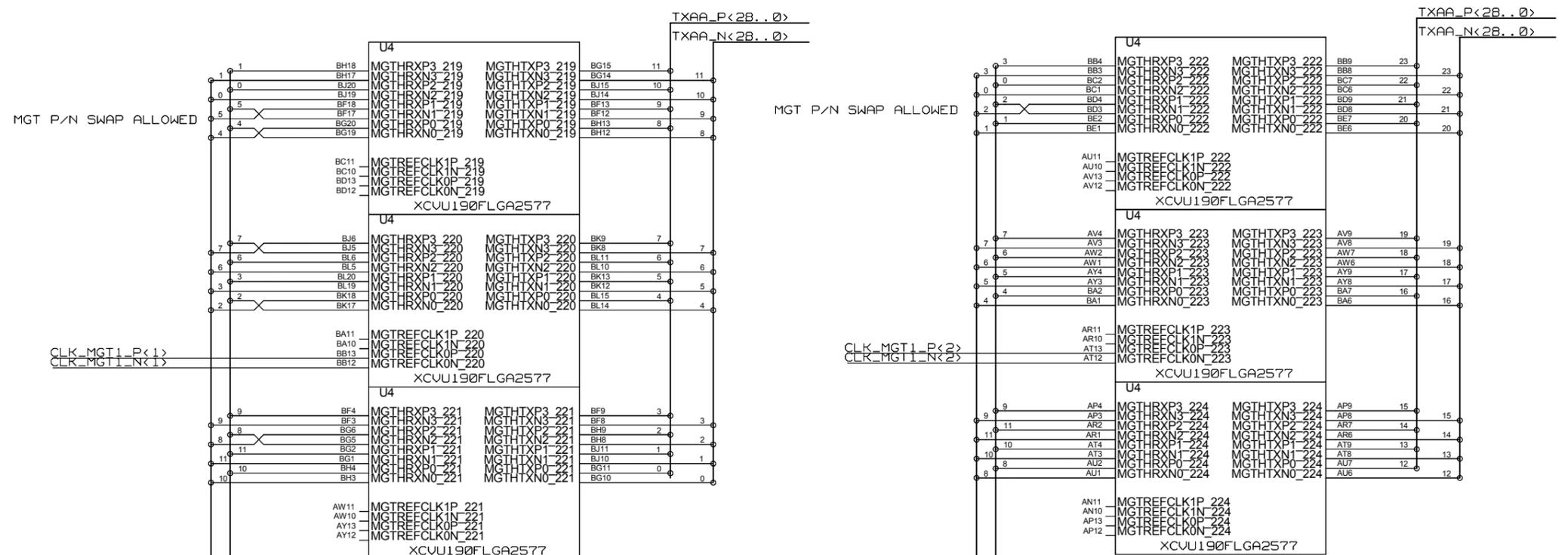
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

AC COUPLING



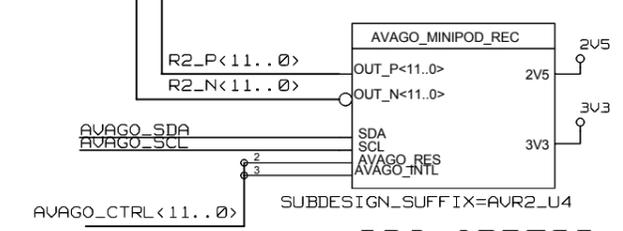
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CHECKED	J. V. DE SOUZA			I/O + AC COUPLING	
CHECKED	U. SCHAEFER				
CHECKED	S. RAVE				
DRAWN	BAUSS	07.08.2015			
BLOCK TITLE					
U4_MGT_REAL_TIME					
UNIVERSITY OF MAINZ				SIZE	
				C	
				REV.	
				DRAWING NO.	
				SCALE	
				SHEET 1 of 7	

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

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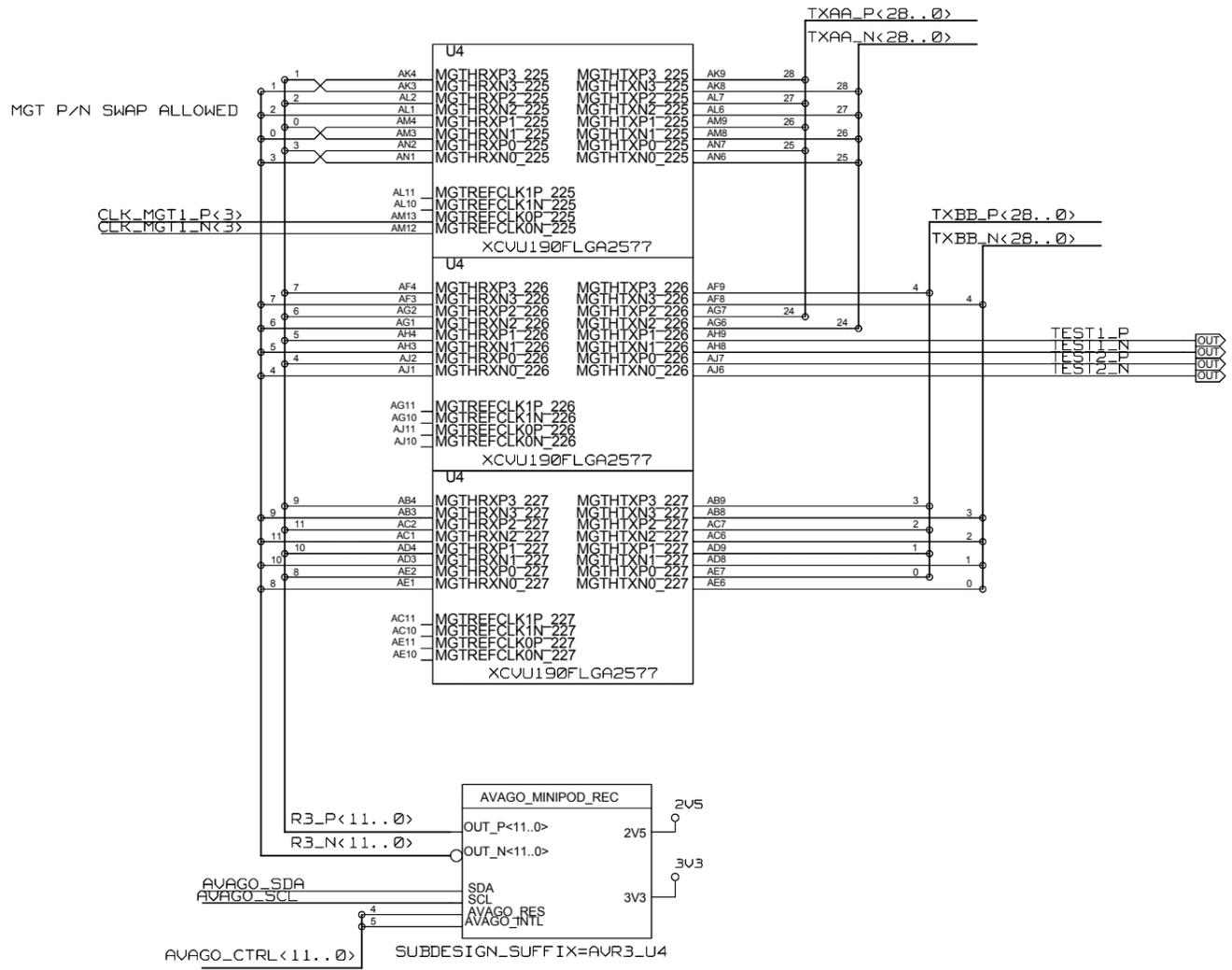


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NAME	DATE	SIGN	DRAWING TITLE
CHECKED J. V. DE SOUZA			AVAGO TXA
CHECKED U. SCHAEFER			
CHECKED S. RAVE			
DRAWN BAUSS	07.08.2015		
BLOCK TITLE			SIZE
U4_MGT_REAL_TIME			REV.
UNIVERSITY OF MAINZ			DRAWING NO.
SCALE			SHEET 2 OF 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

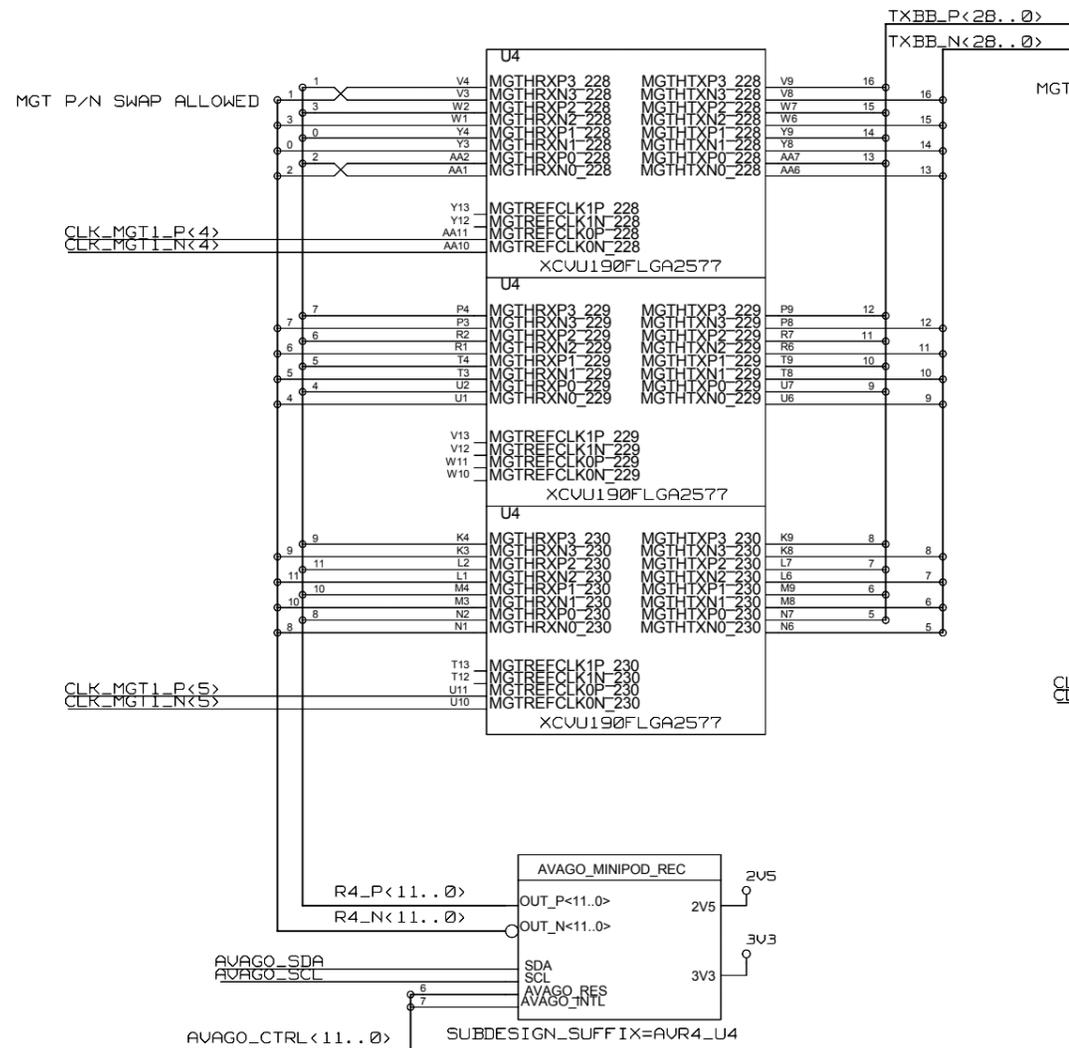


I2C ADDRESS:
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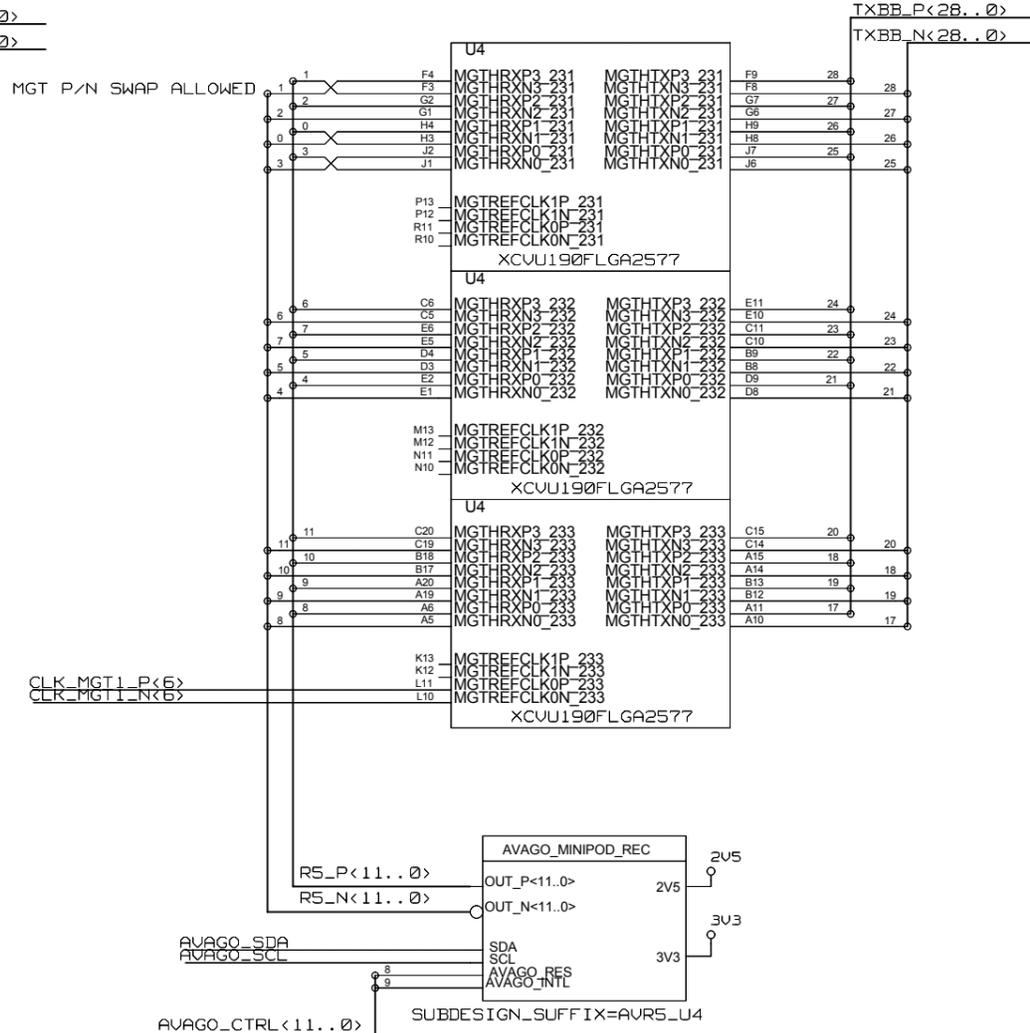
BANK
225
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CHECKED	NAME	DATE	SIGN	DRAWING TITLE AVAGO TXA + TXB	
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CHECKED	U. SCHAEFER				
CHECKED	S. RAVE				
DRAWN	BAUSS	07.08.2015			
BLOCK TITLE U4_MGT_REAL_TIME				SIZE C	DRAWING NO.
UNIVERSITY OF MAINZ				SCALE	SHEET 3 of 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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R5=XXX R6=XXX
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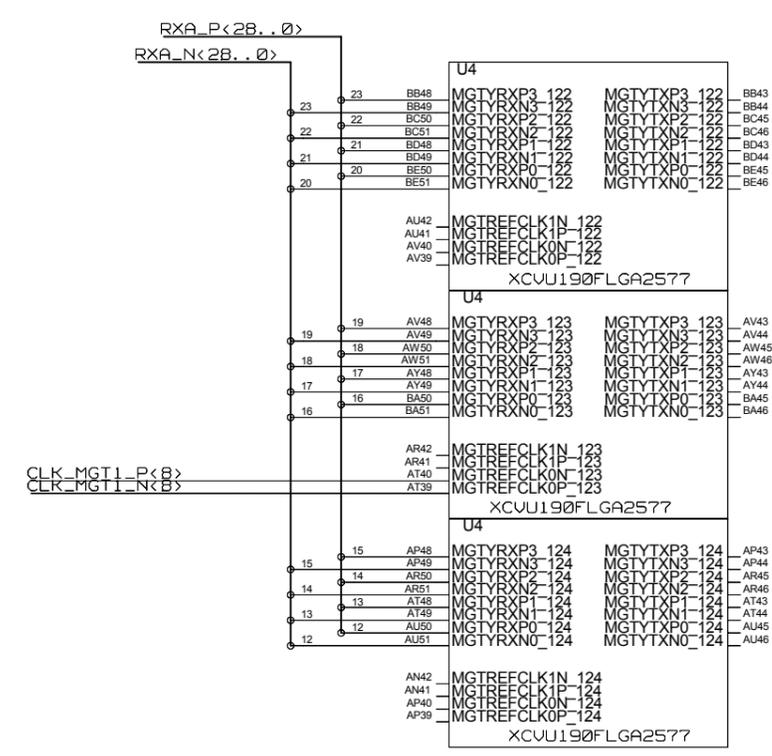
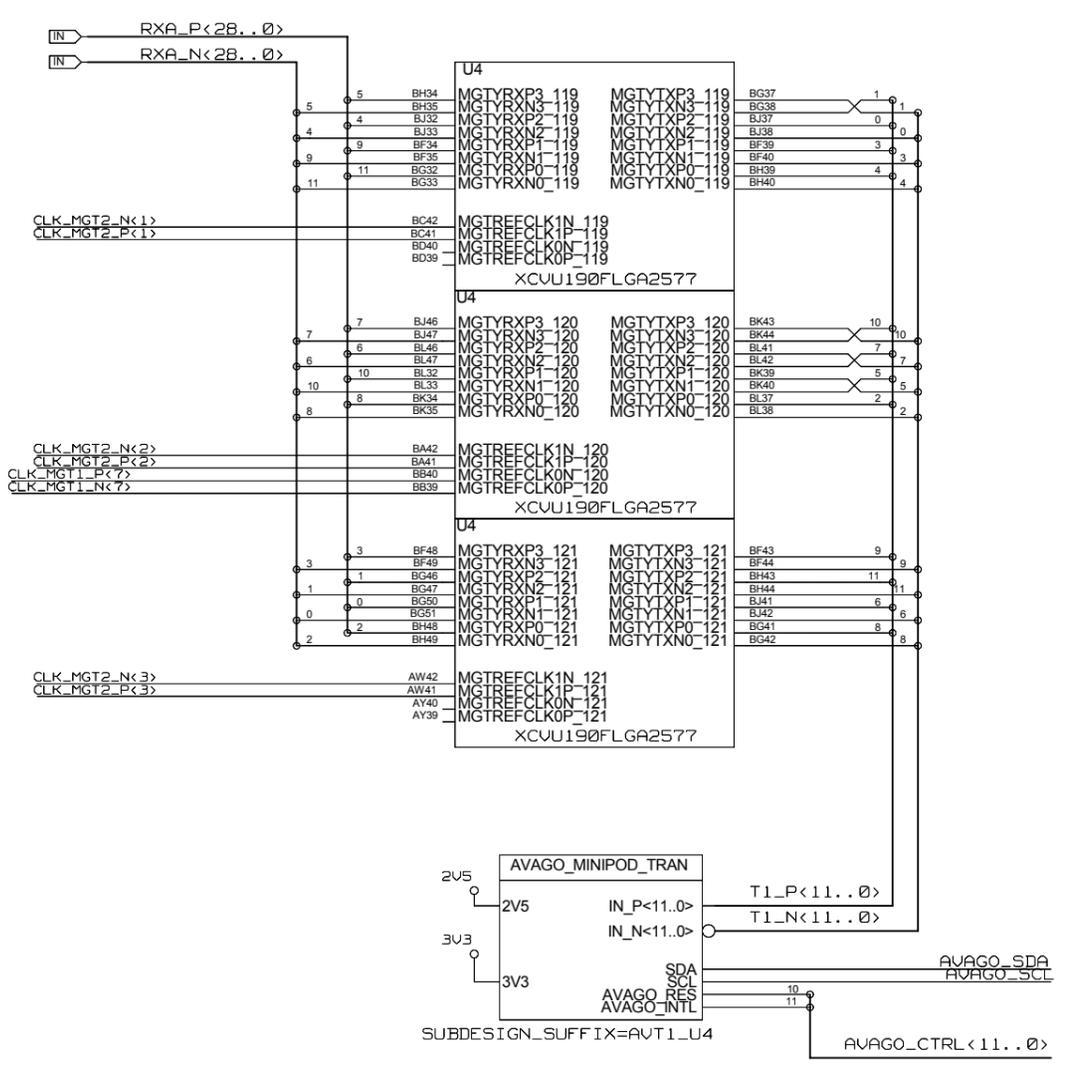


I2C ADDRESS:
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CHECKED	NAME	DATE	SIGN	DRAWING TITLE AVAGO TXB
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CHECKED	U. SCHAEFER			
CHECKED	S. RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U4_MGT_REAL_TIME				SIZE C
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
				SHEET 4 of 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

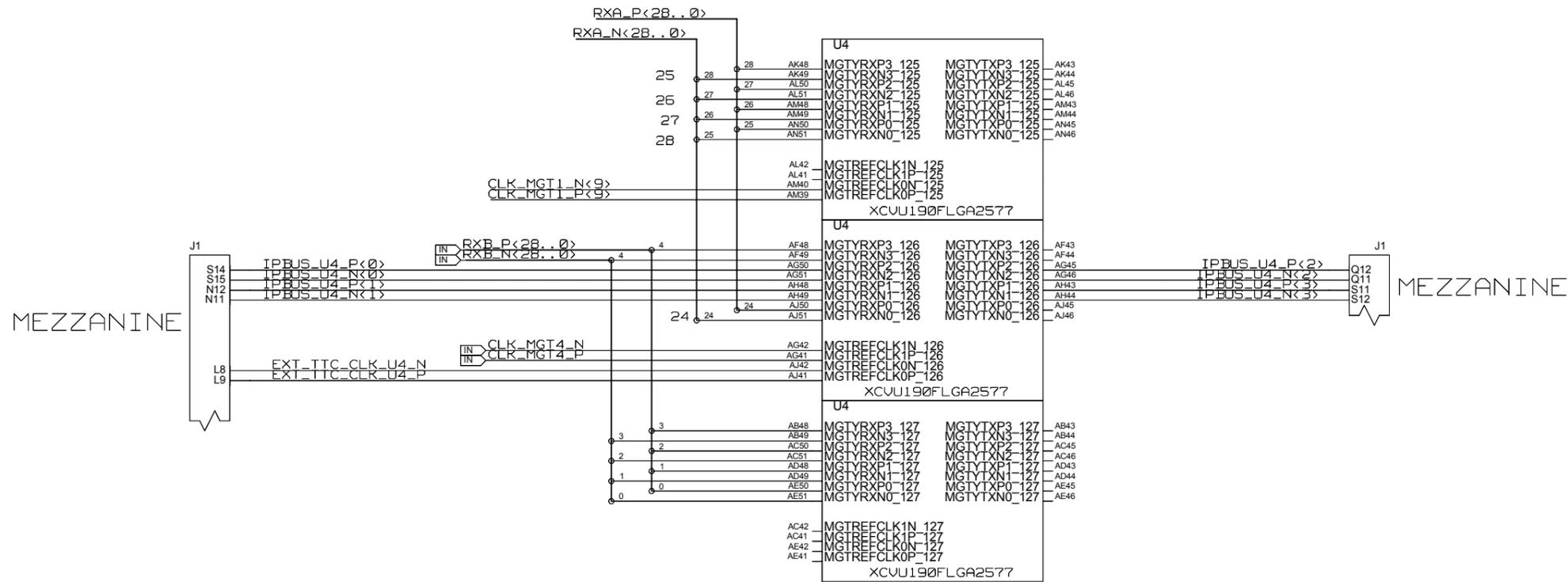


I2C ADDRESS:
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BANK
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CHECKED	NAME	DATE	SIGN	DRAWING TITLE AVAGO RXA
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CHECKED	U. SCHAEFER			
CHECKED	S. RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE U4_MGT_REAL_TIME				SIZE C
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
SHEET 5 of 7				

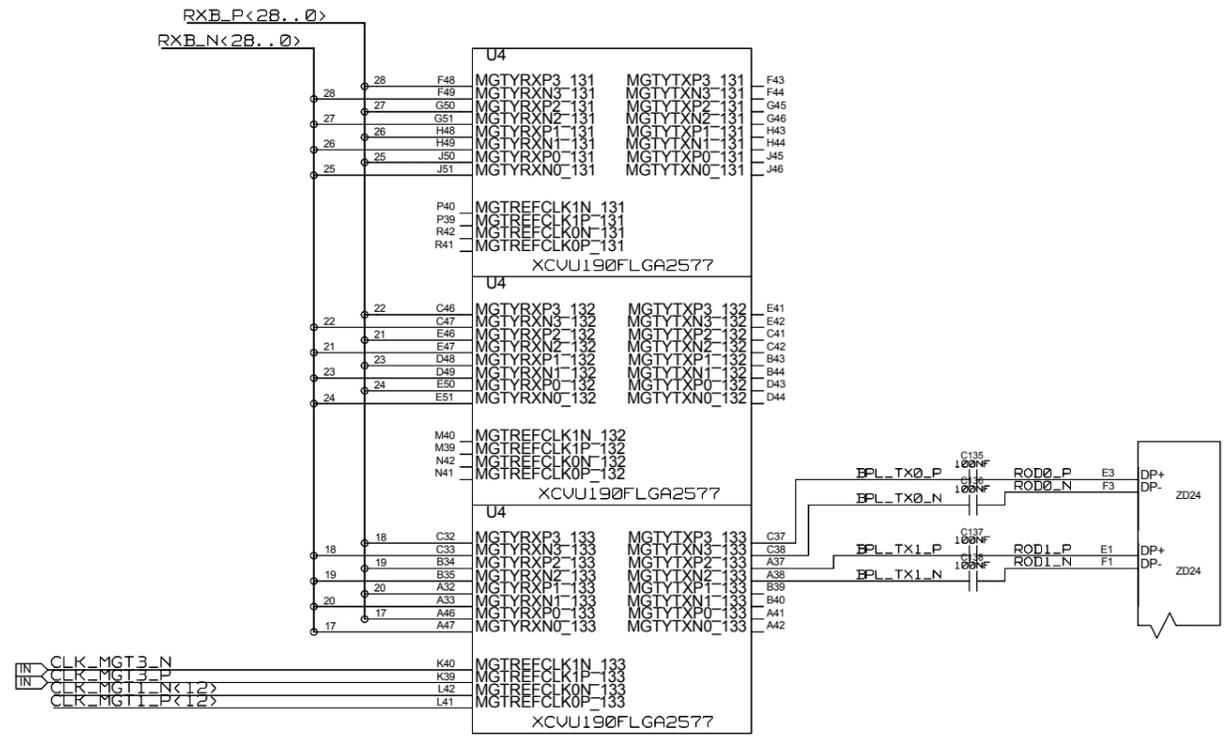
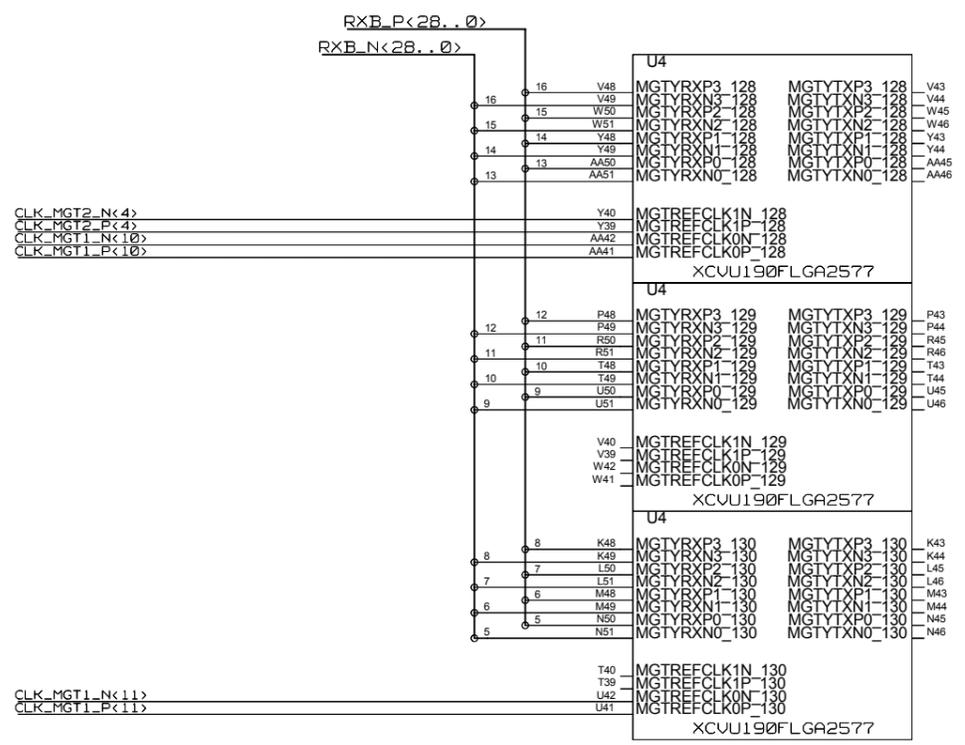
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
125
126
127

CHECKED	J. V. DE SOUZA	DATE	SIGN	DRAWING TITLE RXA + RXB TXD + IPBUS
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 6 OF 7				

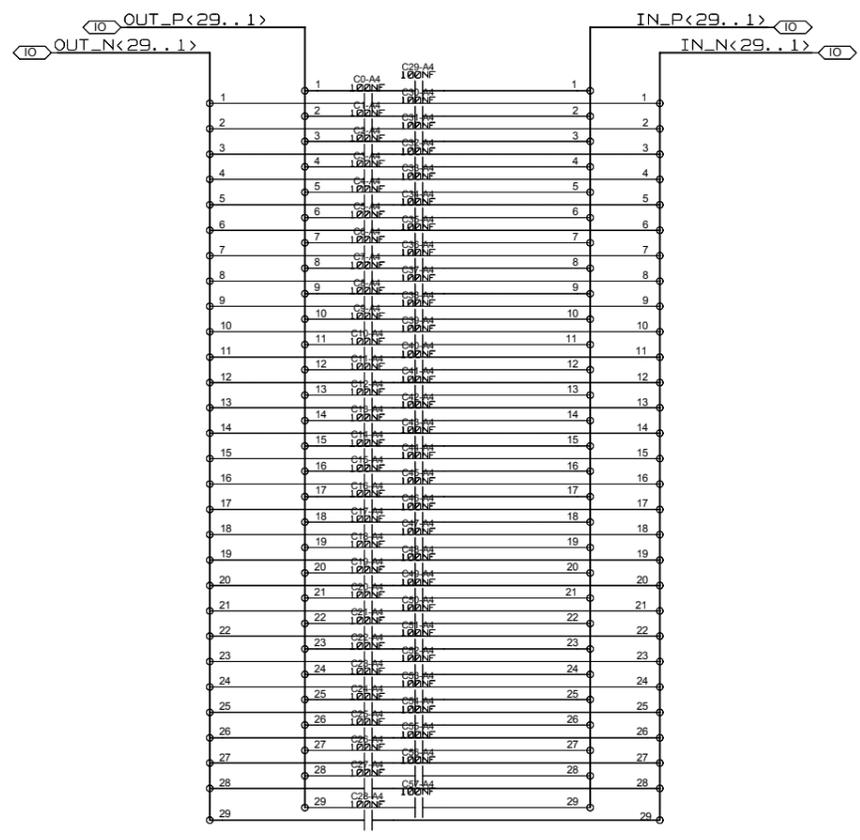
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
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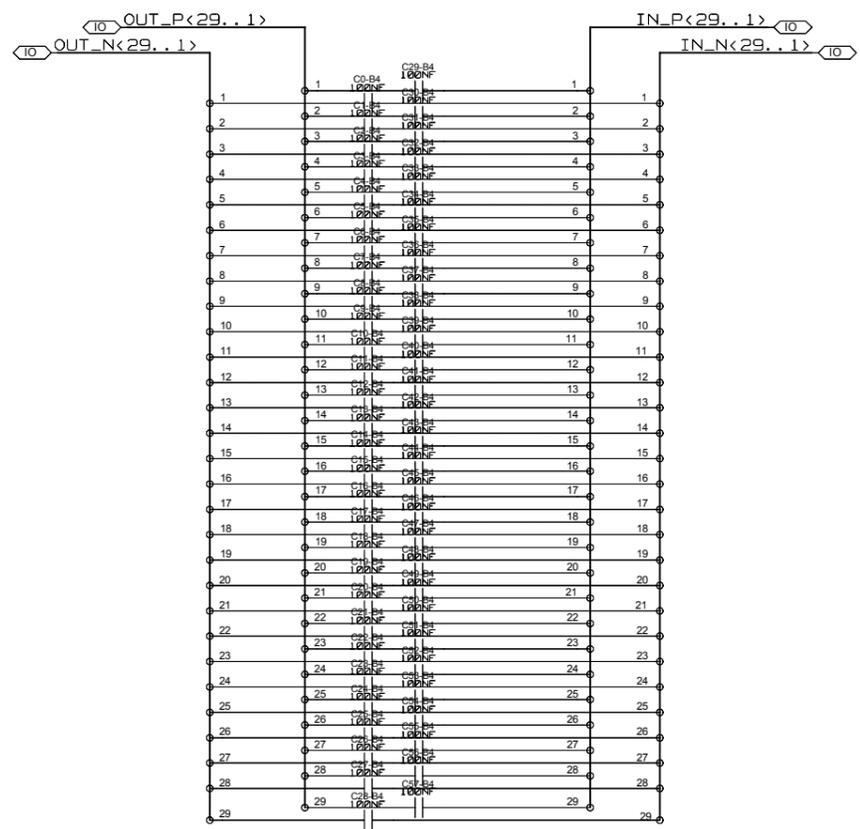
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CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS	07.08.2015			
BLOCK TITLE U4_MGT_REAL_TIME					
UNIVERSITY OF MAINZ				SIZE C	REV.
				SCALE	DRAWING NO.
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



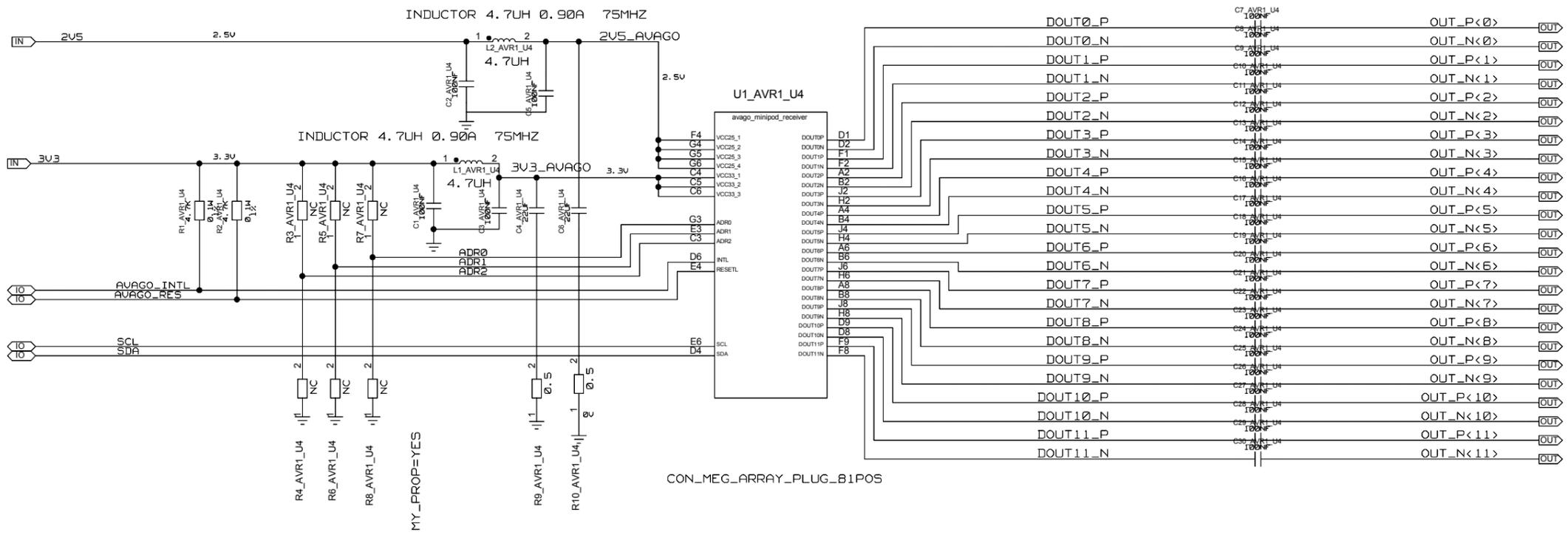
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CHECKED	U. SCHAEFER				
CHECKED	S. RAVE				
DRAWN	BAUSS				
BLOCK TITLE				SIZE	DRAWING NO.
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				SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



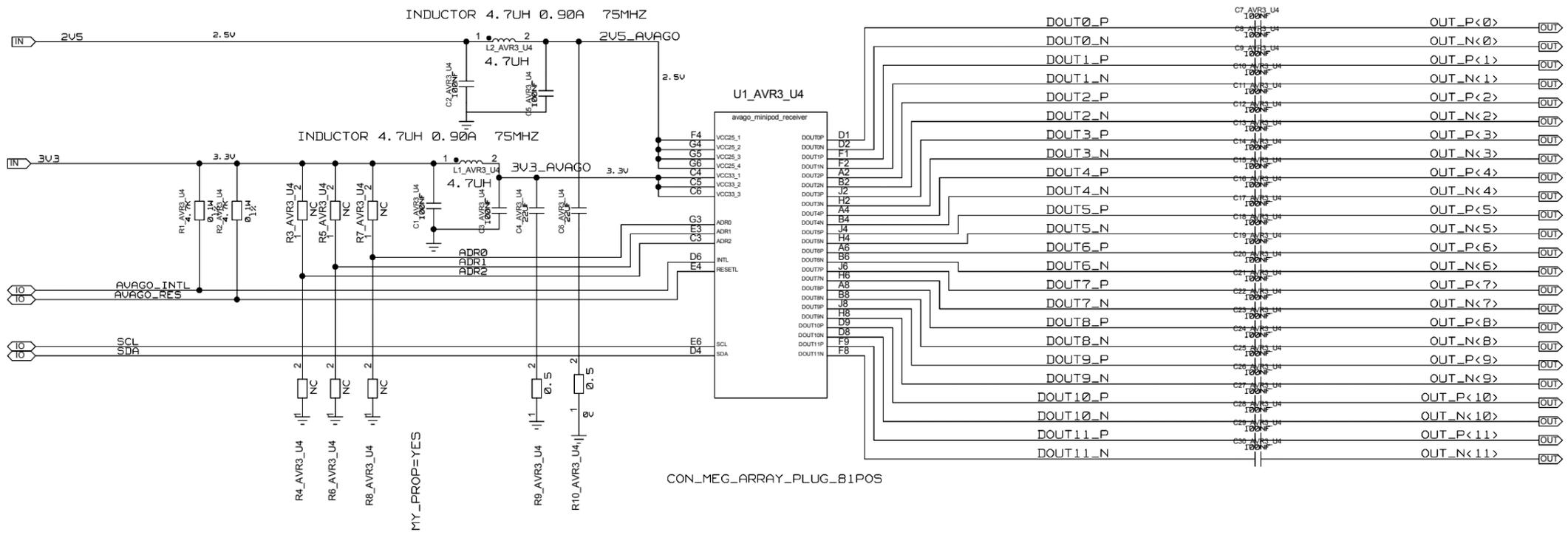
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CHECKED	U. SCHAEFER				
CHECKED	S. RAVE				
DRAWN	BAUSS				
BLOCK TITLE				SIZE	DRAWING NO.
UNIVERSITY OF MAINZ				C	REV.
				SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

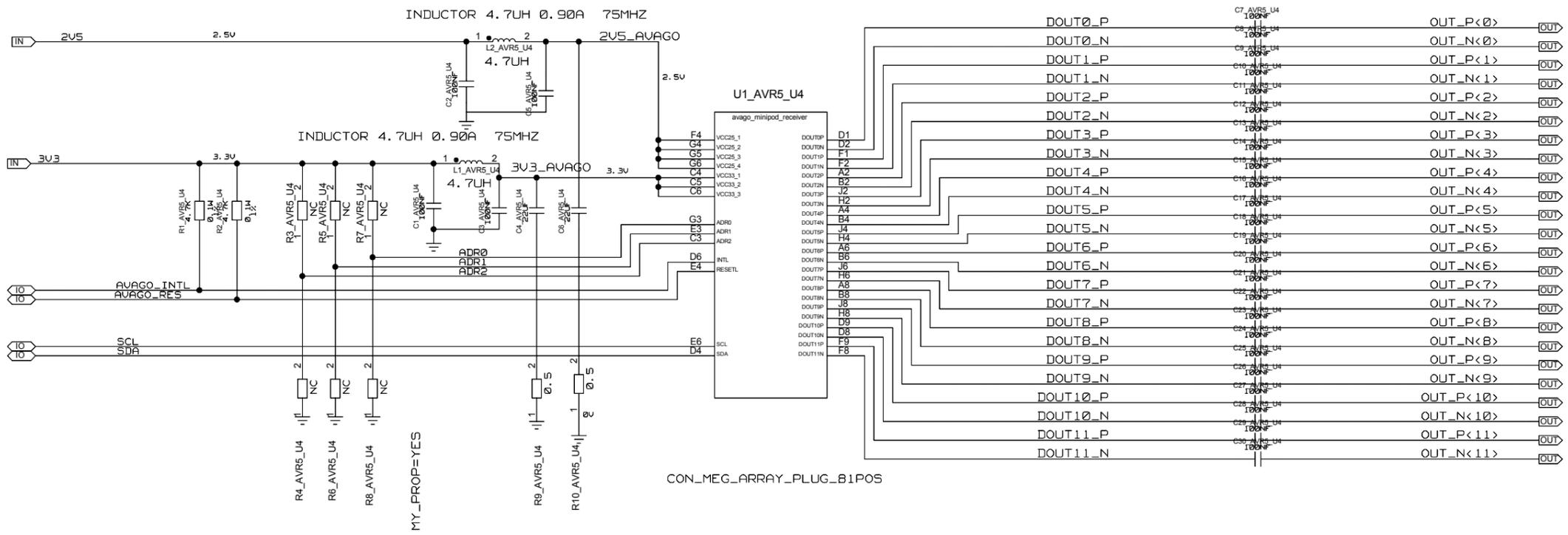


CON_MEG_ARRAY_PLUG_B1POS

MY_PROP=YES

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

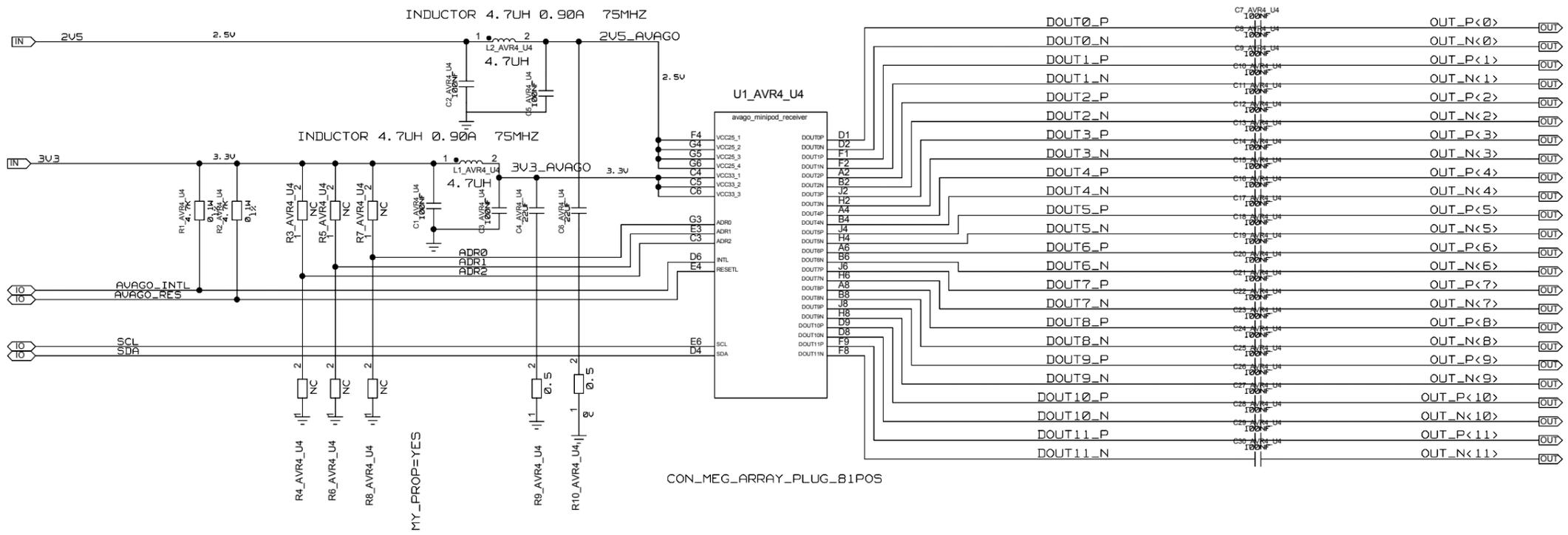
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ZONE	LTR	DESCRIPTION	DATE	APPR.



CON_MEG_ARRAY_PLUG_B1POS

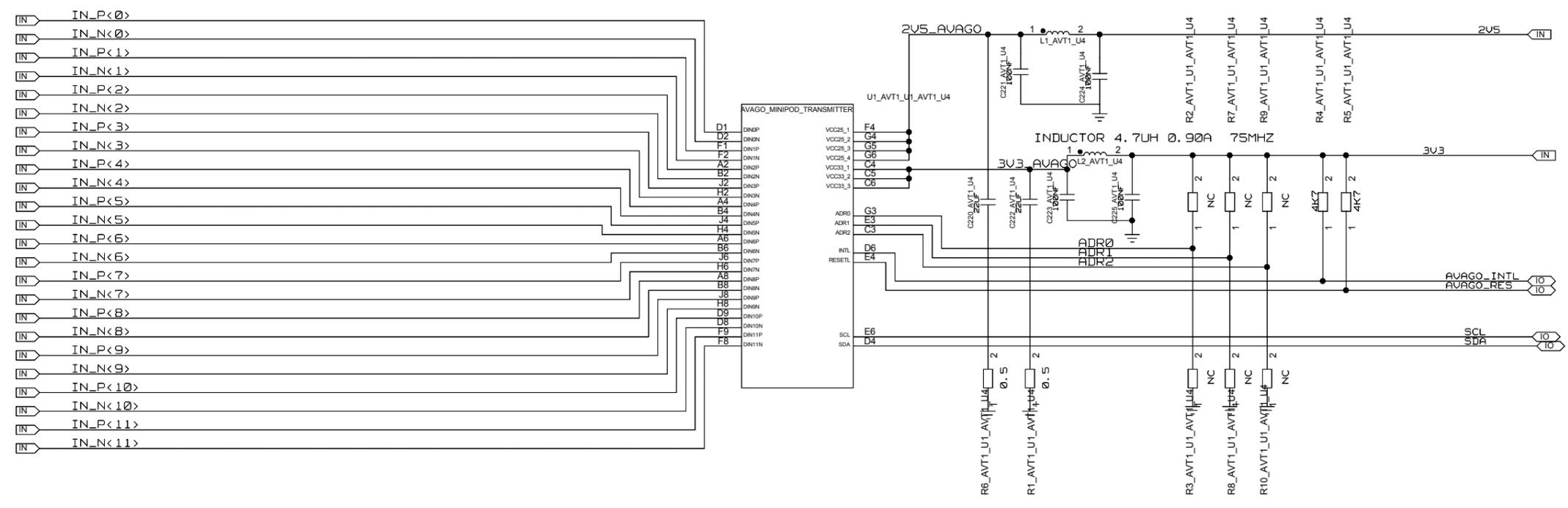
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SIZE C	REV.	DRAWING NO.	
SCALE		SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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SIZE C	REV.	DRAWING NO.	
SCALE		SHEET	OF

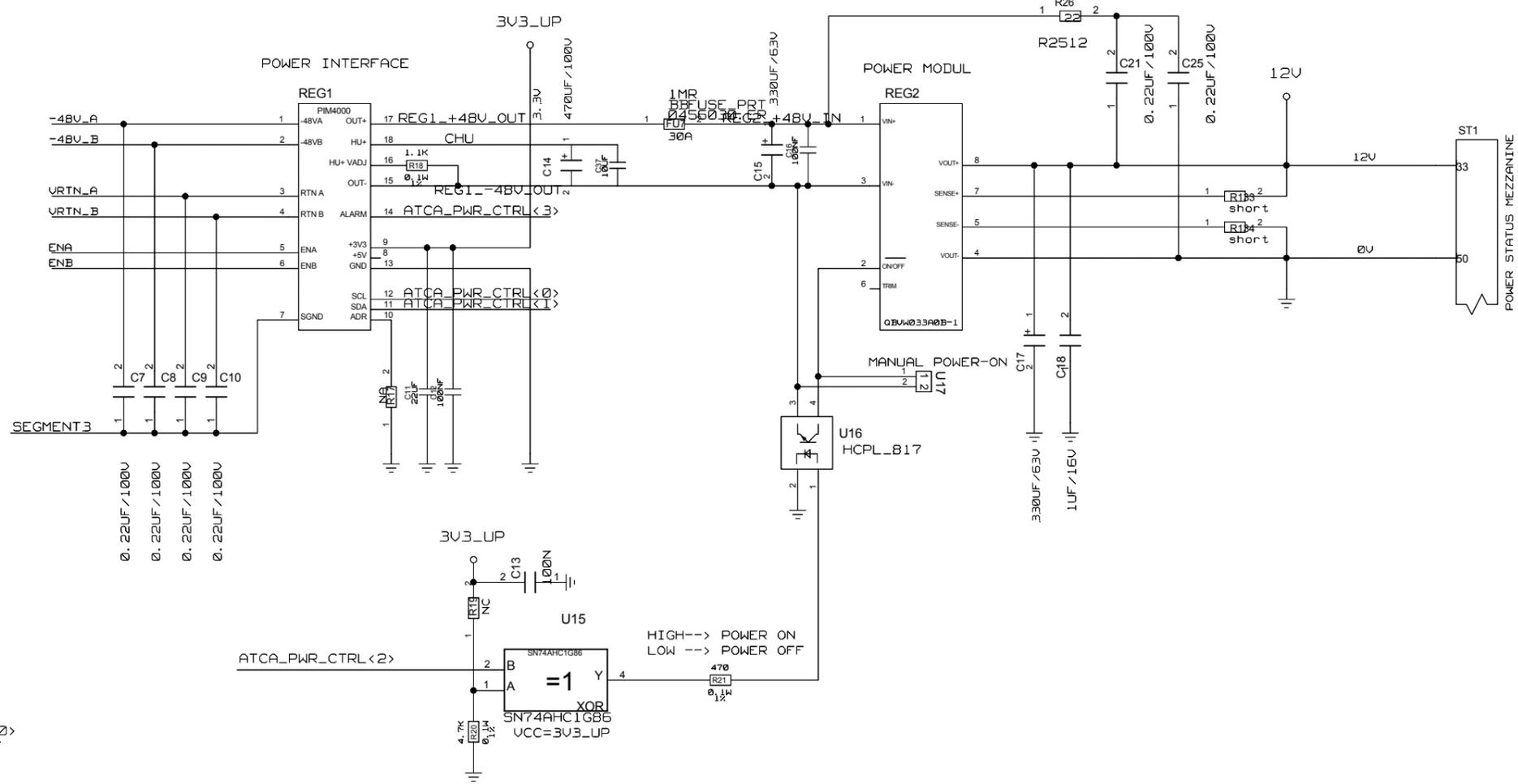
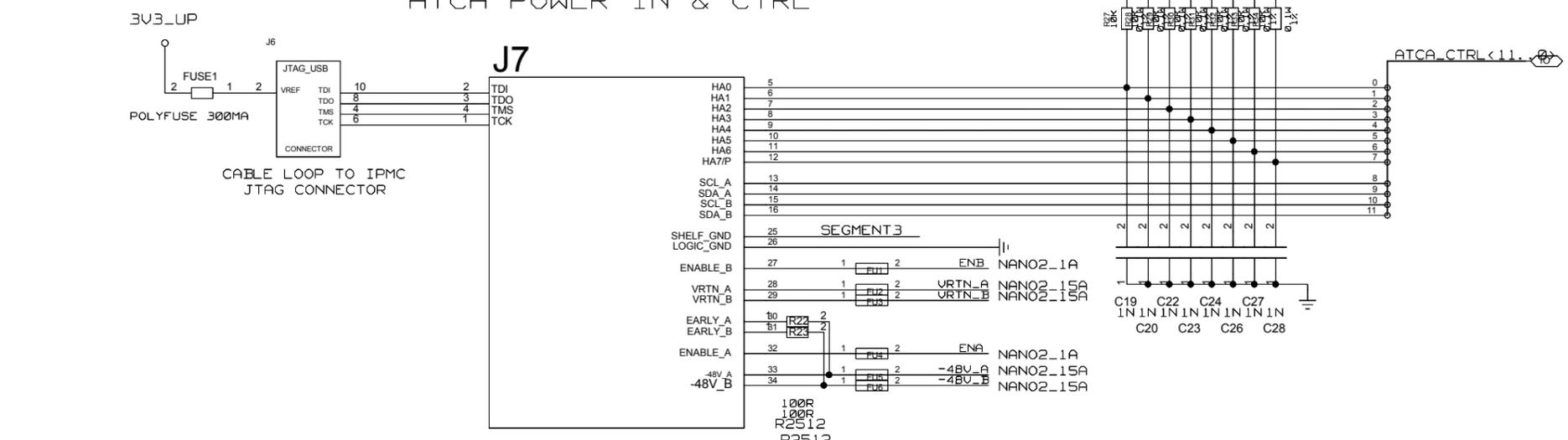
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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SIZE	REV.	DRAWING NO.	
C			
SCALE			SHEET OF

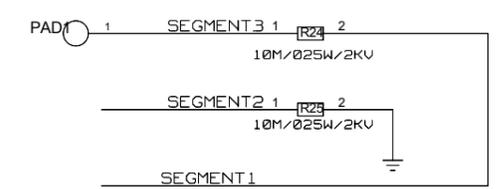
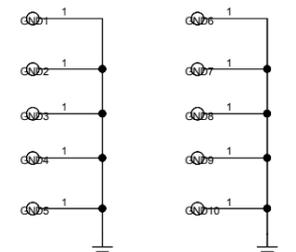
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

ATCA POWER IN & CTRL



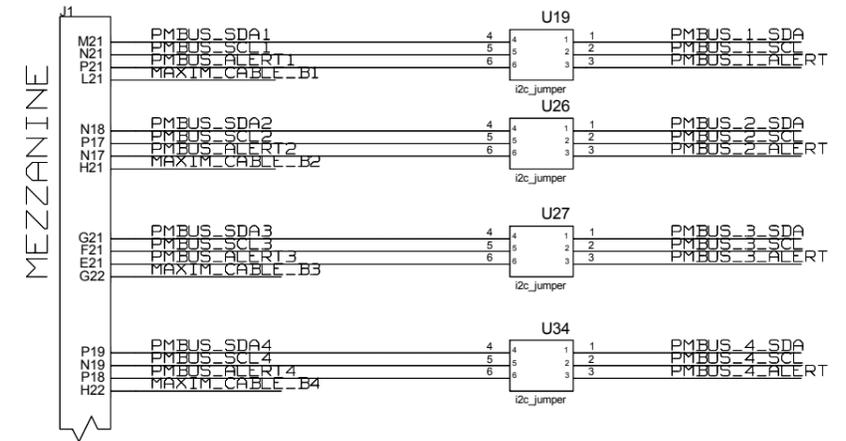
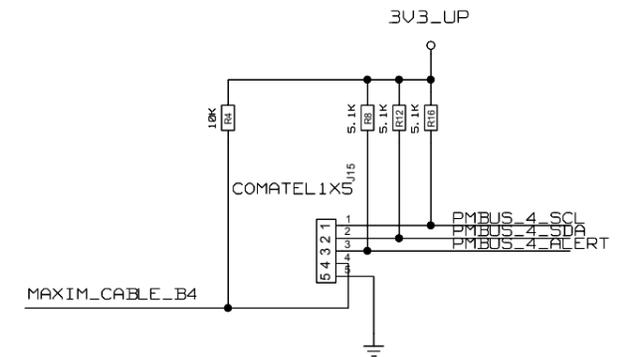
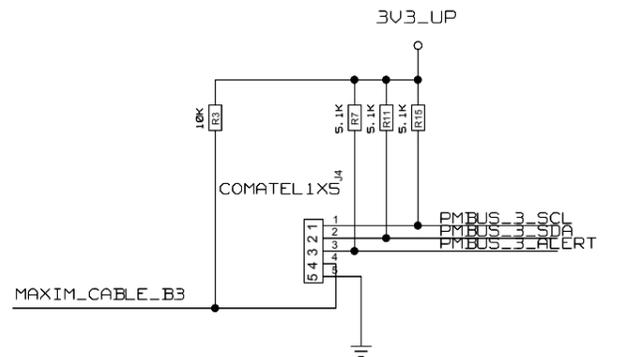
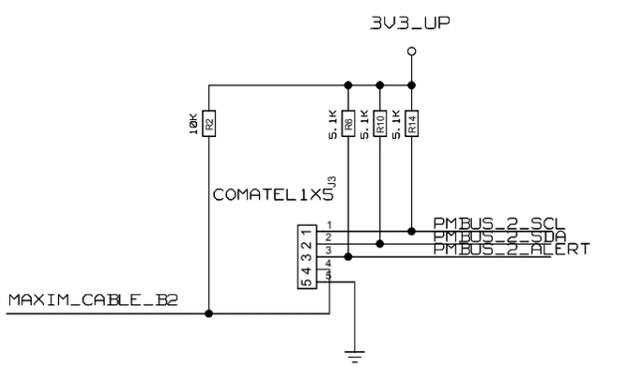
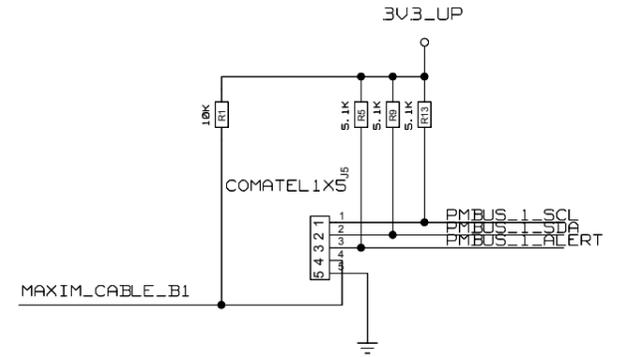
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ATCA_PWR_CTRL < 0 > = SCL
 ATCA_PWR_CTRL < 1 > = I2C
 ATCA_PWR_CTRL < 2 > = DD_LARM_B
 ATCA_PWR_CTRL < 3 > = DD_LARM_B
 ATCA_PWR_CTRL < 4 > = DD_LARM_B



NAME	DATE	SIGN	DRAWING TITLE	
CHECKED	J. V. DE SOUZA		ATCA POWER_IN	
CHECKED	U. SCHAEFER			
CHECKED	S. RAVE			
DRAWN	BAUSS	03. 11. 2015		
BLOCK TITLE			DRAWING NO.	
POWERSUPPLY			SIZE	REV.
UNIVERSITY OF MAINZ			C	
SCALE			SHEET OF	

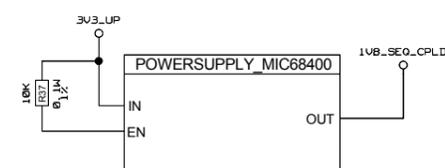
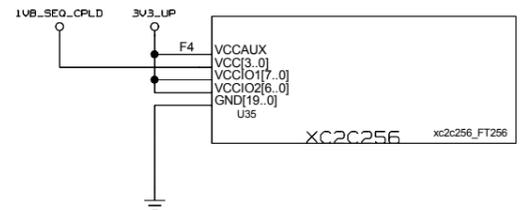
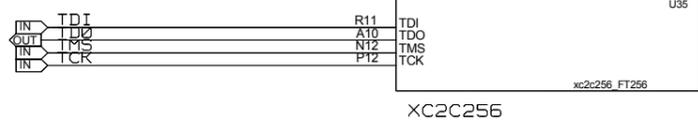
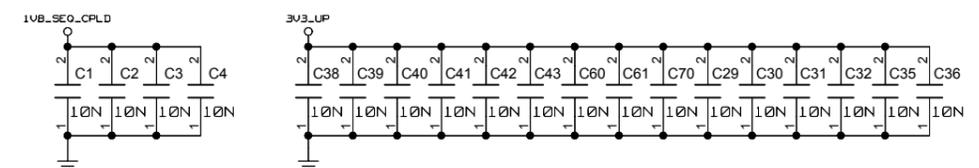
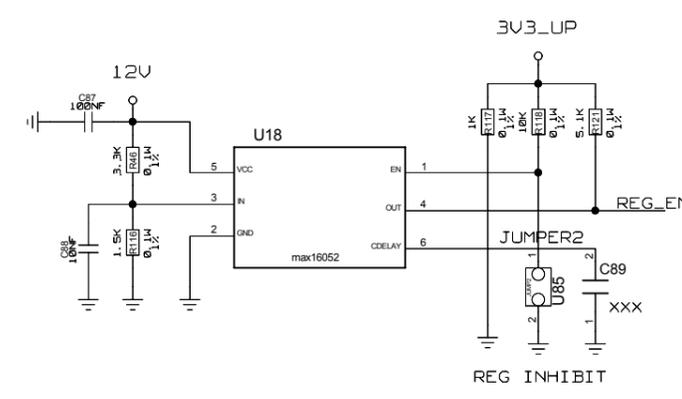
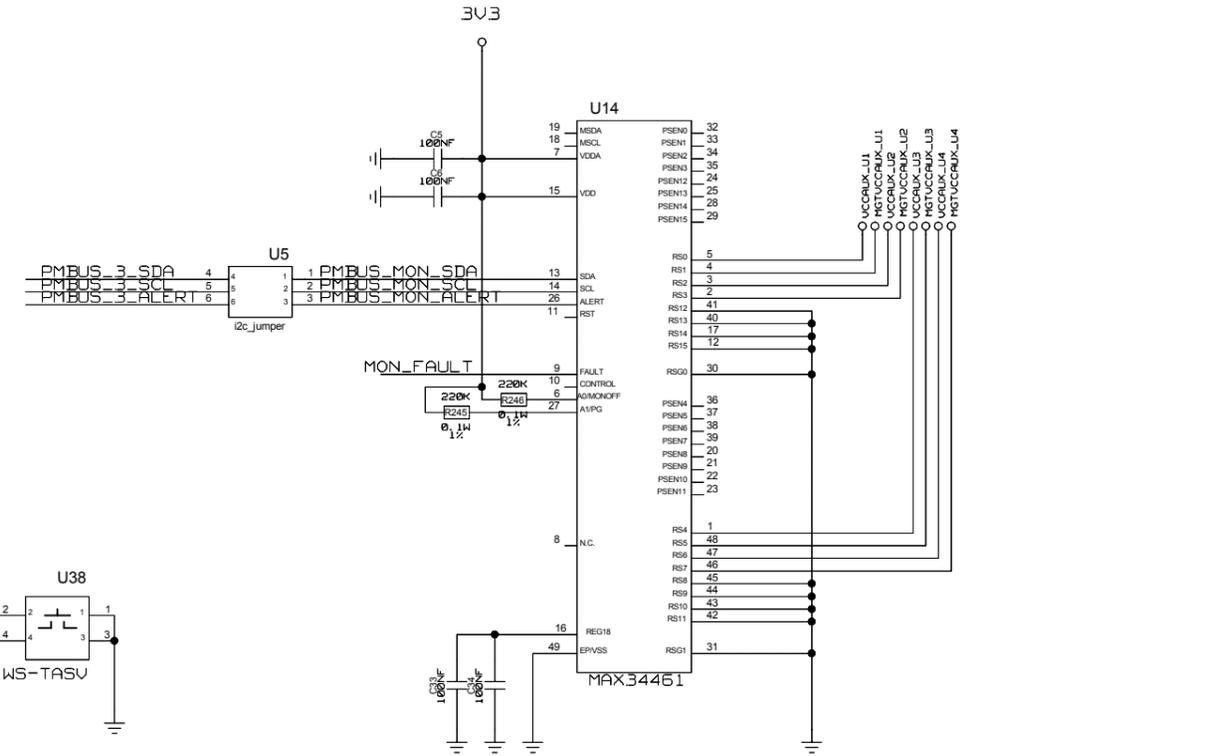
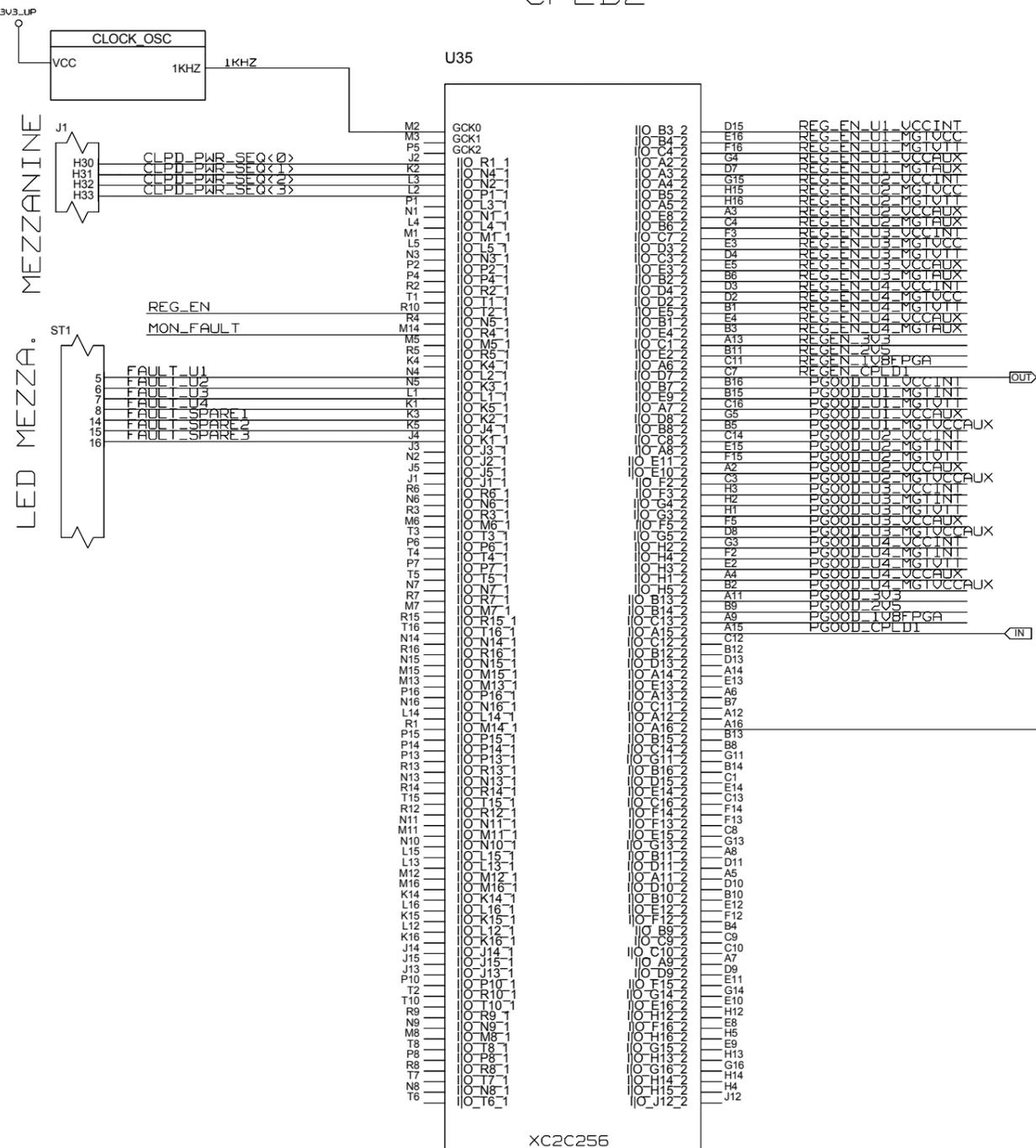
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

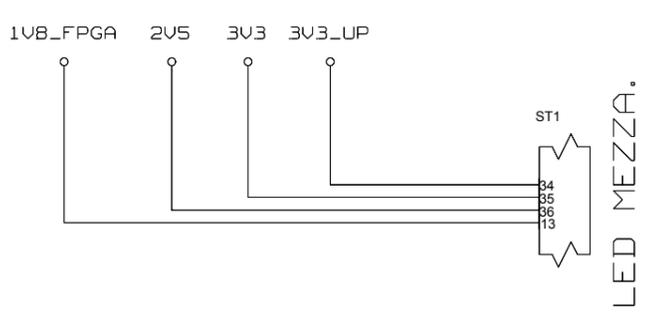
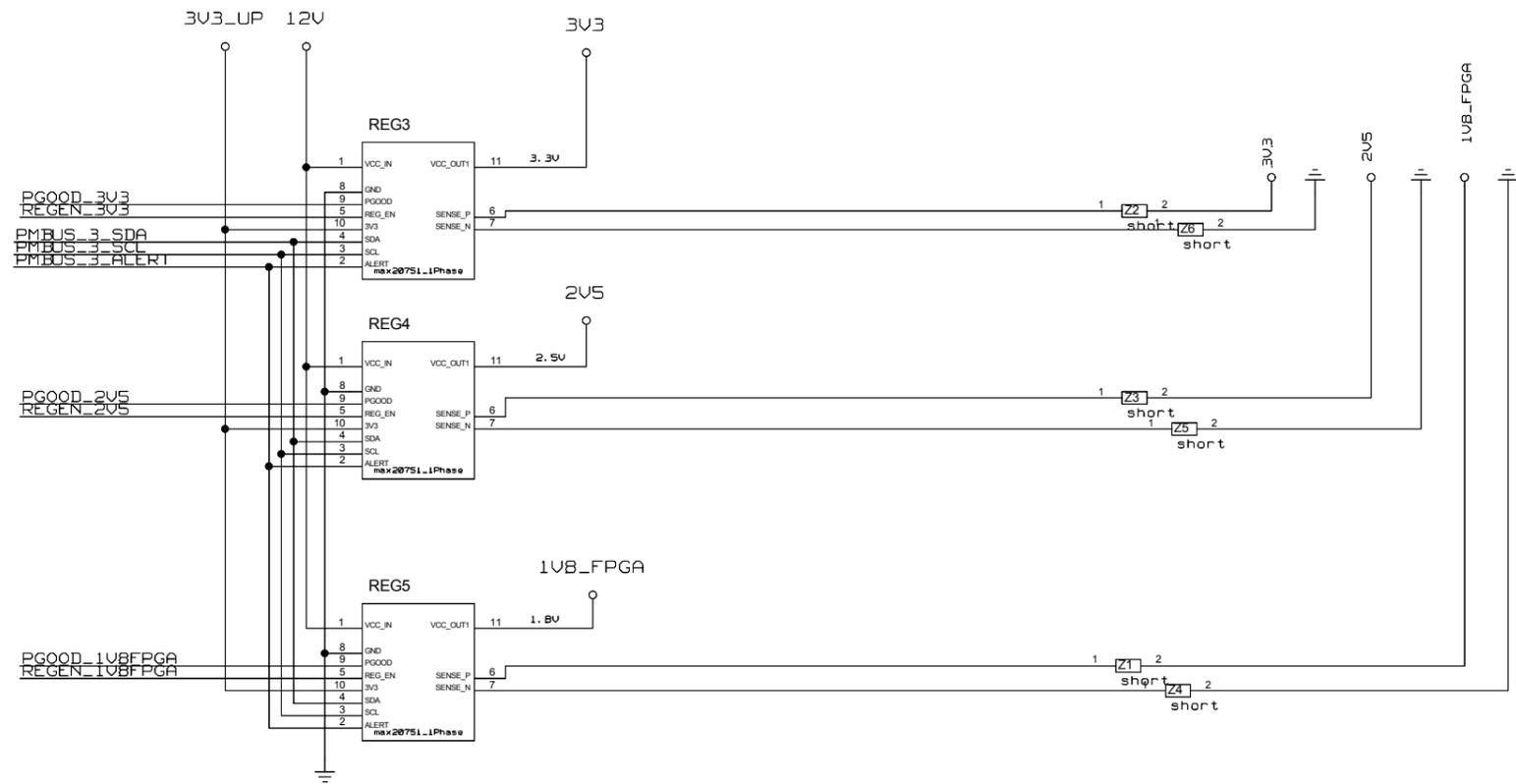
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

CPLD2



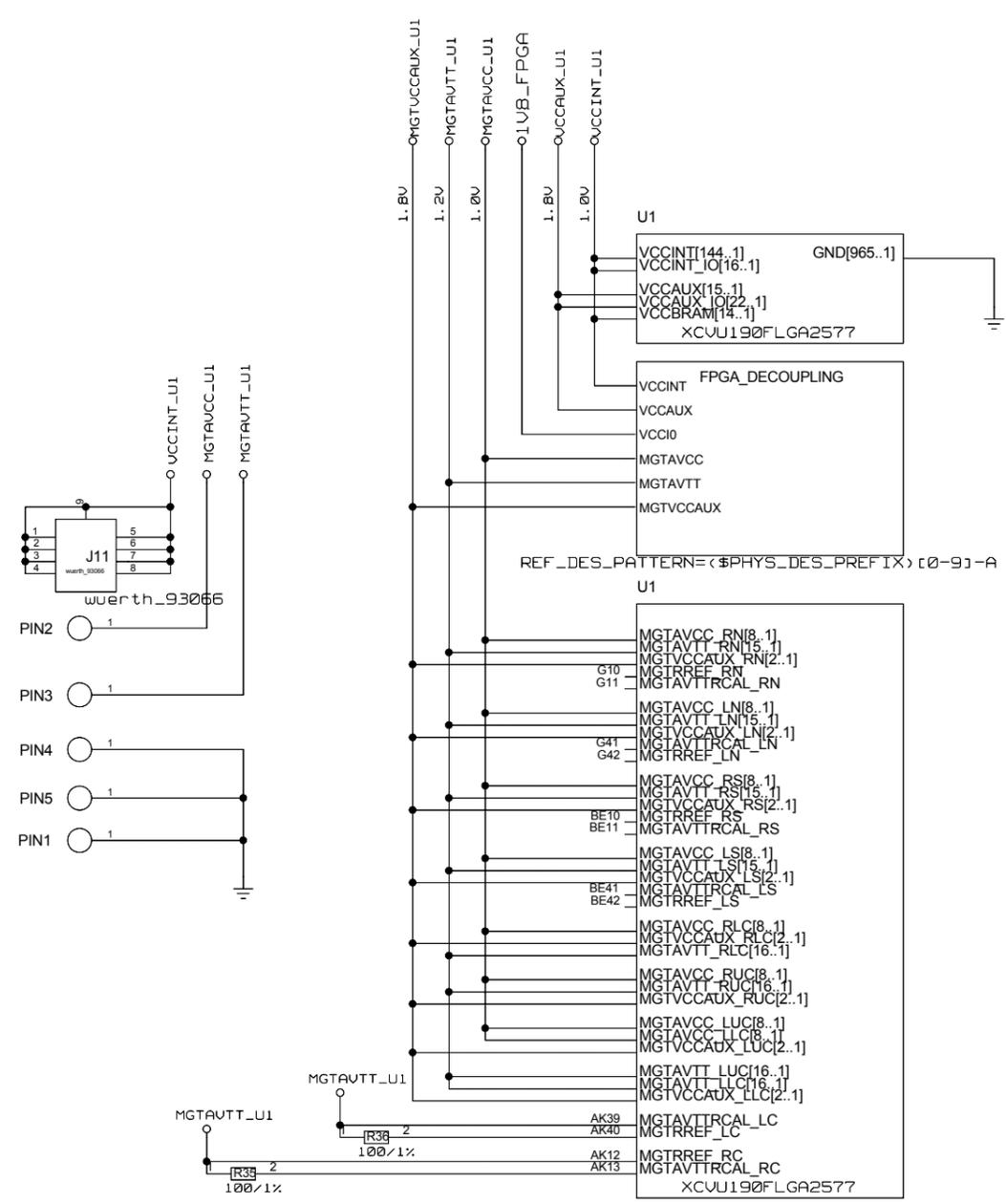
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CHECKED	U. SCHAEFER		VOLTAGE MONITORING	
CHECKED	S. RAVE			
DRAWN	BAUSS			
BLOCK TITLE			POWER SUPPLY	
UNIVERSITY OF MAINZ			SIZE	DRAWING NO.
			C	
			SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

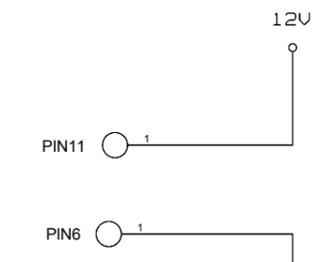
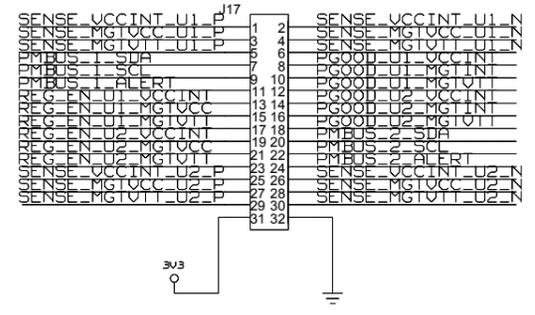
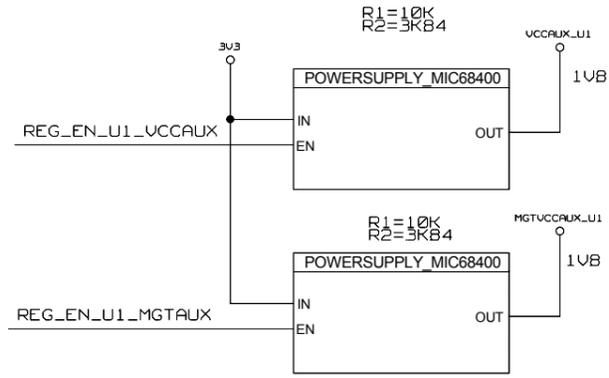
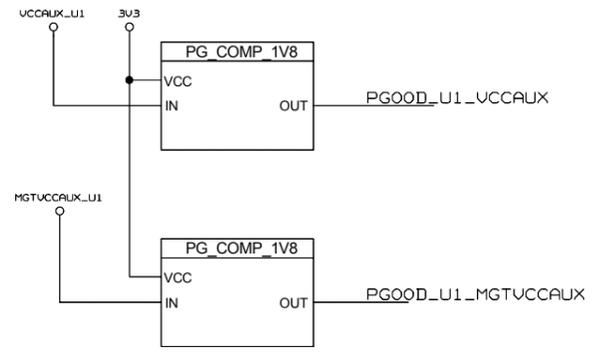
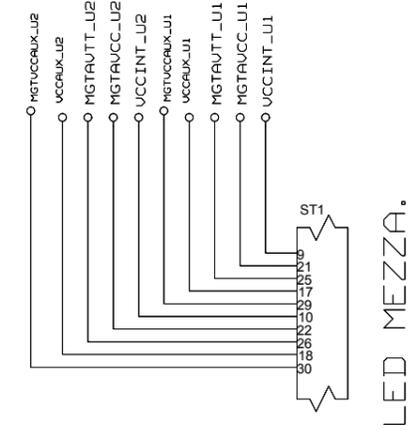
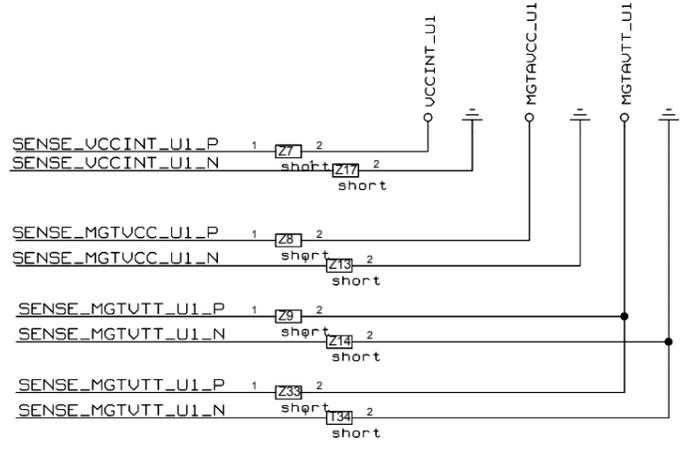


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CHECKED	U. SCHAEFER					
CHECKED	S. RAVE					
DRAWN	BAUSS			BLOCK TITLE POWERSUPPLY		
UNIVERSITY OF MAINZ				SIZE C	REV.	DRAWING NO.
SCALE				SHEET OF		

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

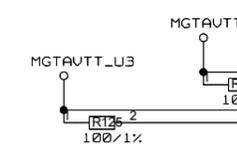
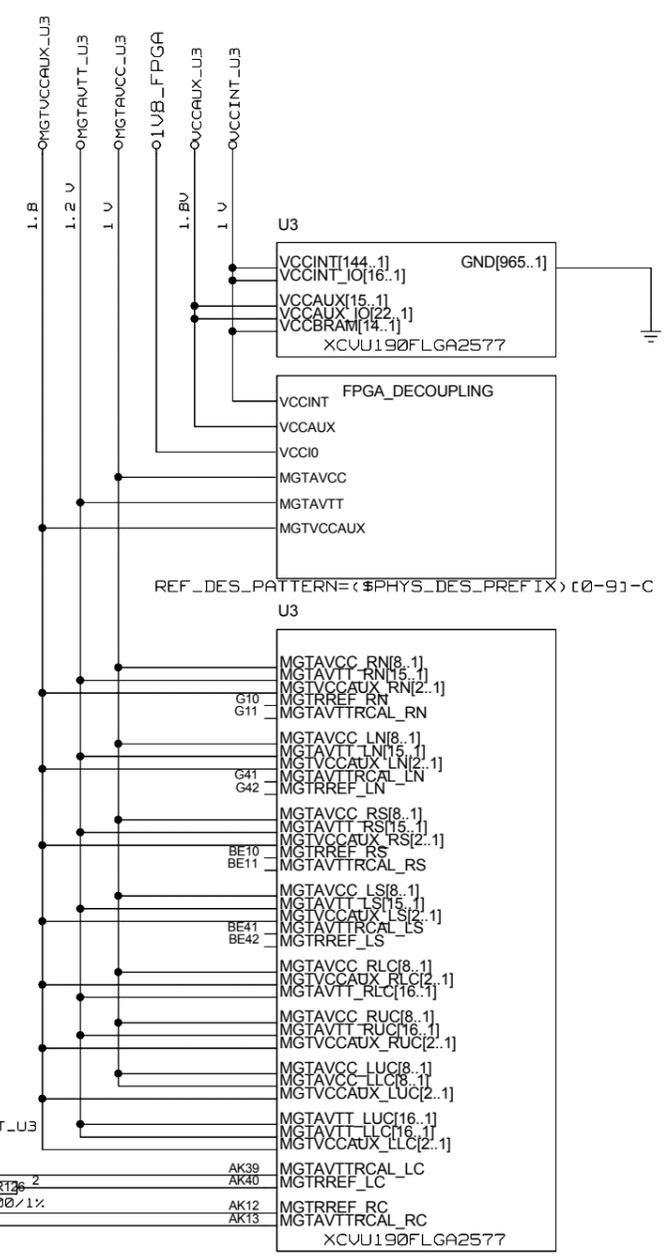
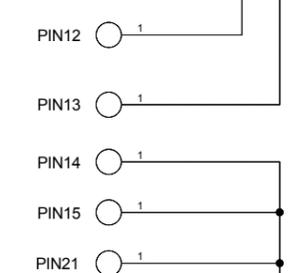
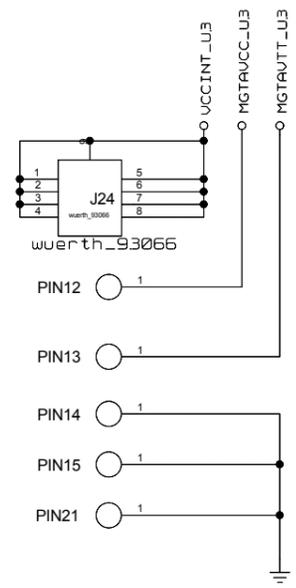


TRACE LENGTH FROM RESISTOR PINS
TO PIN SAME LENGTH
UG576 SHEET 297

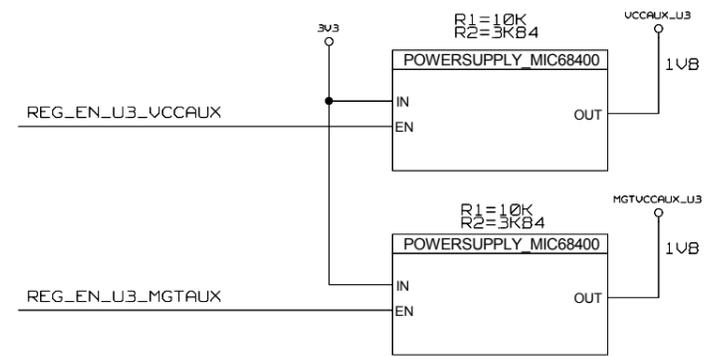
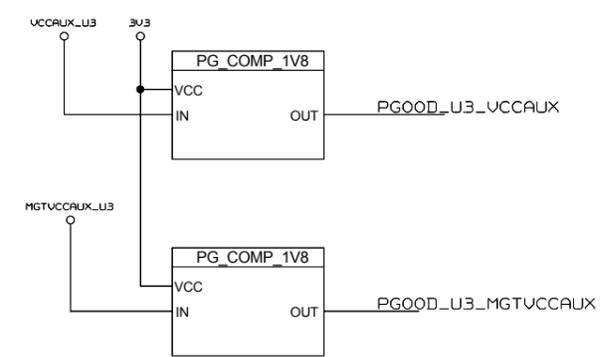
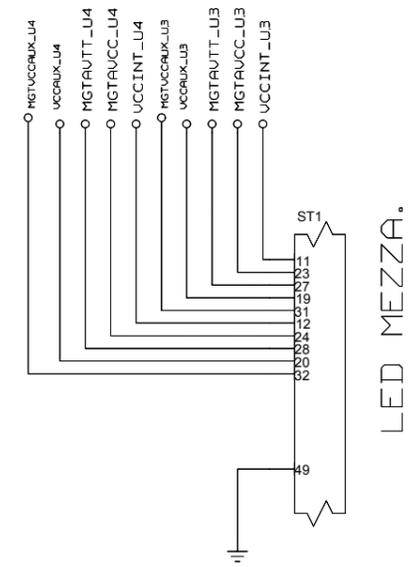
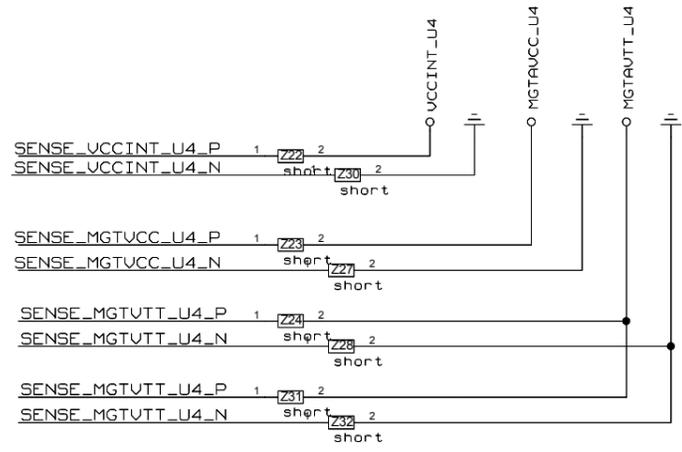
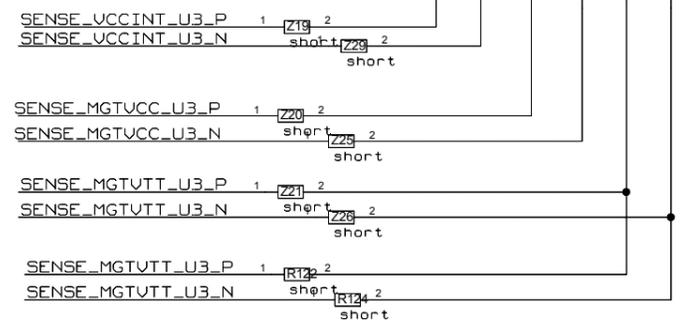
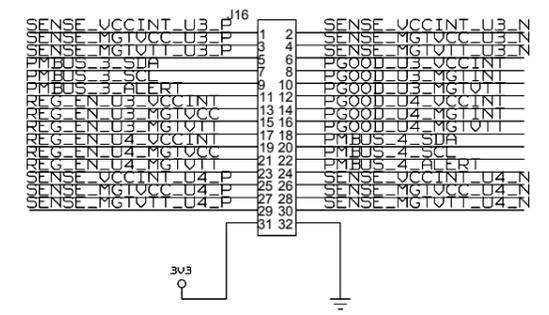


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CHECKED	U. SCHAEFER			
CHECKED	S. RAVE			
DRAWN	BAUSS			
BLOCK TITLE			DRAWING NO.	
UNIVERSITY OF MAINZ			SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

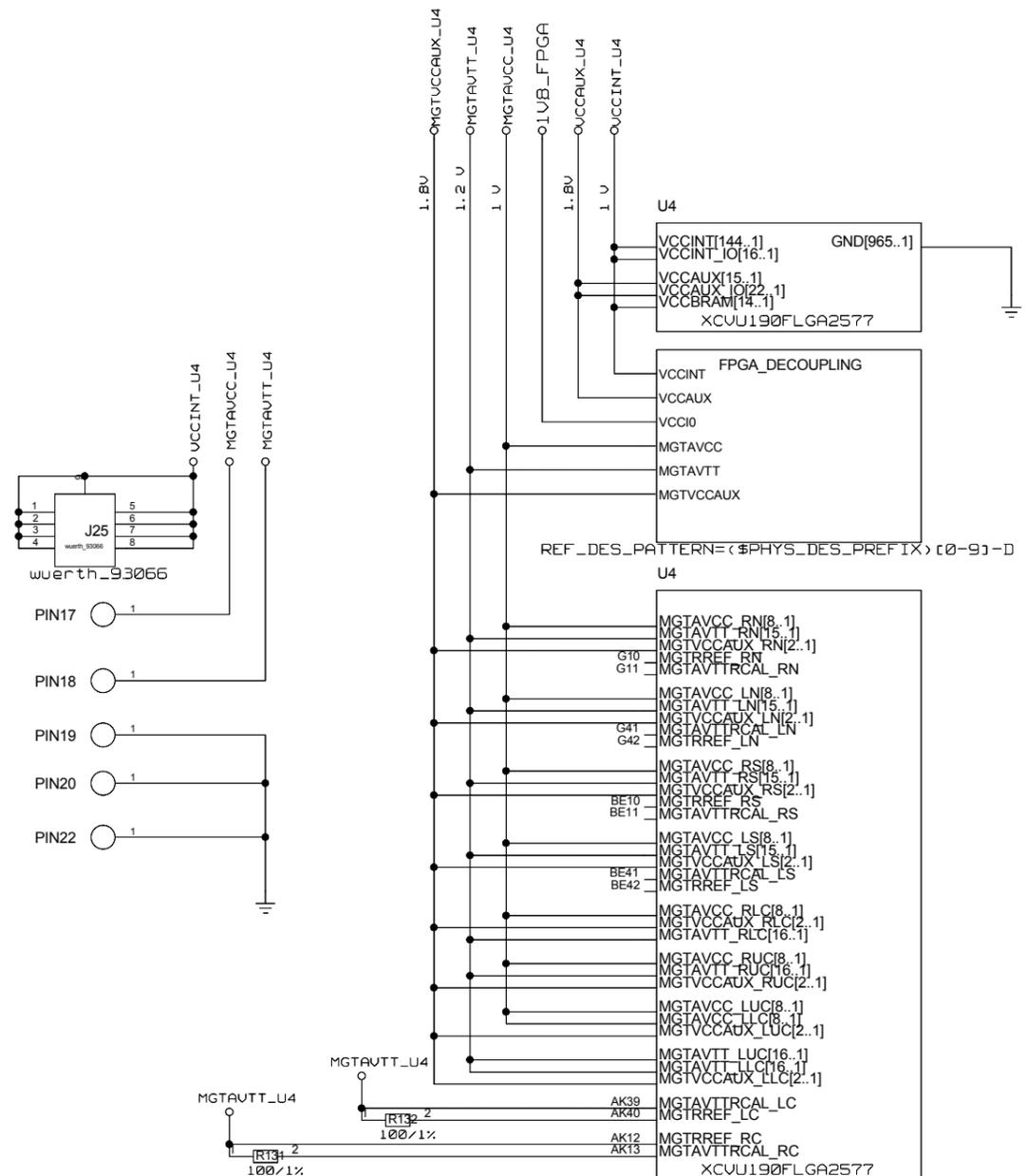


TRACE LENGTH FROM RESISTOR PINS
TO PIN SAME LENGTH
UG576 SHEET 297

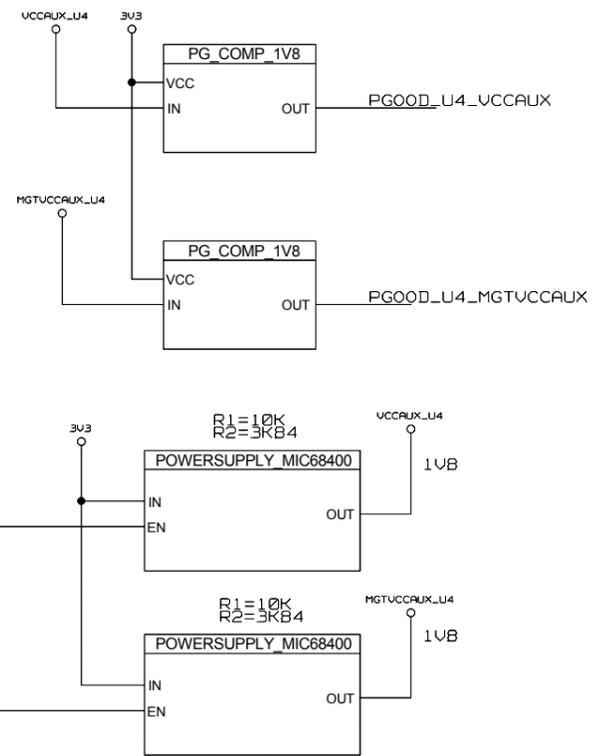


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CHECKED	U. SCHAEFER			
CHECKED	S. RAVE			
DRAWN	BAUSS			
BLOCK TITLE			POWERSUPPLY	
UNIVERSITY OF MAINZ			SIZE C	REV.
			DRAWING NO.	
			SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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



CHECKED	NAME	DATE	SIGN	DRAWING TITLE POWERSUPPLIES U4 DECOUPLING U4
CHECKED	J. V. DE SOUZA			
CHECKED	U. SCHAEFER			
CHECKED	S. RAVE			
DRAWN	BAUSS			
BLOCK TITLE POWERSUPPLY				SIZE C
UNIVERSITY OF MAINZ				REV.
				DRAWING NO.
SCALE				SHEET OF

REVISIONS

ZONE	LTR	DESCRIPTION	DATE	APPR.

F
E
D
C
B
A

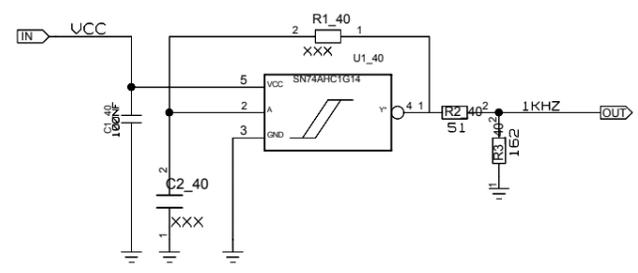
F
E
D
C
B
A

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

8	7	6	5	4	3	2	1
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REVISIONS

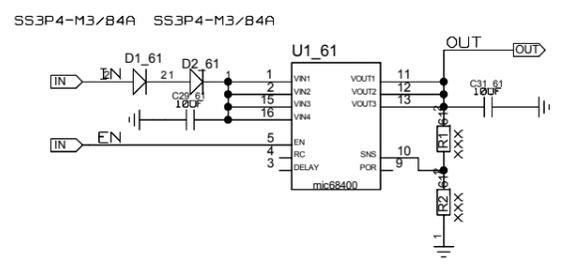
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BLOCK TITLE						
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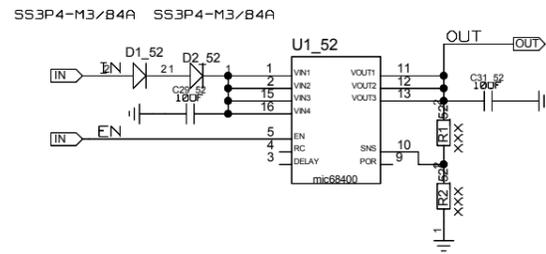
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CHECKED	S. RAVE			
DRAWN	BAUSS			
BLOCK TITLE				
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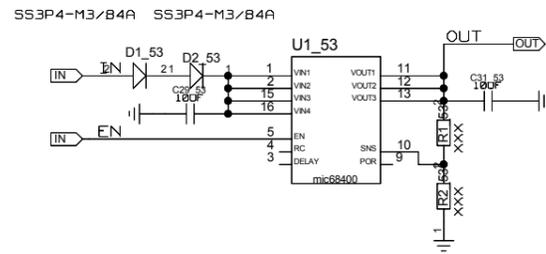
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CHECKED	NAME	DATE	SIGN	DRAWING TITLE
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	U. SCHAEFER			
	S. RAVE			
	BAUSS			
BLOCK TITLE				
POWERSUPPLY_MIC68400				
UNIVERSITY OF MAINZ			SIZE C	DRAWING NO.
			SCALE	SHEET OF

REVISIONS

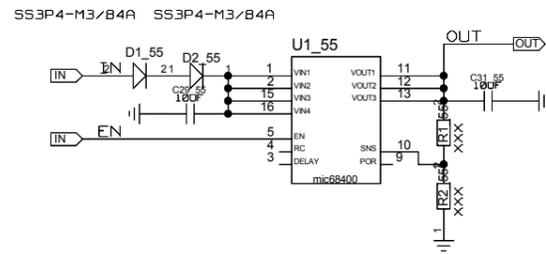
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CHECKED	NAME	DATE	SIGN	DRAWING TITLE
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	S.RAVE			
	BAUSS			
DRAWN				DRAWING NO.
BLOCK TITLE				
POWERSUPPLY_MIC68400				SHEET OF
UNIVERSITY OF MAINZ				
SIZE	REV.	DRAWING NO.		SHEET OF
C				
SCALE				

REVISIONS

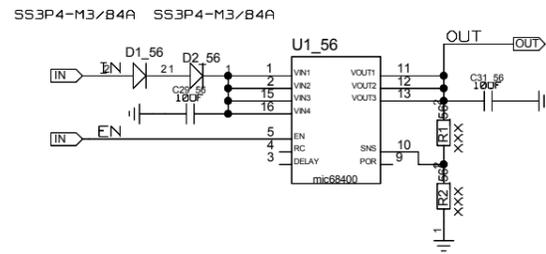
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CHECKED	NAME	DATE	SIGN	DRAWING TITLE
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	U.SCHAEFER			
	S.RAVE			
	DRAWN	BAUSS		
BLOCK TITLE				
POWERSUPPLY_MIC68400				
UNIVERSITY OF MAINZ			SIZE C	DRAWING NO.
			SCALE	SHEET OF

REVISIONS

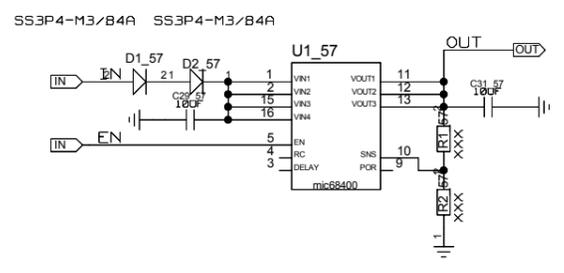
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CHECKED	NAME	DATE	SIGN	DRAWING TITLE
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	U.SCHAEFER			
	S.RAVE			
	BAUSS			
DRAWN				DRAWING NO.
BLOCK TITLE				
POWERSUPPLY_MIC68400				SHEET OF
UNIVERSITY OF MAINZ				
SIZE	REV.	DRAWING NO.		SHEET OF
C				
SCALE				

REVISIONS

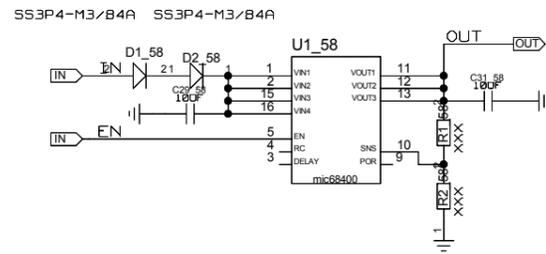
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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
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SCALE				SHEET OF

REVISIONS

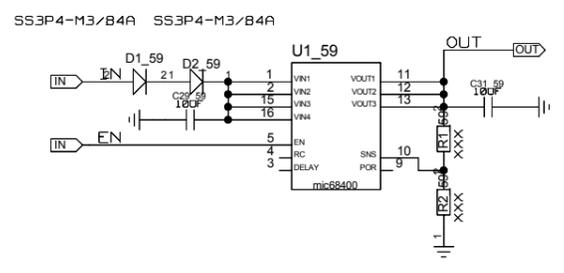
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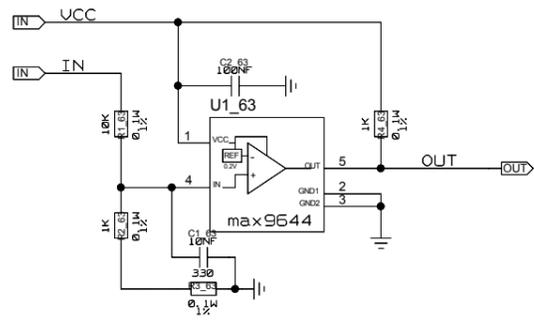
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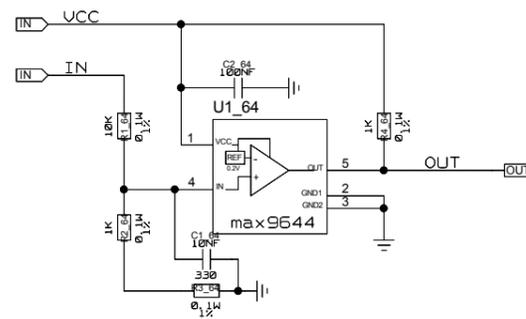
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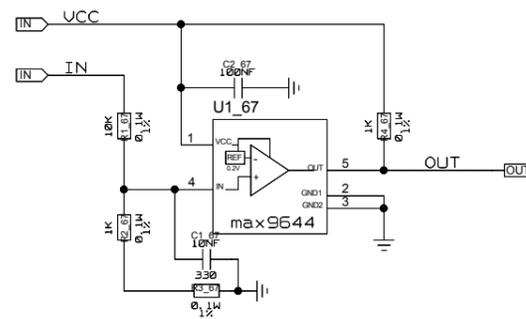
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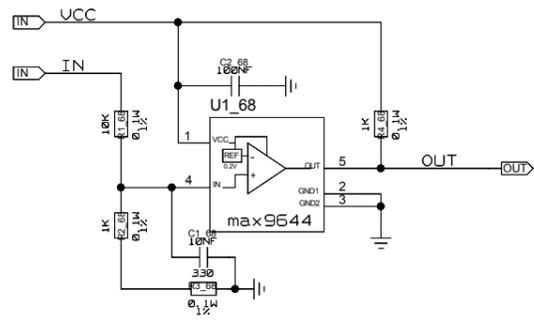
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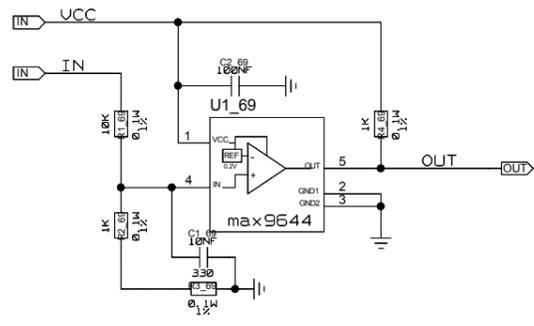
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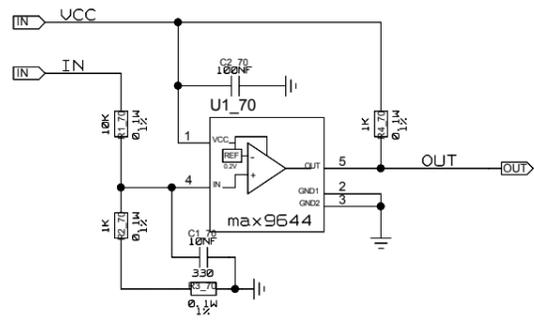
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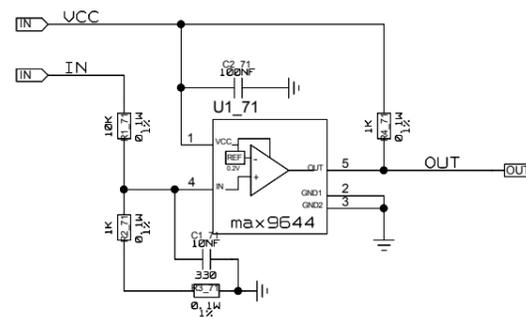
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BLOCK TITLE						
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REVISIONS

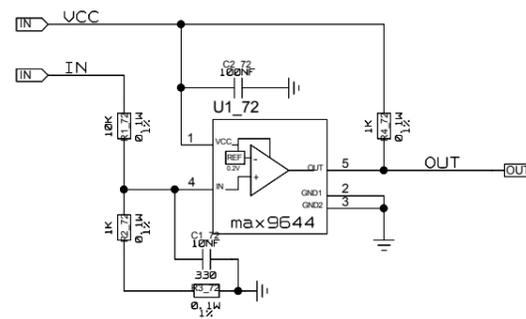
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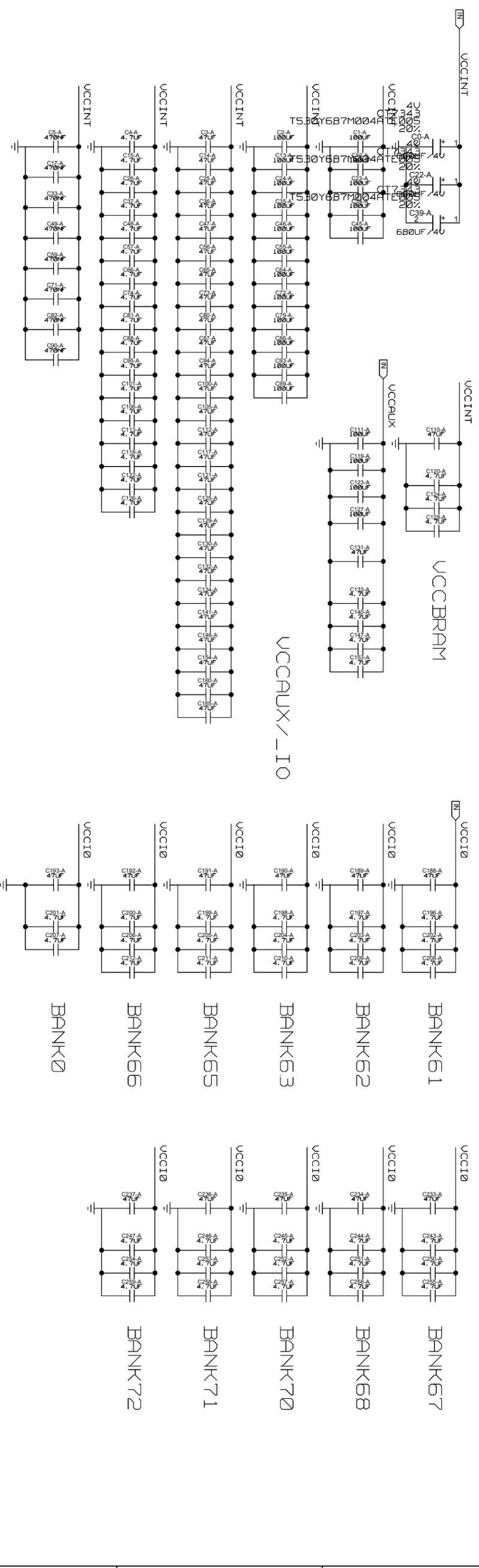
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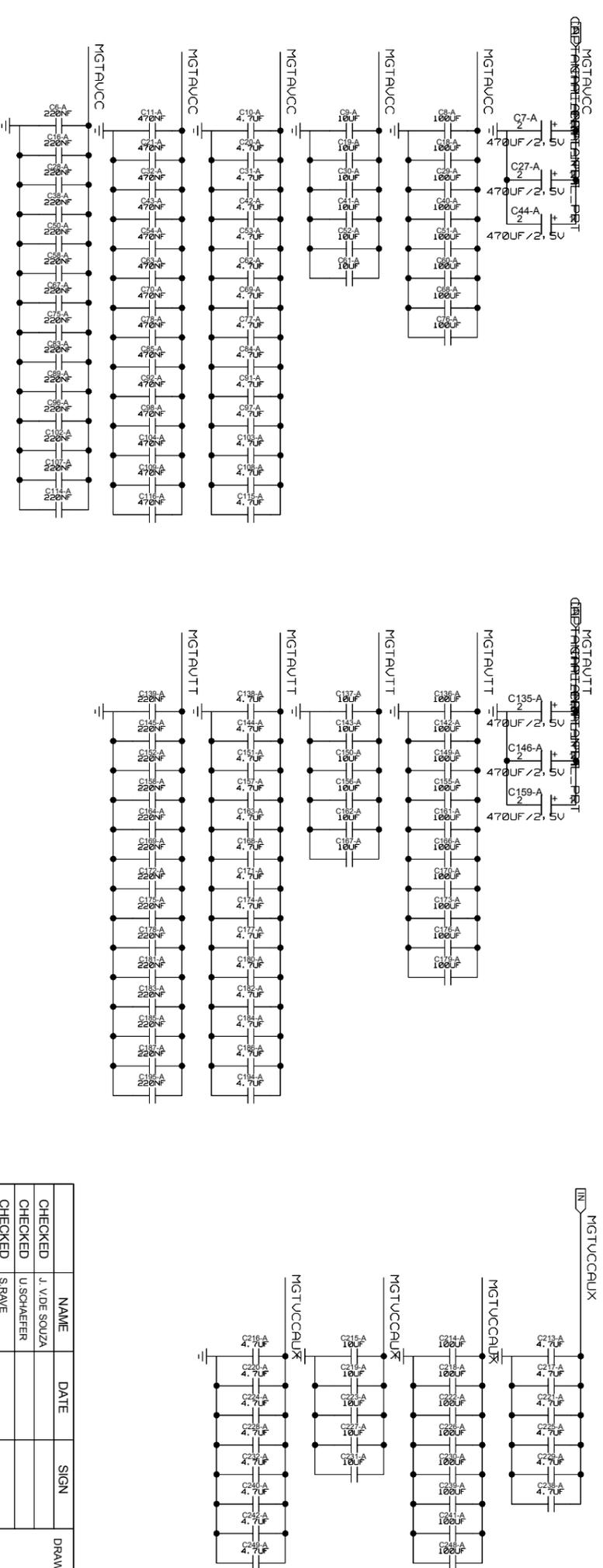


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	U.SCHAEFER					
	S.RAVE					
	BAUSS					
BLOCK TITLE						
UNIVERSITY OF MAINZ				SIZE C	REV.	DRAWING NO.
				SCALE		SHEET OF

REVISIONS		DATE	APPR.
ZONE	LTR	DESCRIPTION	



MGT DECOUPLING



NAME	DATE	SIGN
CHECKED J. VDE SOUZA		
CHECKED U.SCHAEFER		
CHECKED S.RAVE		
DRAWN BAUSS		

DRAWING TITLE

UNIVERSITY OF MAINZ

SIZE: C

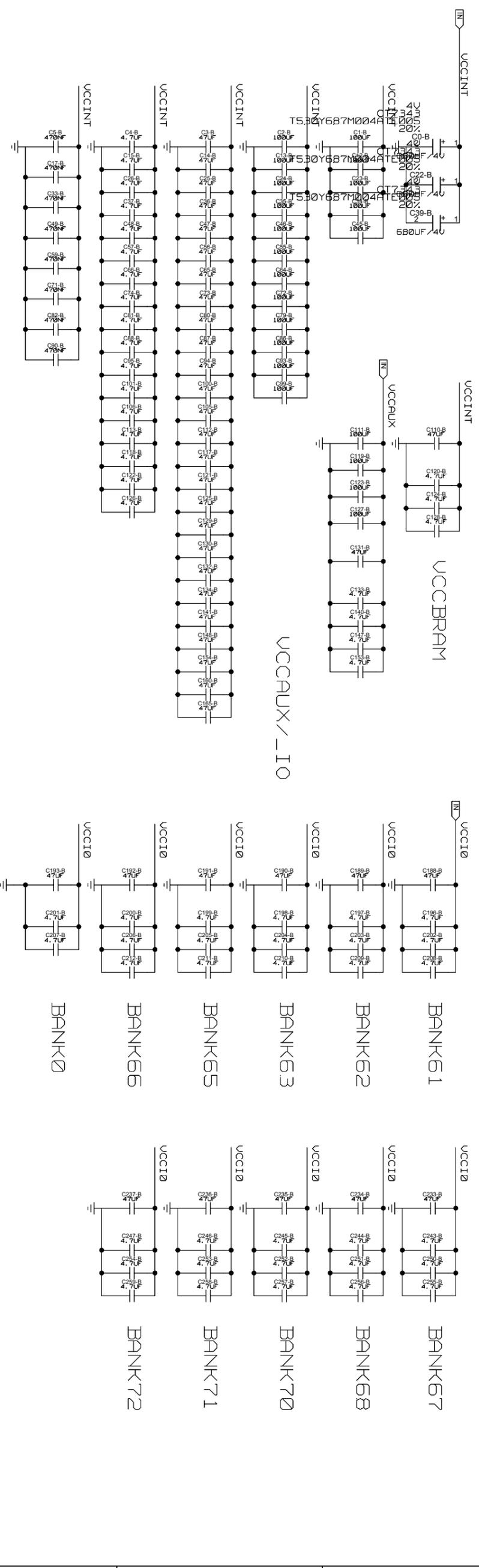
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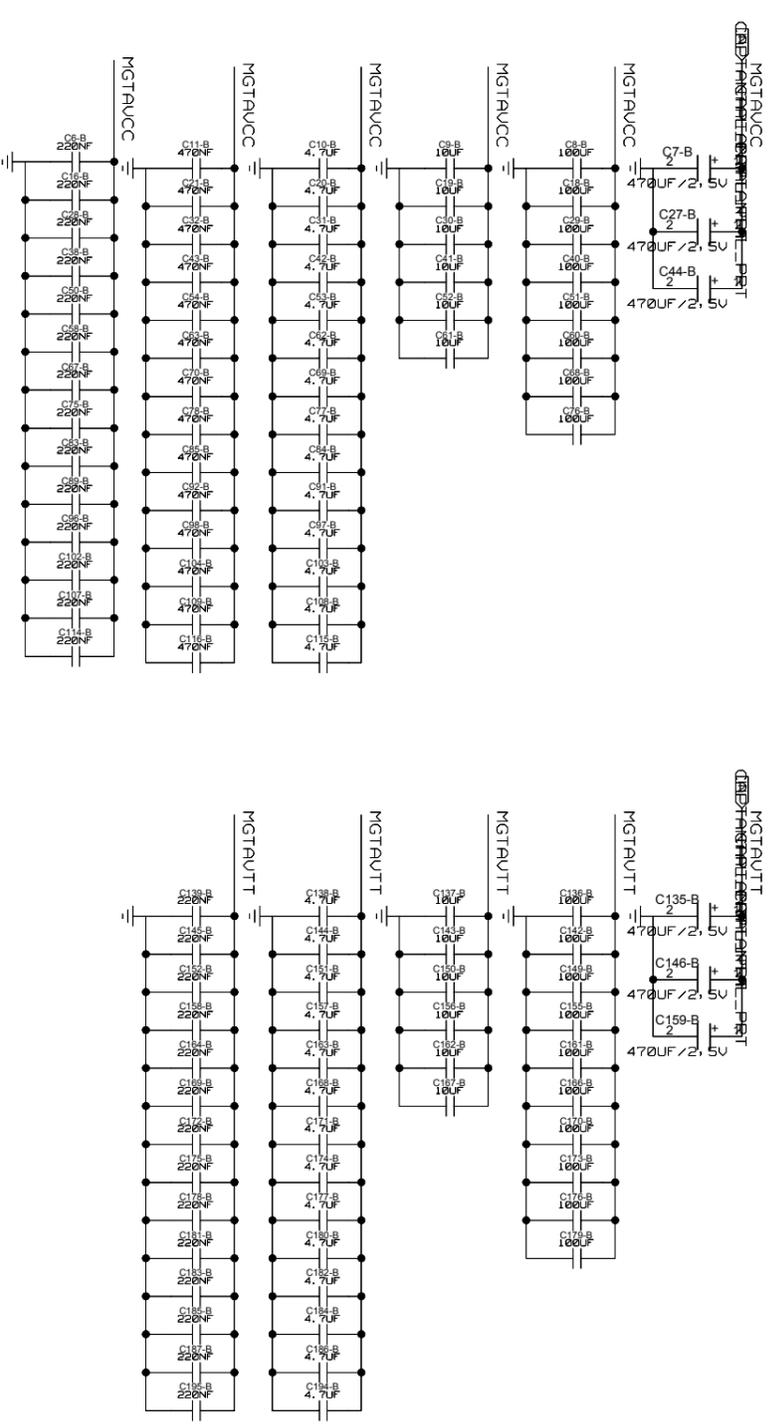
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SHEET OF:

REVISIONS		DATE	APPR.
ZONE	LTR	DESCRIPTION	



MGT DECOUPLING



NAME	DATE	SIGN	DRAWING TITLE
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CHECKED U.SCHAEFER			
CHECKED S.RAVE			
DRAWN BAUSS			

UNIVERSITY OF MAINZ

SIZE: C

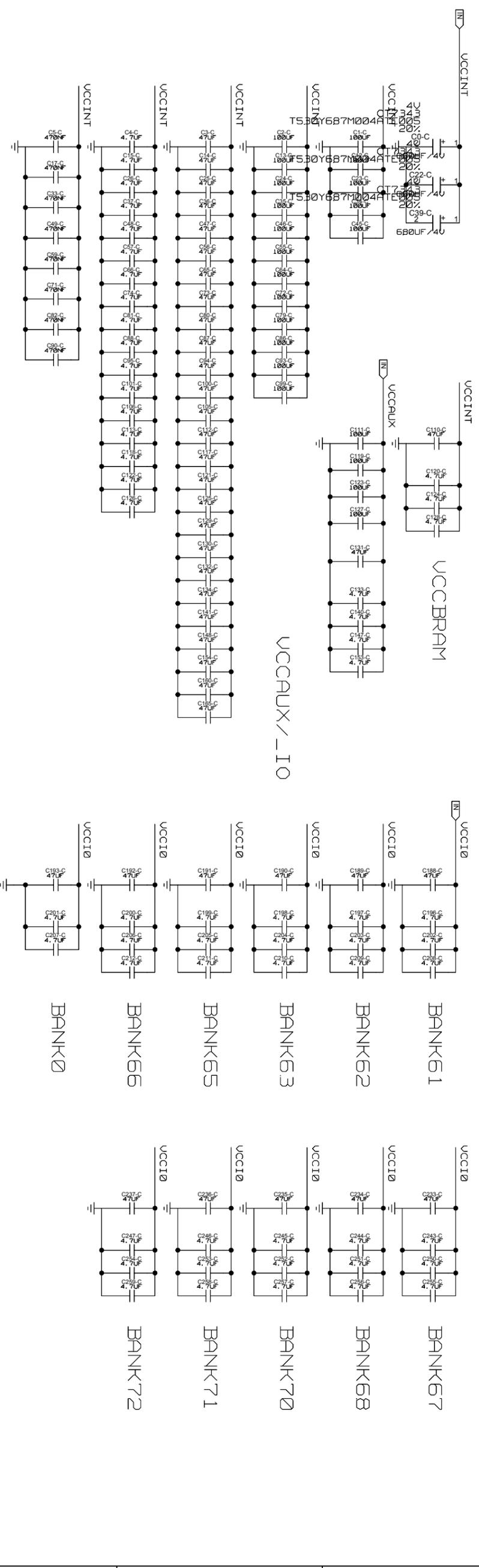
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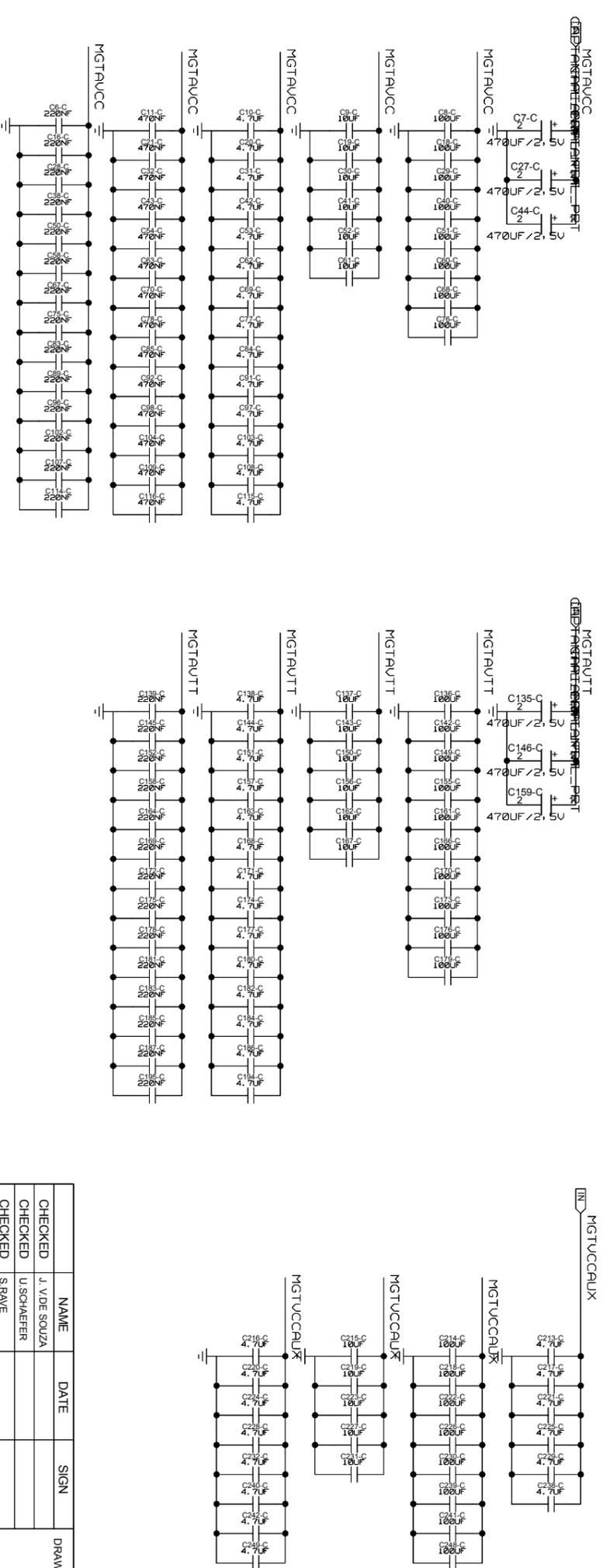
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ZONE	LTR	DESCRIPTION	



MGT DECOUPLING



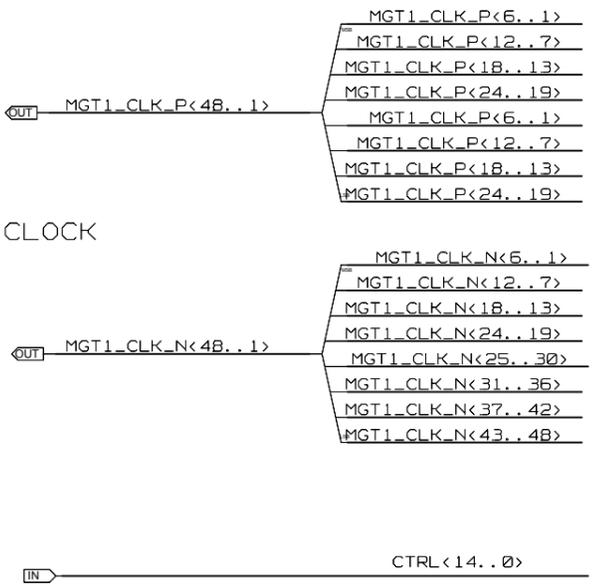
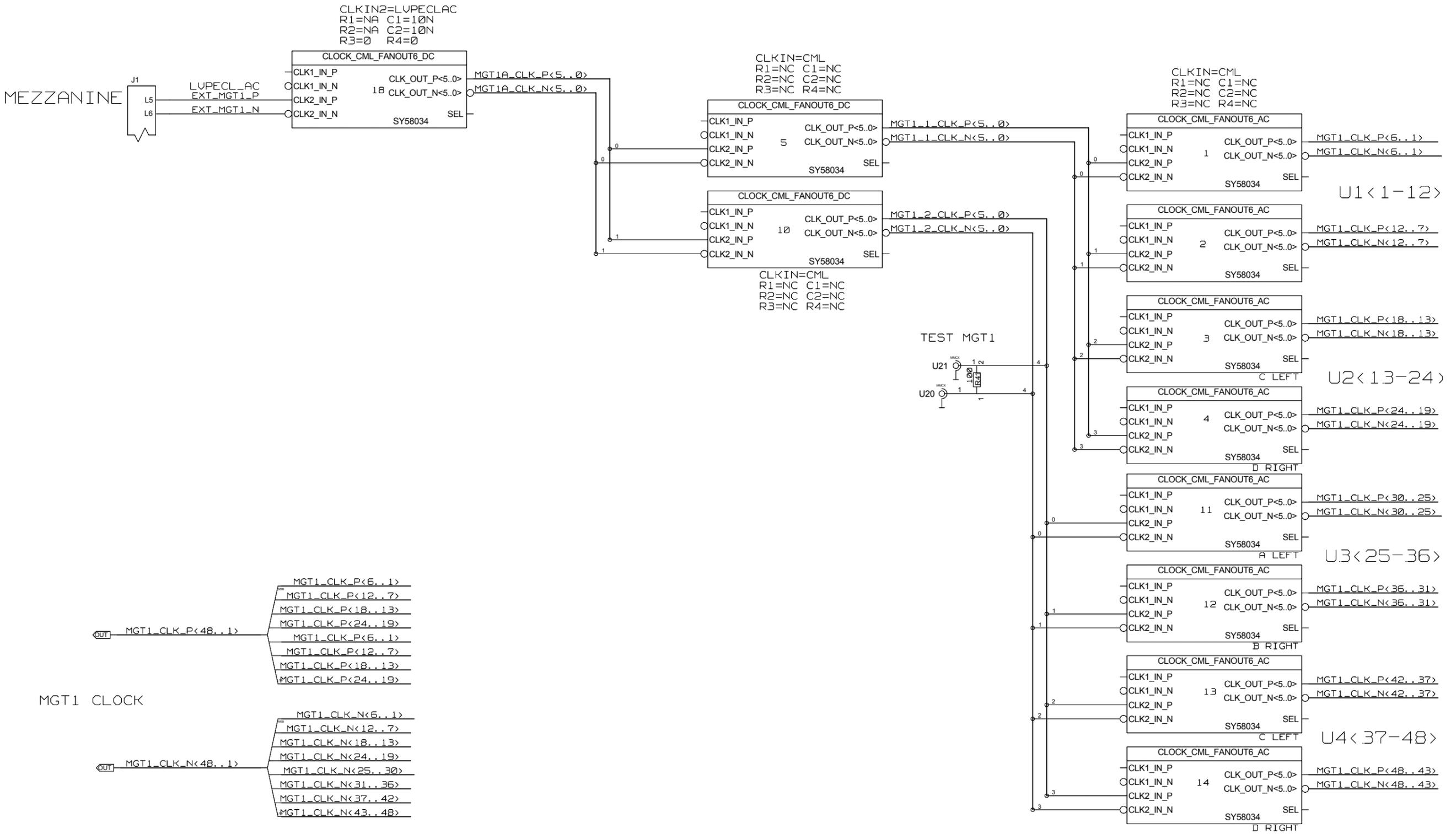
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CHECKED J. VDE SOUZA			
CHECKED U.SCHAEFER			
CHECKED S.RAVE			
DRAWN BAUSS			

UNIVERSITY OF MAINZ			

SIZE	REV.	DRAWING NO.
C		
SCALE		

MGT 1 CLOCK

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE

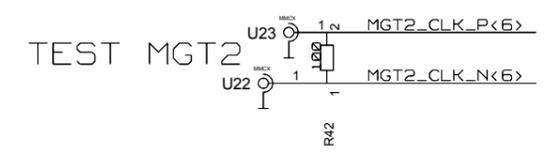
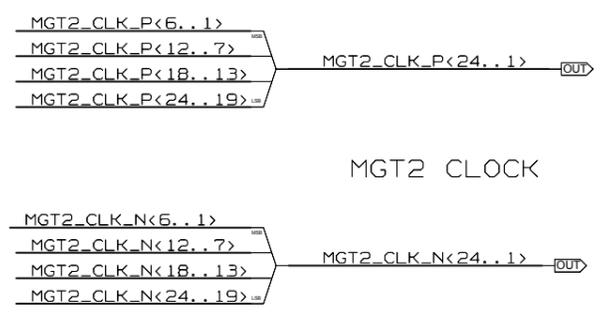
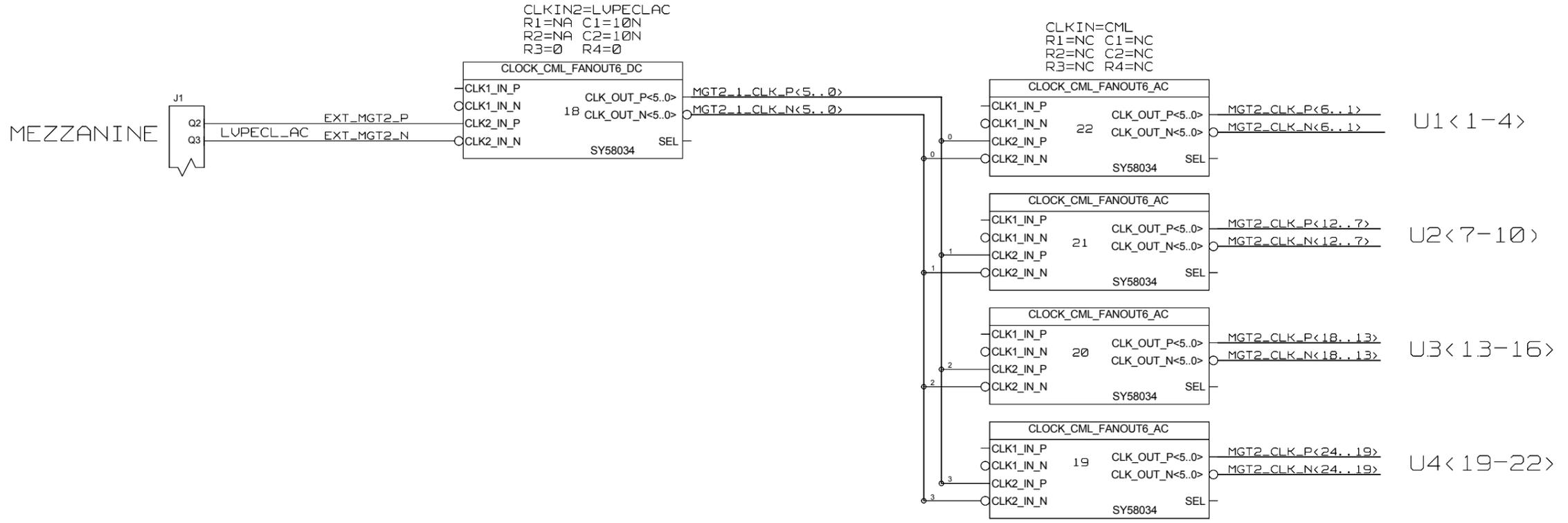


UPDATE PICK & PLACE DATA FOR FANOUT AND MUX

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CHECKED	U. SCHAEFER			
CHECKED	S. RAVE			
DRAWN	BAUSS	08.06.2017		
BLOCK TITLE	CLOCK			
UNIVERSITY OF MAINZ				SIZE C
				REV.
				DRAWING NO.
				SCALE
				SHEET 1 of 5

MGT2 CLOCK

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

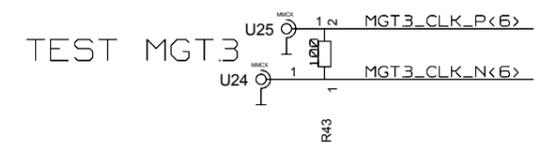
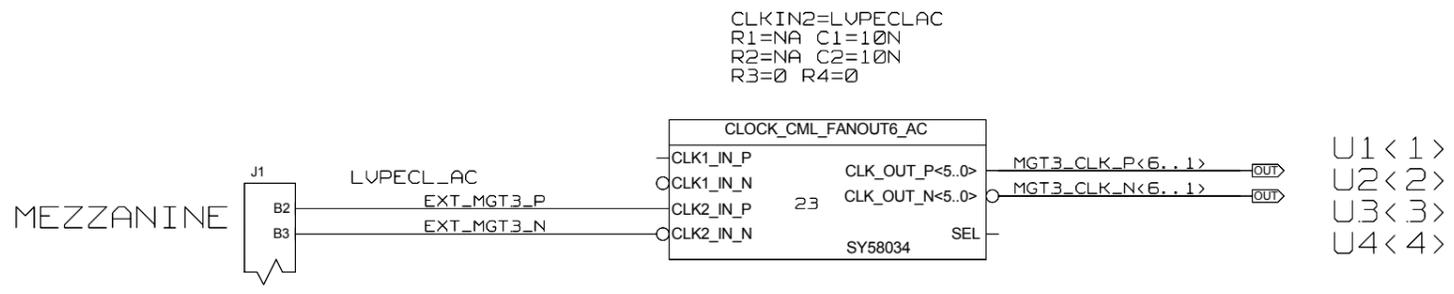


UPDATE PICK & PLACE DATA FOR FANOUT AND MUX

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CHECKED	S. RAVE			
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BLOCK TITLE	CLOCK			
UNIVERSITY OF MAINZ				SIZE C
				REV.
				DRAWING NO.
SCALE				SHEET 2 OF 5

MGT.3 CLOCK (ROD REFCLK)

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE

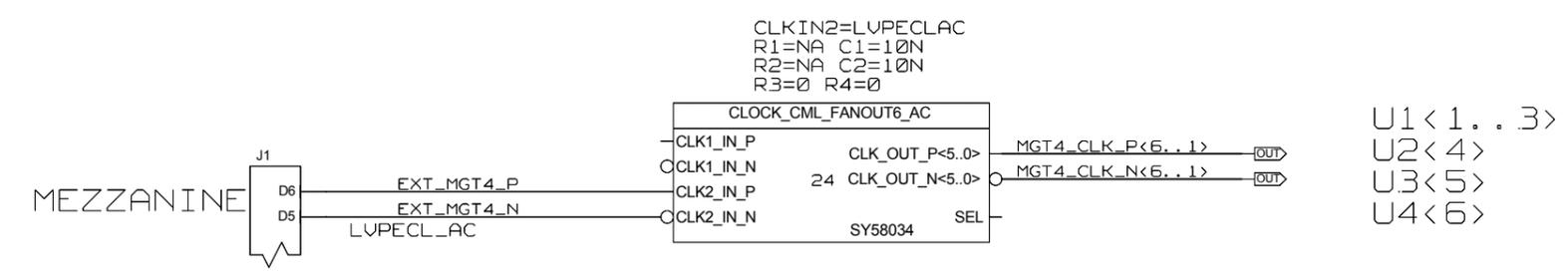


UPDATE PICK & PLACE DATA FOR FANOUT AND MUX

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CHECKED	S. RAVE				
DRAWN	BAUSS	08.06.2017			
BLOCK TITLE				CLOCK	
UNIVERSITY OF MAINZ				SIZE	DRAWING NO.
				C	
SCALE				SHEET 3 OF 5	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

MGT4 CLOCK (IPBUS REFCLK)



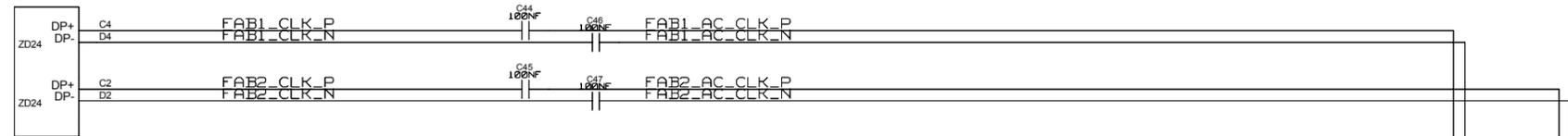
UPDATE PICK & PLACE DATA FOR FANOUT AND MUX

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CHECKED	S.RAVE			
DRAWN	BAUSS	08.05.2017		
BLOCK TITLE CLOCK				
UNIVERSITY OF MAINZ				SIZE C
				REV.
SCALE			DRAWING NO.	SHEET 4 OF 5

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

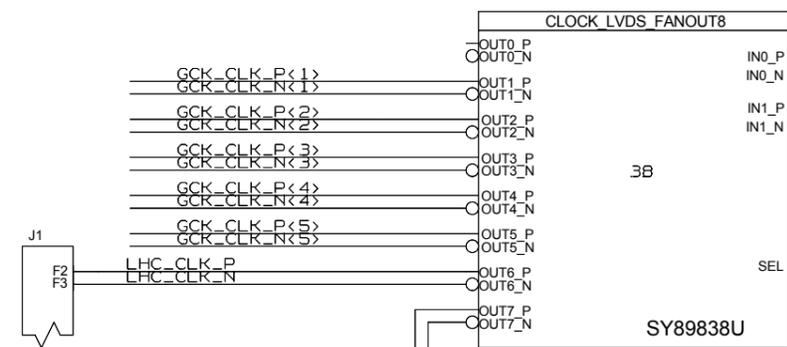
GLOBAL CLOCK

FABRIC CHANNEL



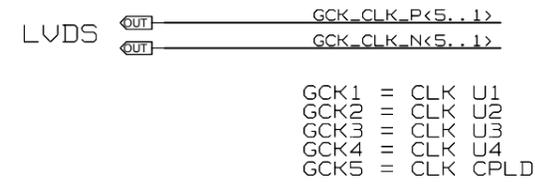
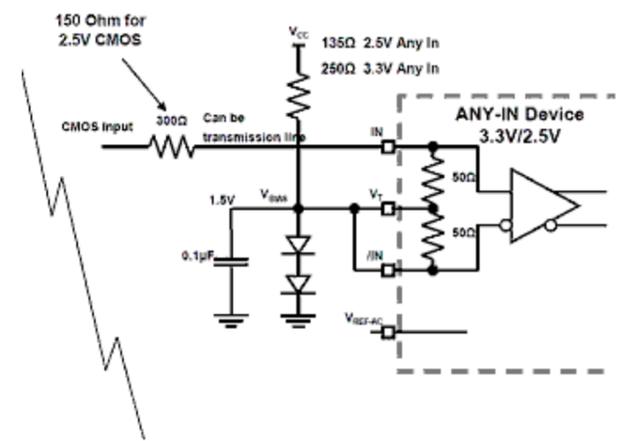
CTRL<13>

MEZZANINE



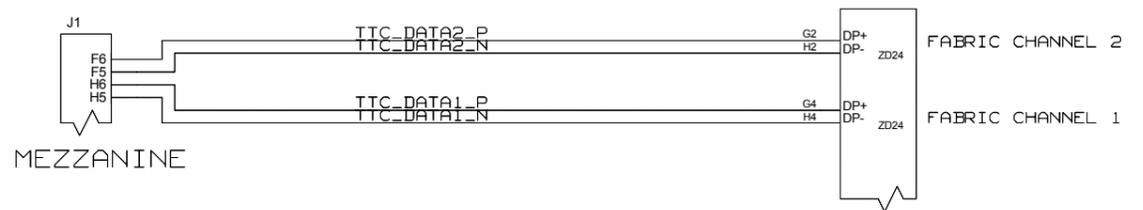
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 CLKIN1=LUPECL
 R1=NA C1=10NF
 R2=NA C2=10NF
 R3=0R R4=0R

CMOS to Any-In



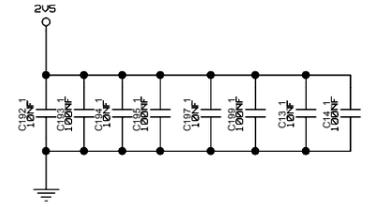
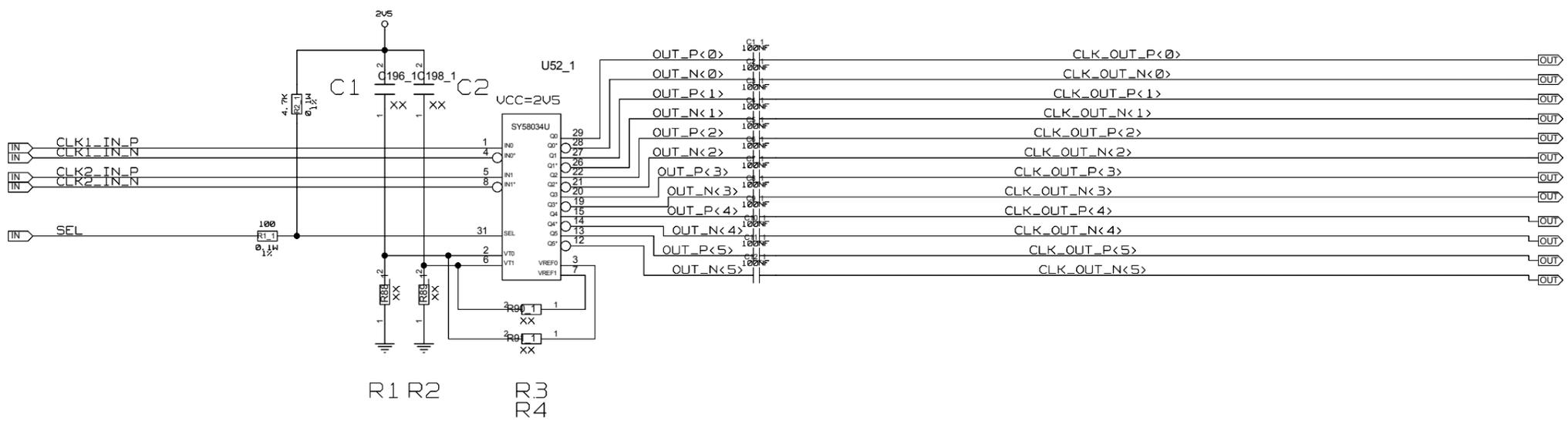
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BLOCK TITLE CLOCK				SIZE C	REV.	DRAWING NO.
UNIVERSITY OF MAINZ				SCALE	SHEET 5 OF 5	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

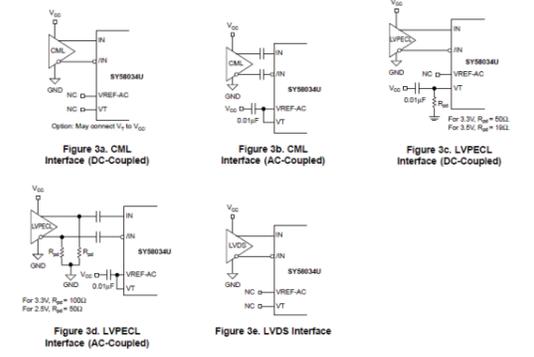


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CHECKED	S. RAVE				
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BLOCK TITLE				CLOCK	
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REVISIONS				
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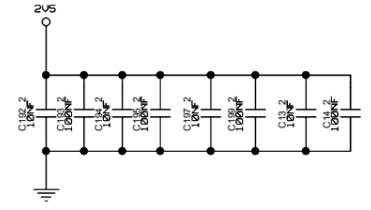
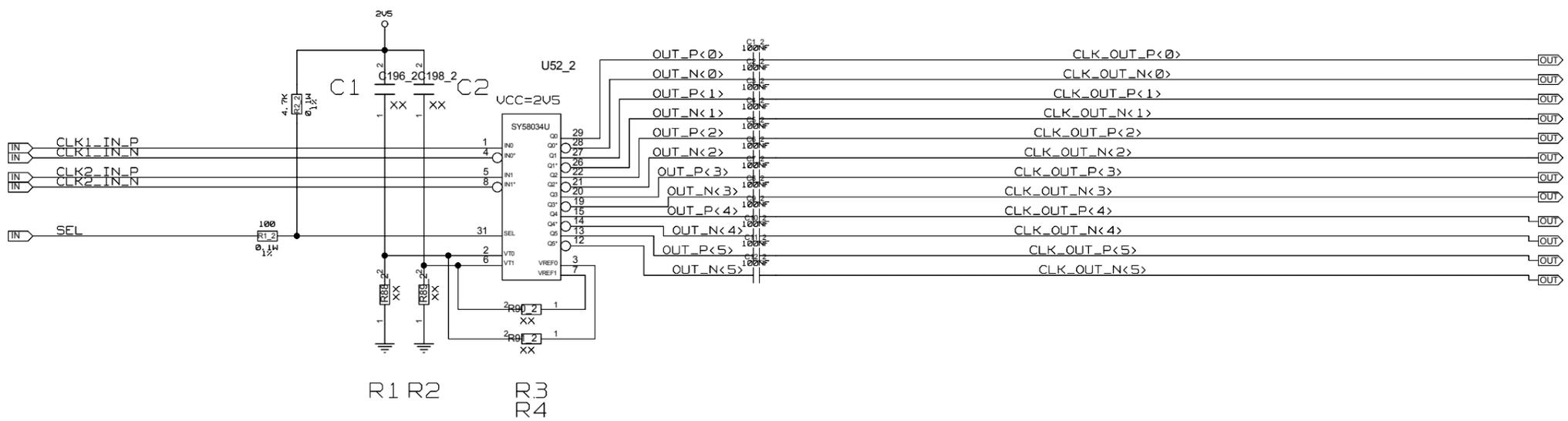


INPUT INTERFACE APPLICATIONS

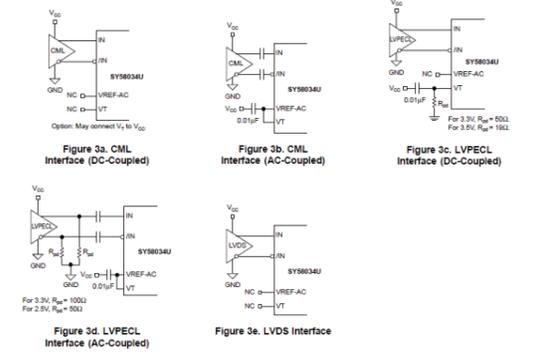


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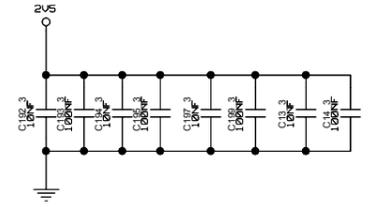
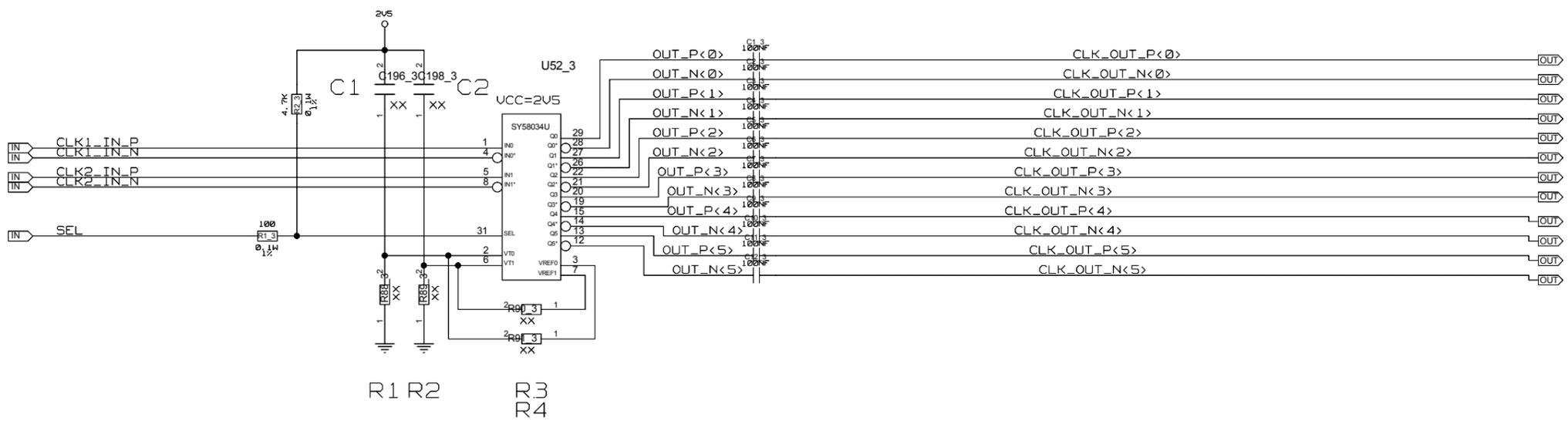


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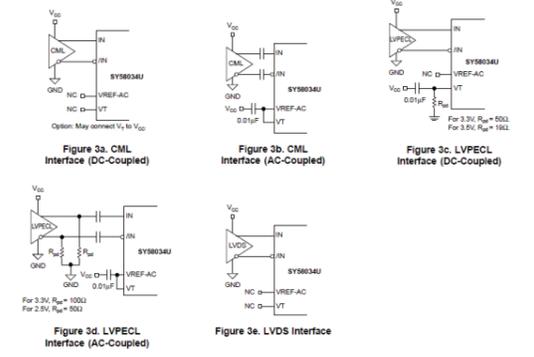


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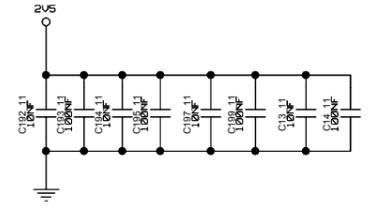
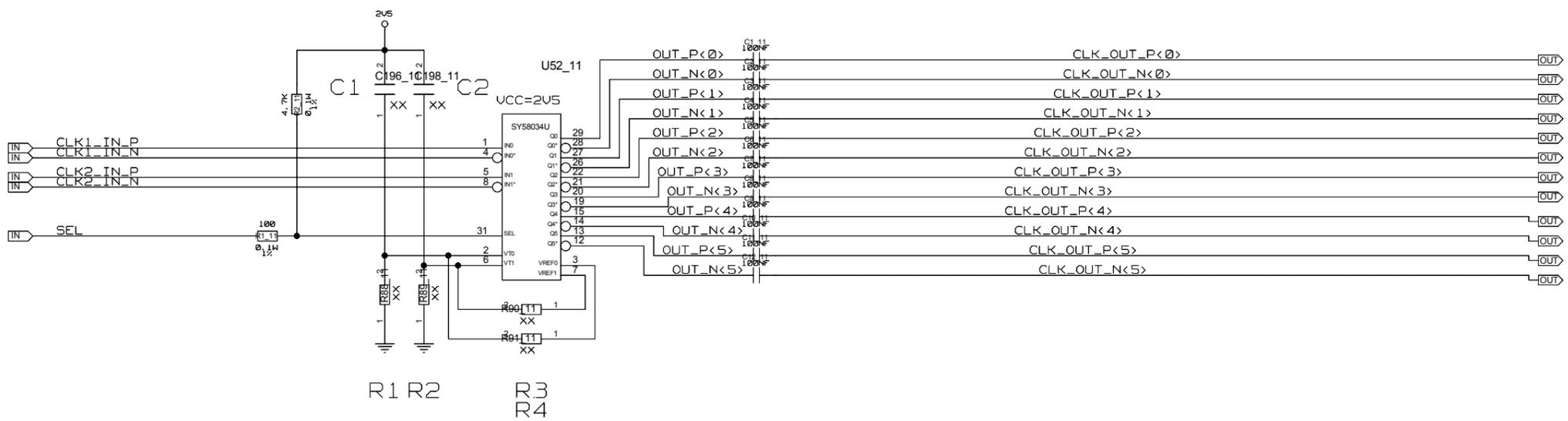


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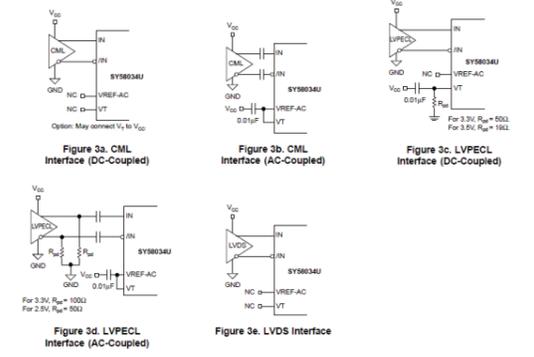


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CHECKED	U. SCHAEFER			
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BLOCK TITLE CLOCK CML FANOUT6 AC				
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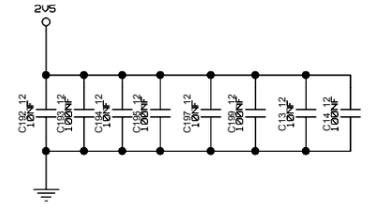
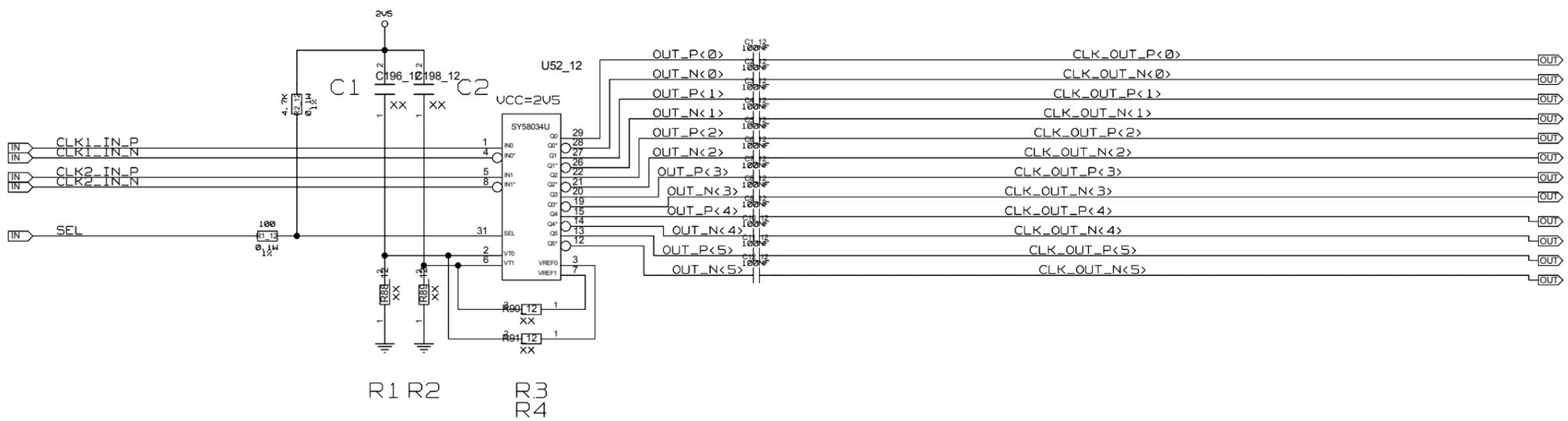


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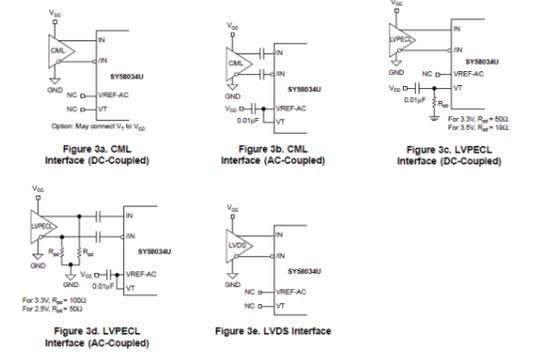


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SHEET			OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

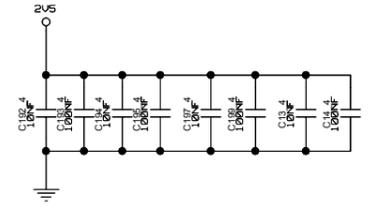
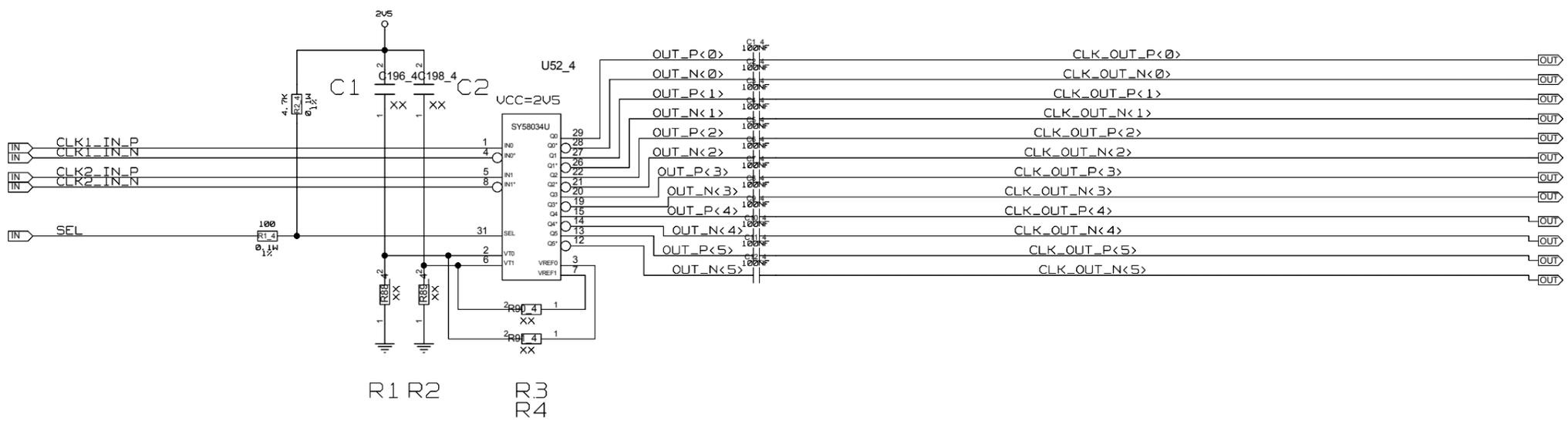


INPUT INTERFACE APPLICATIONS

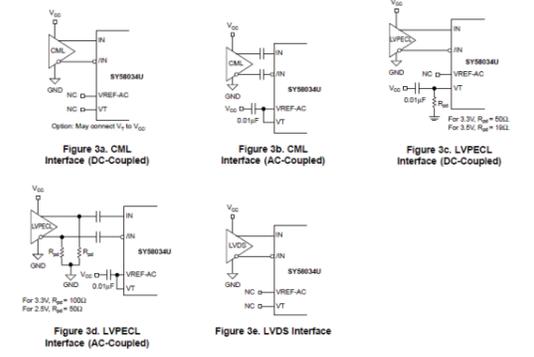


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CHECKED	S. RAVE			
DRAWN	BAUSS			
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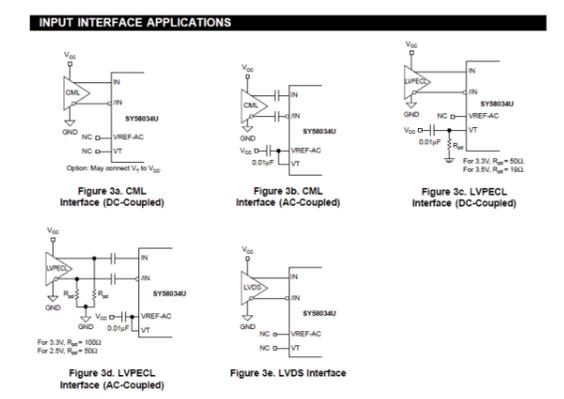
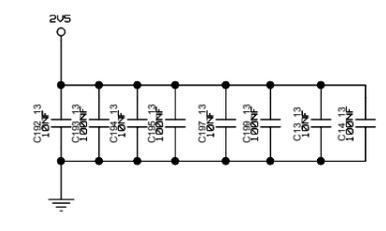
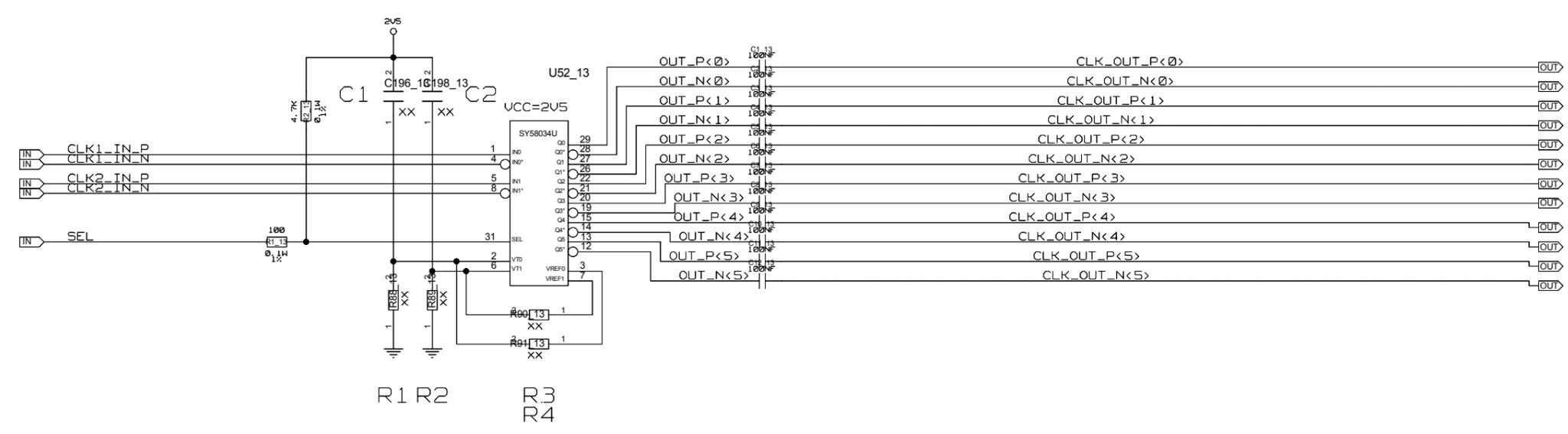


INPUT INTERFACE APPLICATIONS



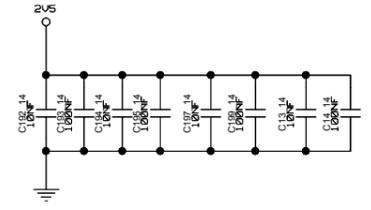
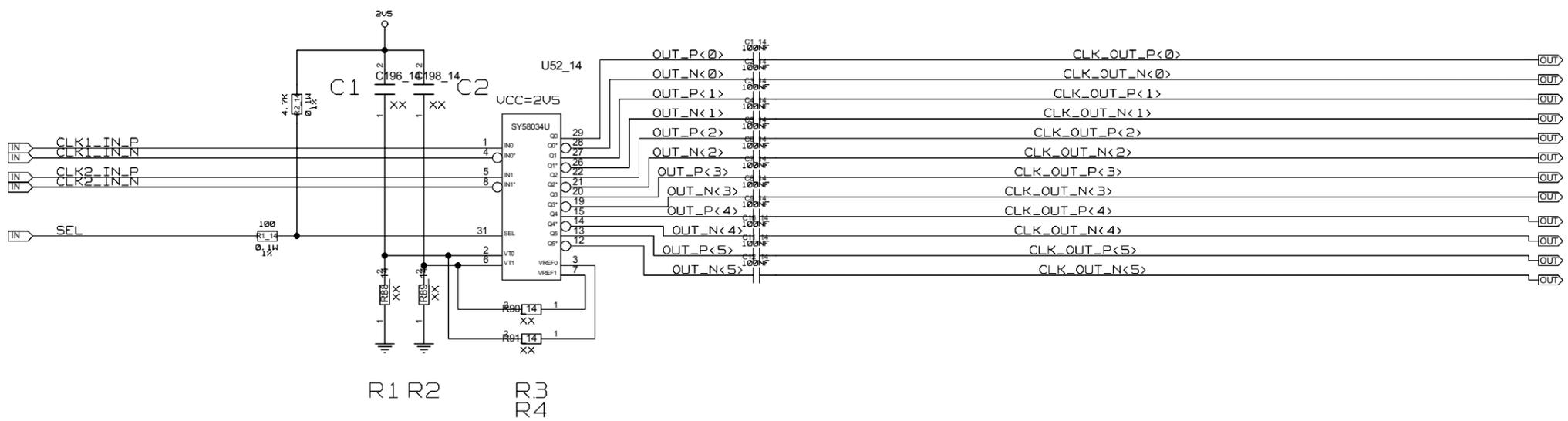
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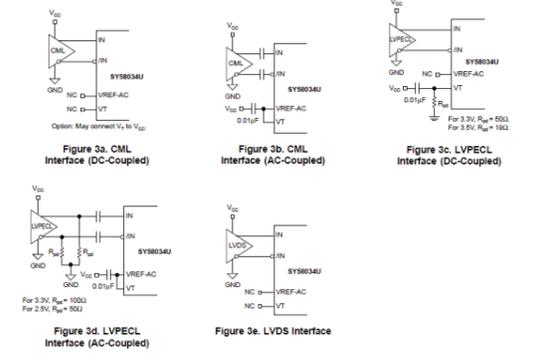


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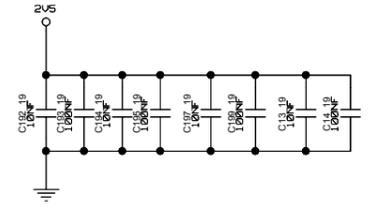
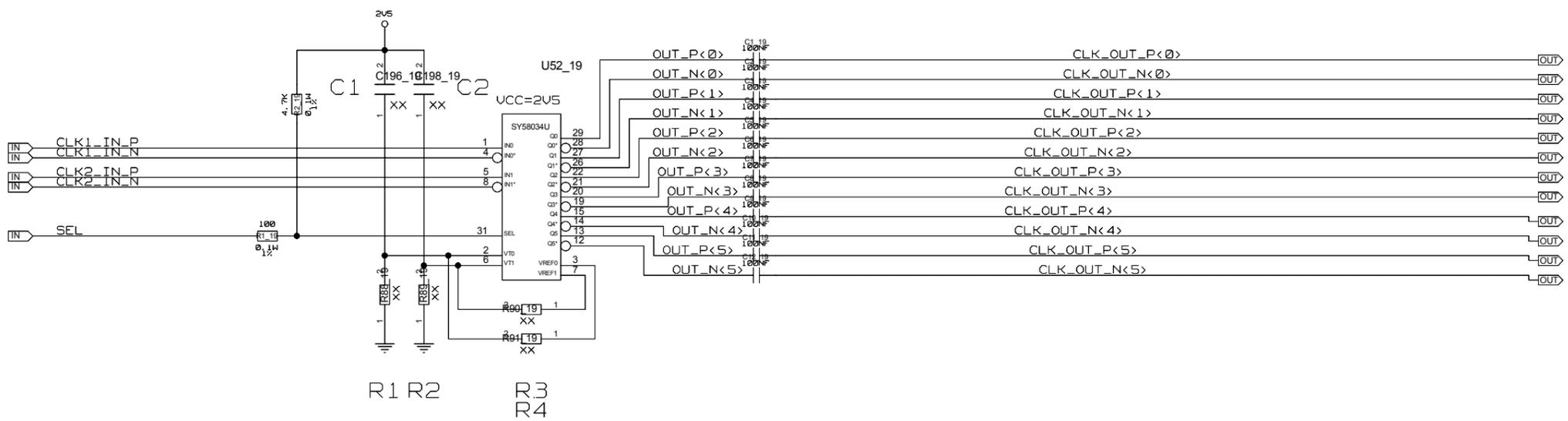


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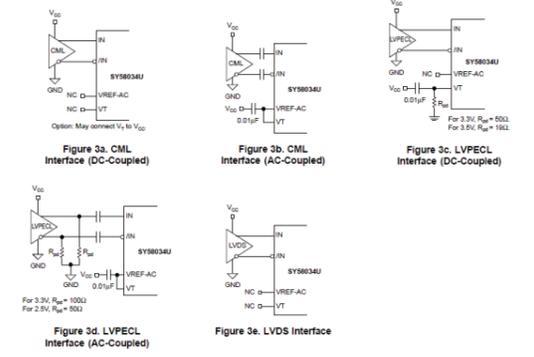


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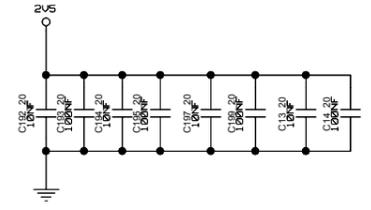
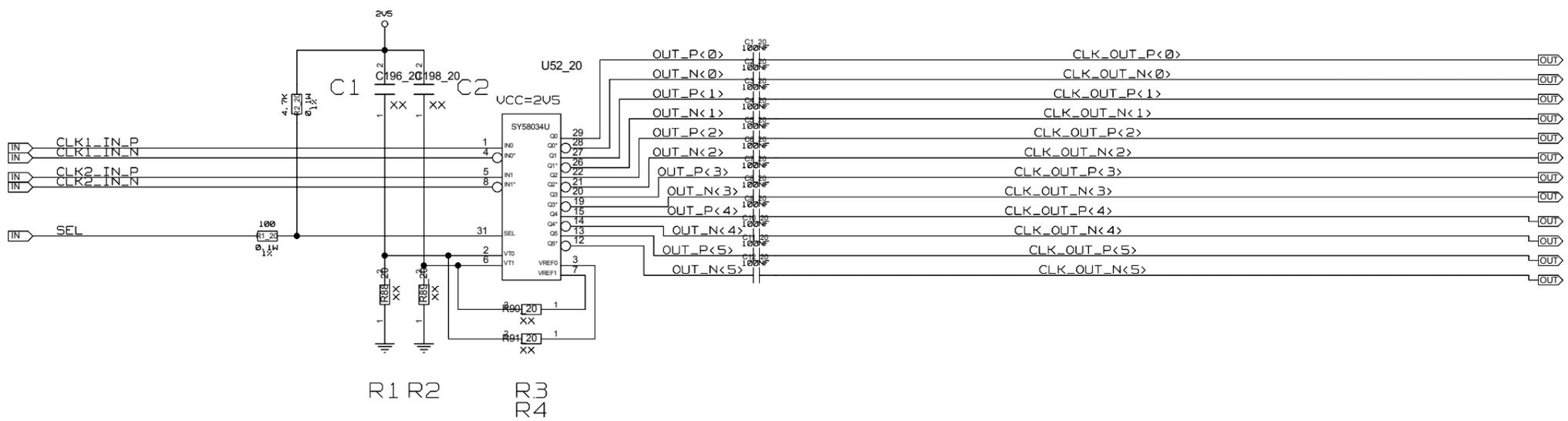


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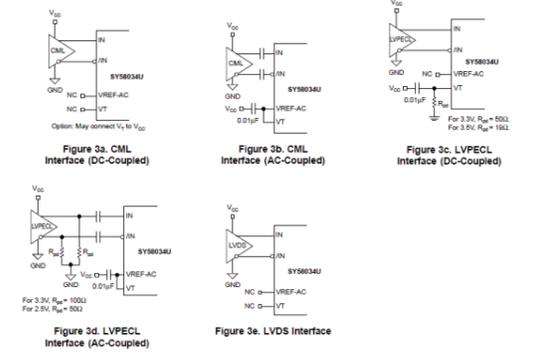


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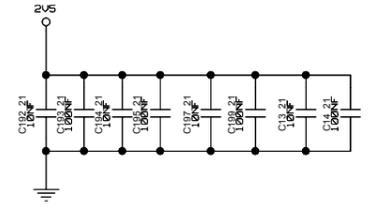
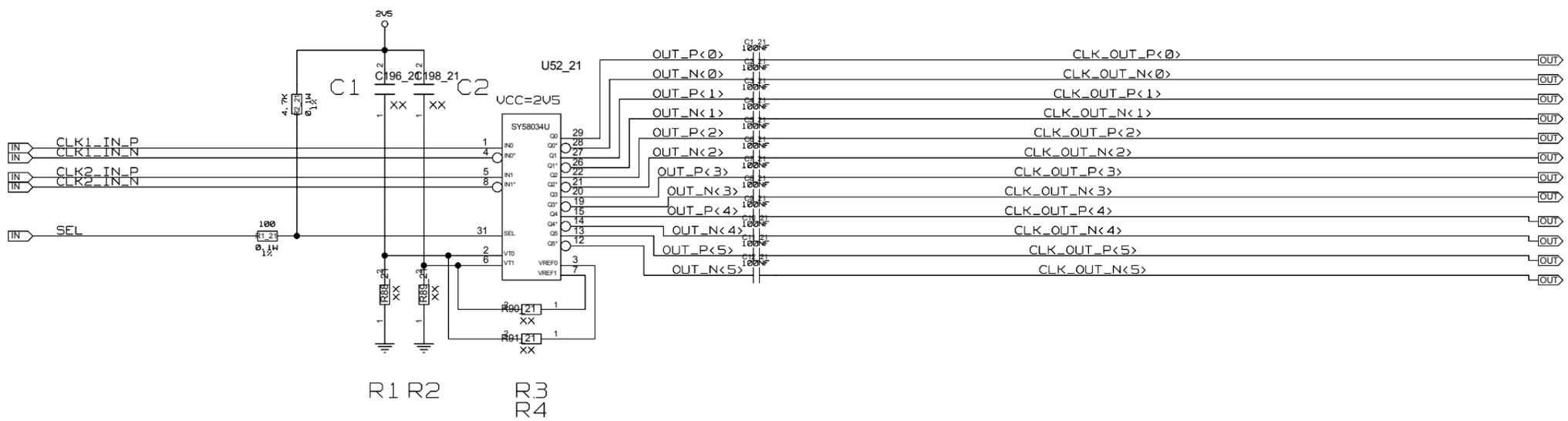


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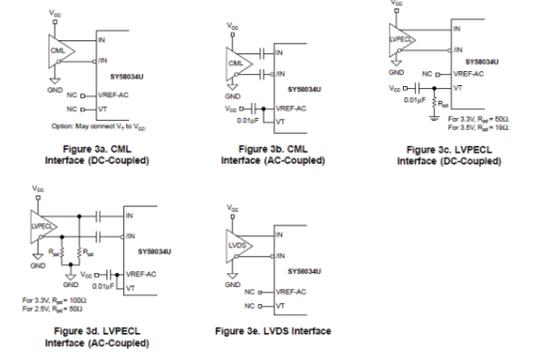


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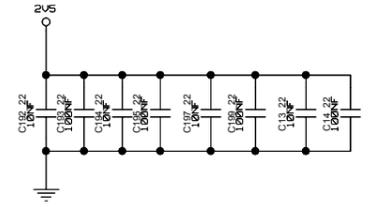
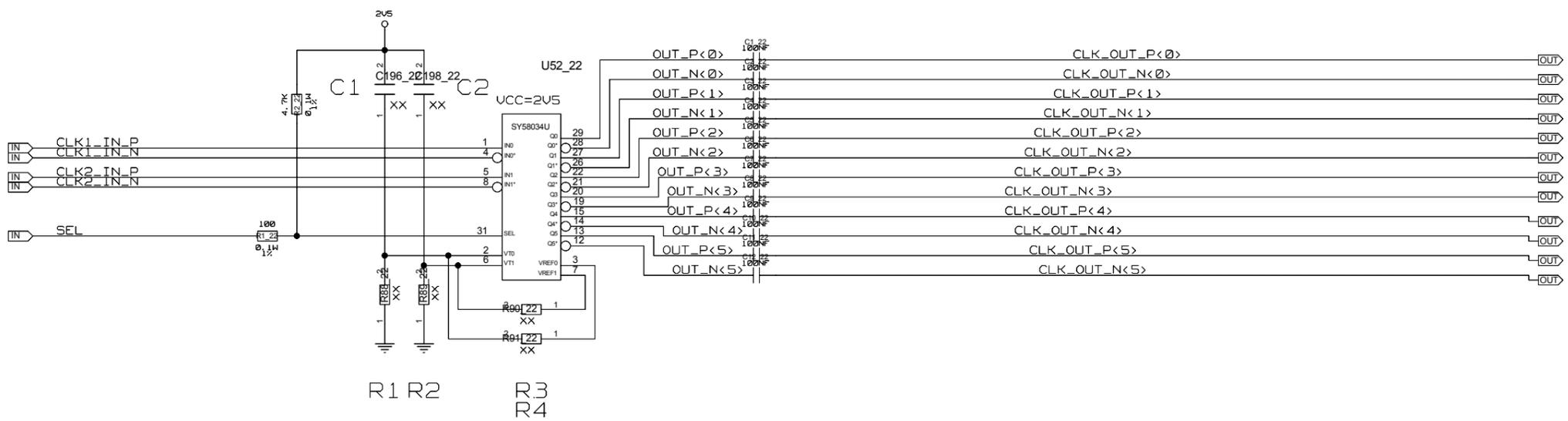


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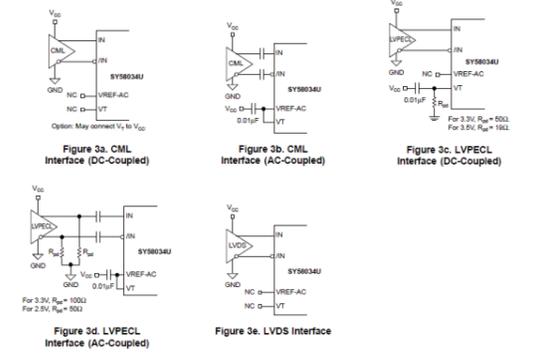


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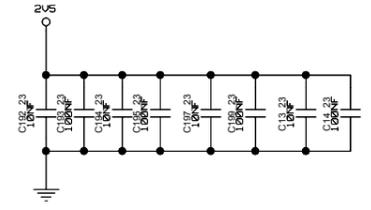
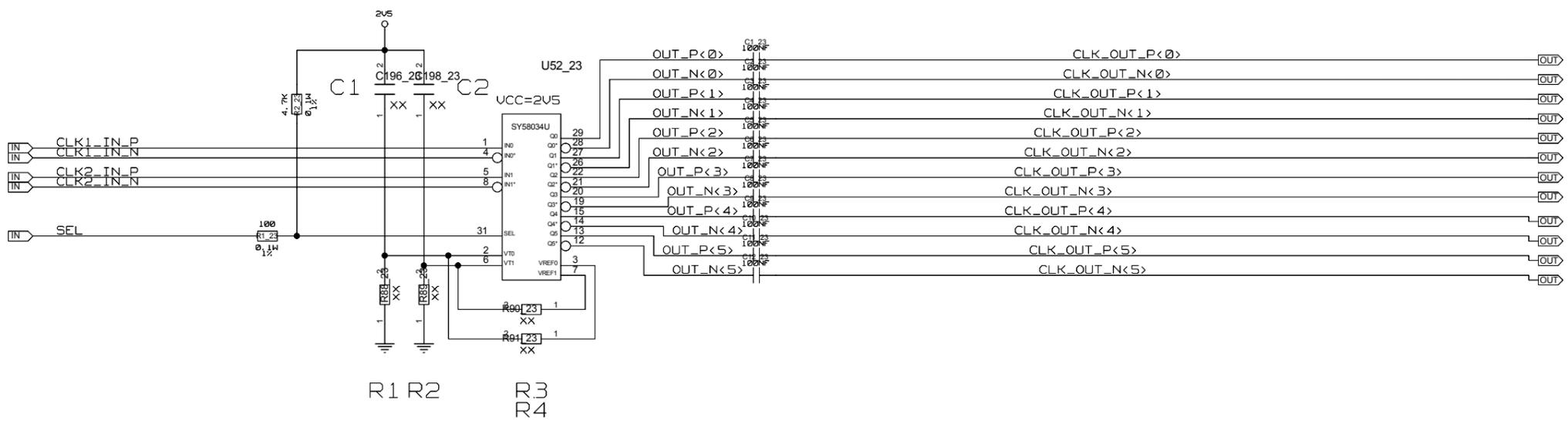


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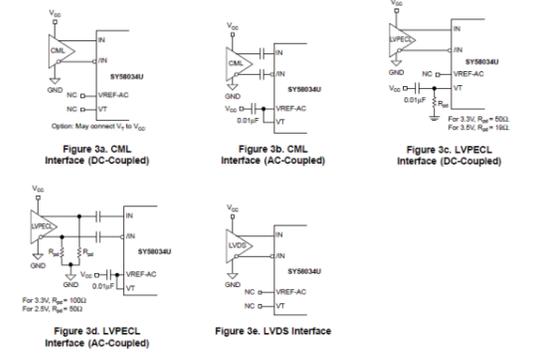


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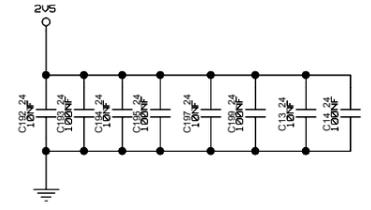
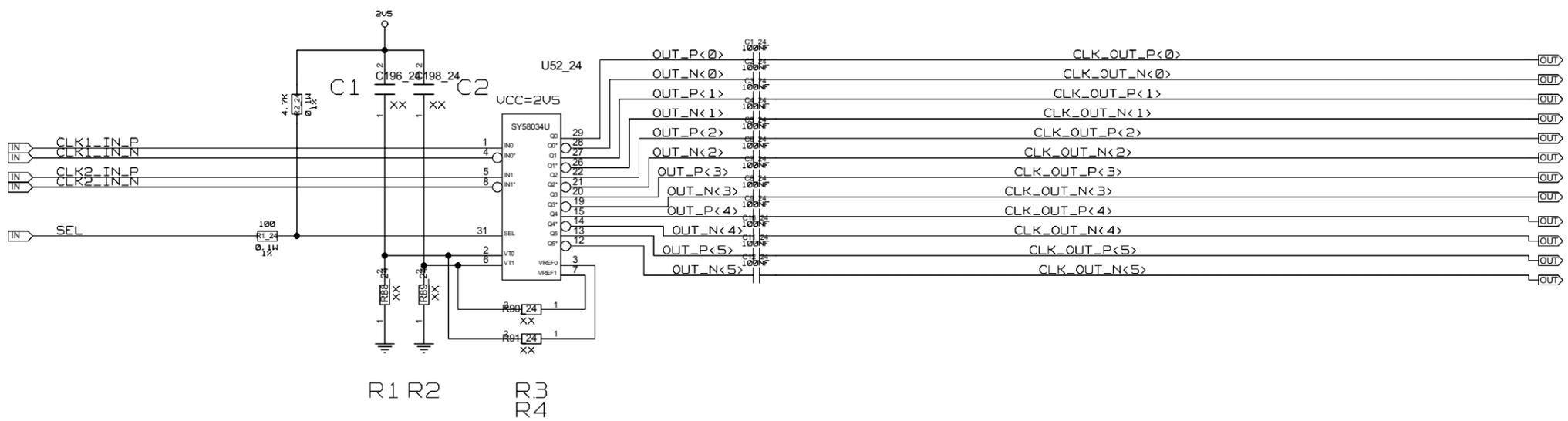


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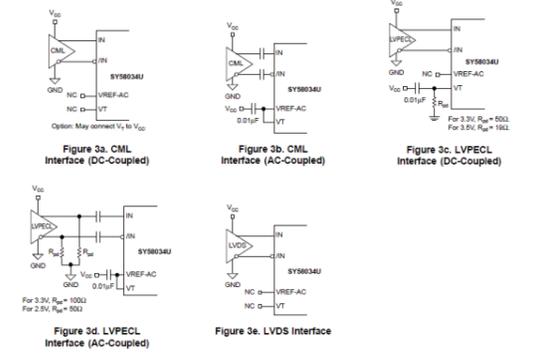


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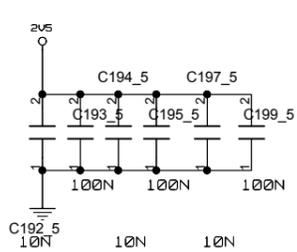
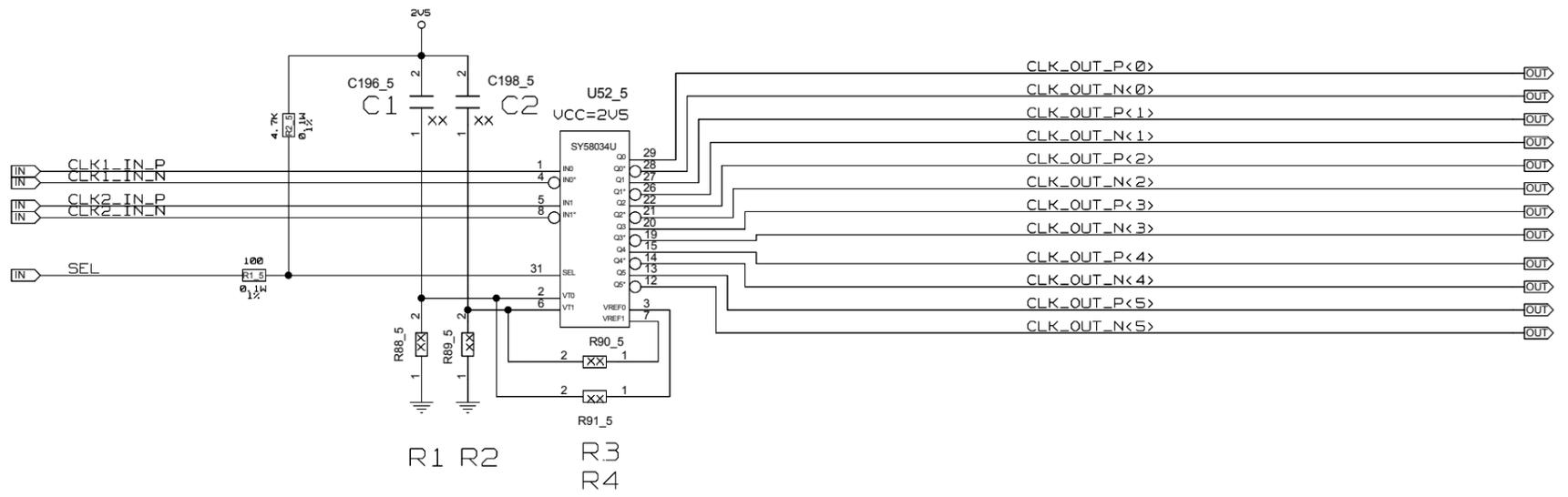


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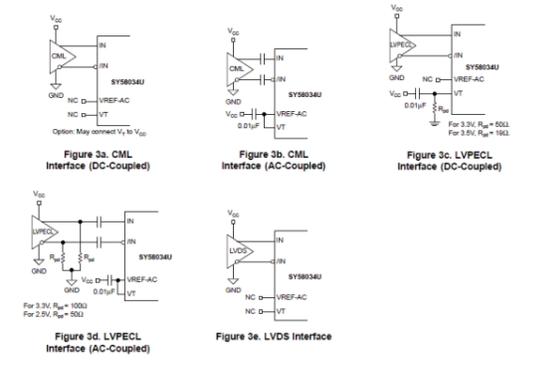


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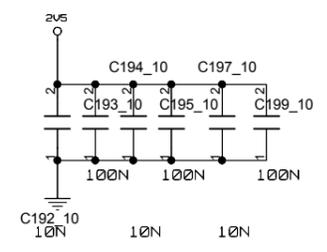
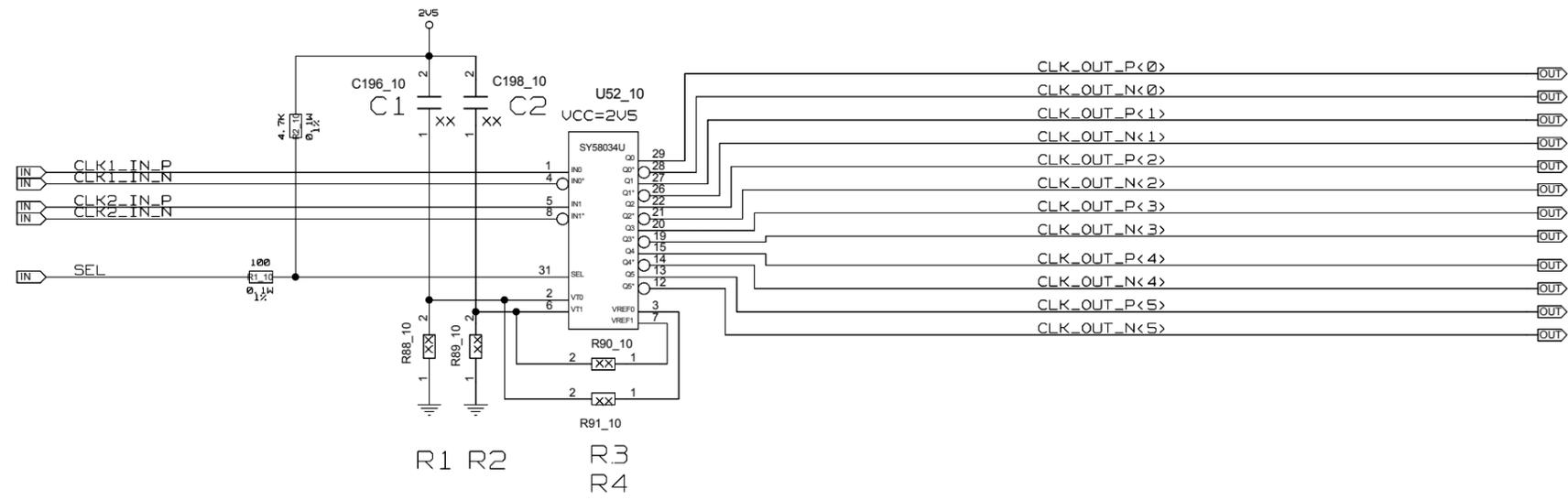


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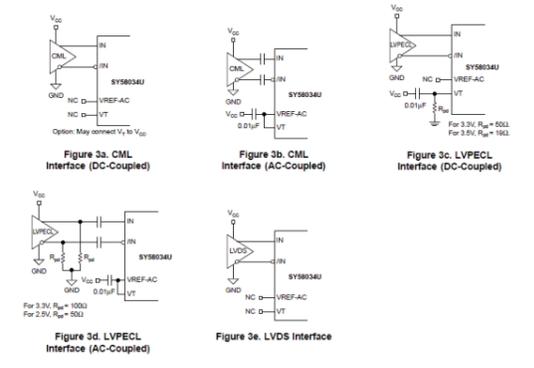


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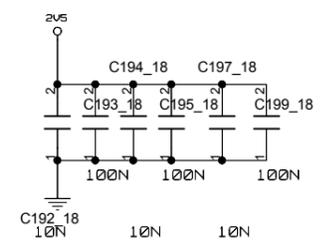
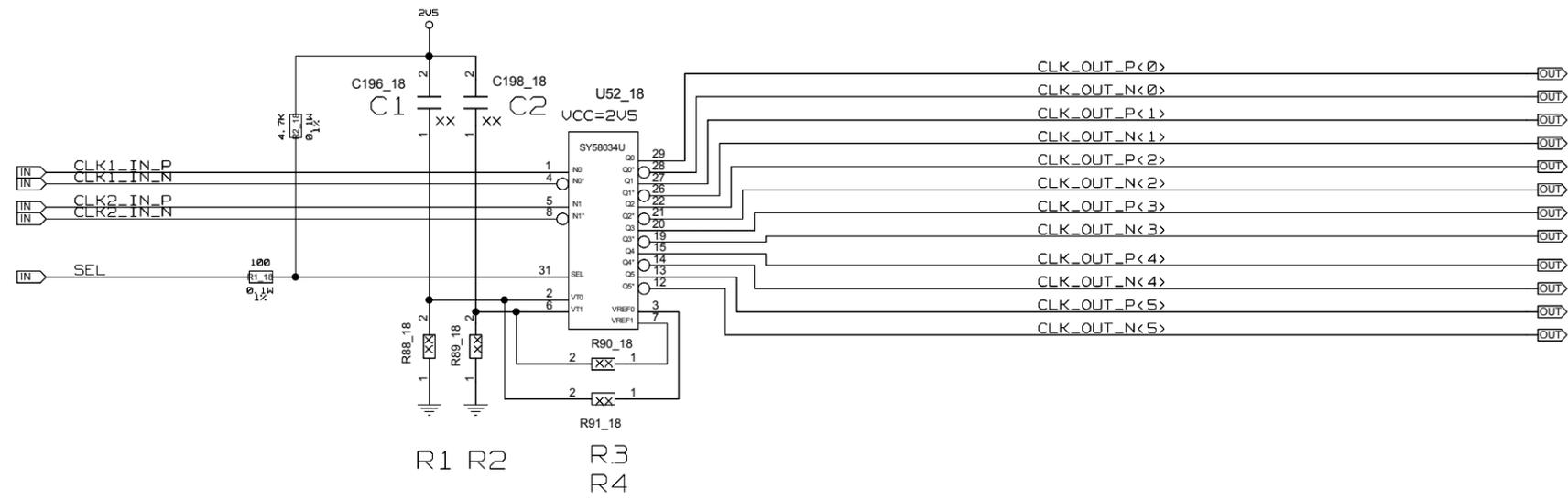


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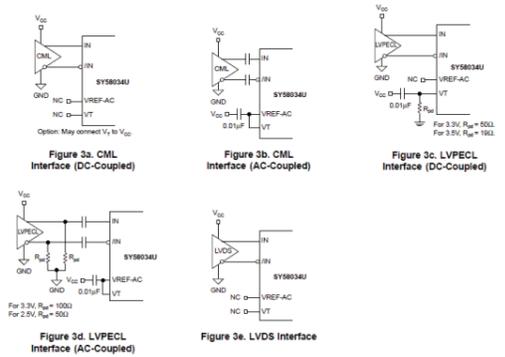


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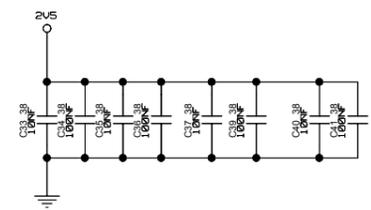
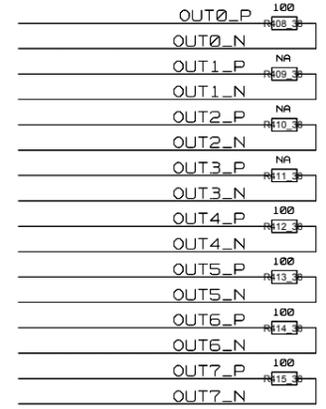
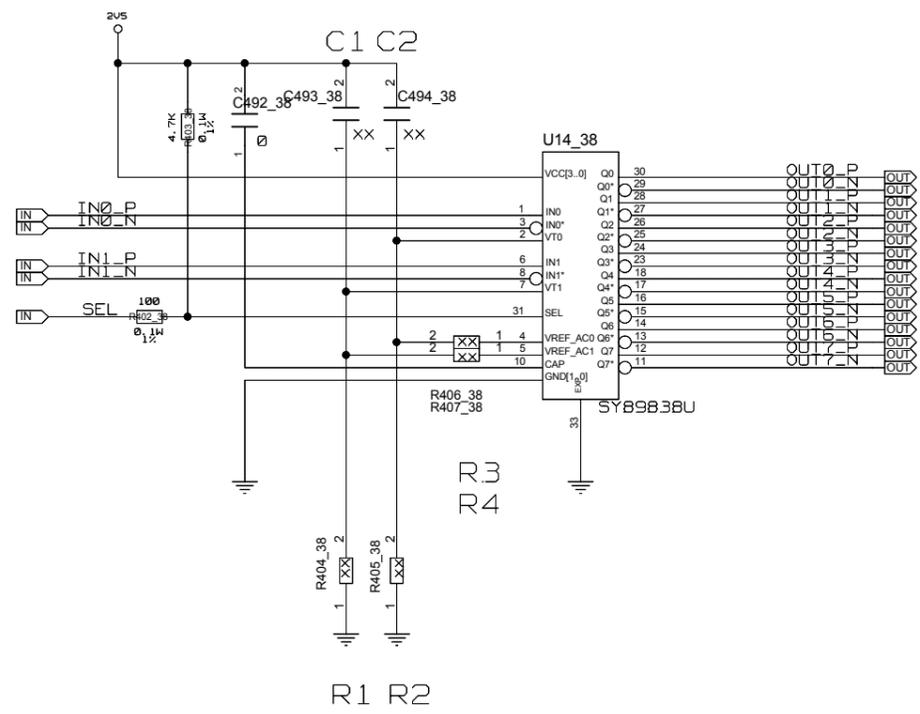


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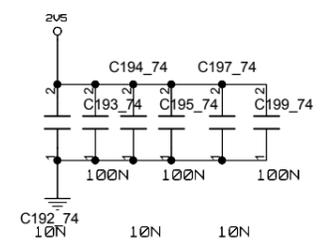
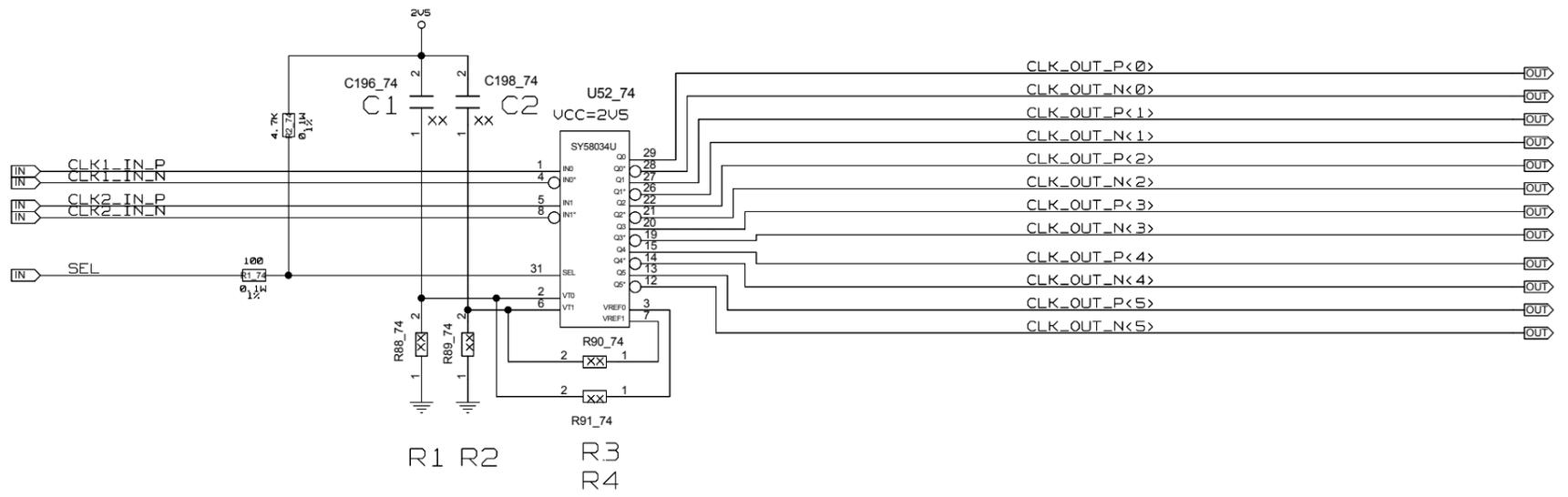
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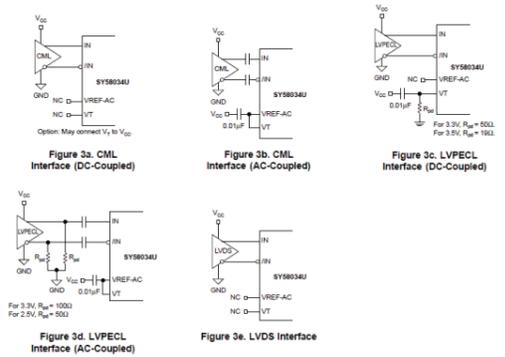


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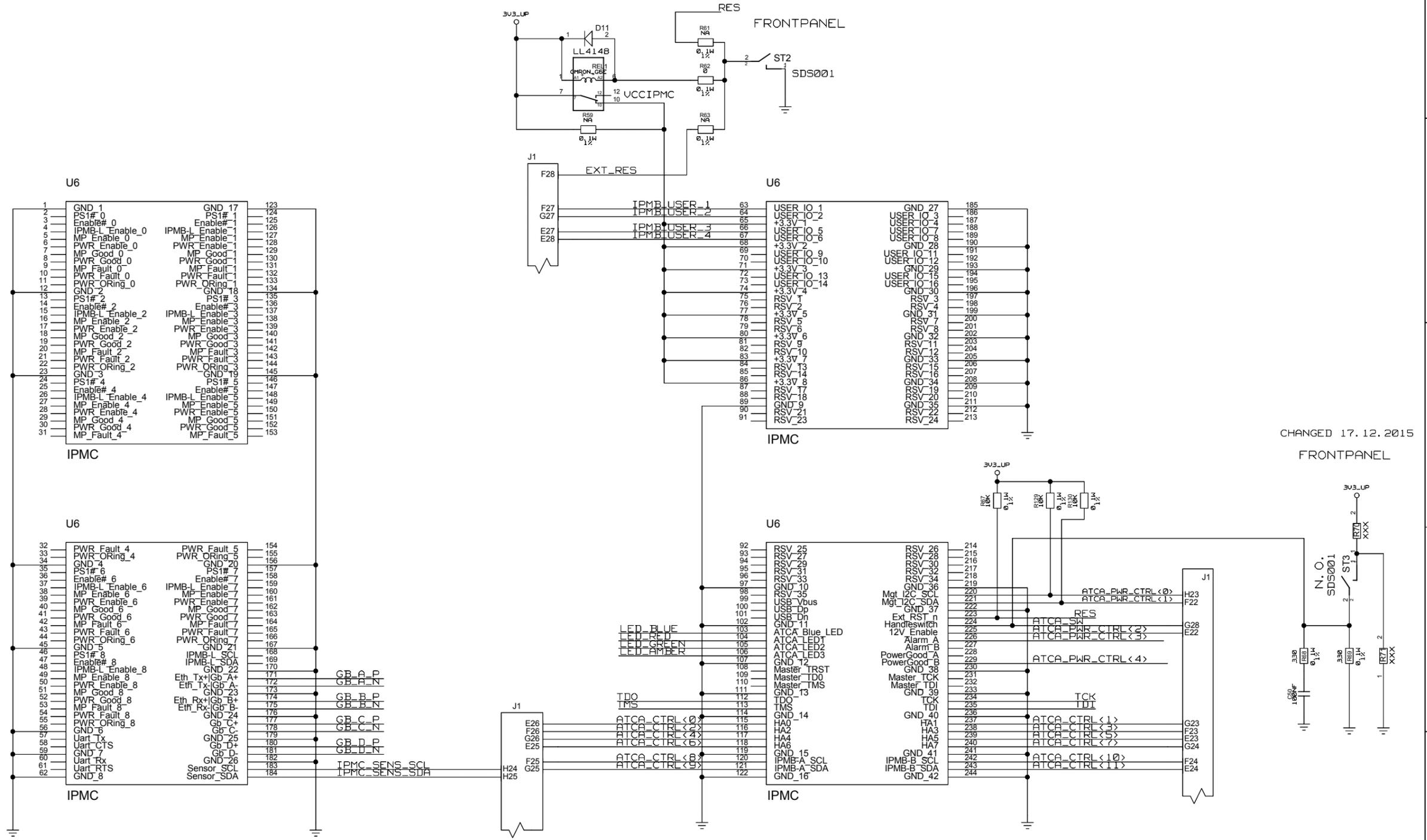
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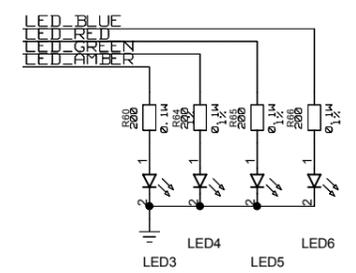
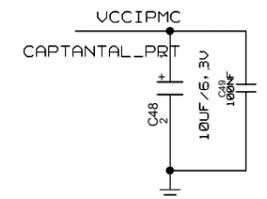
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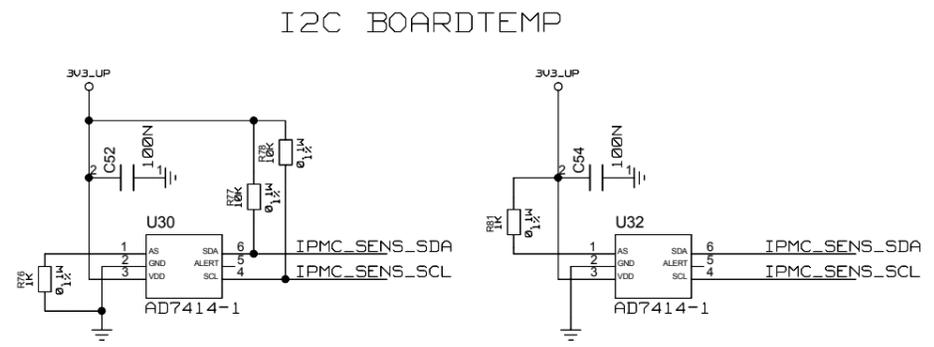
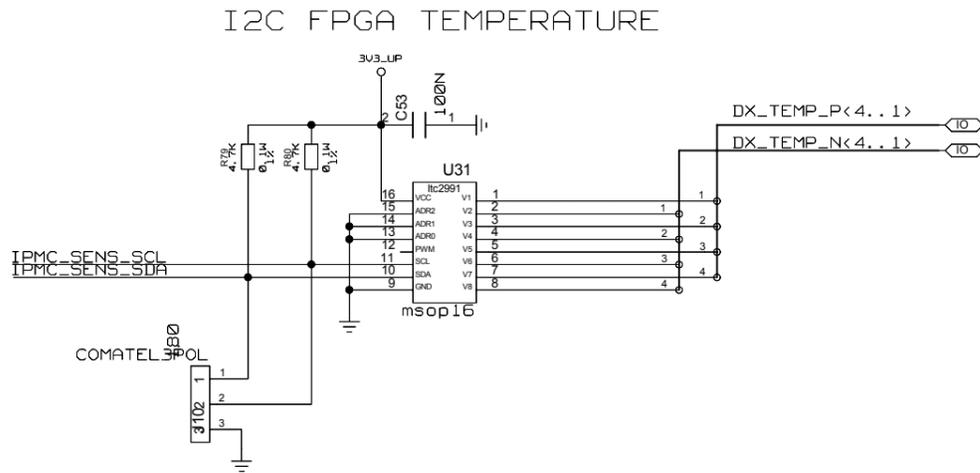
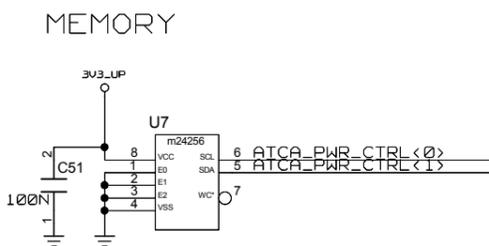
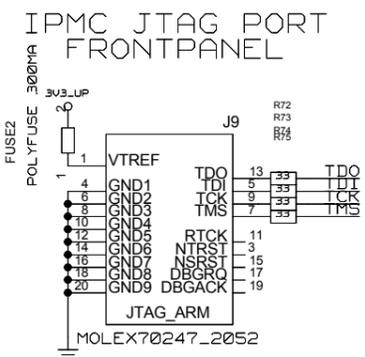
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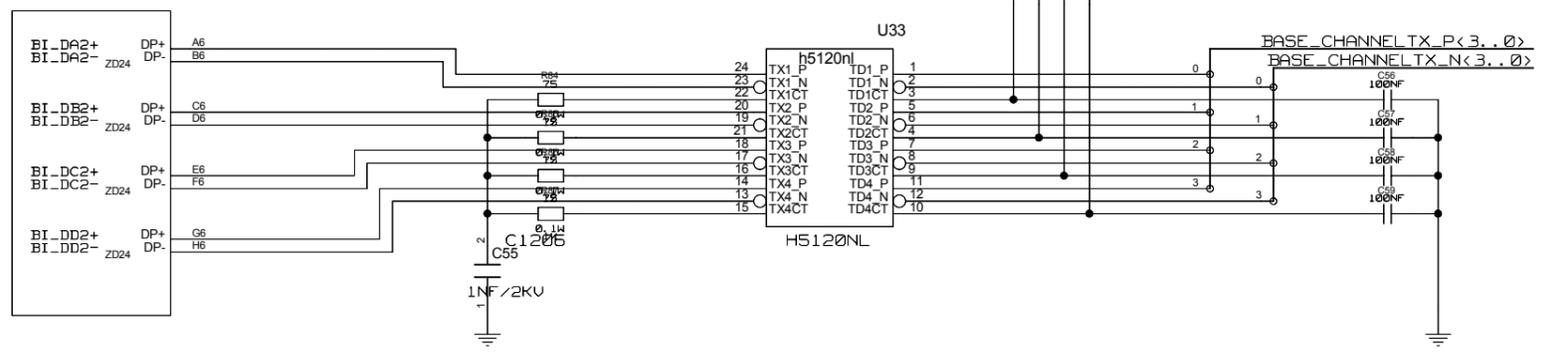
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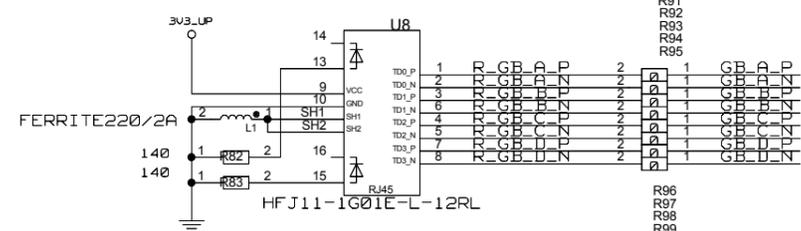
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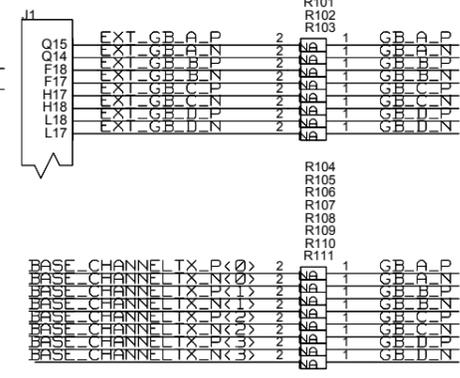
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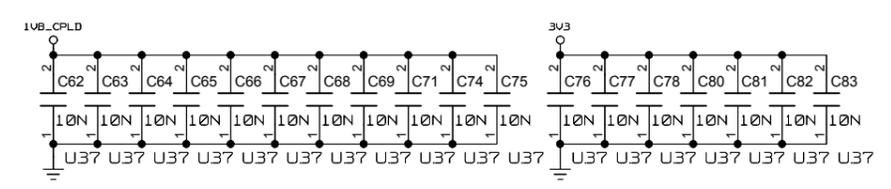
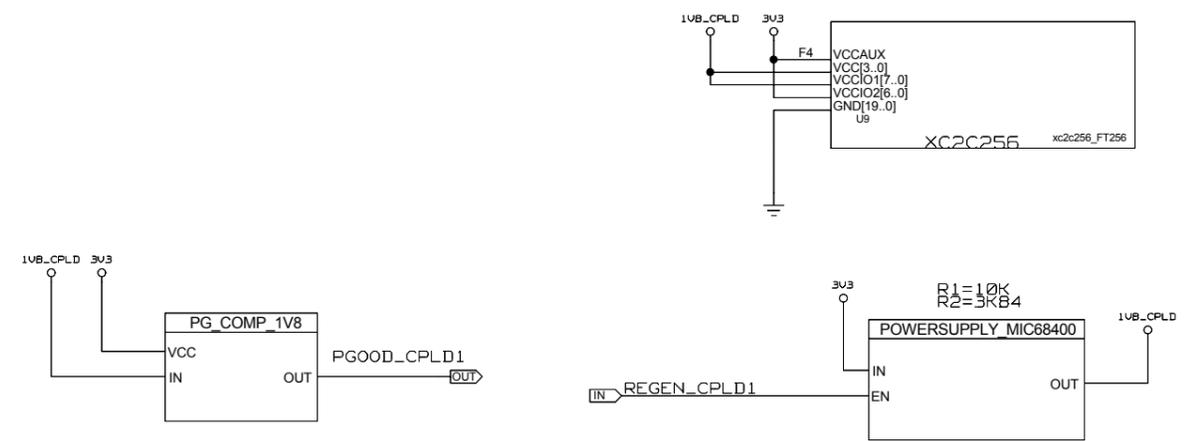
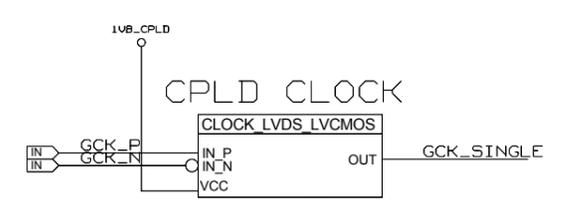
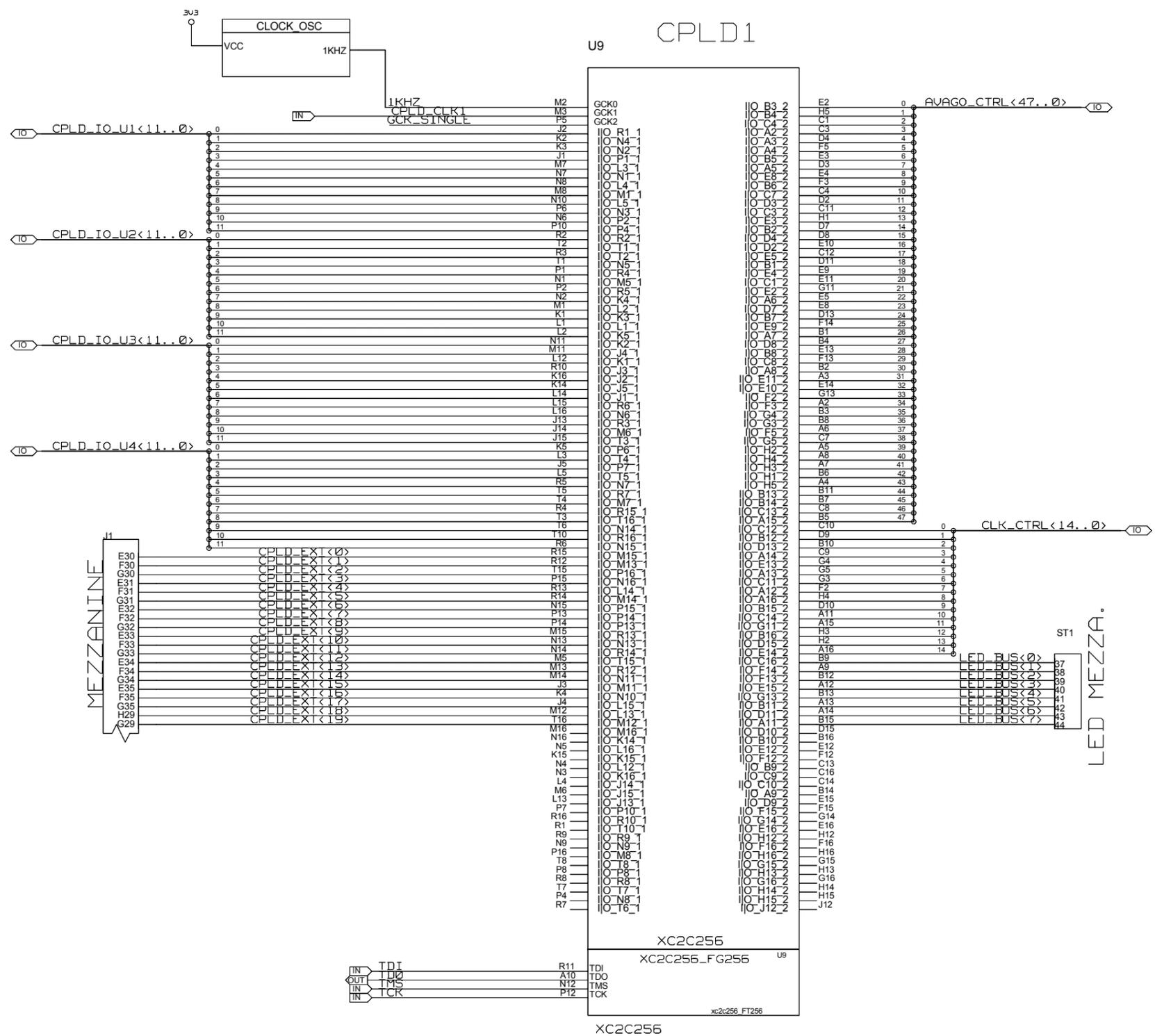
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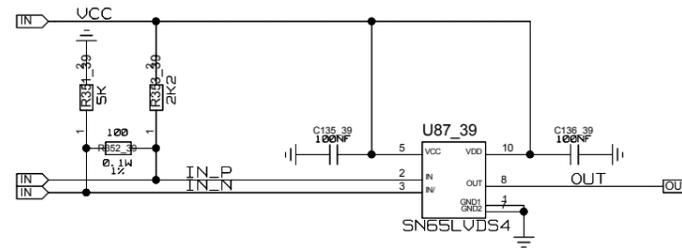
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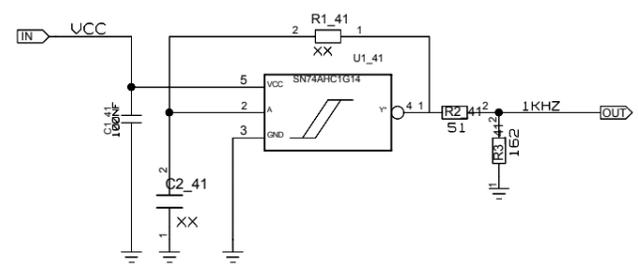
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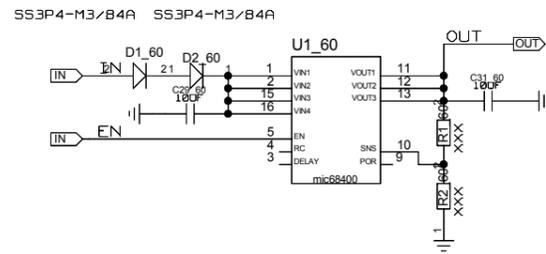
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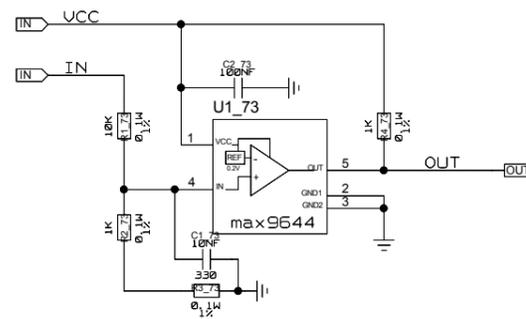
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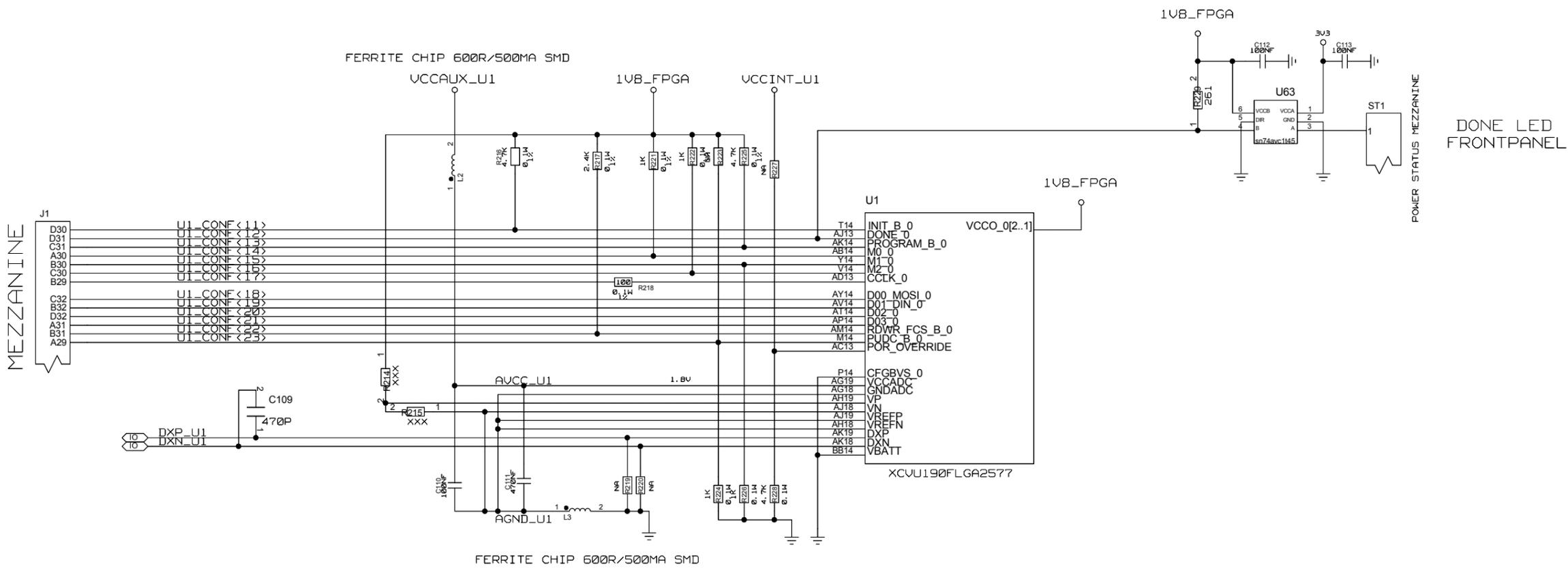
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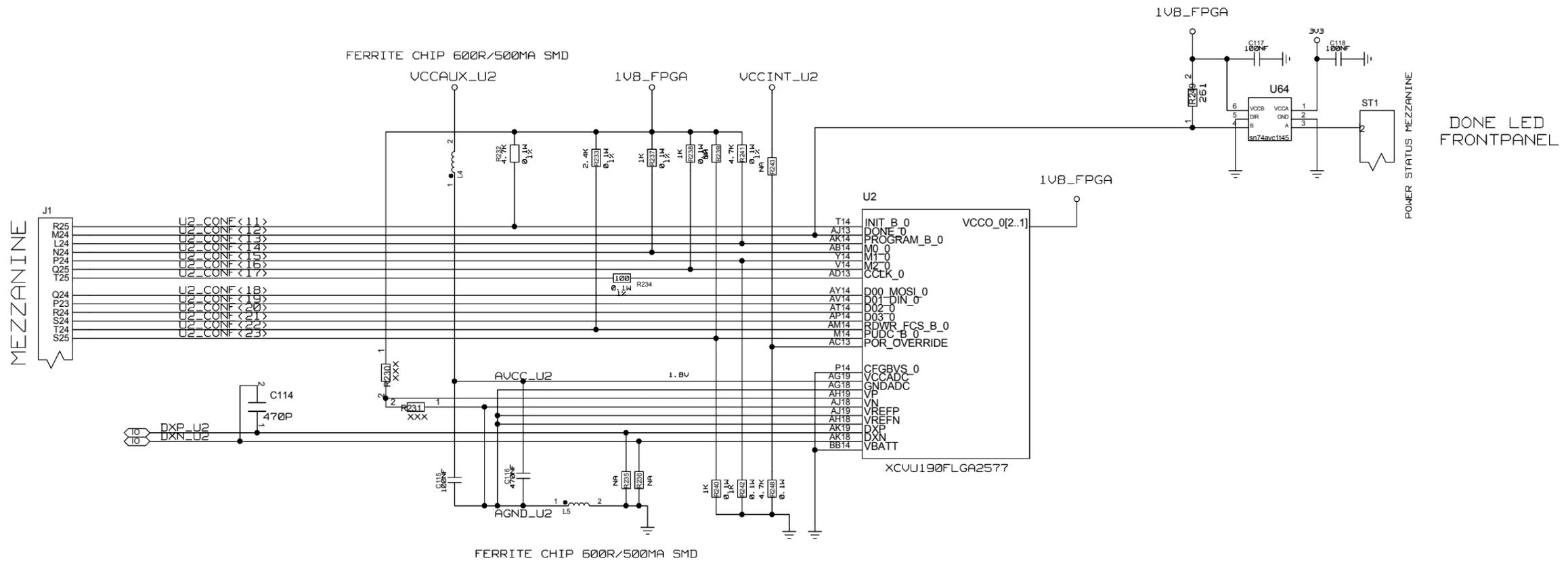
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				SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



CHECKED	NAME	DATE	SIGN	DRAWING TITLE <h1>JFEX</h1>
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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	17.09.2015		
BLOCK TITLE CONFIGURATION PROCESSOR U1				SIZE C
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SCALE				DRAWING NO.
SHEET 1 OF 1				

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

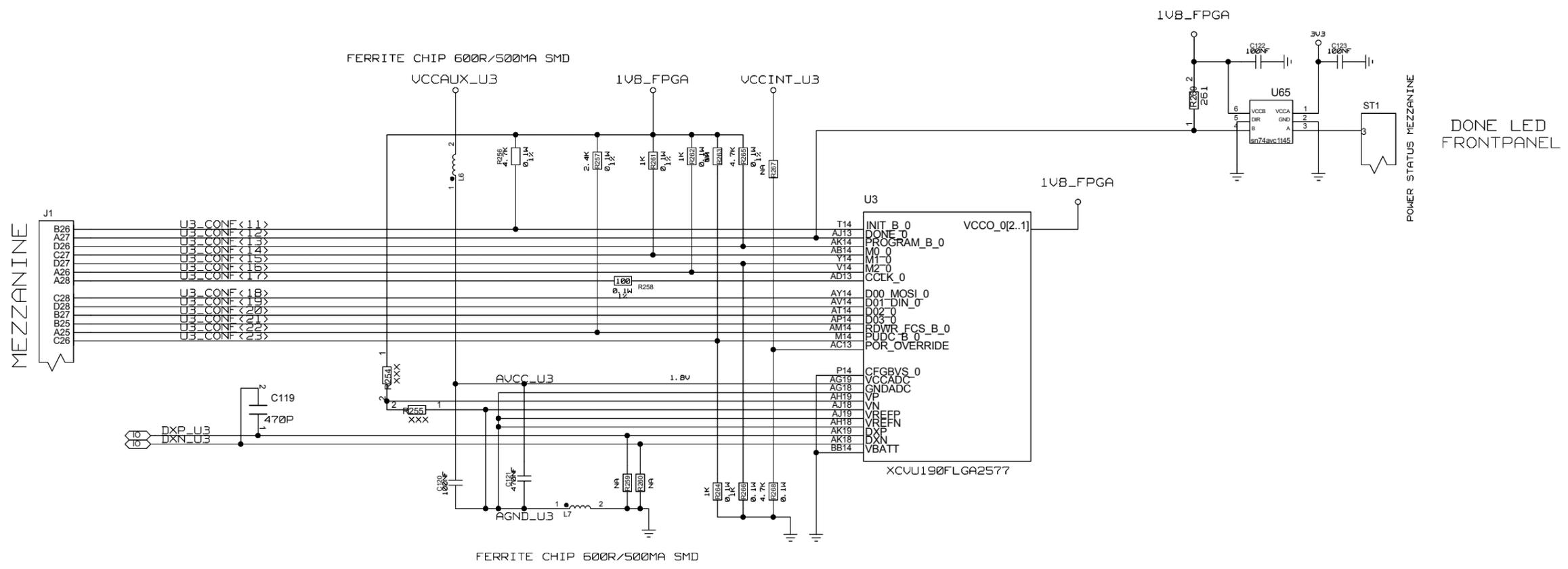


DONE LED
FRONTPANEL

POWER STATUS MEZZANINE

NAME	DATE	SIGN	DRAWING TITLE	
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CHECKED U.SCHAEFER				
CHECKED S.RAVE				
DRAWN BAUSS				
BLOCK TITLE			SIZE	DRAWING NO.
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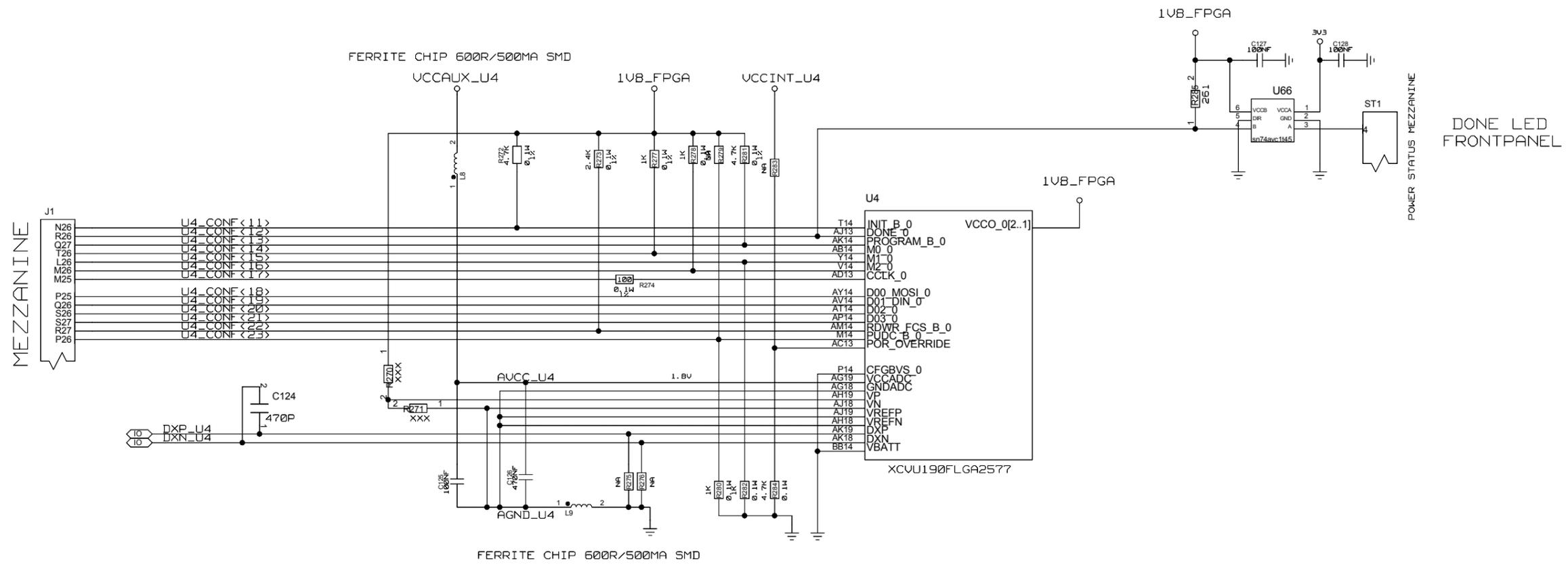


DONE LED FRONTPANEL

POWER STATUS MEZZANINE

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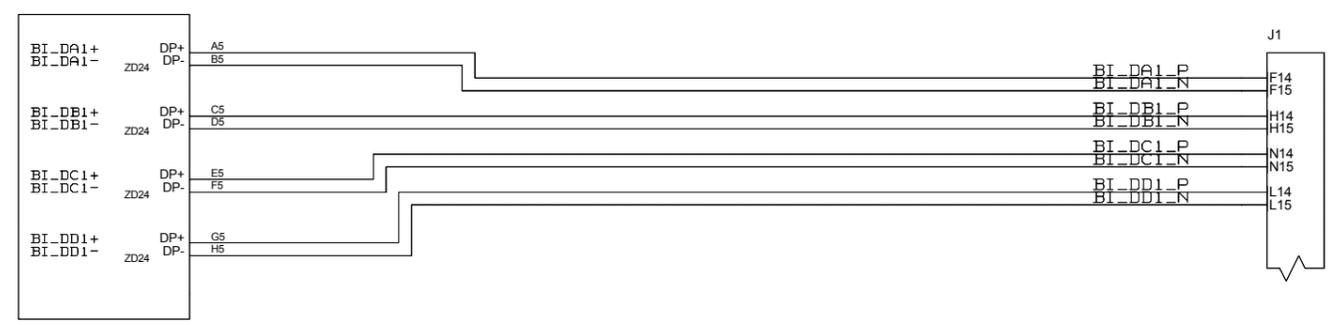


CHECKED	NAME	DATE	SIGN	DRAWING TITLE	
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CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS				
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UNIVERSITY OF MAINZ				C	
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				SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

BACKPLANE BASE CHANNEL 1

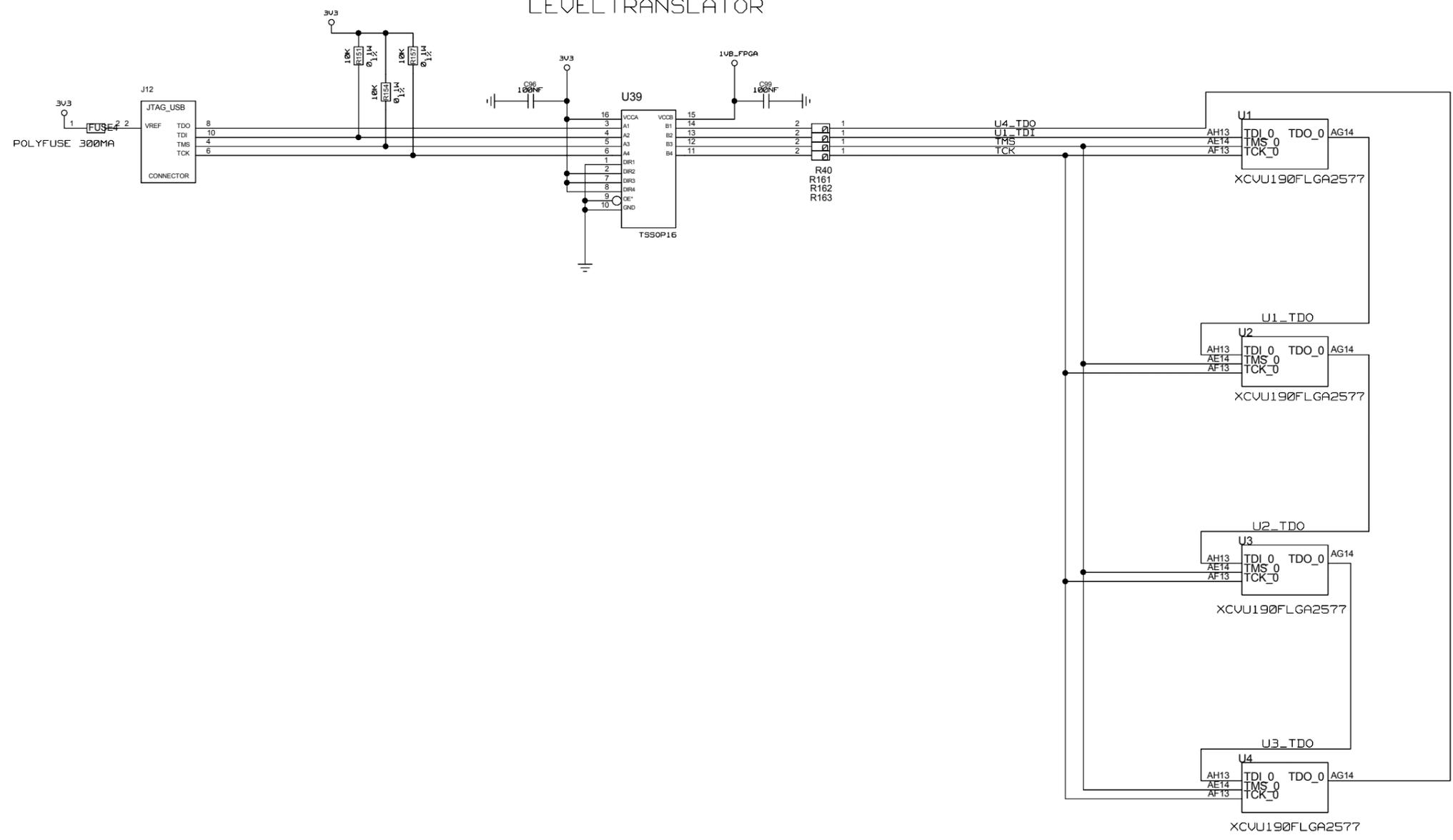
MEZZANINE



CHECKED	J. V. DE SOUZA			DRAWING TITLE IPBUS
CHECKED	U. SCHAEFER			
CHECKED	S. RAVE			
DRAWN	BAUSS	05. 11. 2015		
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UNIVERSITY OF MAINZ				SIZE C
				REV.
				DRAWING NO.
				SCALE
				SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

LEVEL TRANSLATOR



CHECKED	J. V.DE SOUZA	DATE	SIGN	DRAWING TITLE <h1>JTAG CHAIN</h1>
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	08.06.2017		
BLOCK TITLE <h2>JTAG</h2>				
UNIVERSITY OF MAINZ		SIZE C	REV.	DRAWING NO.
SCALE				SHEET OF