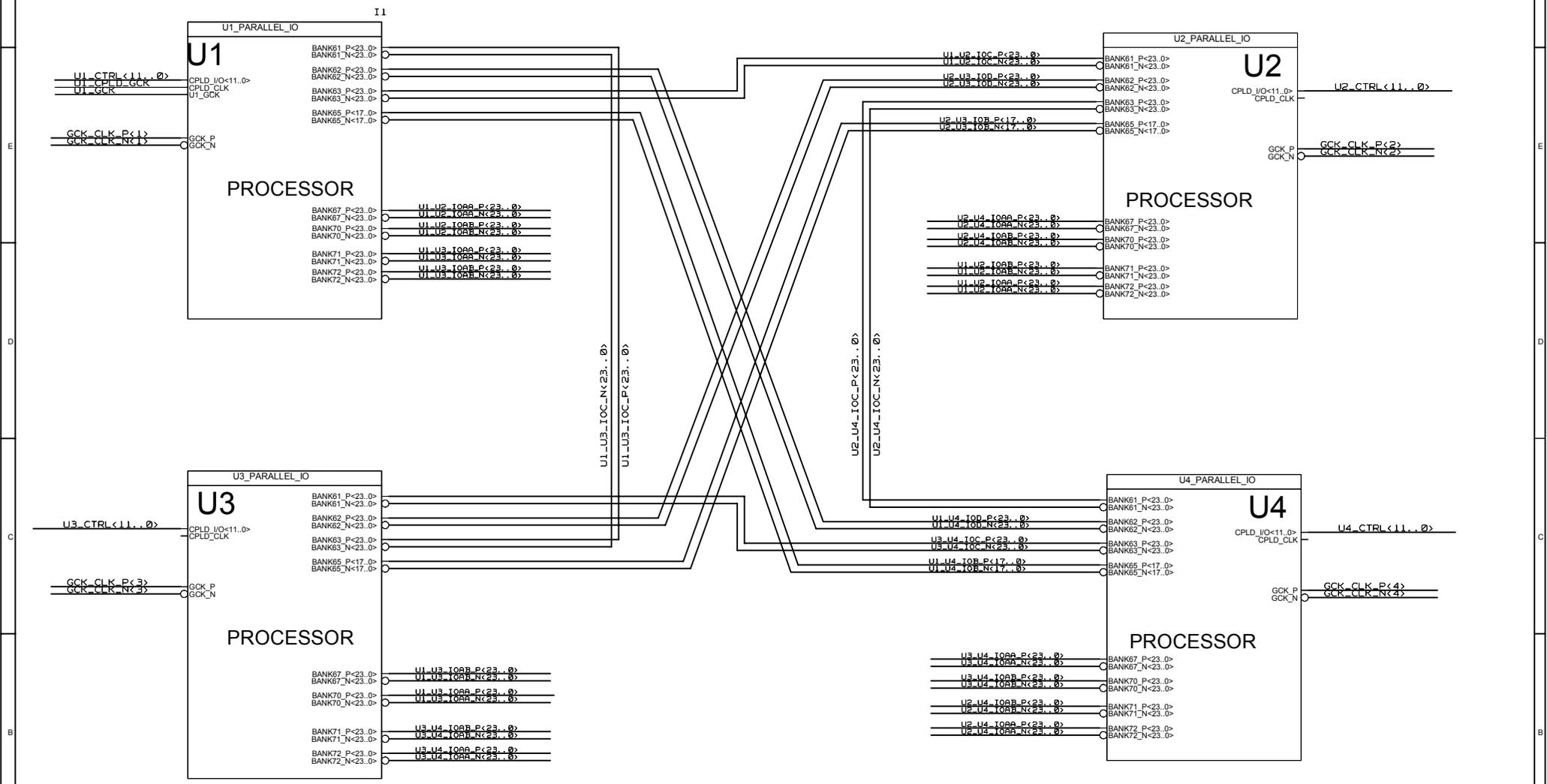
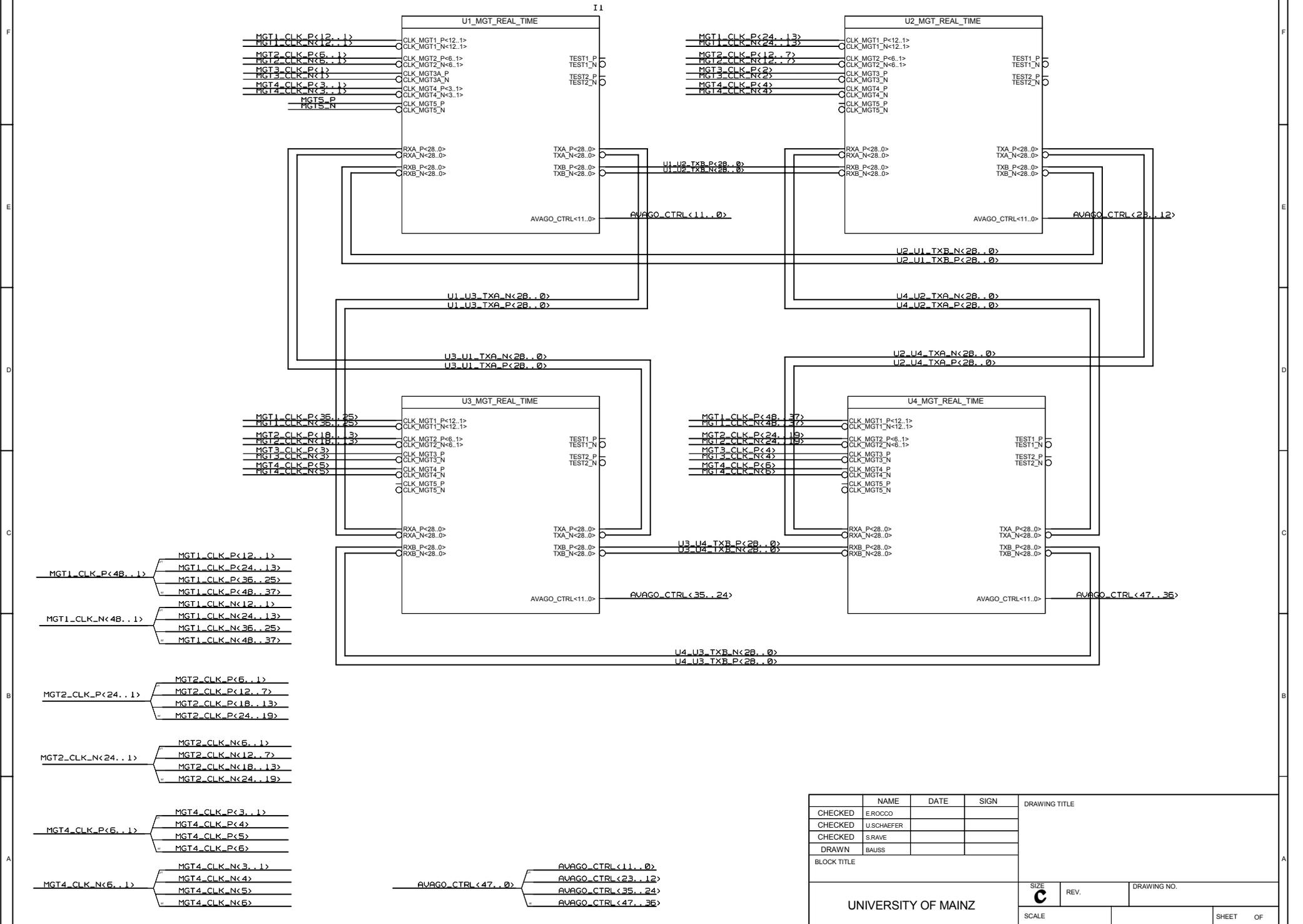


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ZONE	LTR	DESCRIPTION	DATE	APPR.



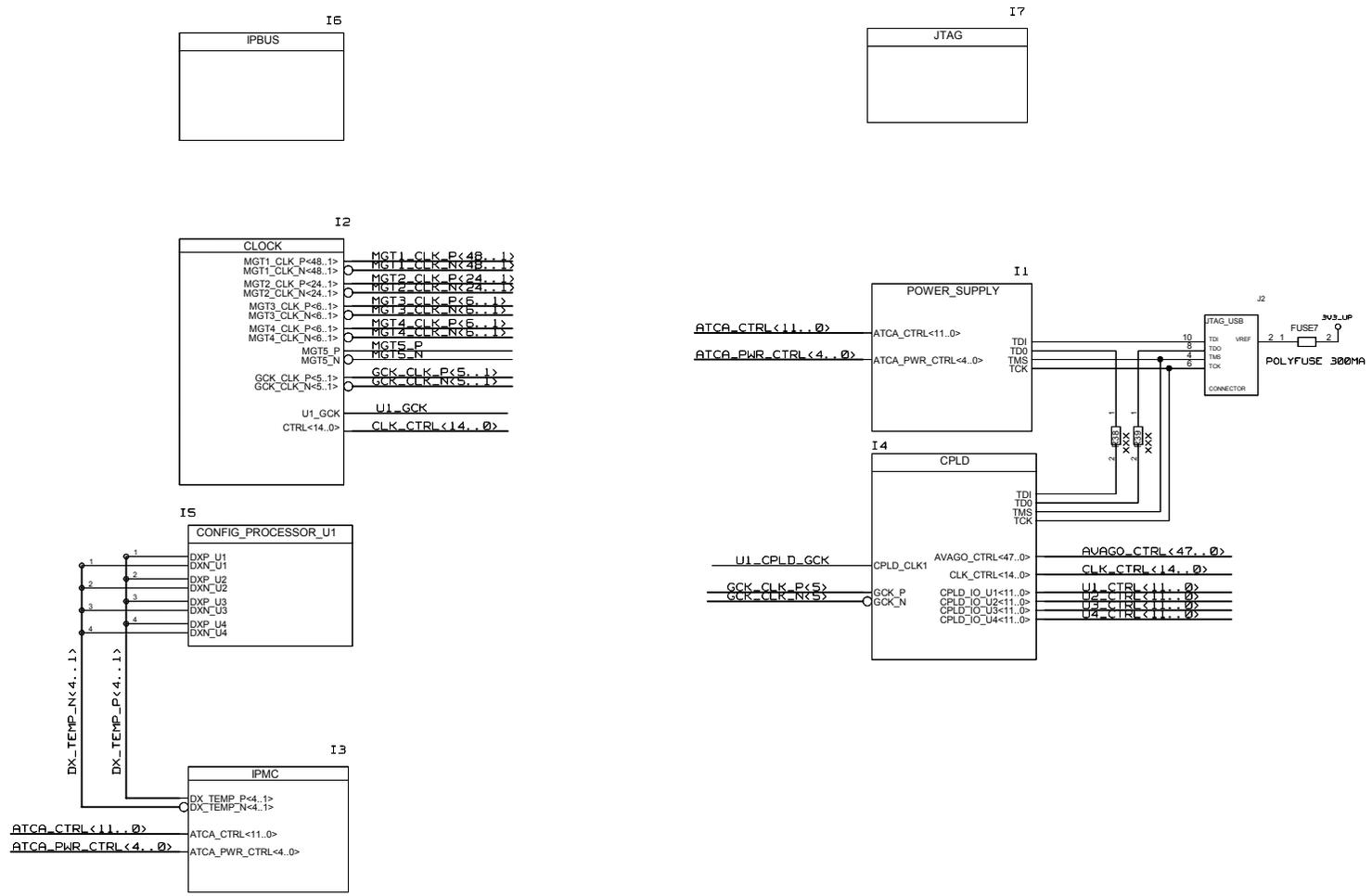
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CHECKED	S.RAVE				
DRAWN	BAUSS				
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ZONE	LTR	DESCRIPTION	DATE	APPR.



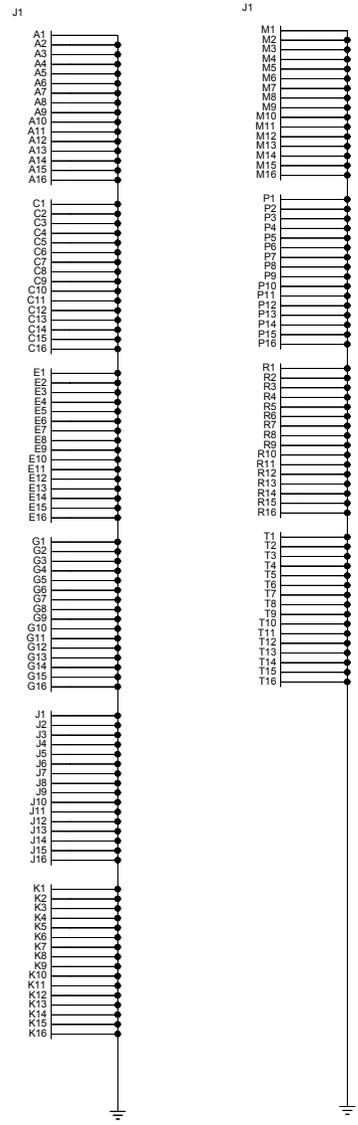
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



NAME	DATE	SIGN	DRAWING TITLE	
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CHECKED U.SCHAEFER				
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			SCALE	SHEET OF

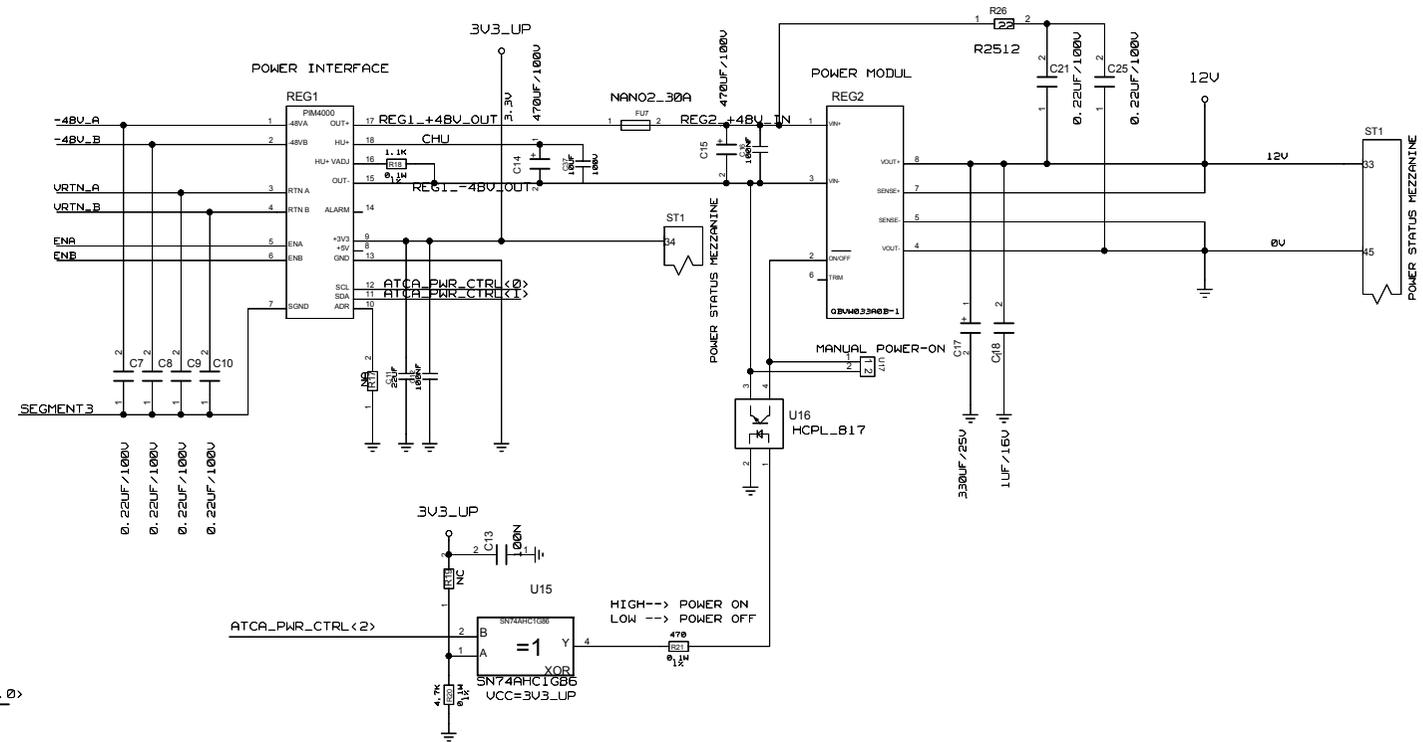
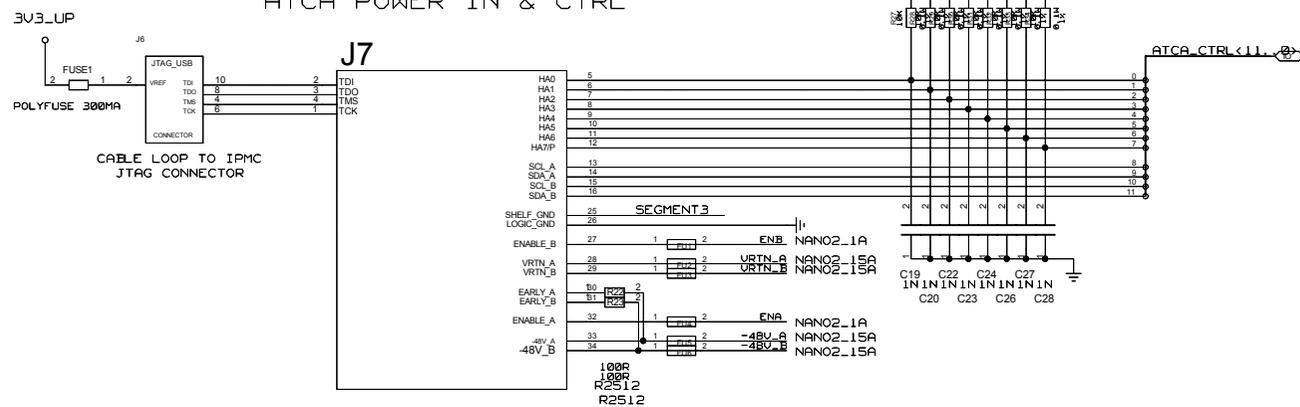
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ZONE	LTR	DESCRIPTION	DATE	APPR.



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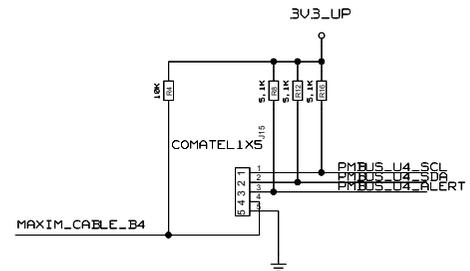
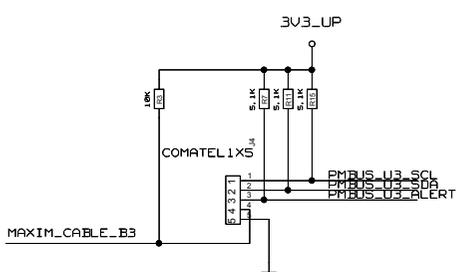
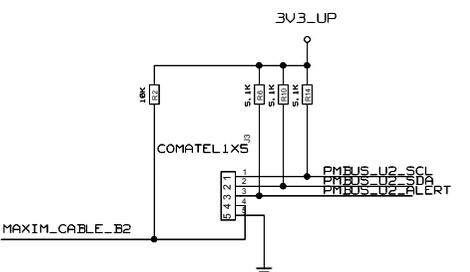
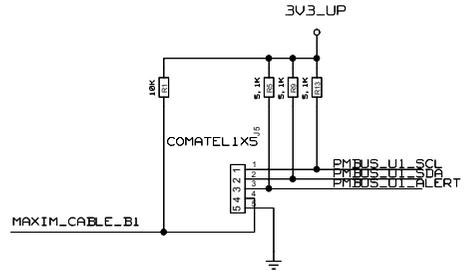


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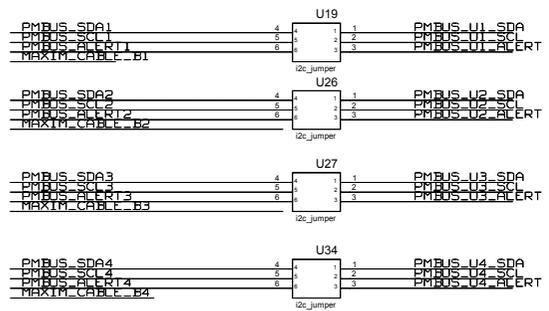


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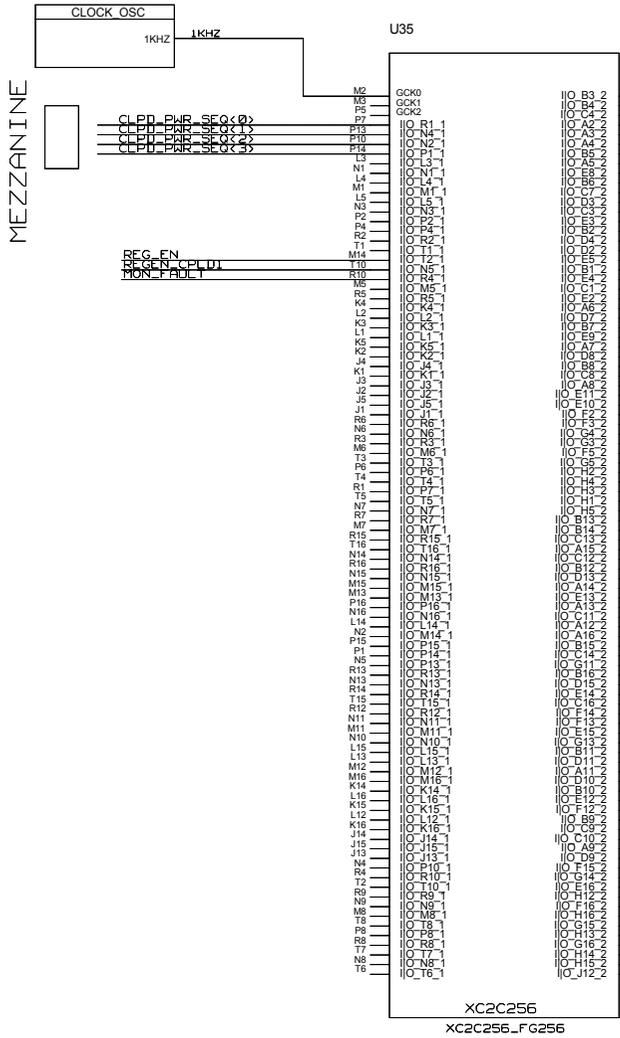
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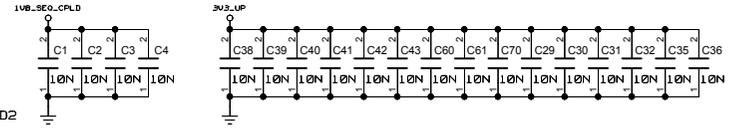
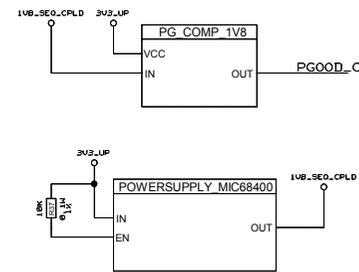
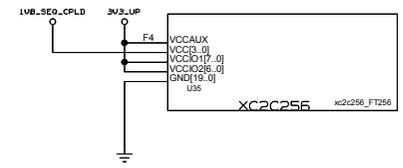
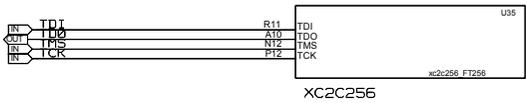
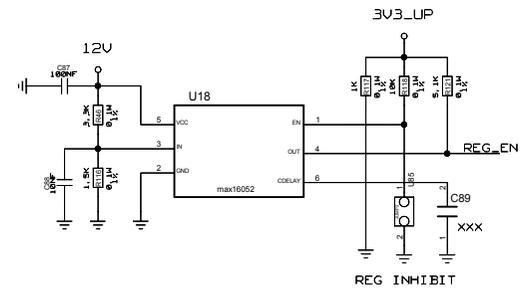
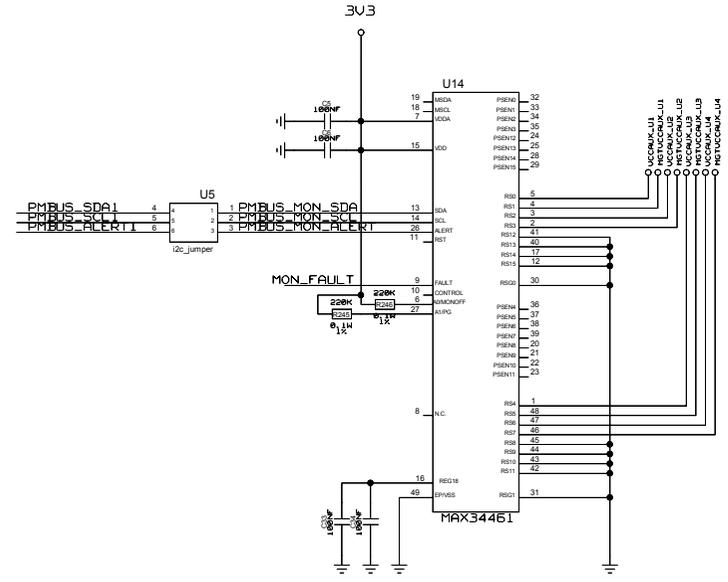
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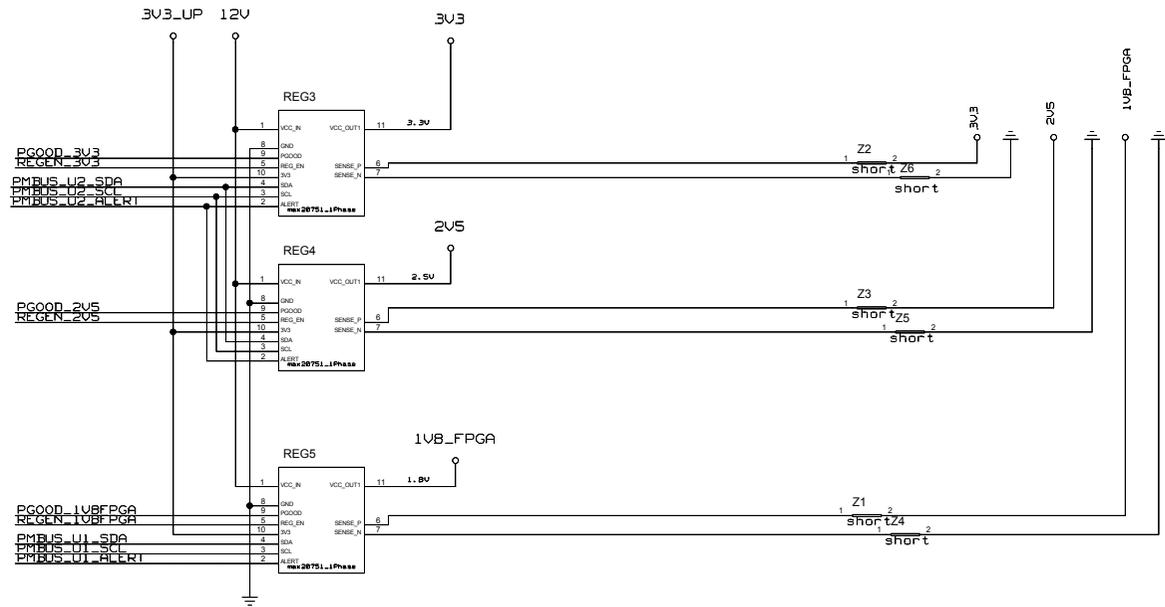


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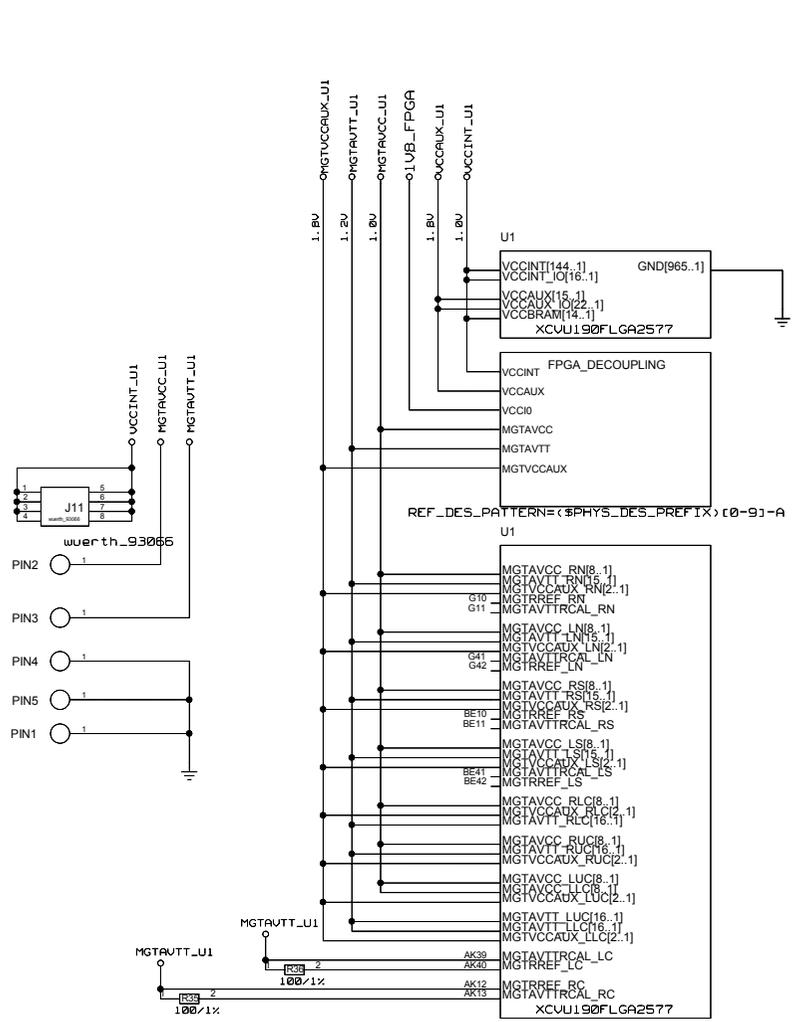
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CHECKED	S.RAVE		
DRAWN	BAUSS		
BLOCK TITLE			
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UNIVERSITY OF MAINZ			
SIZE	REV.	DRAWING NO.	
<b>C</b>			
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

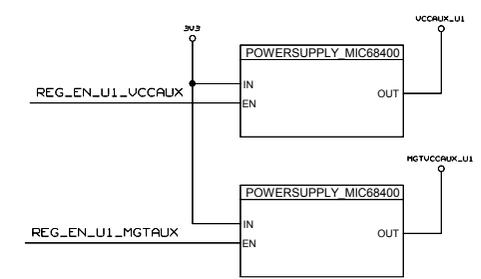
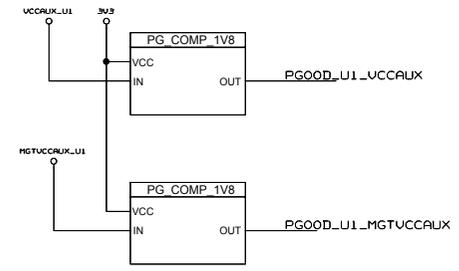
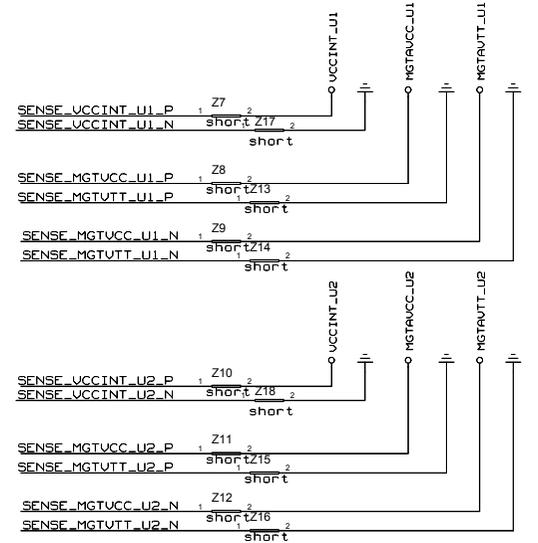


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DRAWN	BAUSS			
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UNIVERSITY OF MAINZ		SIZE <b>C</b>	REV.	DRAWING NO.
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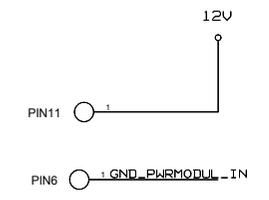
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ZONE	LTR	DESCRIPTION	DATE	APPR.



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



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2	UCCAUX_U1_N	2	UCCAUX_U1_N	2	UCCAUX_U1_N
3	MGTUCC_U1_P	3	MGTUCC_U1_P	3	MGTUCC_U1_P
4	MGTUCC_U1_N	4	MGTUCC_U1_N	4	MGTUCC_U1_N
5	MGTUCC_U2_P	5	MGTUCC_U2_P	5	MGTUCC_U2_P
6	MGTUCC_U2_N	6	MGTUCC_U2_N	6	MGTUCC_U2_N
7	UCCINT_U1_P	7	UCCINT_U1_P	7	UCCINT_U1_P
8	UCCINT_U1_N	8	UCCINT_U1_N	8	UCCINT_U1_N
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10	MGTUCC_U1_N	10	MGTUCC_U1_N	10	MGTUCC_U1_N
11	MGTUCC_U2_P	11	MGTUCC_U2_P	11	MGTUCC_U2_P
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14	UCCINT_U2_N	14	UCCINT_U2_N	14	UCCINT_U2_N
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16	MGTUCC_U1_N	16	MGTUCC_U1_N	16	MGTUCC_U1_N
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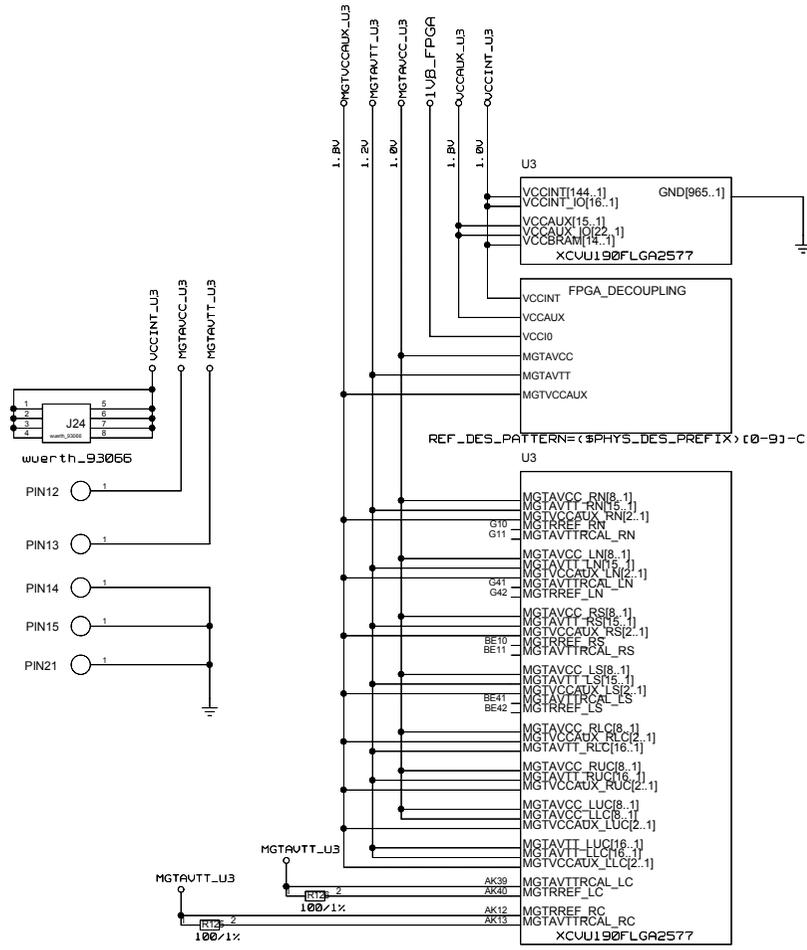


NAME	DATE	SIGN	DRAWING TITLE
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CHECKED	U.SCHAEFER		
CHECKED	S.RAVE		
DRAWN	BAUSS		
BLOCK TITLE			
POWERSUPPLY			
UNIVERSITY OF MAINZ			
SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET OF	

POWERSUPPLIES U1  
DECOUPLING U1

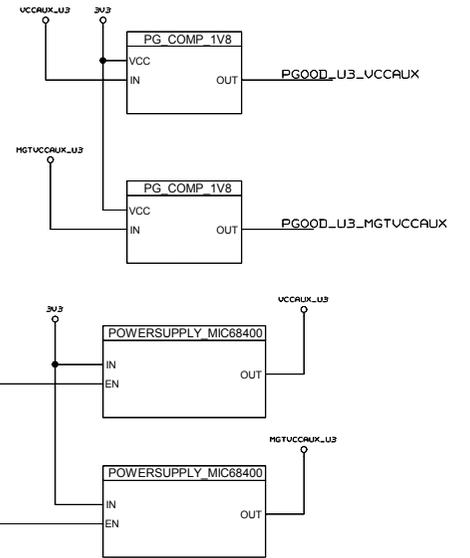
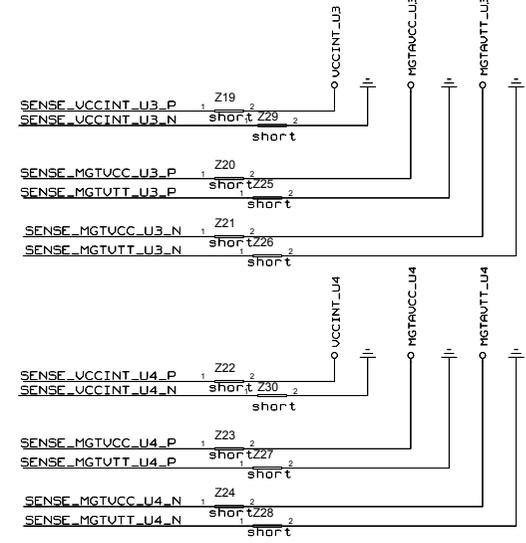


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ZONE	LTR	DESCRIPTION	DATE	APPR.



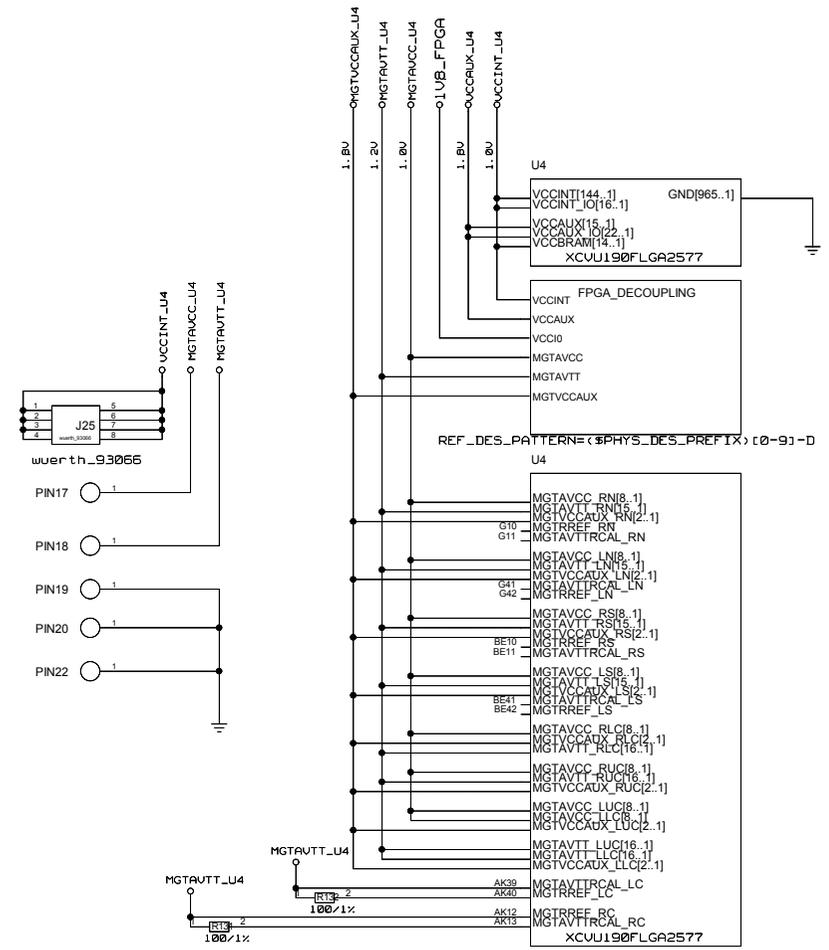
TRACE LENGTH FROM RESISTOR PINS  
TO PIN SAME LENGTH  
UG576 SHEET 297

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SENSE_MGTUVT_U3_P	18	SENSE_MGTUVT_U3_N	3
EMBUS_U3_SHA	19	EMBUS_U3_SHA	4
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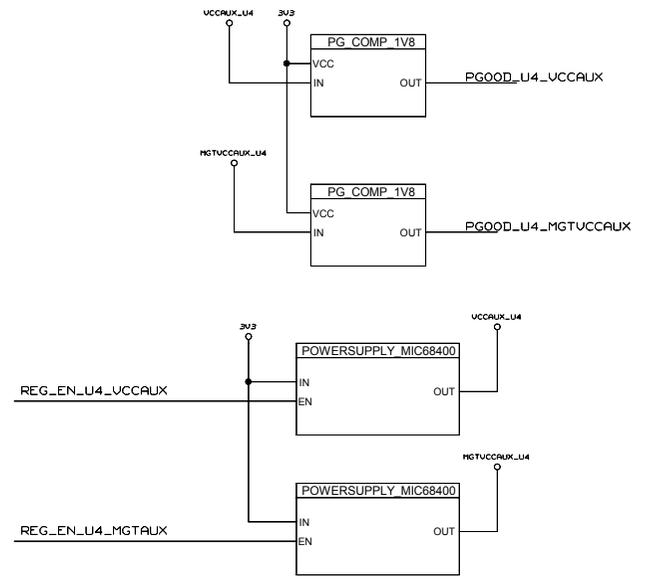


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CHECKED	S.RAVE		
DRAWN	BAUSS		
BLOCK TITLE			
POWERSUPPLY			
UNIVERSITY OF MAINZ	SIZE	REV.	DRAWING NO.
	C		
SCALE			SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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



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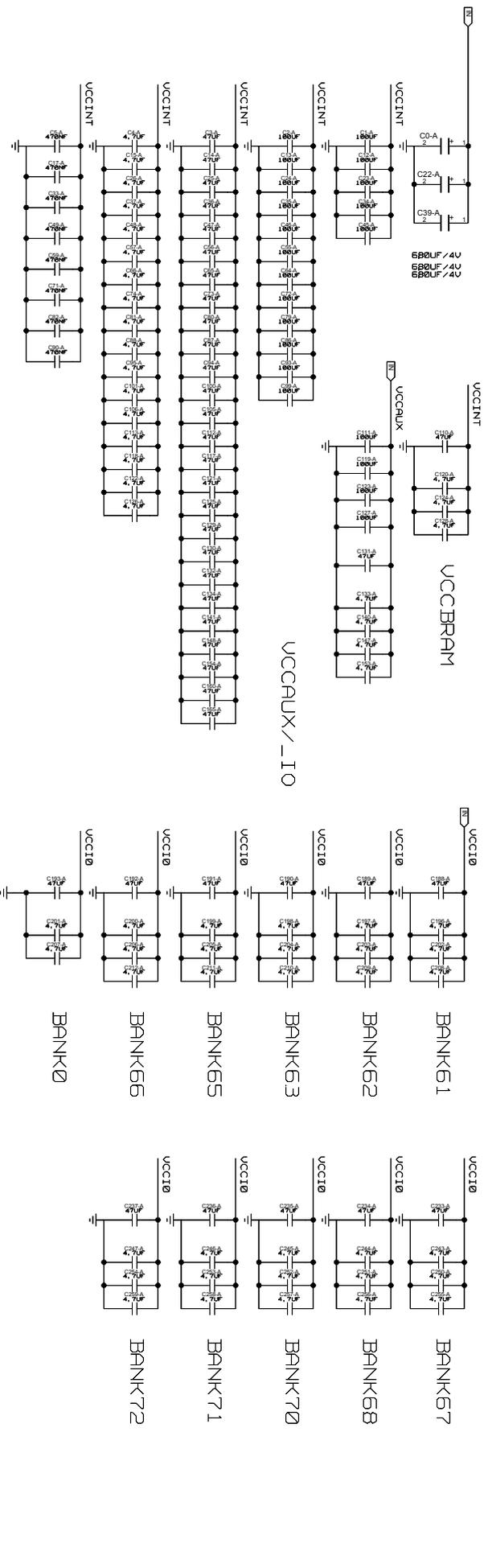
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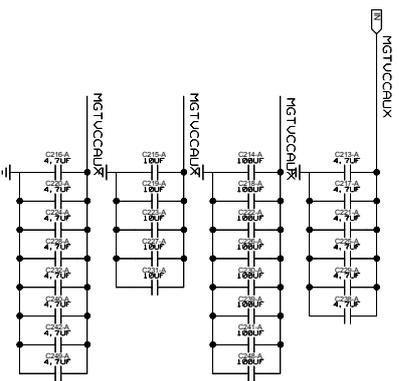
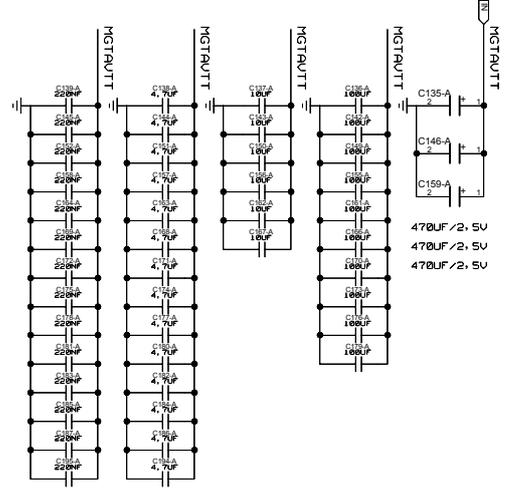
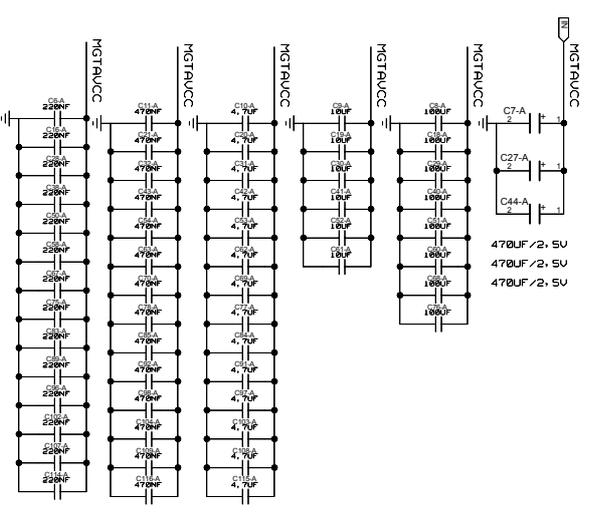
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ZONE	TR	DESCRIPTION	



MGT DECOUPLING



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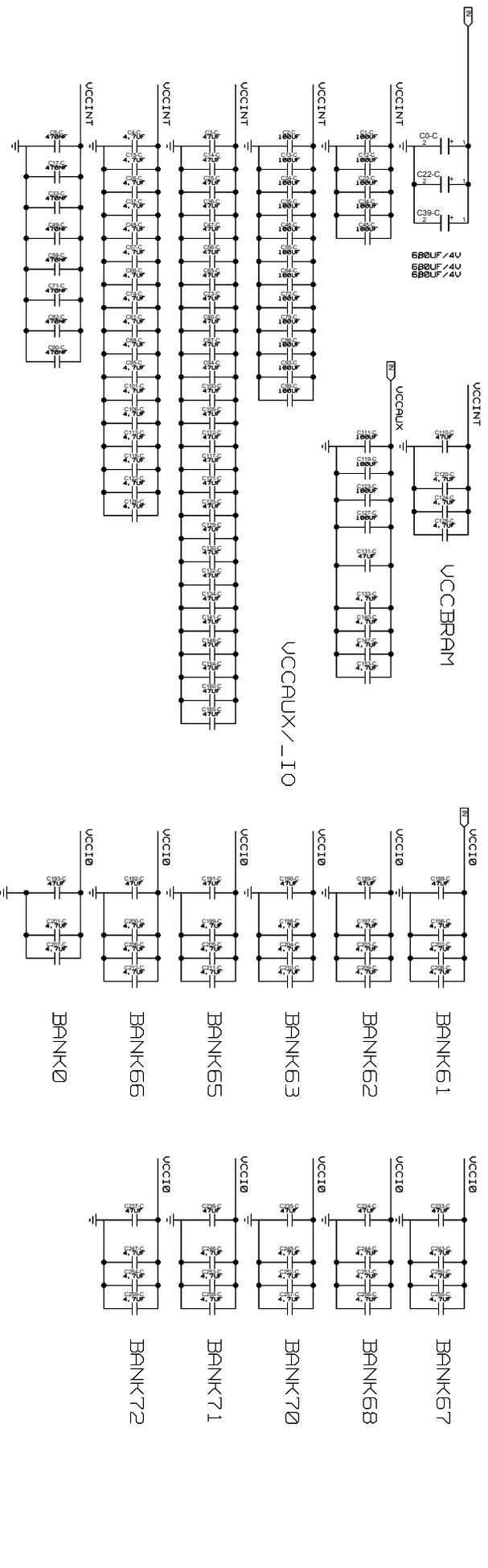
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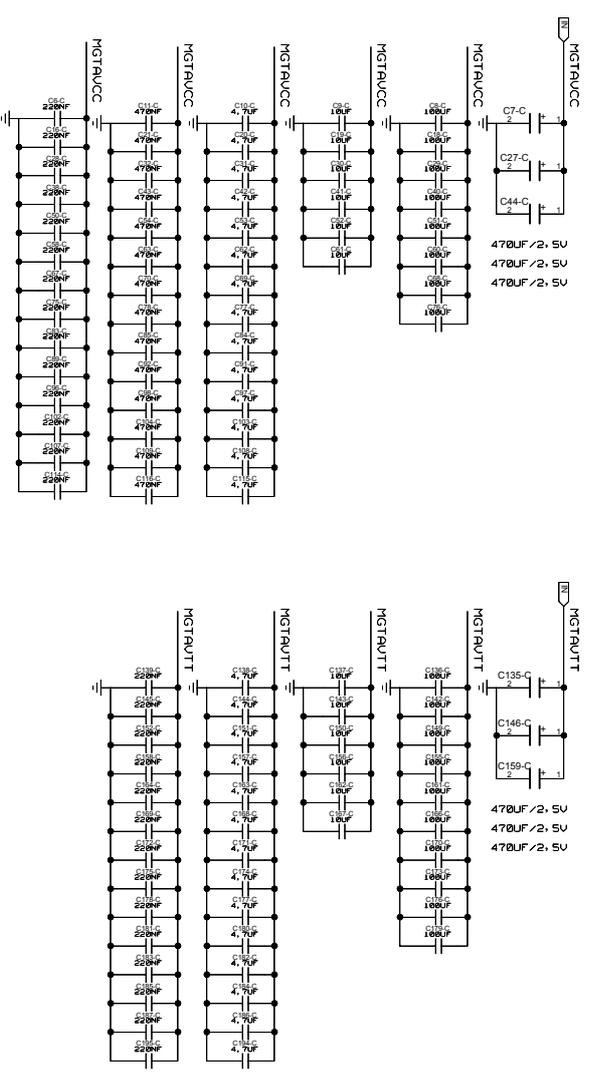
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MGT DECOUPLING



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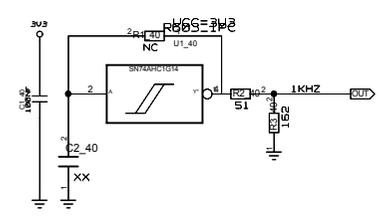
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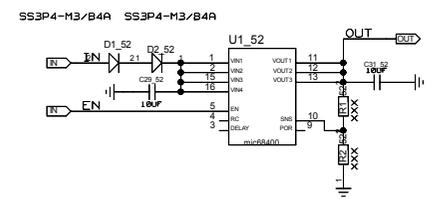


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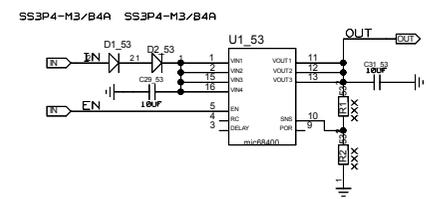
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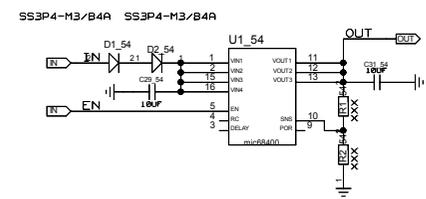
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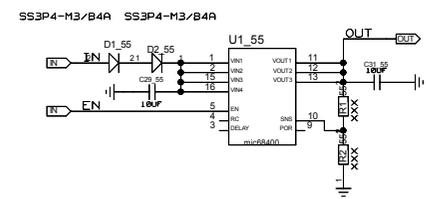
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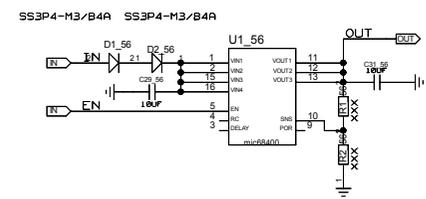
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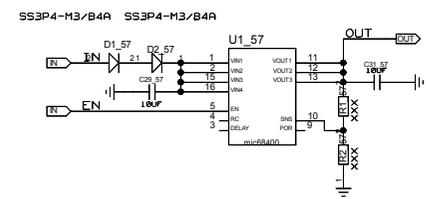
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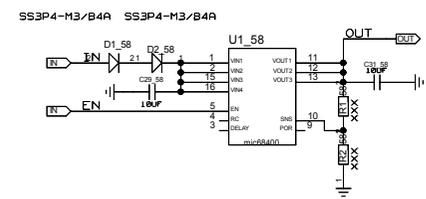
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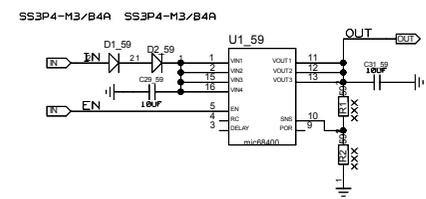
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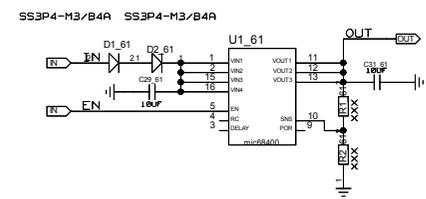
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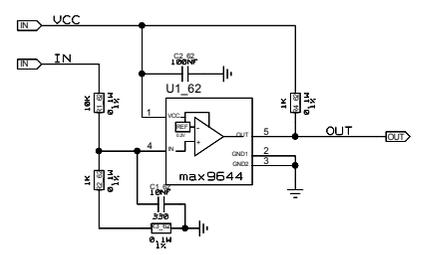
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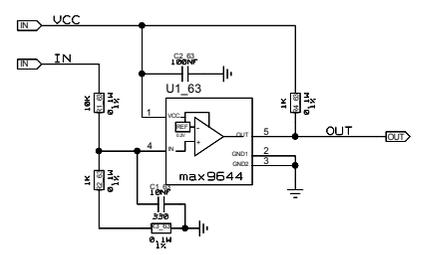
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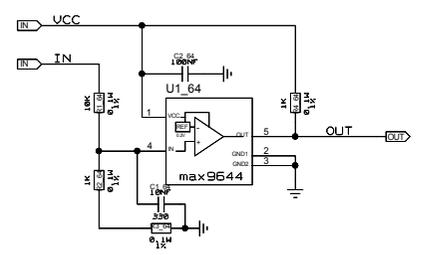
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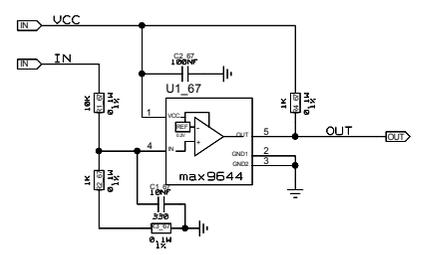
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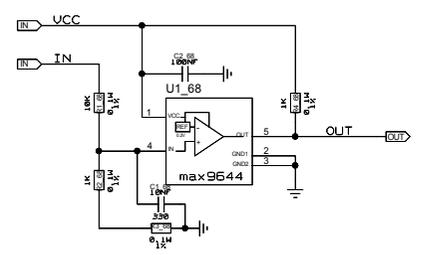
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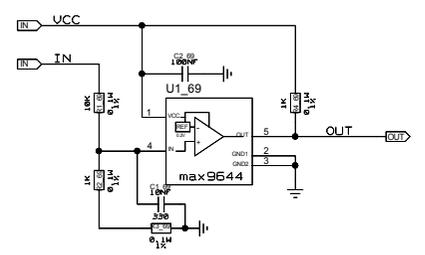
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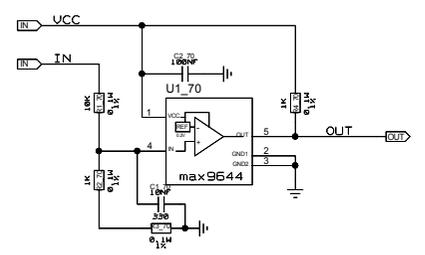
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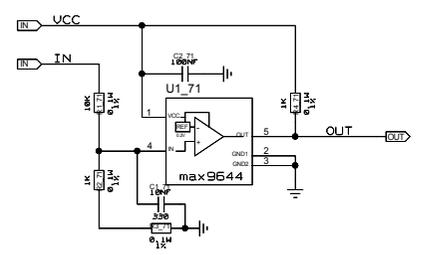
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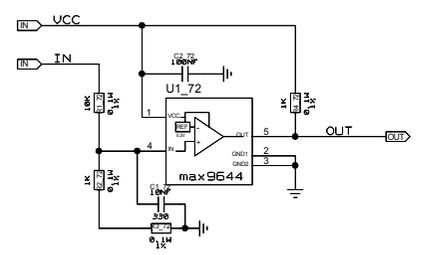
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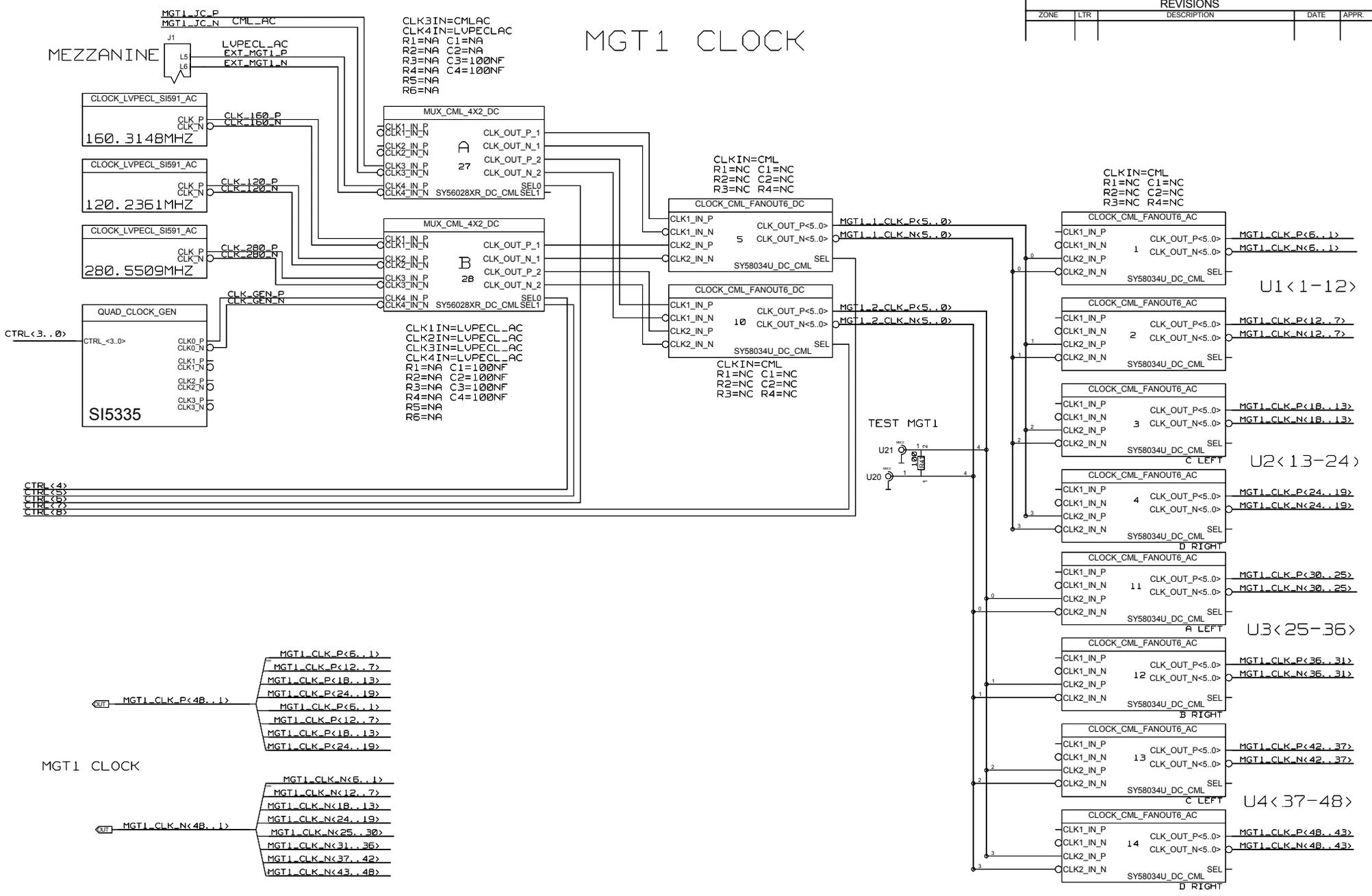
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# MGT1 CLOCK



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 MGT1\_CLK\_P<18..13>  
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 MGT1\_CLK\_P<24..19>

MGT1\_CLK\_N<5..1>  
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 MGT1\_CLK\_N<18..13>  
 MGT1\_CLK\_N<24..19>  
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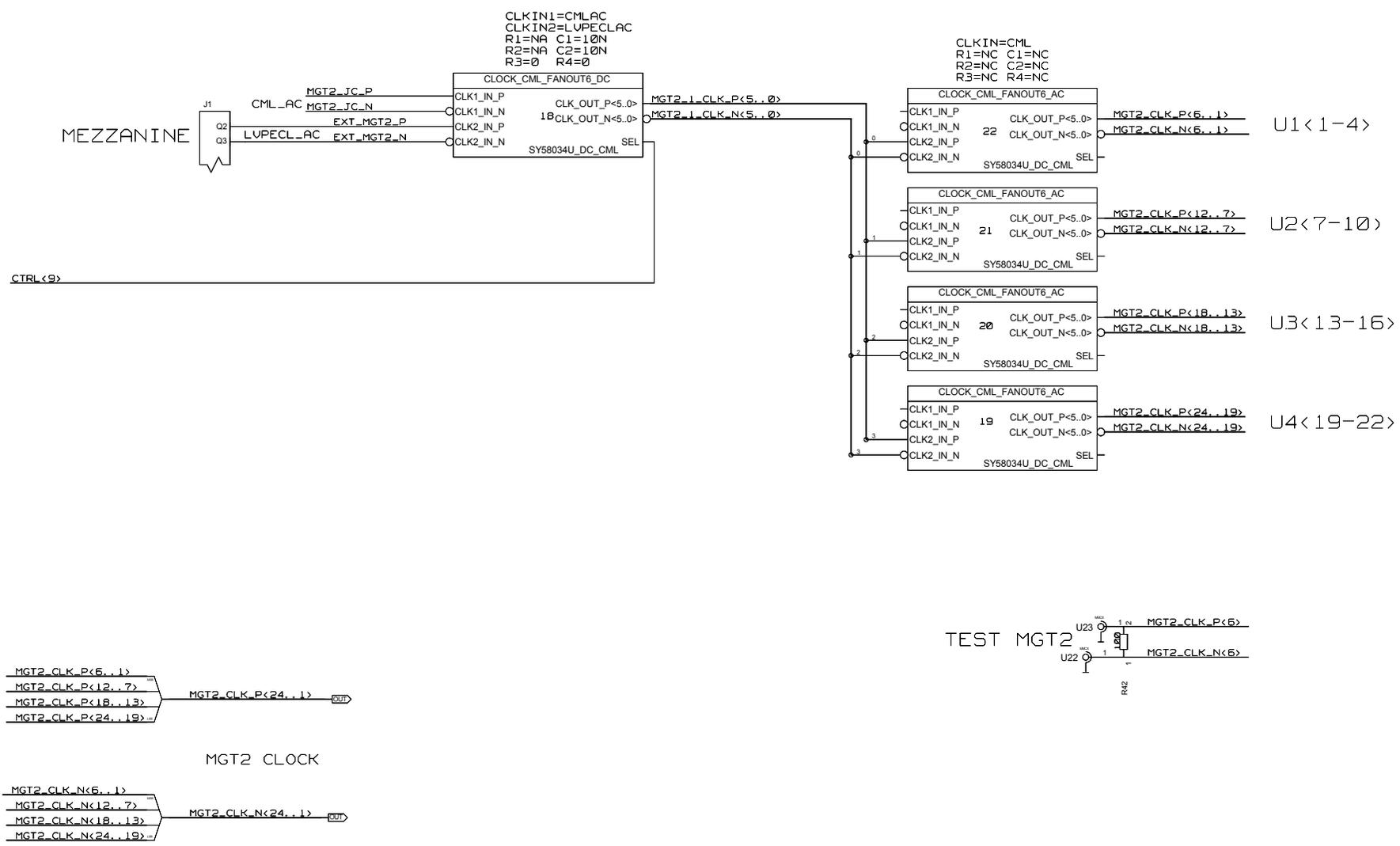
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UPDATE PICK & PLACE DATA FOR FANOUT AND MUX

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CHECKED S.RAVE				
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UNIVERSITY OF MAINZ			DRAWING NO.	
SCALE			SHEET 1 OF 5	

# MGT2 CLOCK

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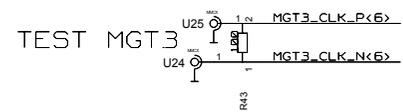
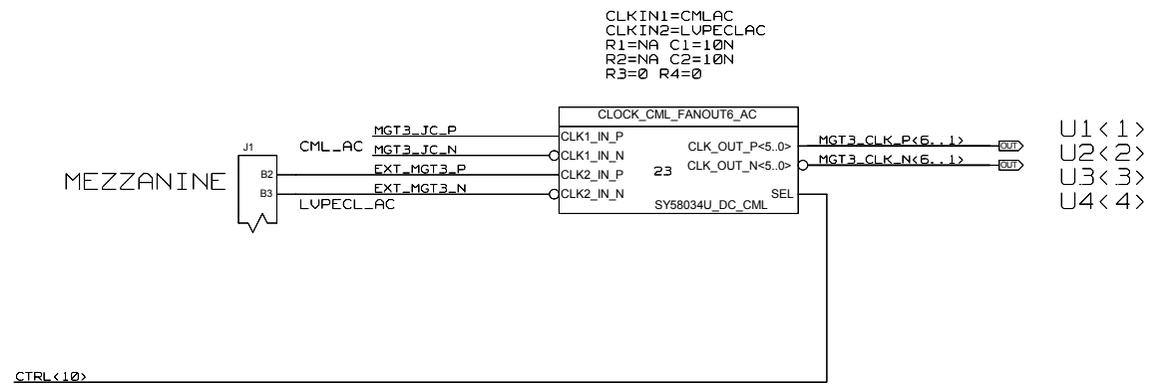


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# MGT3 CLOCK

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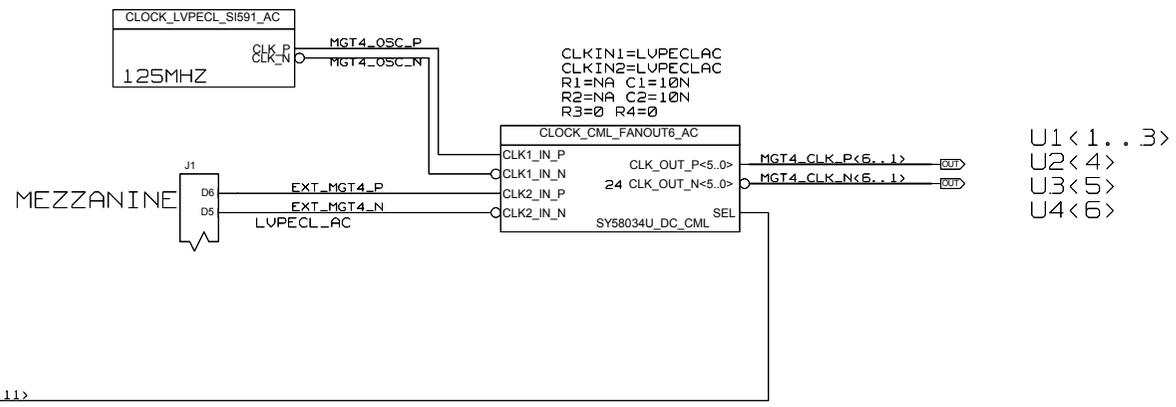


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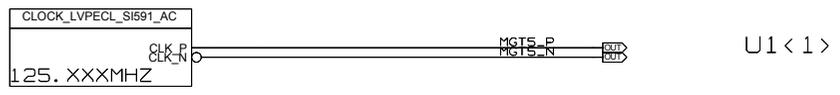
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# MGT4 CLOCK

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



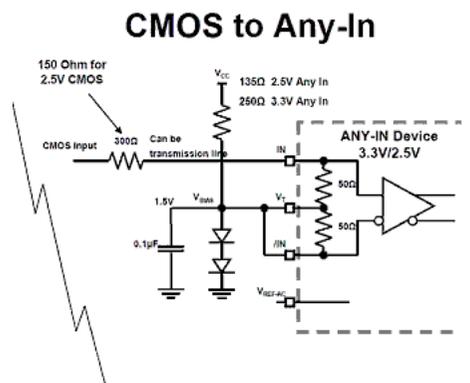
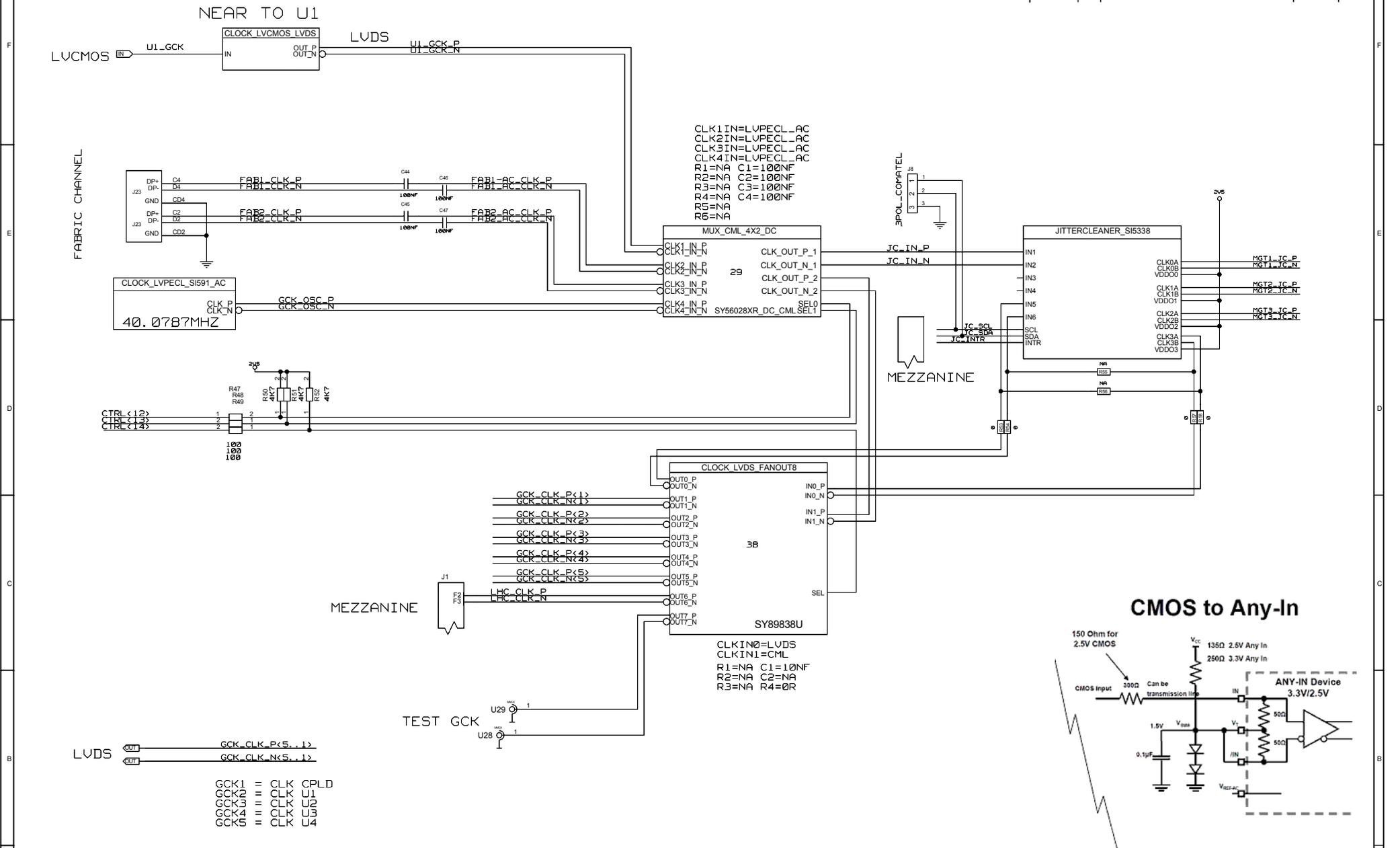
# MGT5 CLOCK



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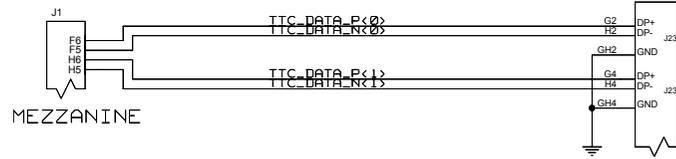
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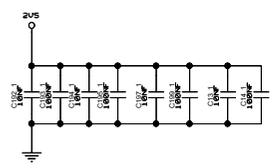
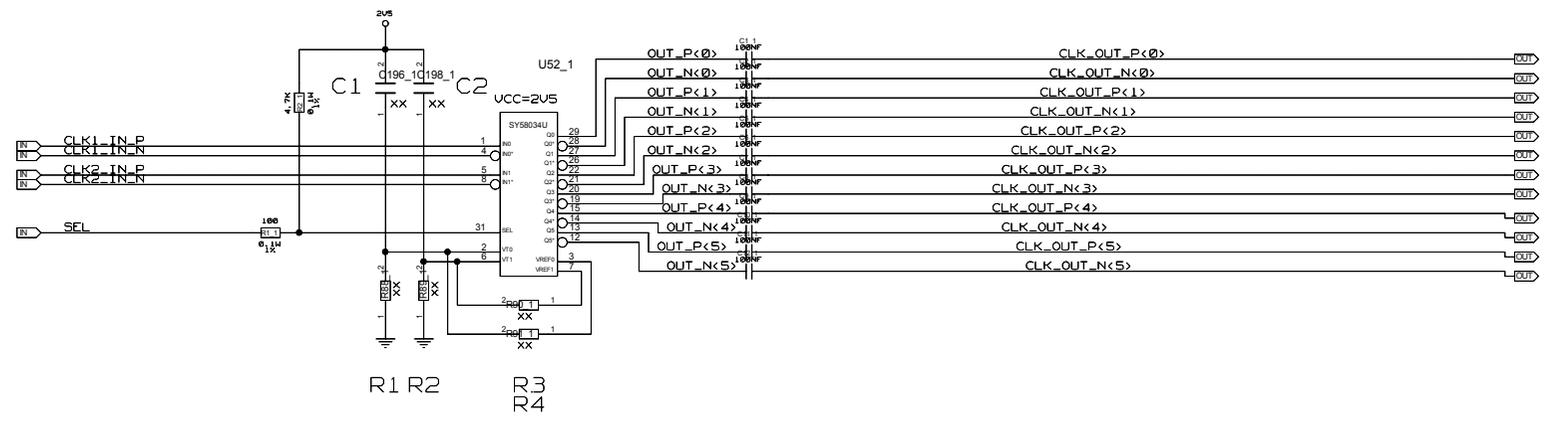
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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**INPUT INTERFACE APPLICATIONS**

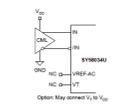


Figure 3a. CML Interface (DC-Coupled)

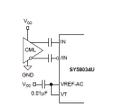


Figure 3b. CML Interface (AC-Coupled)

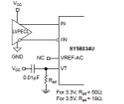


Figure 3c. LVPECL Interface (DC-Coupled)

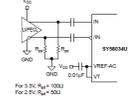


Figure 3d. LVPECL Interface (AC-Coupled)

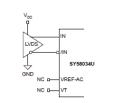
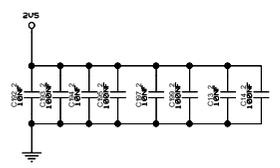
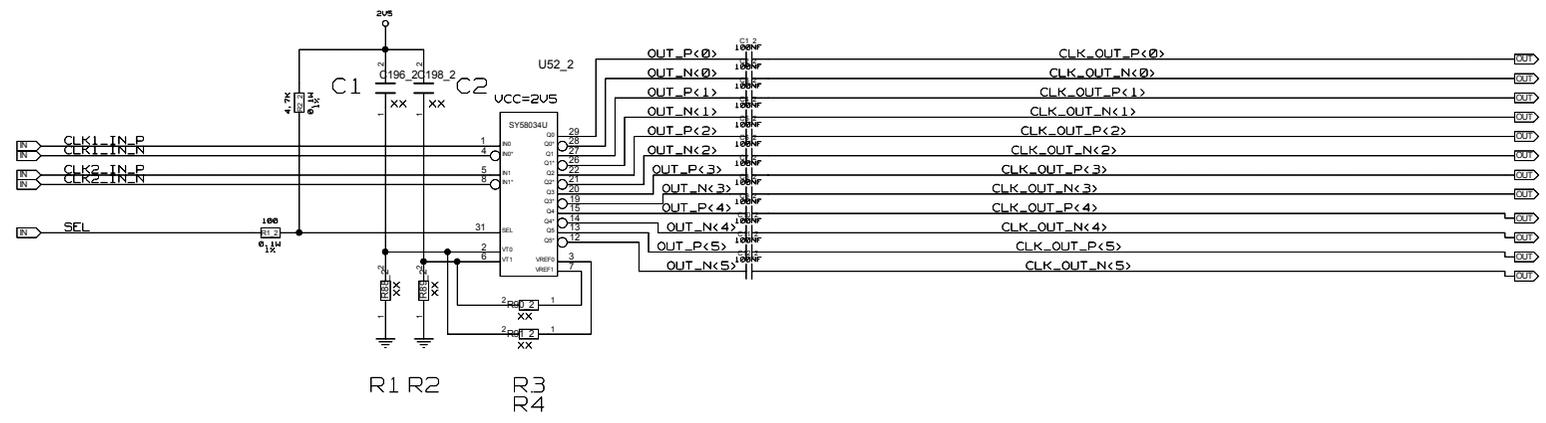


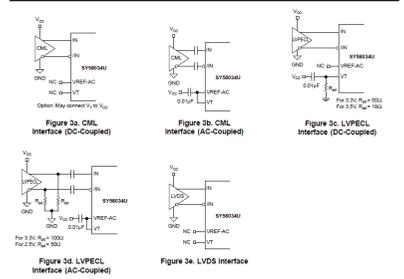
Figure 3e. LVDS Interface

CHECKED	E.ROCCO			DRAWING TITLE  <b>CLOCK</b>
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE CLOCK CML FANOUT5 AC				
UNIVERSITY OF MAINZ		SIZE <b>C</b>	REV.	DRAWING NO.
SCALE				SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

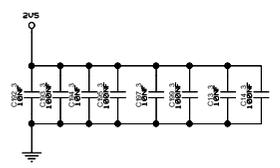
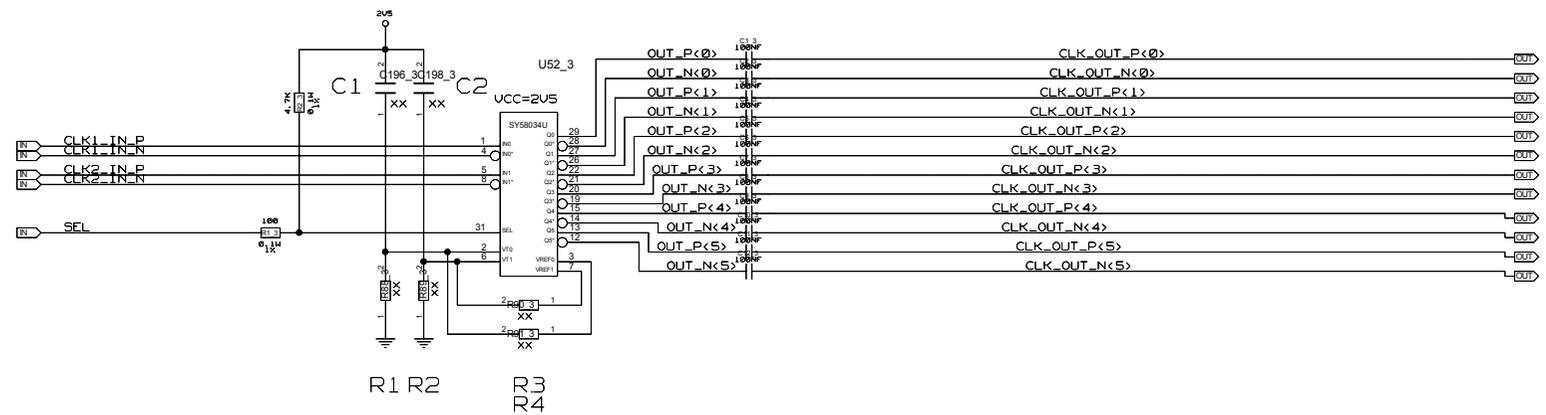


**INPUT INTERFACE APPLICATIONS**

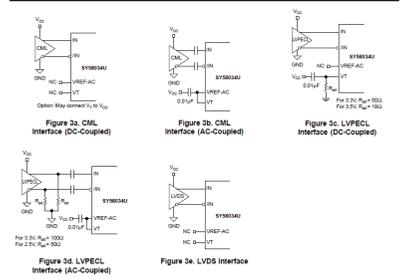


CHECKED	E.ROCCO	DATE	SIGN	DRAWING TITLE  <b>CLOCK</b>
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE <b>CLOCK CML FANOUT6 AC</b>				
UNIVERSITY OF MAINZ			SIZE <b>C</b>	REV.
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

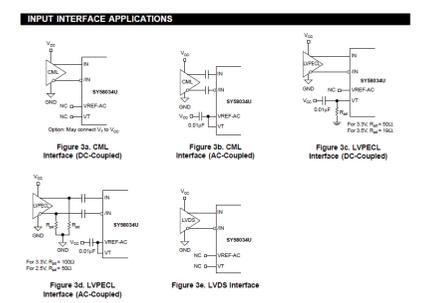
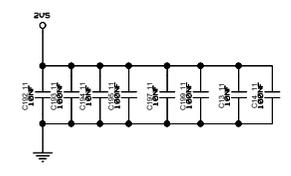
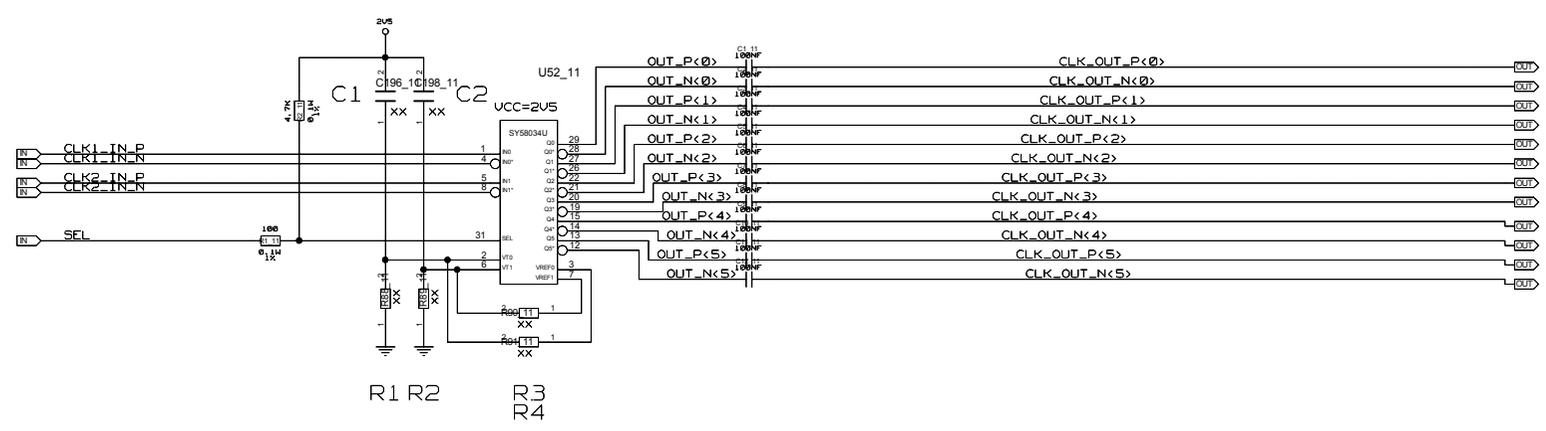


**INPUT INTERFACE APPLICATIONS**



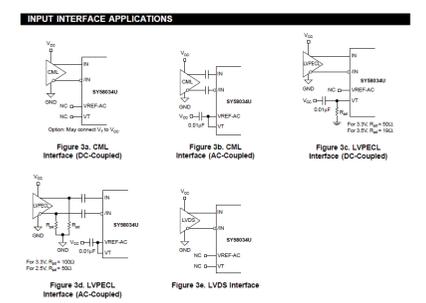
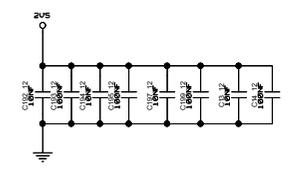
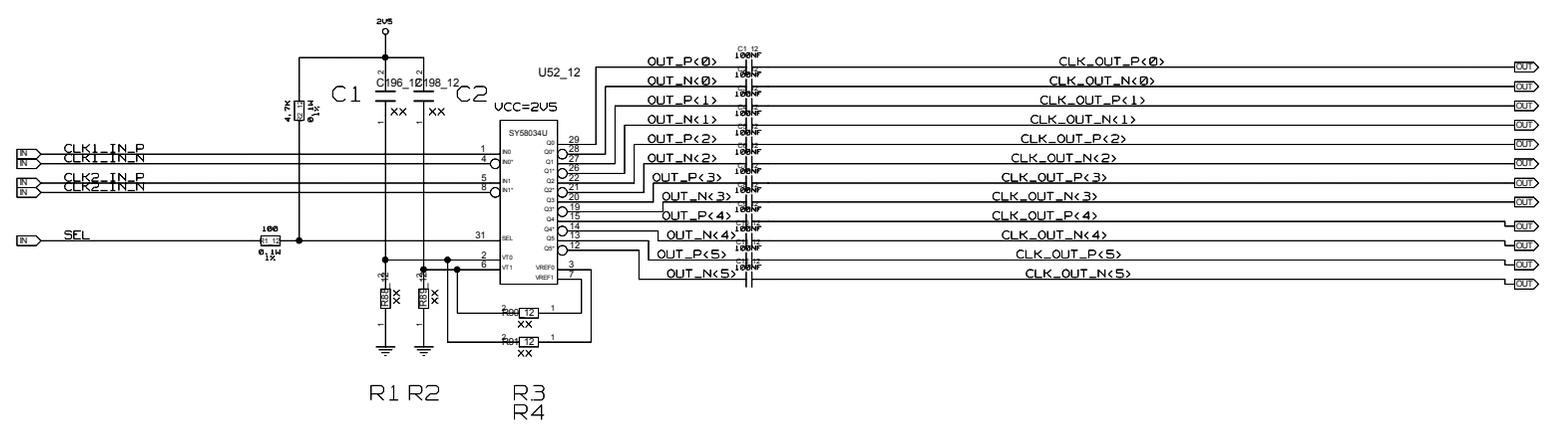
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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE <b>CLOCK CML FANOUT6 AC</b>				
UNIVERSITY OF MAINZ			SIZE <b>C</b>	REV.
SCALE			DRAWING NO.	
			SHEET OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



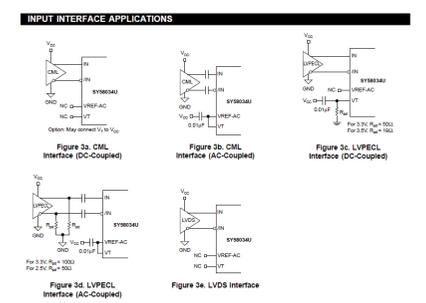
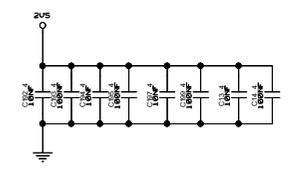
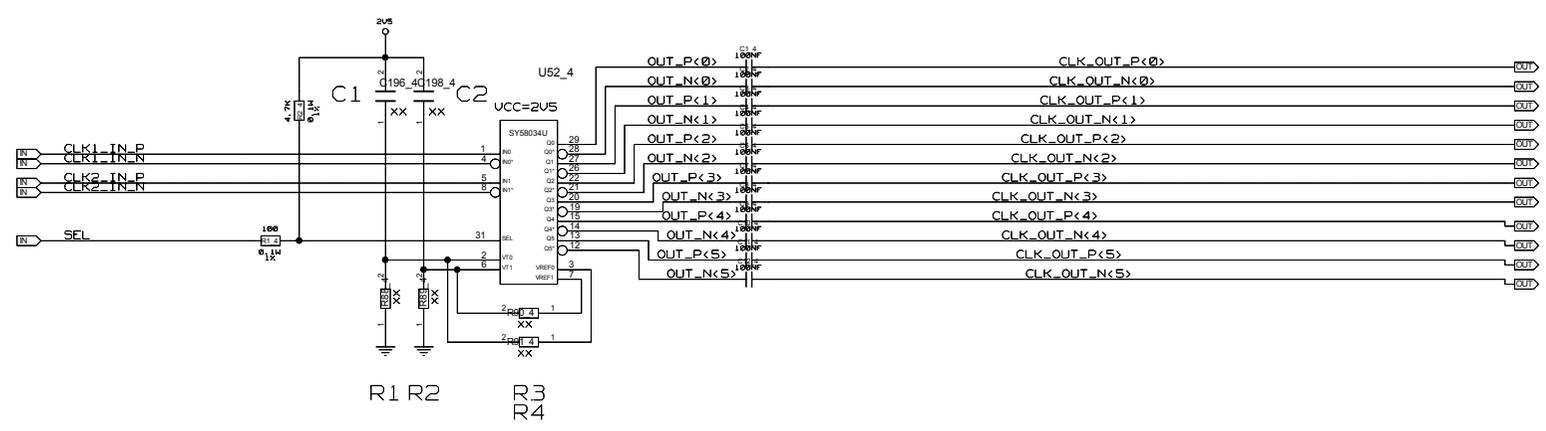
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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE CLOCK CML FANOUT5 AC				
UNIVERSITY OF MAINZ			SIZE <b>C</b>	REV.
SCALE			DRAWING NO.	
			SHEET OF	

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ZONE	LTR	DESCRIPTION	DATE	APPR.



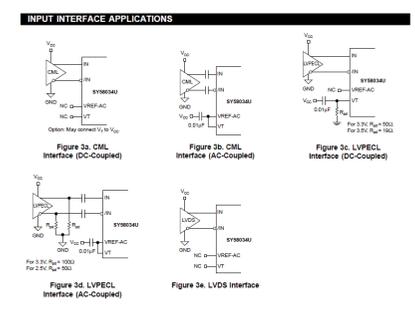
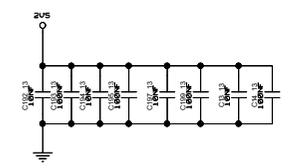
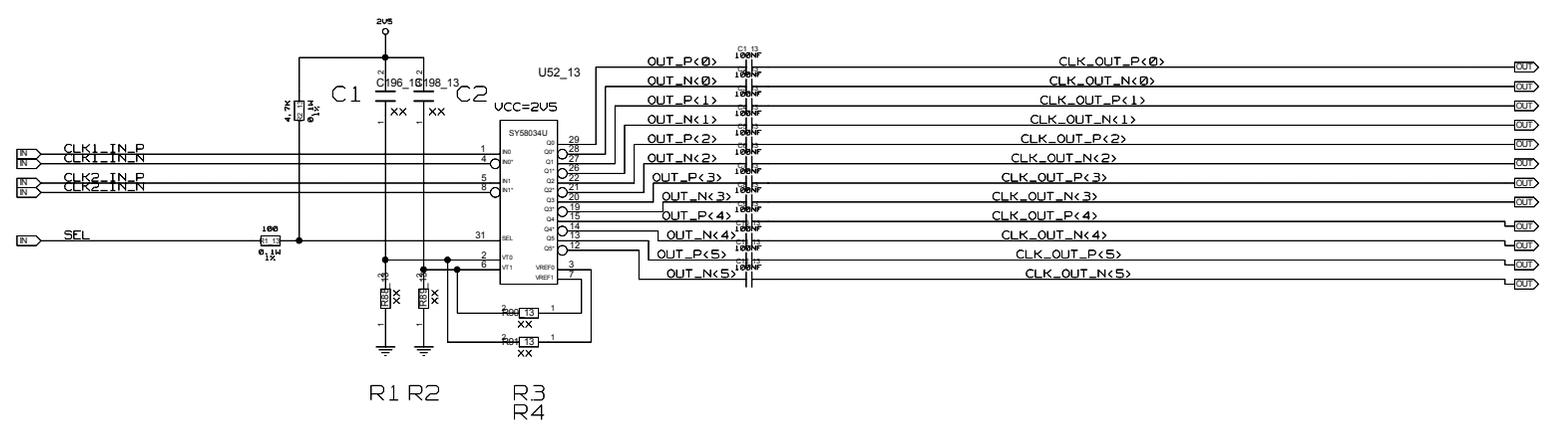
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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE				<b>CLOCK</b>
CLOCK CML FANOUT5 AC				
UNIVERSITY OF MAINZ			SIZE	DRAWING NO.
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			SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



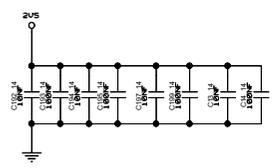
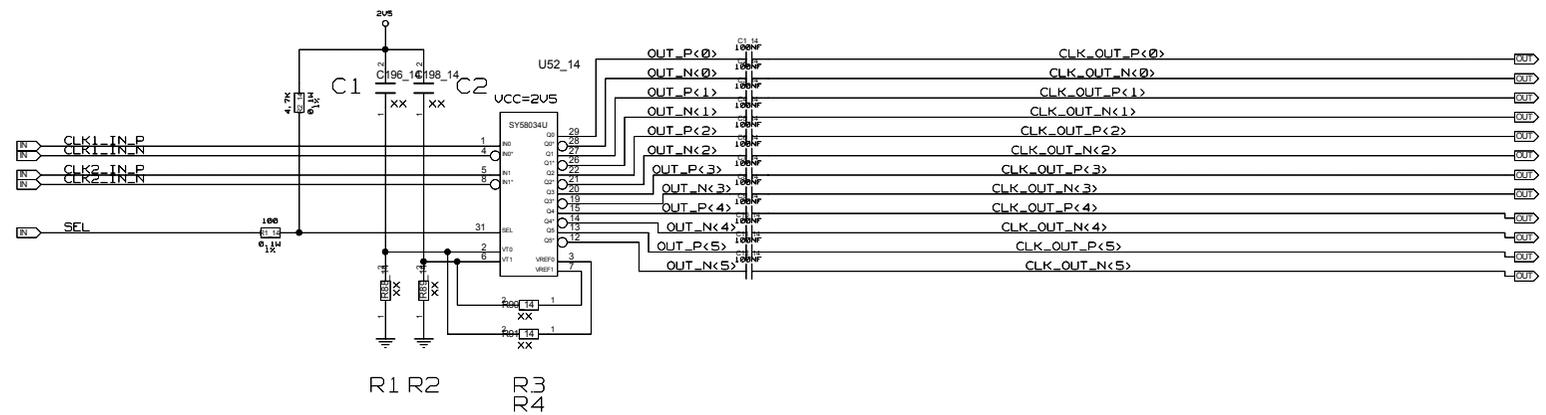
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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE CLOCK CML FANOUT5 AC				SIZE <b>C</b>
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
				SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

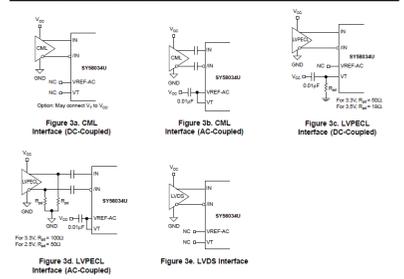


CHECKED	NAME	DATE	SIGN	DRAWING TITLE  <b>CLOCK</b>
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	U.SCHAEFER			
	S.RAVE			
	BAUSS			
BLOCK TITLE CLOCK CML FANOUT6 AC				SIZE <b>C</b>
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SCALE				DRAWING NO.
				SHEET OF

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ZONE	LTR	DESCRIPTION	DATE	APPR.

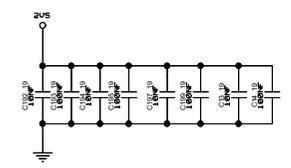
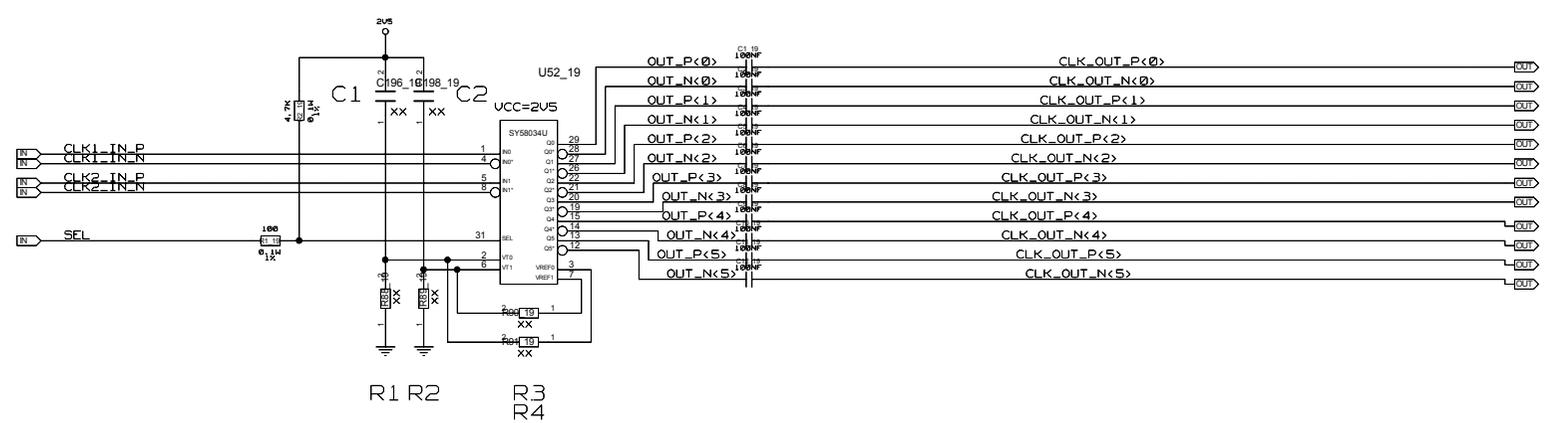


**INPUT INTERFACE APPLICATIONS**



CHECKED	NAME	DATE	SIGN	DRAWING TITLE  <b>CLOCK</b>
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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE <b>CLOCK CML FANOUT5 AC</b>				SIZE <b>C</b>
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
				SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



**INPUT INTERFACE APPLICATIONS**

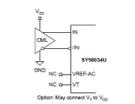


Figure 3a. CML Interface (DC-Coupled)

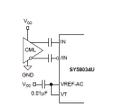


Figure 3b. CML Interface (AC-Coupled)

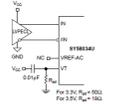


Figure 3c. LVPECL Interface (DC-Coupled)

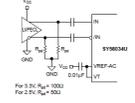


Figure 3d. LVPECL Interface (AC-Coupled)

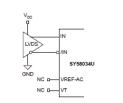
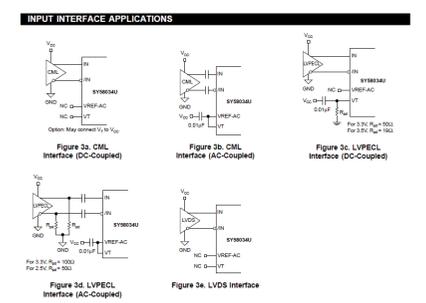
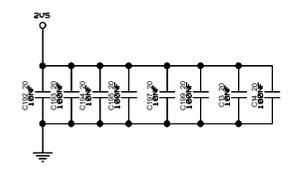
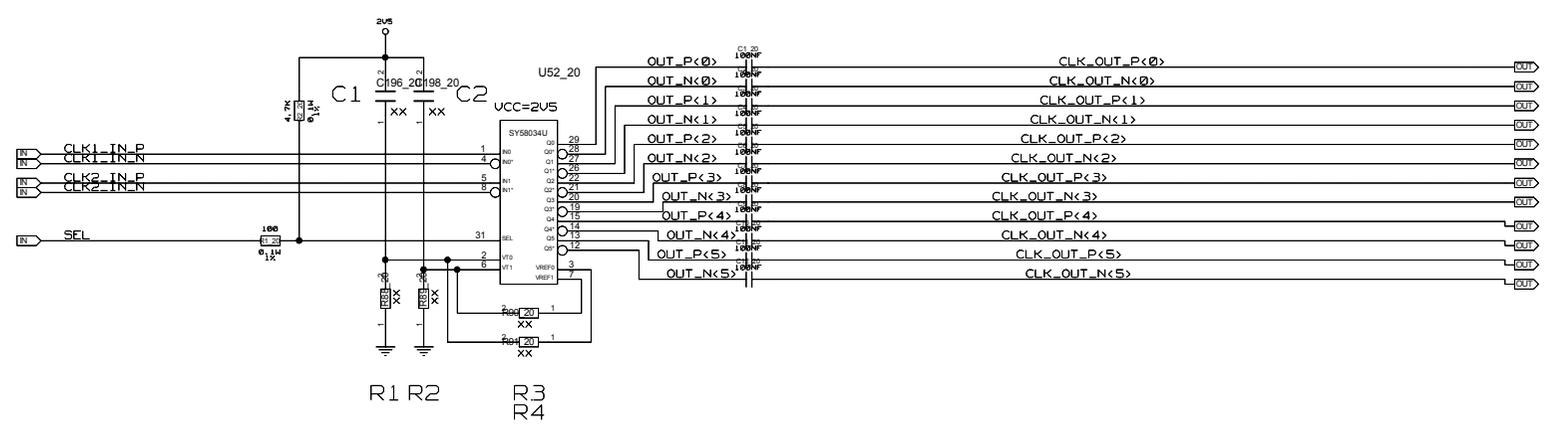


Figure 3e. LVDS Interface

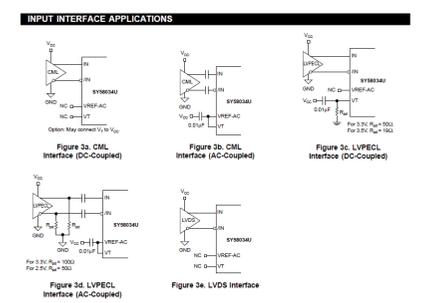
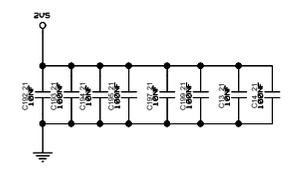
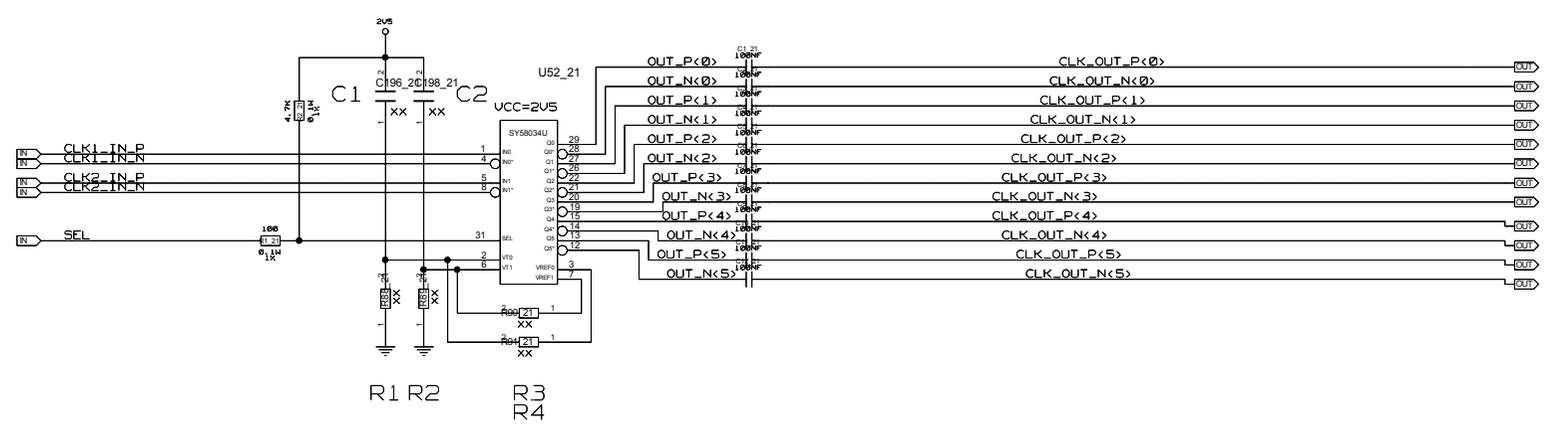
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CHECKED U.SCHAEFER			
CHECKED S.RAVE			
DRAWN BAUSS			
BLOCK TITLE			
CLOCK CML FANOUT5 AC			
UNIVERSITY OF MAINZ		SIZE <b>C</b>	DRAWING NO.
SCALE		REV.	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



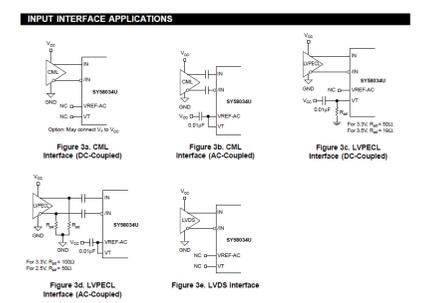
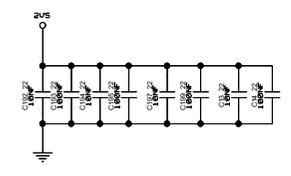
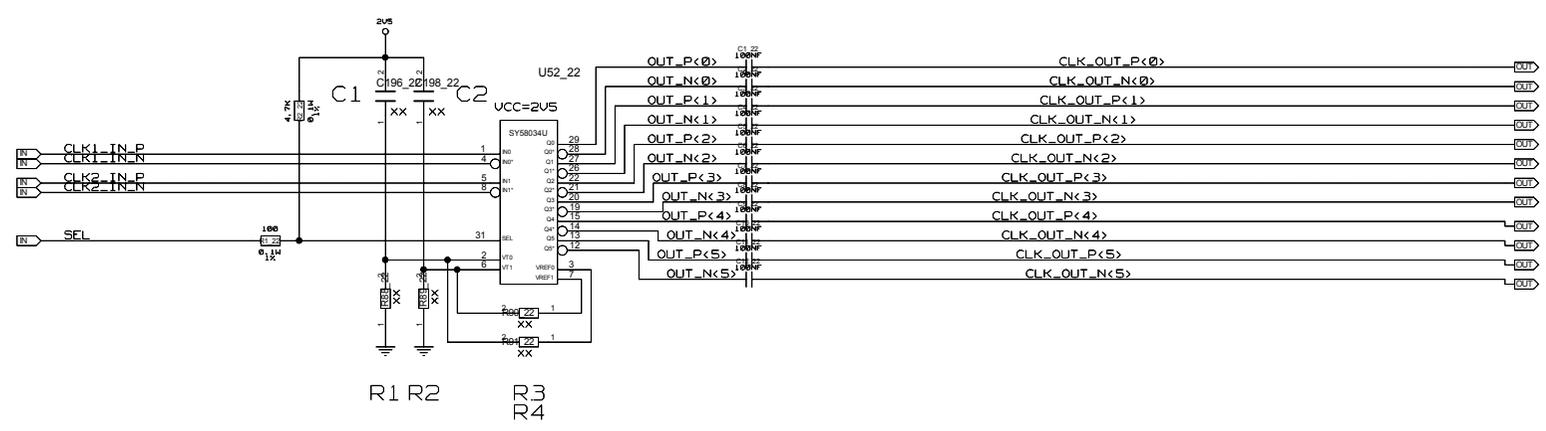
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	U.SCHAEFER			
	S.RAVE			
	BAUSS			
BLOCK TITLE <b>CLOCK CML FANOUT5 AC</b>				
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SCALE				SHEET OF

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ZONE	LTR	DESCRIPTION	DATE	APPR.



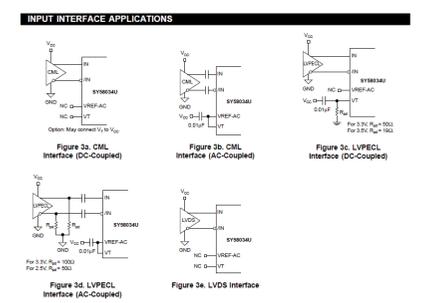
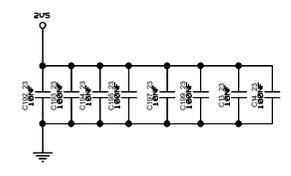
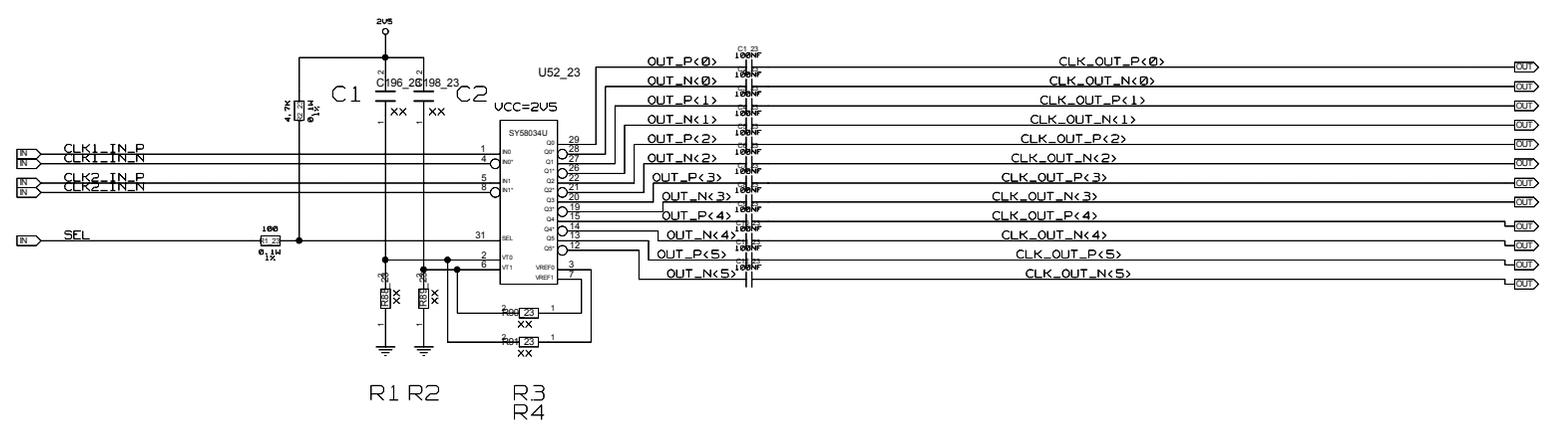
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	U.SCHAEFER				
	S.RAVE				
	BAUSS				
BLOCK TITLE					
CLOCK CML FANOUT5 AC					
UNIVERSITY OF MAINZ					
SIZE	REV.	DRAWING NO.			
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SCALE				SHEET OF	

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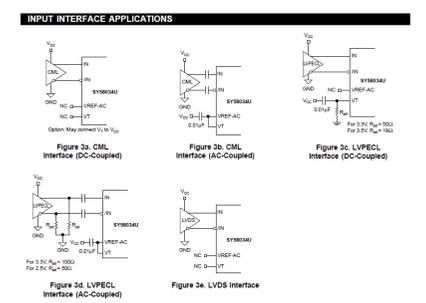
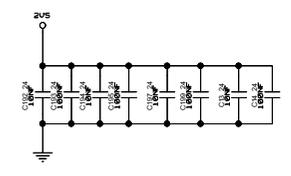
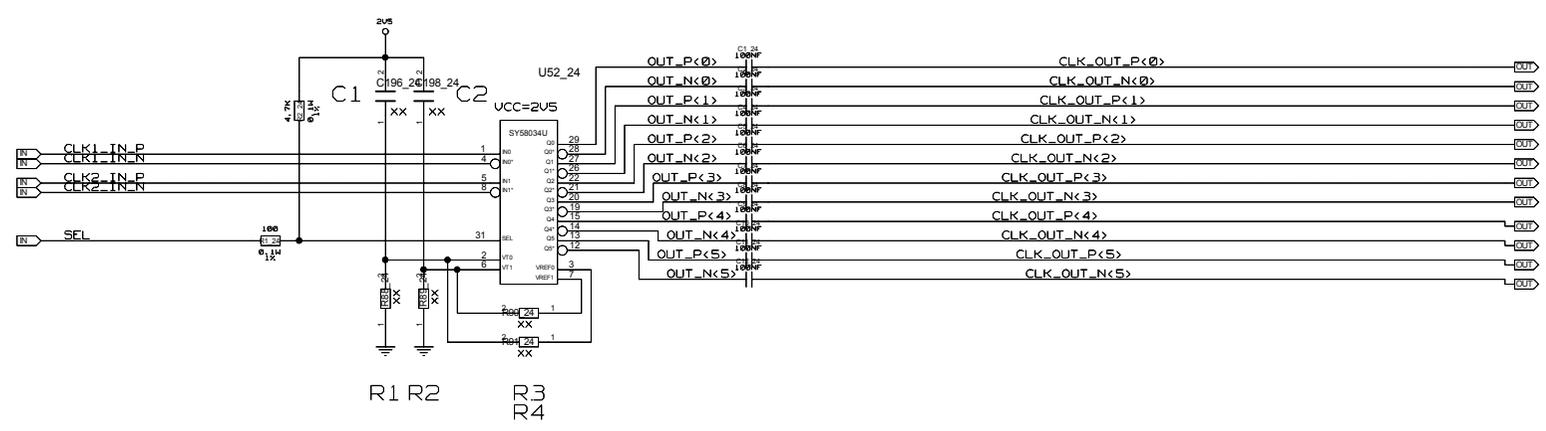
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DRAWN	BAUSS			
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SCALE			DRAWING NO.	
			SHEET OF	

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ZONE	LTR	DESCRIPTION	DATE	APPR.



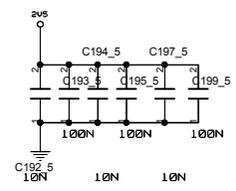
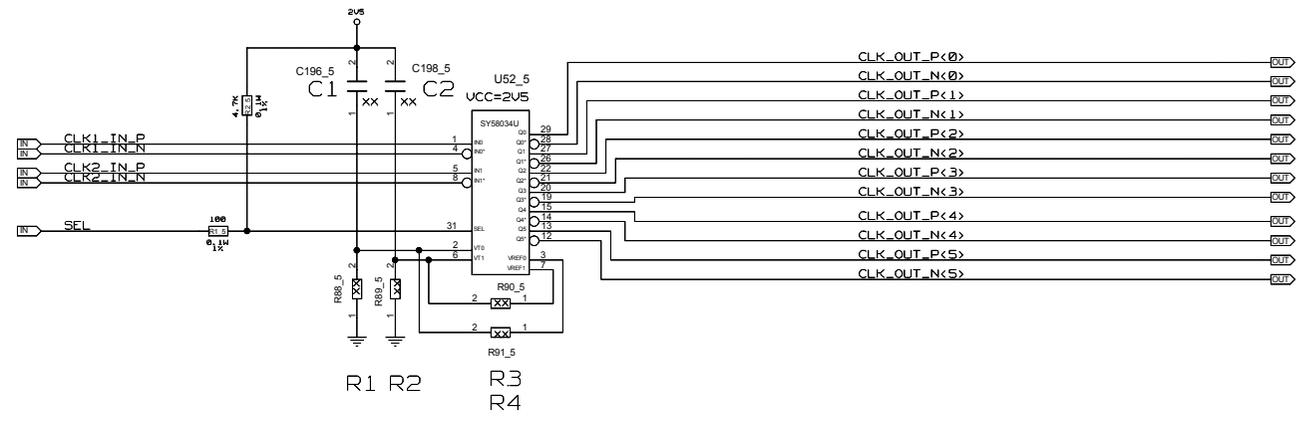
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	U.SCHAEFER			
	S.RAVE			
	BAUSS			
BLOCK TITLE <b>CLOCK CML FANOUT5 AC</b>				
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SCALE				SHEET OF

REVISIONS				
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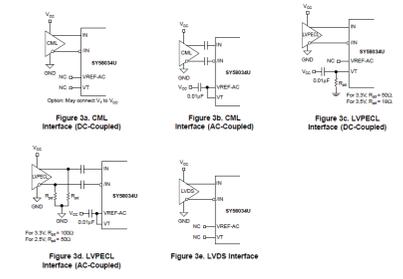


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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE <b>CLOCK CML FANOUT5 AC</b>				
UNIVERSITY OF MAINZ		SIZE <b>C</b>	REV.	DRAWING NO.
SCALE				SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

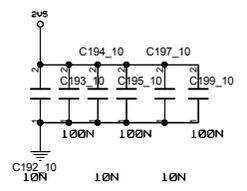
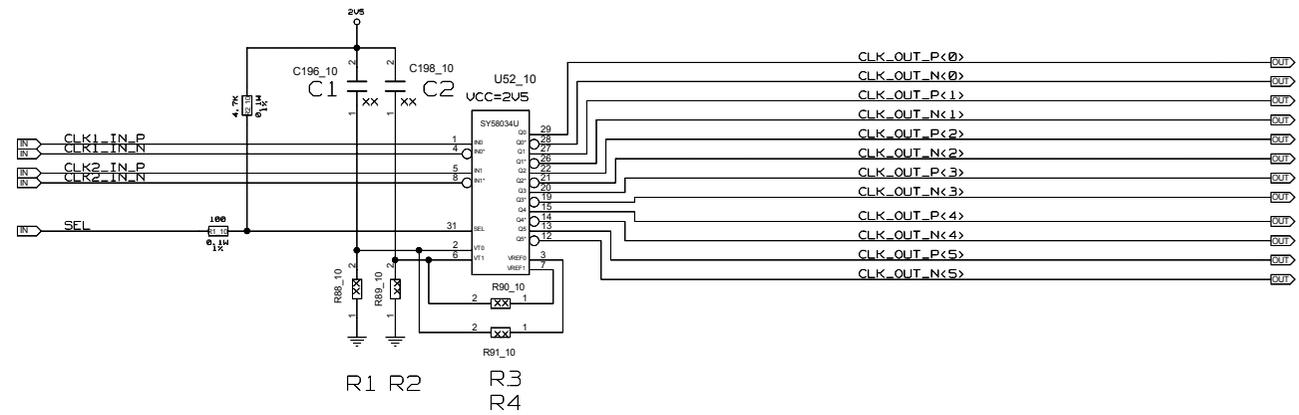


**INPUT INTERFACE APPLICATIONS**

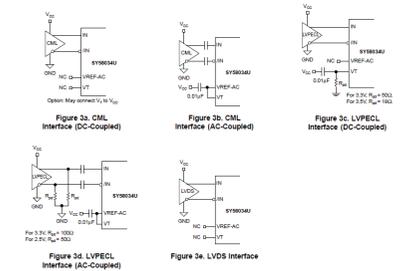


CHECKED	E.ROCCO	DATE	SIGN	DRAWING TITLE  <b>CLOCK</b>
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE <b>CLOCK_CML_FANOUT6_DC</b>				
UNIVERSITY OF MAINZ		SIZE <b>C</b>	REV.	DRAWING NO.
SCALE				SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

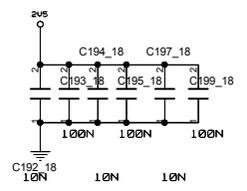
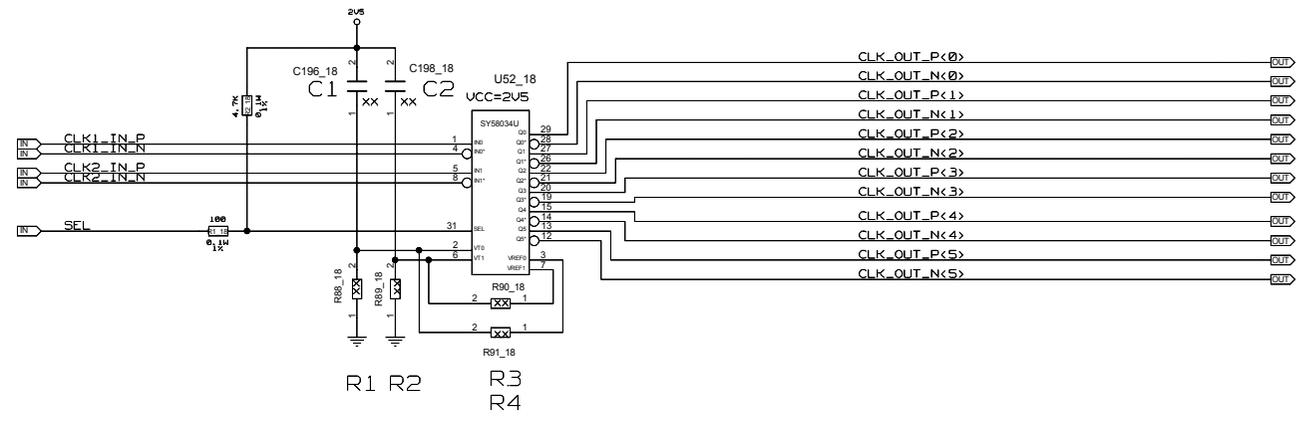


**INPUT INTERFACE APPLICATIONS**

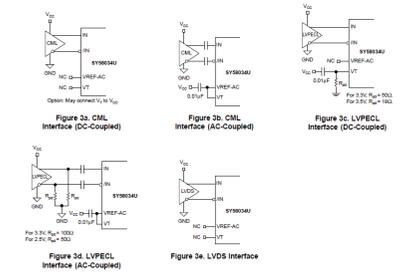


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CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE <b>CLOCK_CML_FANOUT6_DC</b>				
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SCALE				SHEET OF

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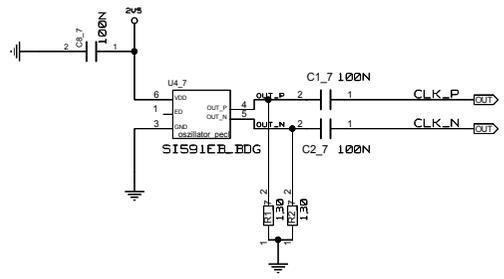


**INPUT INTERFACE APPLICATIONS**



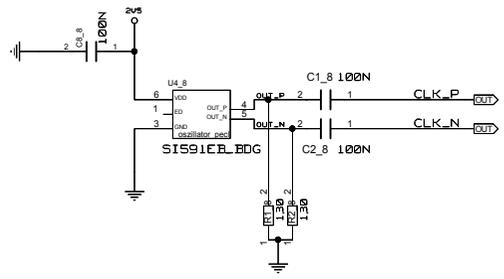
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SCALE				SHEET OF

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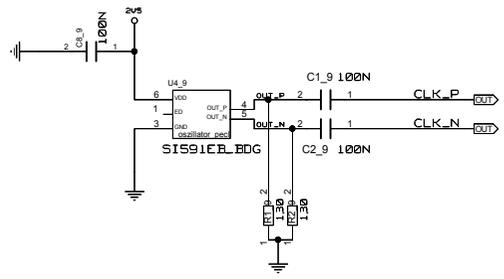
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CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE <b>CLOCK_LVPECL_AC</b>				SIZE <b>C</b>
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
			SHEET	OF

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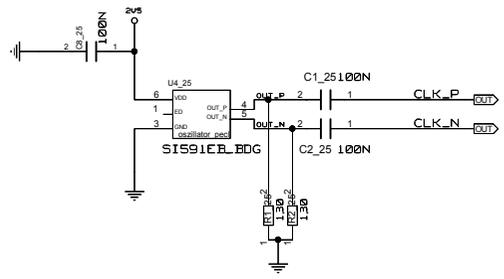
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CHECKED	S.RAVE					
DRAWN	BAUSS					
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REVISIONS				
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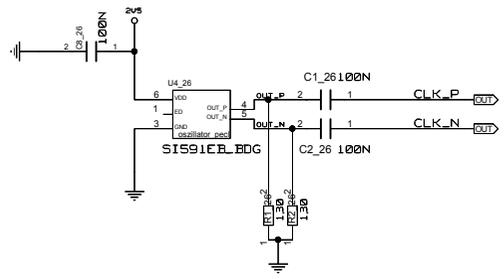
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CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE <b>CLOCK_LVPECL_AC</b>				
UNIVERSITY OF MAINZ		SIZE <b>C</b>	REV.	DRAWING NO.
SCALE				SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



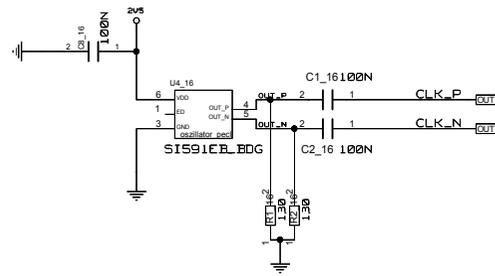
CHECKED	E.ROCCO	DATE	SIGN	DRAWING TITLE  <b>CLOCK</b>
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE <b>CLOCK_LVPECL_AC</b>				SIZE <b>C</b>
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
			SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



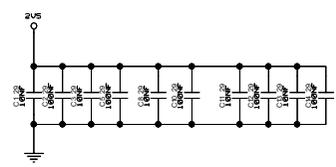
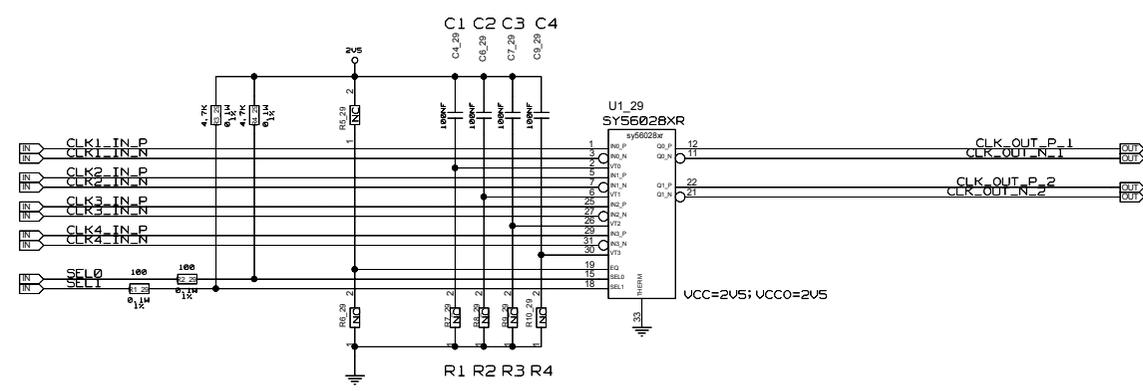
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CHECKED	S.RAVE			
DRAWN	BAUSS			
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UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
			SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



CHECKED	E.ROCCO	DATE	SIGN	DRAWING TITLE  <b>CLOCK</b>
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE <b>CLOCK_LVPECL_AC</b>				SIZE <b>C</b>
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



Input Interface Applications

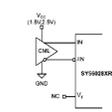


Figure 4b. CML Interface 100 Ohm Differential (DC-Coupled, 1.8V, 2.5V)

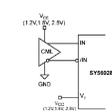


Figure 4c. CML Interface 50 Ohm to VCC (DC-Coupled, 1.2V, 1.8V, 2.5V)

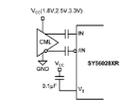


Figure 4c. CML Interface 50 Ohm to VCC (DC-Coupled, 1.2V, 1.8V, 2.5V)

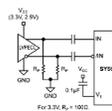


Figure 4d. LVPECL Interface (AC-Coupled)

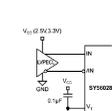


Figure 4e. LVPECL Interface (DC-Coupled 2.5V and 3.3V)

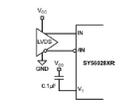
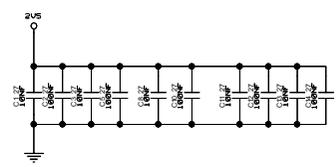
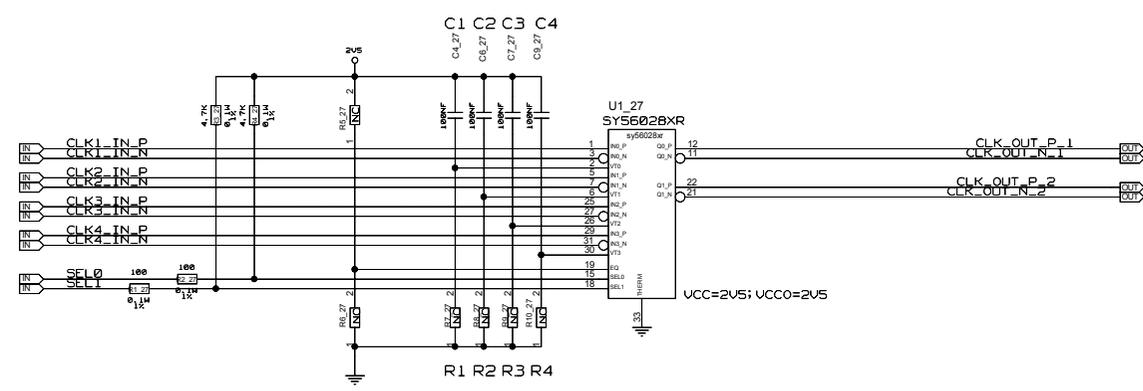


Figure 4f. LVDS Interface

CHECKED	NAME	DATE	SIGN	DRAWING TITLE
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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE				CLOCK
MUX_CML_4X2_DC				
UNIVERSITY OF MAINZ				
SIZE		REV.	DRAWING NO.	
SCALE				
			SHEET OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



Input Interface Applications

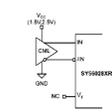


Figure 4b. CML Interface 100 Ω Differential (DC-Coupled, 1.8V, 2.8V)

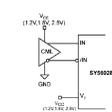


Figure 4c. CML Interface 80 Ω to VCC (DC-Coupled, 1.2V, 1.8V, 2.8V)

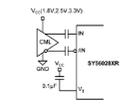


Figure 4c. CML Interface 80 Ω to VCC (DC-Coupled, 1.2V, 1.8V, 2.8V)

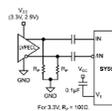


Figure 4e. LVPECL Interface (AC-Coupled)

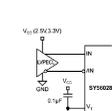


Figure 4e. LVPECL Interface (DC-Coupled 2.8V and 3.3V)

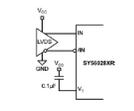
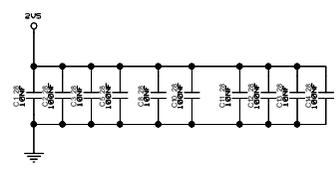
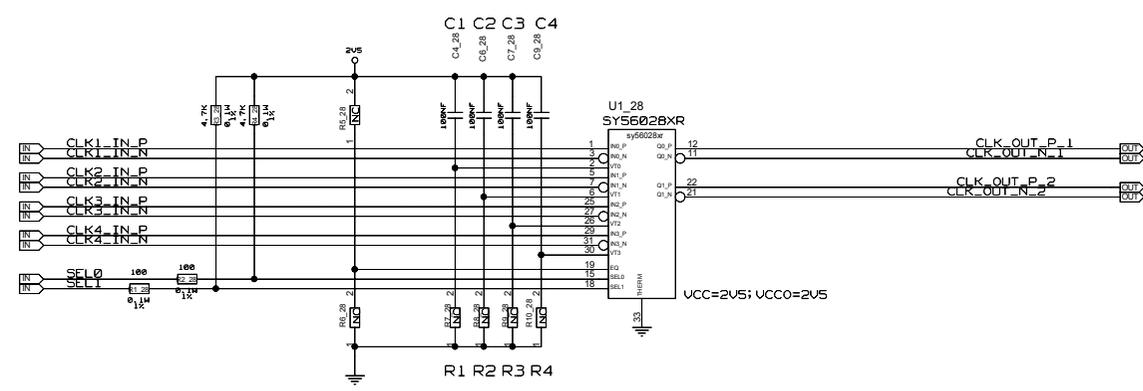


Figure 4f. LVDS Interface

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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE <b>MUX_CML_4X2_DC</b>				
UNIVERSITY OF MAINZ		SIZE <b>C</b>	REV.	DRAWING NO.
SCALE				SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



Input Interface Applications

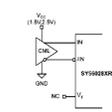


Figure 4b. CML Interface 100 Ohm Differential (DC-Coupled, 1.8V, 2.5V)

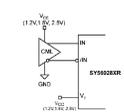


Figure 4c. CML Interface 80 Ohm to VCC (DC-Coupled, 1.2V, 1.8V, 2.5V)

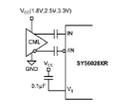


Figure 4c. CML Interface 80 Ohm to VCC (DC-Coupled, 1.2V, 1.8V, 2.5V)

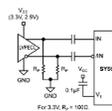


Figure 4d. LVPECL Interface (AC-Coupled)

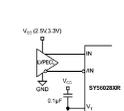


Figure 4e. LVPECL Interface (DC-Coupled 2.5V and 3.3V)

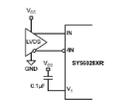
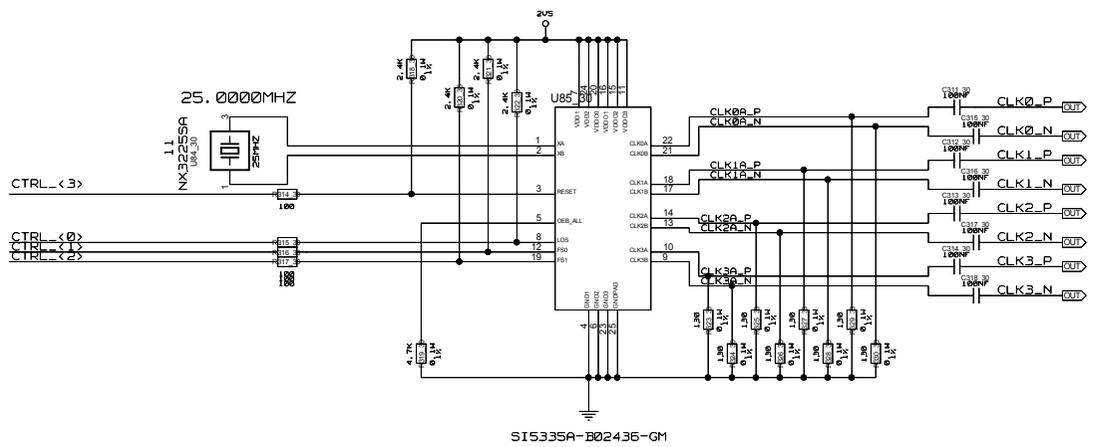


Figure 4f. LVDS Interface

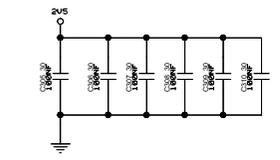
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CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE <b>MUX_CML_4X2_DC</b>				
UNIVERSITY OF MAINZ		SIZE <b>C</b>	REV.	DRAWING NO.
SCALE				SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



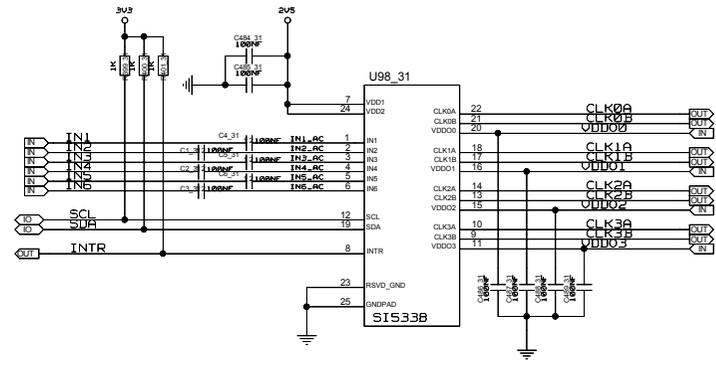
SIS335A-B02436-GM

CTRL\_<3>



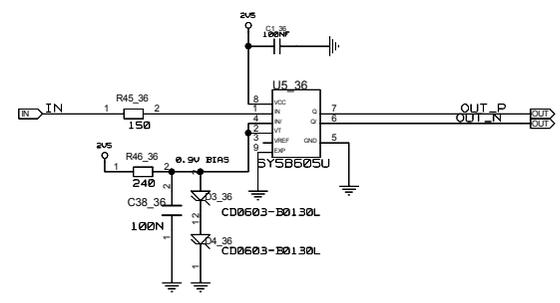
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CHECKED	S.RAVE			
DRAWN	BAUSS			
BLOCK TITLE <b>QUAD_CLOCK_GEN</b>				SIZE <b>C</b>
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
				SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



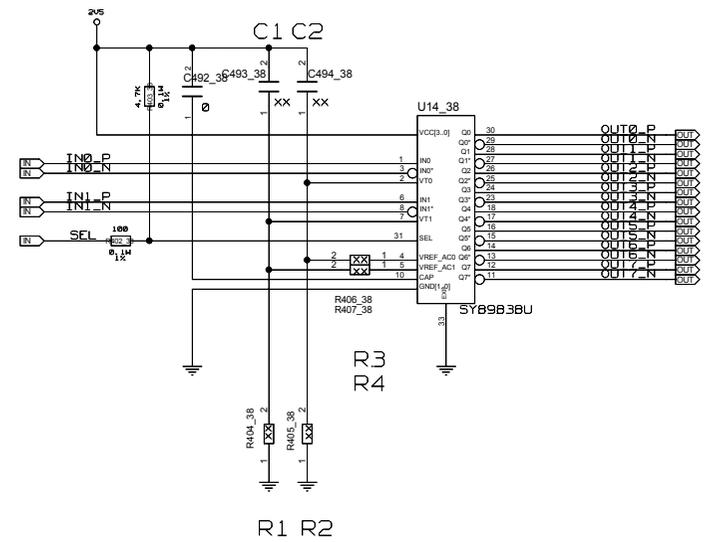
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BLOCK TITLE JITTERCLEANER_SI5338					
UNIVERSITY OF MAINZ				SIZE <b>C</b>	REV.
SCALE				DRAWING NO.	
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ZONE	LTR	DESCRIPTION	DATE	APPR.

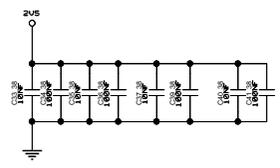


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CHECKED	U.SCHAEFER					
CHECKED	S.RAVE					
DRAWN	BAUSS					
BLOCK TITLE						
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				C		
SCALE					SHEET	OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



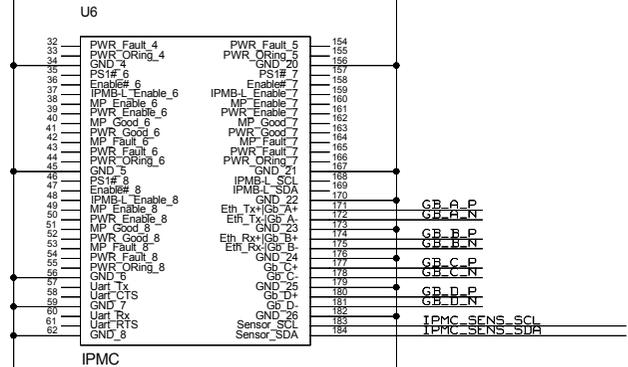
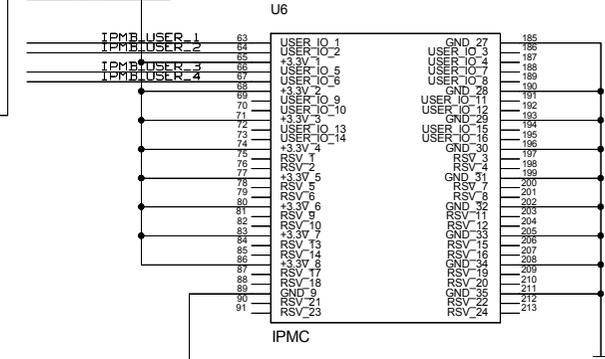
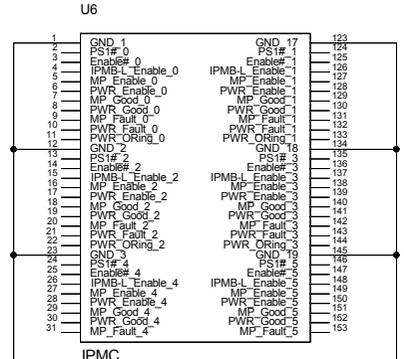
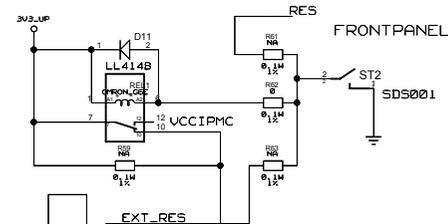
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OUT4_N	E13
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OUT5_N	E13
OUT6_P	100
OUT6_N	E13
OUT7_P	100
OUT7_N	E13



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

# IPMC CONNECTOR MOLEX\_87782-3003

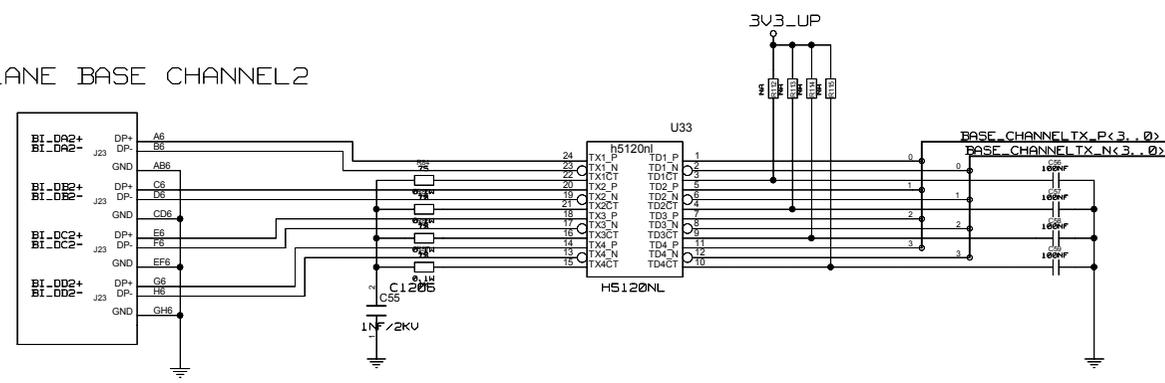
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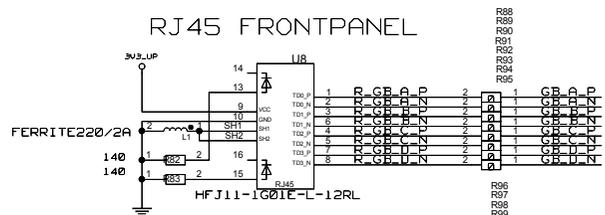


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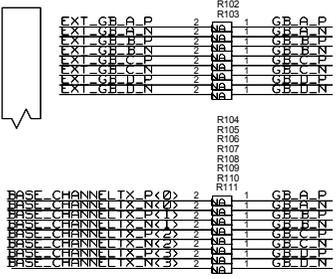
BACKPLANE BASE CHANNEL 2



RJ45 FRONTPANEL



MEZZANINE

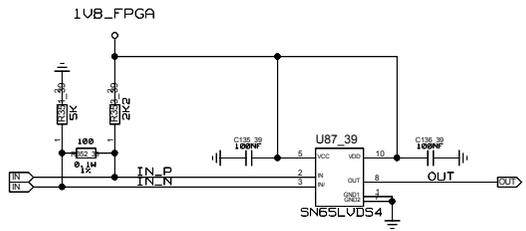


TO IPMC MODUL

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DRAWN	BAUSS			
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				SHEET OF

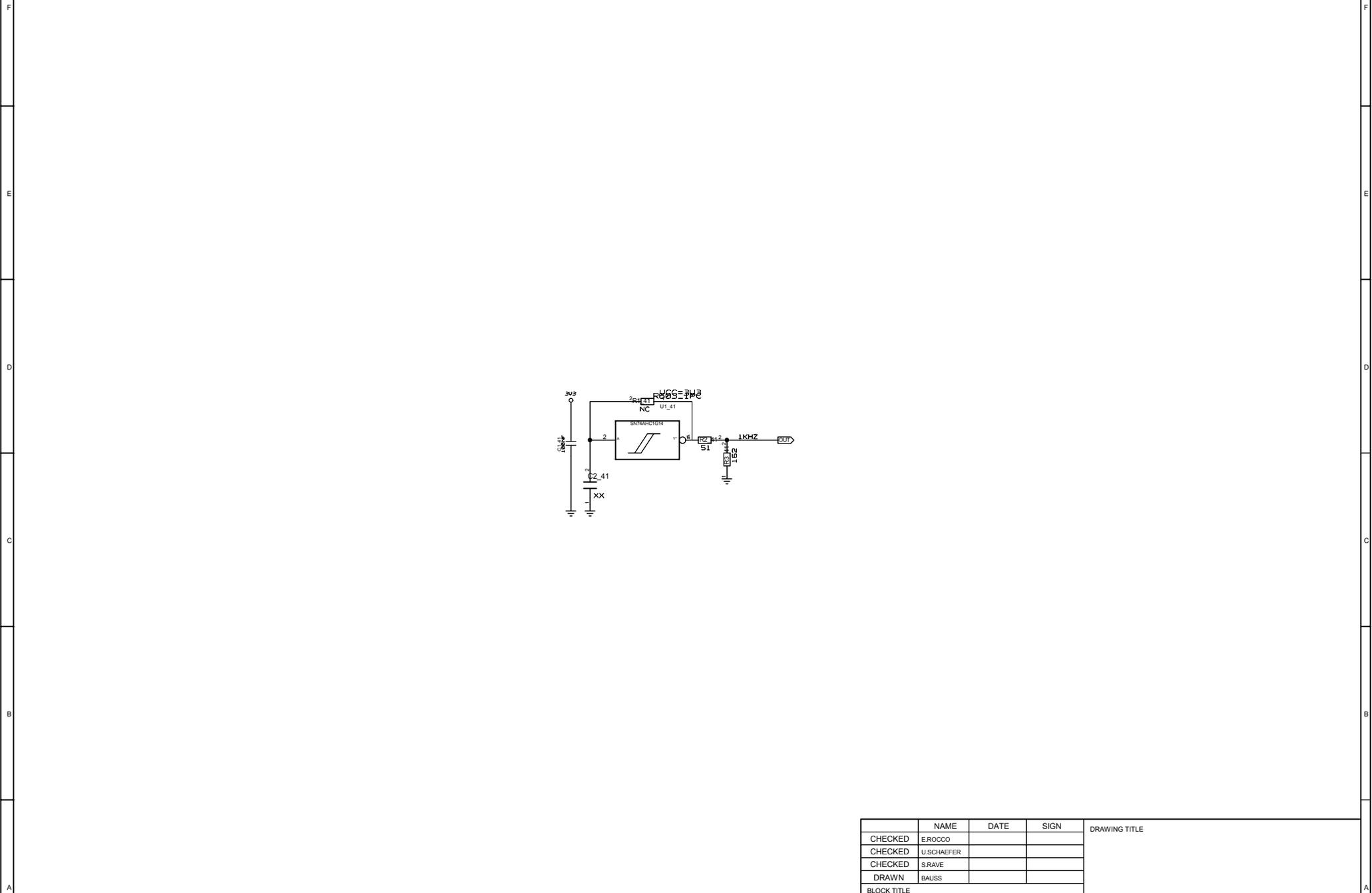


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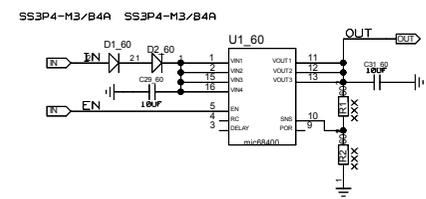
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CHECKED	S.RAVE			
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BLOCK TITLE <b>CLOCK_LVDS_LUCMOS</b>				
UNIVERSITY OF MAINZ			SIZE <b>C</b>	REV.
			SCALE	DRAWING NO.
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



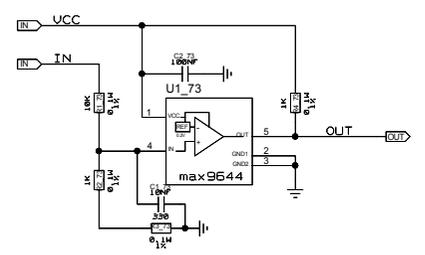
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



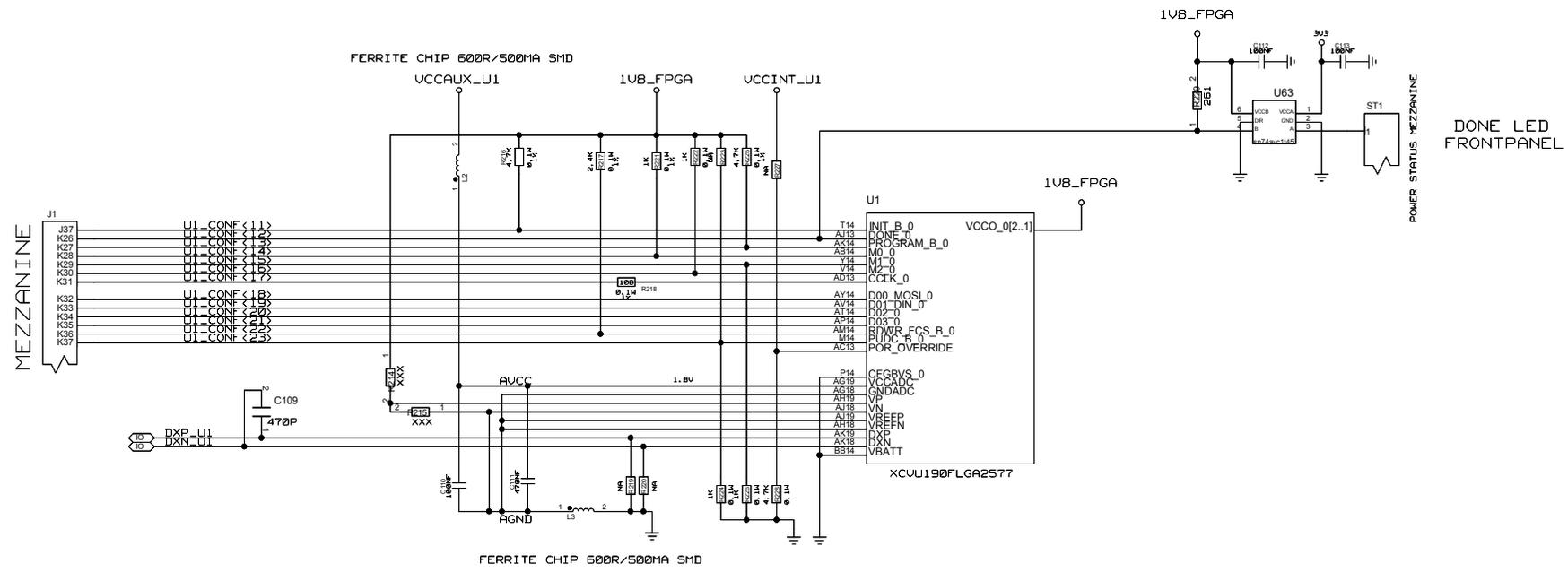
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		<b>C</b>		
SCALE				SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



MEZZANINE

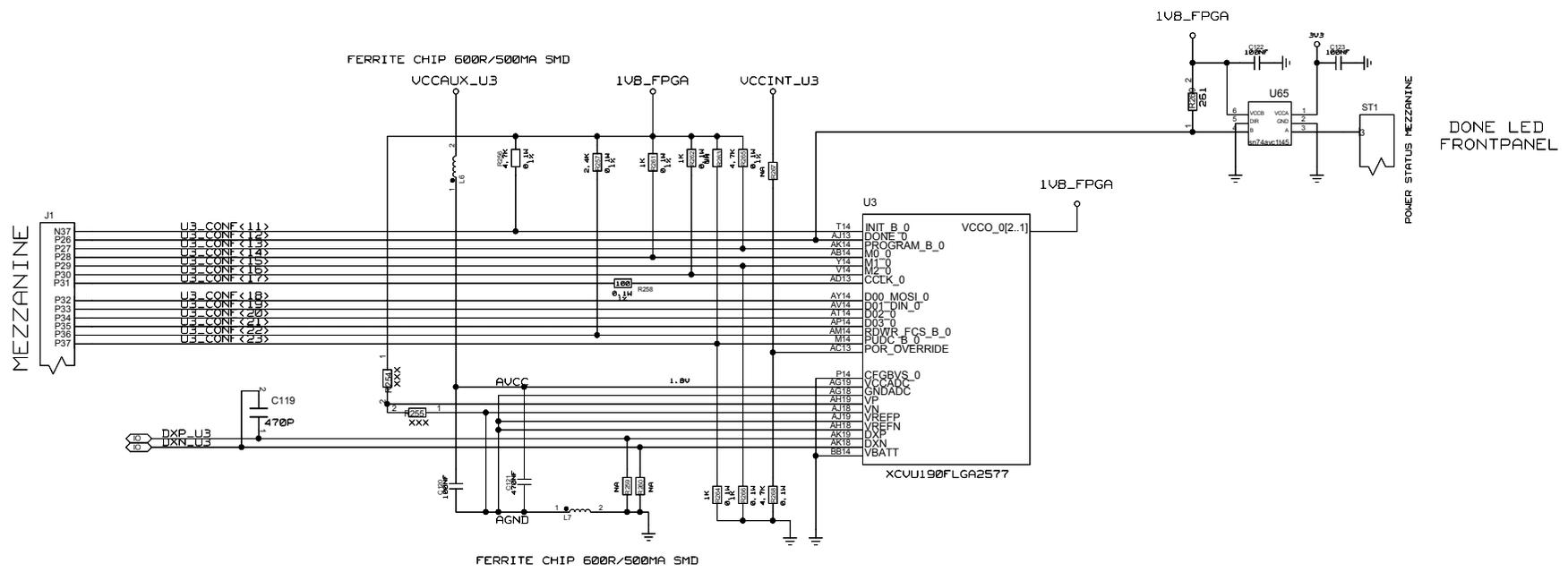
DONE LED FRONTPANEL

POWER STATUS MEZZANINE

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	S.RAVE					
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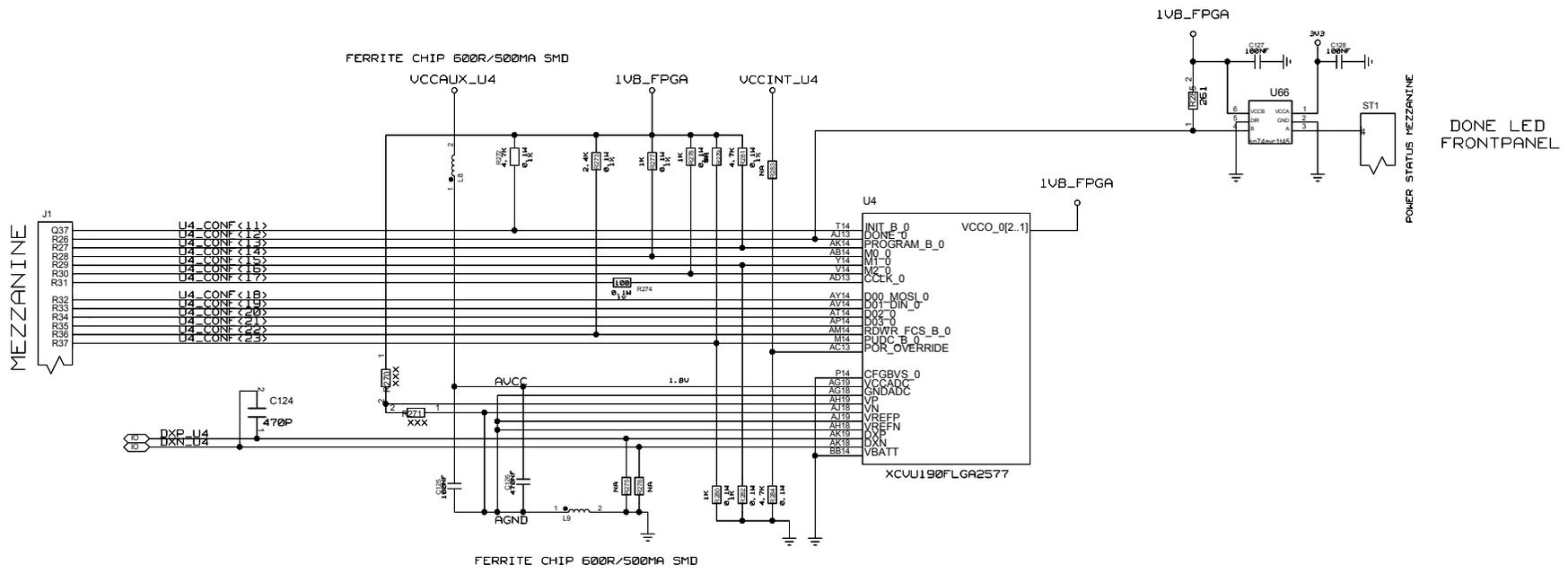


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



DONE LED  
FRONTPANEL

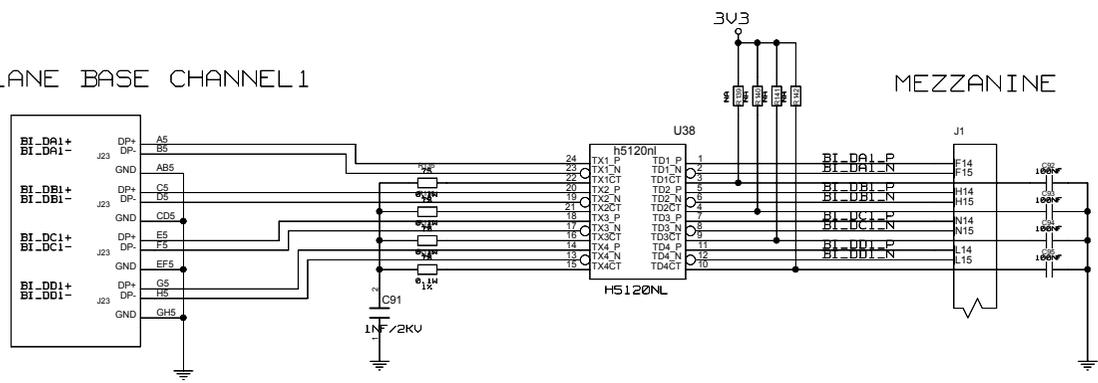
POWER STATUS MEZZANINE

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CHECKED	S.RAVE					
DRAWN	BAUSS					
BLOCK TITLE				SIZE	REV.	DRAWING NO.
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

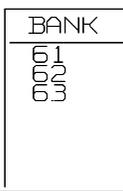
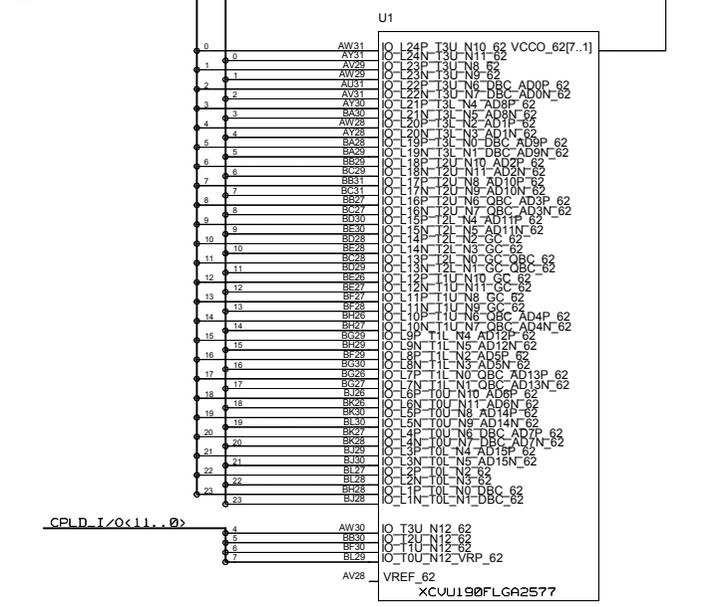
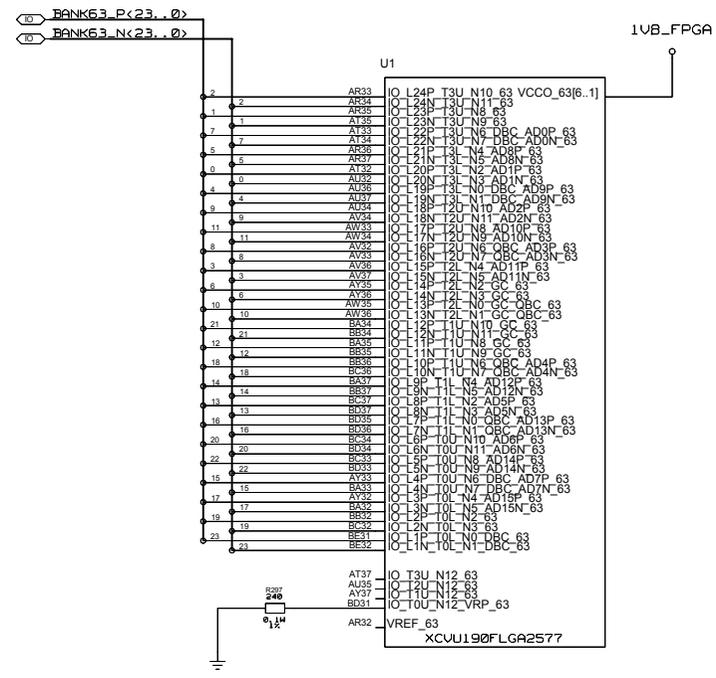
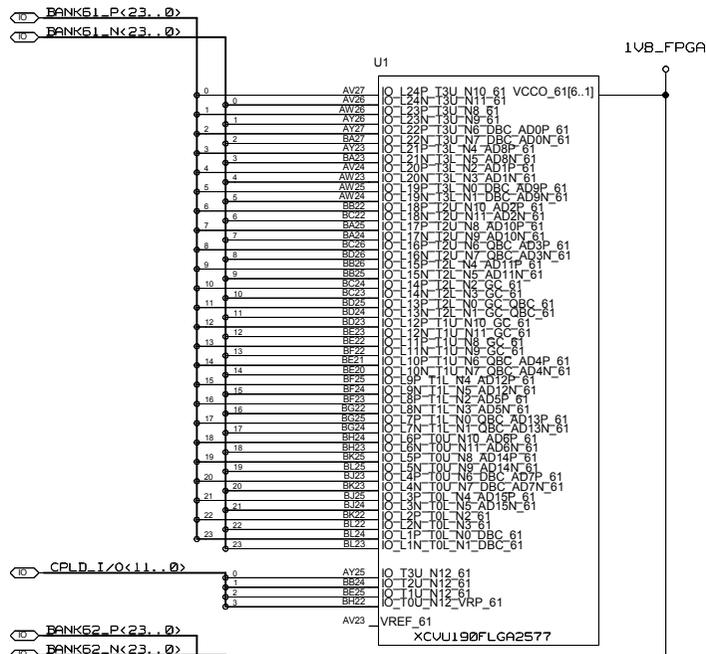
BACKPLANE BASE CHANNEL 1

MEZZANINE



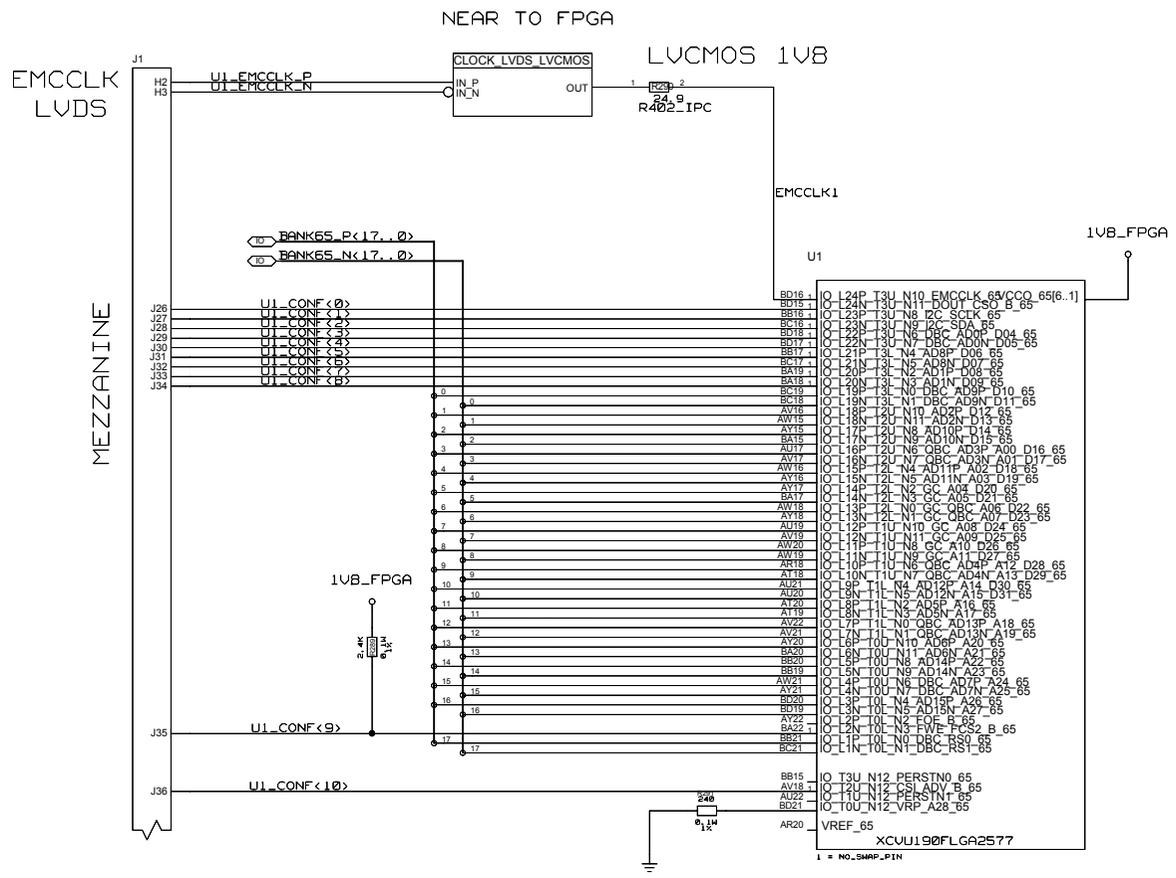
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BLOCK TITLE <h2>IPBUS</h2>				
UNIVERSITY OF MAINZ				SIZE <b>C</b>
SCALE				REV.
SHEET				DRAWING NO.
OF				

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



CHECKED	E.ROCCO	DATE	SIGN	DRAWING TITLE <b>JFEX</b>
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	25.08.2015		
BLOCK TITLE <b>U1_PARALLEL_I / O</b>				SIZE <b>C</b>
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
SHEET 1 OF 5				

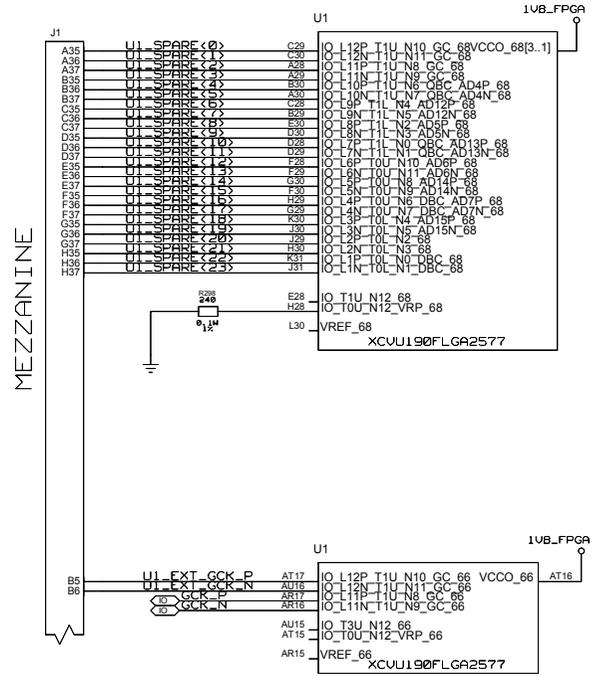
REVISONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK  
65

CHECKED	NAME	DATE	SIGN	DRAWING TITLE  <b>JFEX</b>
	E.ROCCO			
	U.SCHAEFER			
	S.RAVE			
	BAUSS	25.08.2015		
BLOCK TITLE <b>U1_PARALLEL_I/O</b>				SIZE <b>C</b>
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
				SHEET 2 OF 5

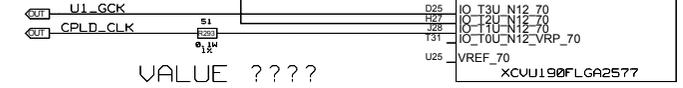
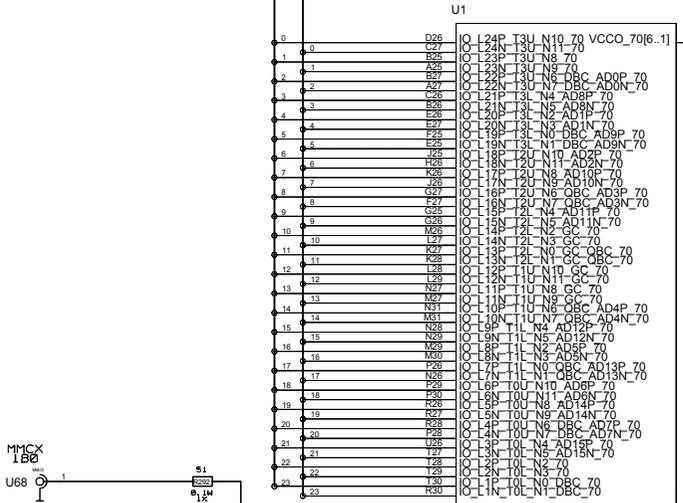
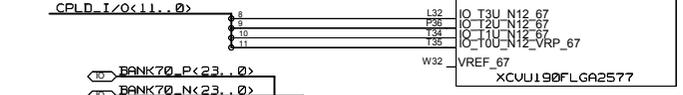
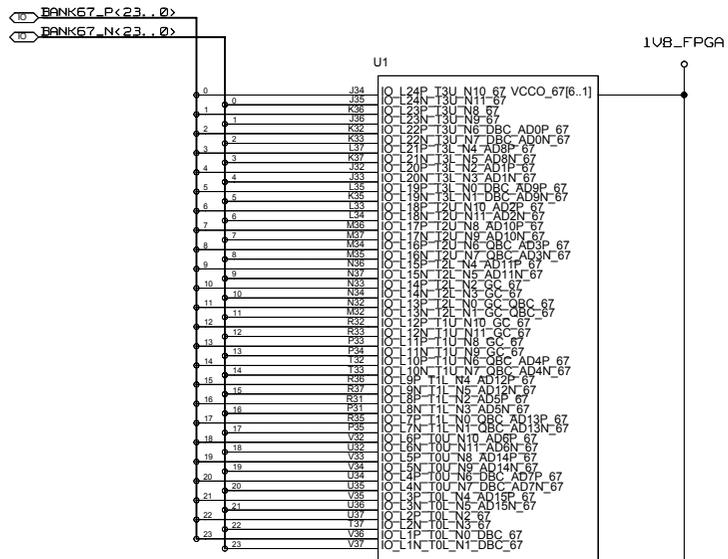
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK  
66  
68

CHECKED	NAME	DATE	SIGN	DRAWING TITLE	
	E.ROCCO			JFEX	
	U.SCHAEFER				
	S.RAVE				
	BAUSS	25.08.2015			
BLOCK TITLE				SIZE	DRAWING NO.
U1_PARALLEL_I/O				C	
UNIVERSITY OF MAINZ				SCALE	SHEET 3 OF 5

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

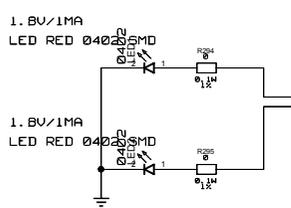
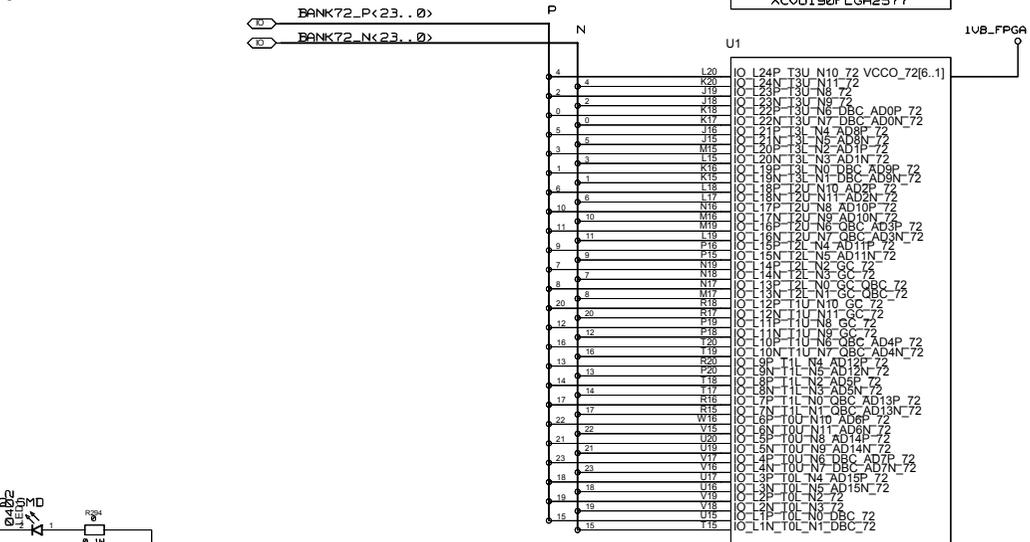
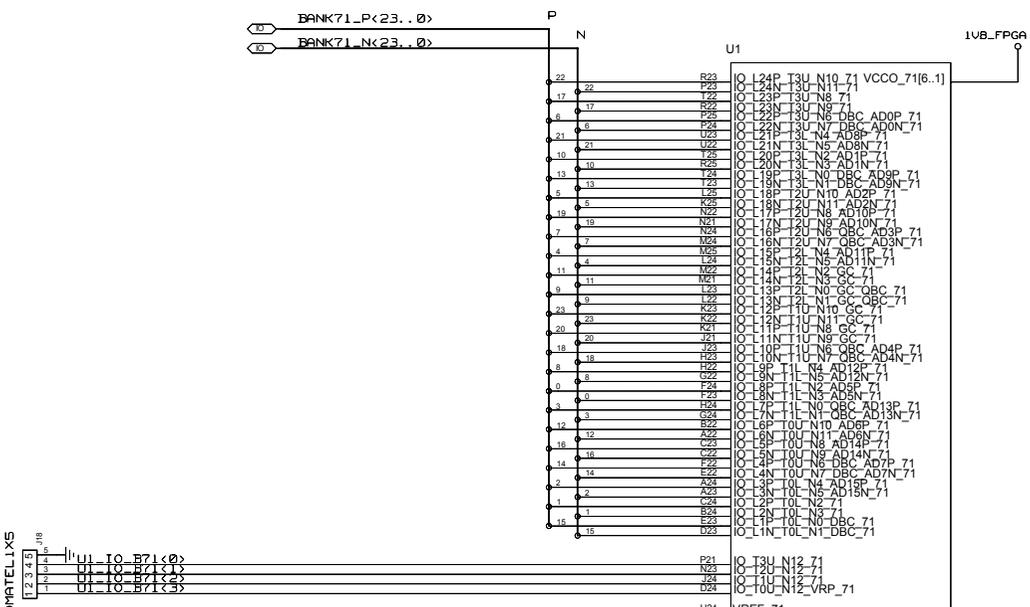


BANK  
67  
70

VALUE ????

CHECKED	NAME	DATE	SIGN	DRAWING TITLE	
	E.ROCCO			JFEX	
	U.SCHAEFER				
	S.RAVE				
	BAUSS	25.08.2015			
BLOCK TITLE					
U1_PARALLEL_I/O					
UNIVERSITY OF MAINZ				SIZE <b>C</b>	REV.
SCALE				DRAWING NO.	
				SHEET 4 OF 5	

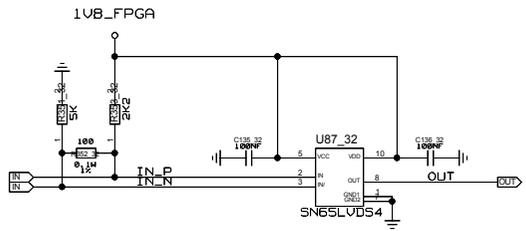
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK  
71  
72

CHECKED	NAME	DATE	SIGN	DRAWING TITLE
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	U.SCHAEFER			
	S.RAVE			
	BAUSS	25.08.2015		
BLOCK TITLE				
UNIVERSITY OF MAINZ				U1_PARALLEL_I/O
SIZE		REV.	DRAWING NO.	
SCALE			SHEET 5 OF 5	

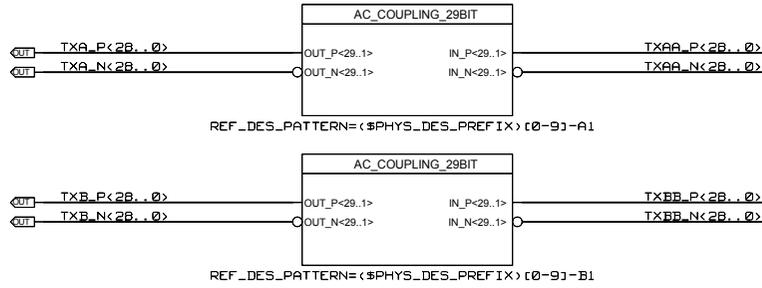
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

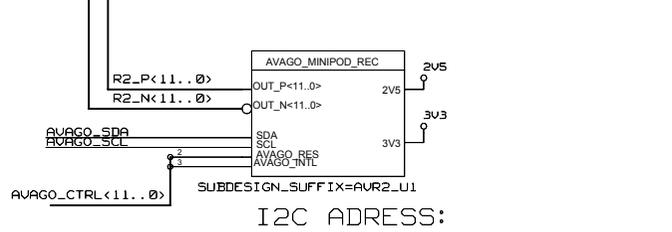
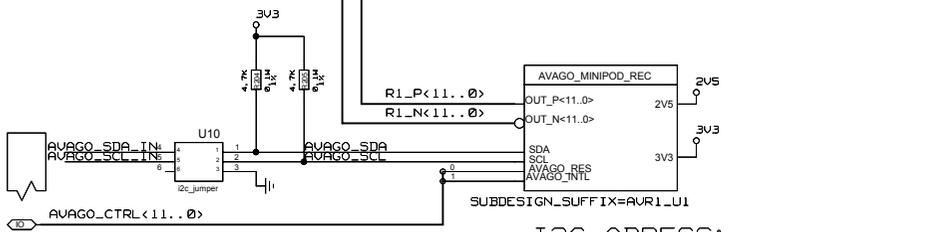
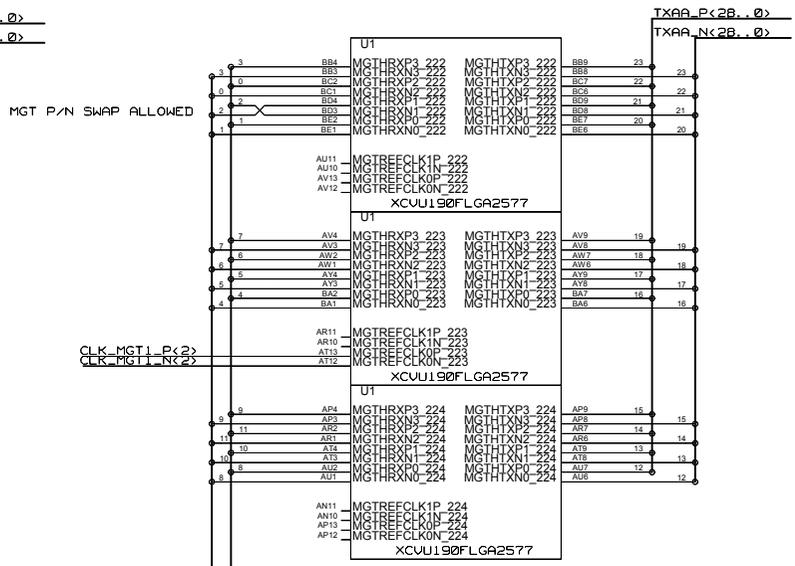
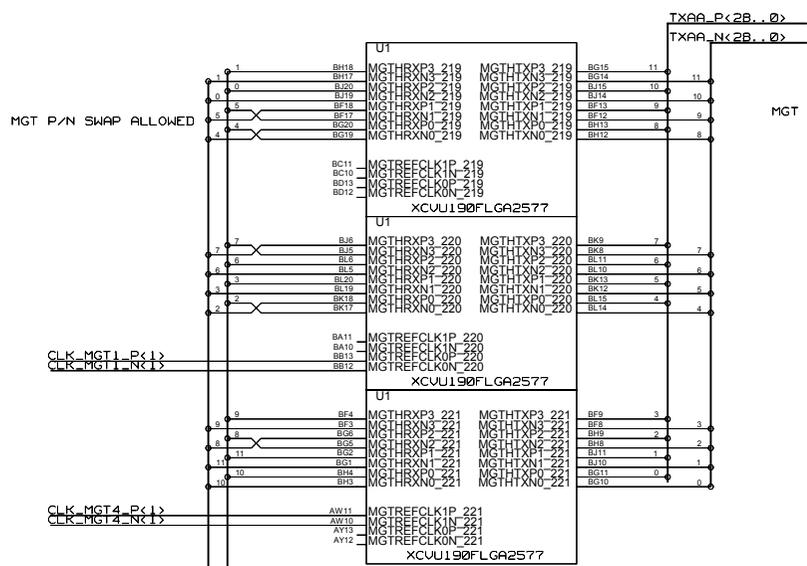
## AC COUPLING



IN> CLK\_MGT1\_P<12..1>  
 IN> CLK\_MGT1\_N<12..1>  
 IN> CLK\_MGT2\_P<6..1>  
 IN> CLK\_MGT2\_N<6..1>  
  
 IN> CLK\_MGT4\_P<3..1>  
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CHECKED	E.ROCCO			DRAWING TITLE  <b>I/O + AC COUPLING</b>
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE <b>U1_MGT_REAL_TIME</b>				
UNIVERSITY OF MAINZ				SIZE <b>C</b>
				REV.
				DRAWING NO.
				SCALE
				SHEET 1 OF 7

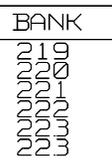
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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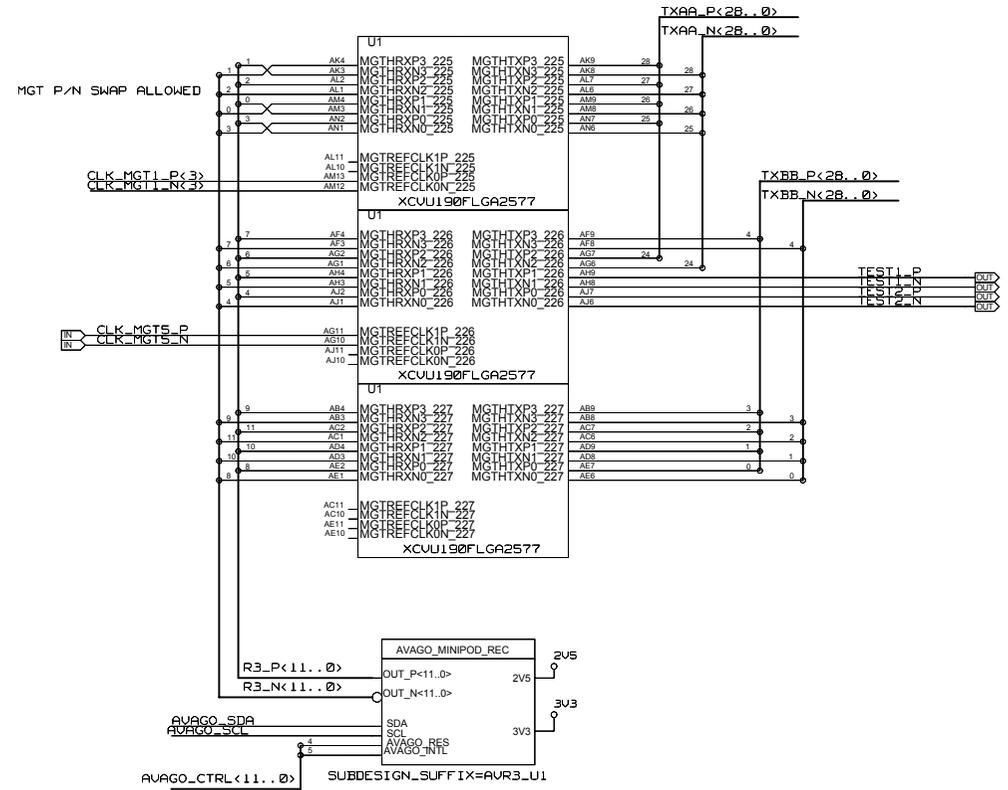
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 R5=XXX R6=XXX  
 R7=XXX R8=XXX

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



CHECKED	NAME	DATE	SIGN	DRAWING TITLE
	E.ROCCO			AVAGO TXA
	U.SCHAEFER			
	S.RAVE			
	BAUSS	07.08.2015		
BLOCK TITLE				DRAWING NO.
U1_MGT_REAL_TIME				
UNIVERSITY OF MAINZ				SHEET 2 OF 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

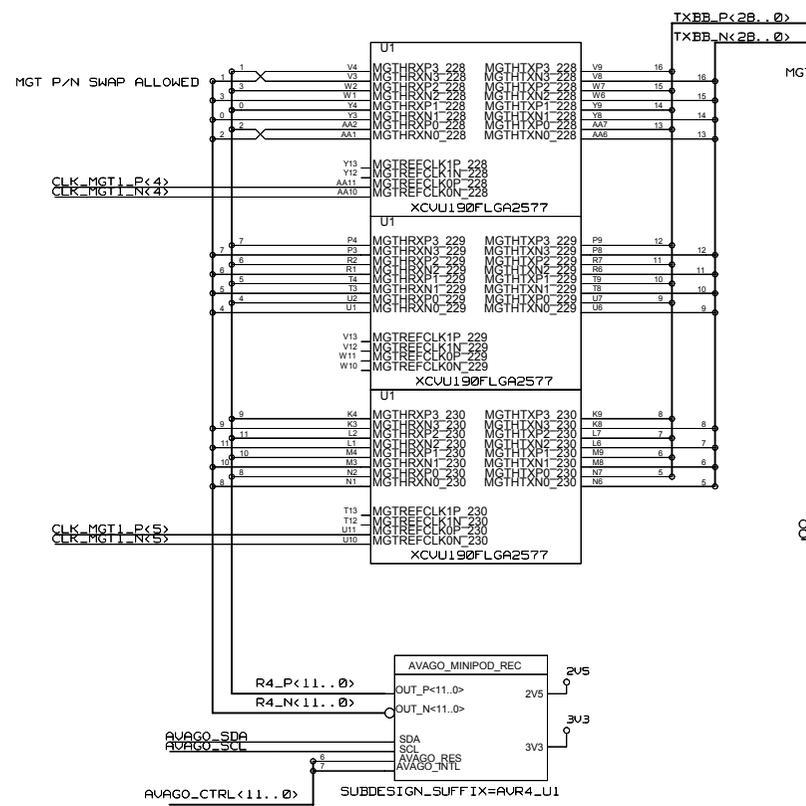


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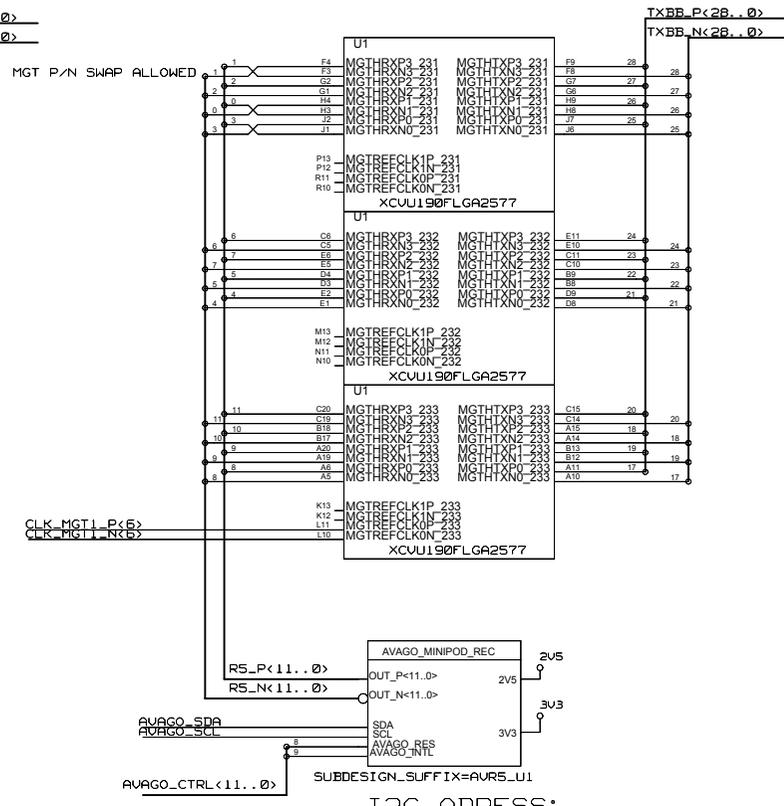
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CHECKED	E.ROCCO			AVAGO TXA + TXB		
CHECKED	U.SCHAEFER					
CHECKED	S.RAVE					
DRAWN	BAUSS	07.08.2015				
BLOCK TITLE				SIZE	REV.	DRAWING NO.
U1_MGT_REAL_TIME				C		
UNIVERSITY OF MAINZ				SCALE		SHEET 3 OF 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



I2C ADDRESS:

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R5=XXXX	R6=XXXX
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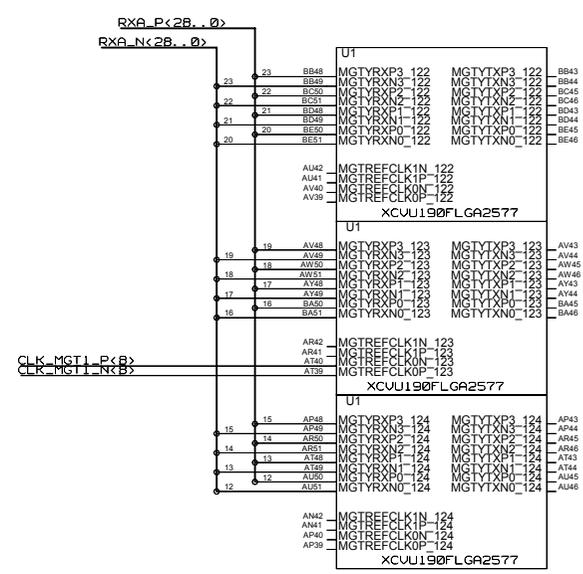
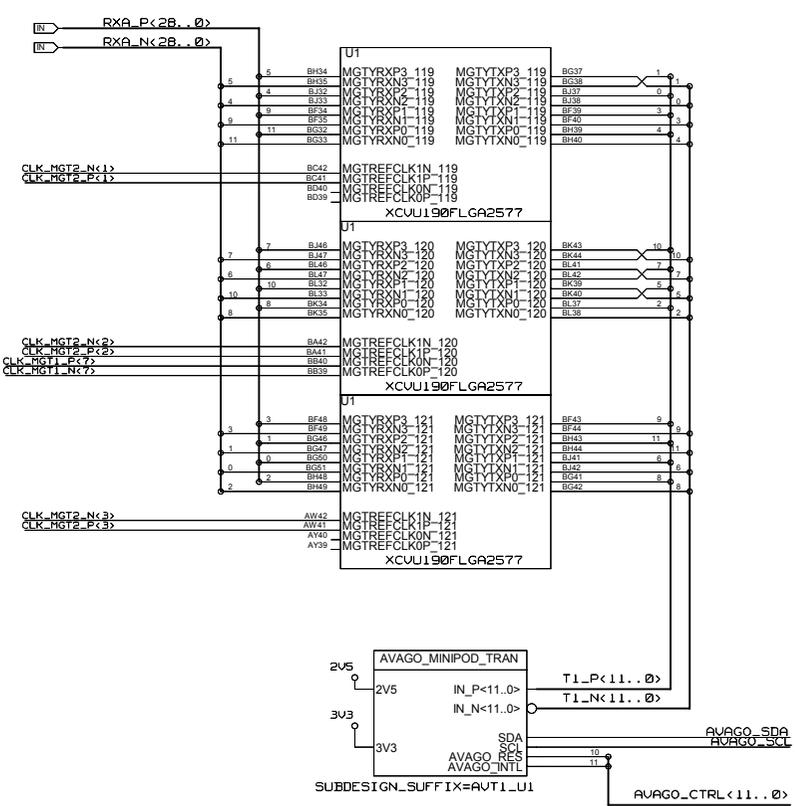
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CHECKED U.SCHAEFER					
CHECKED S.RAVE					
DRAWN BAUSS	07.08.2015				
BLOCK TITLE			SIZE	REV.	DRAWING NO.
U1_MGT_REAL_TIME			C		
UNIVERSITY OF MAINZ			SCALE		SHEET 4 OF 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

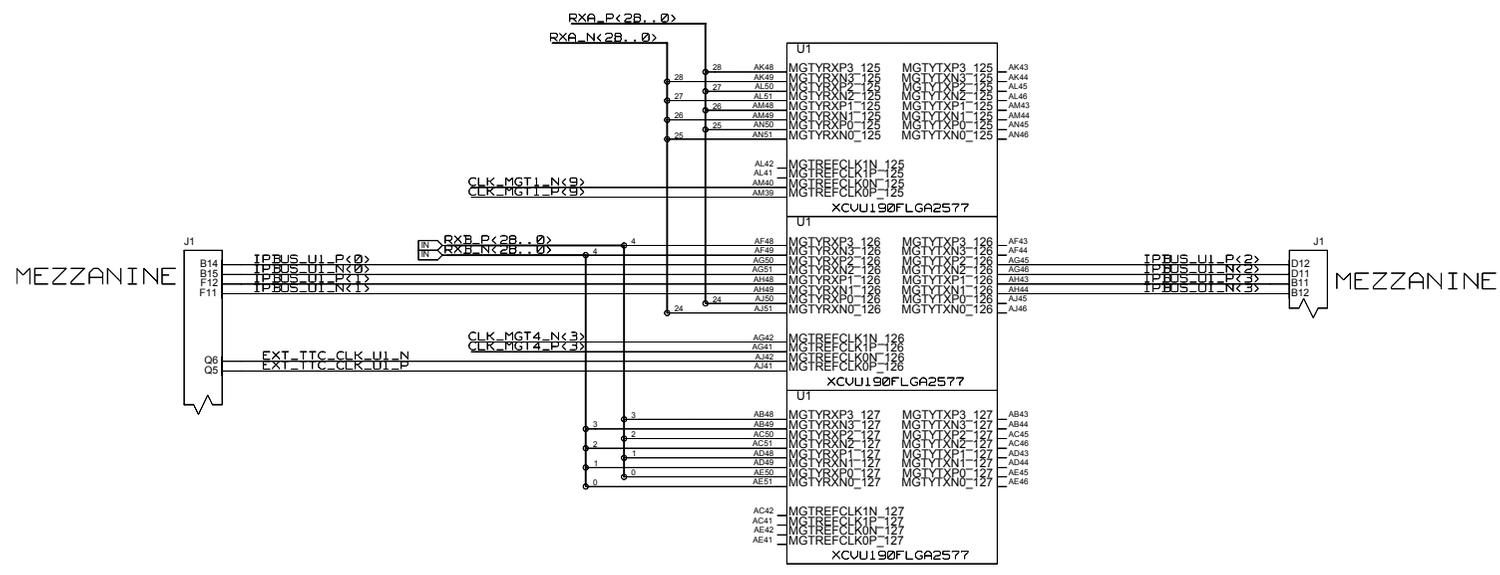


I2C ADDRESS:  
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 D2=XXXX D3=XXXX  
 D4=XXXX D5=XXXX

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CHECKED	NAME	DATE	SIGN	DRAWING TITLE		
	E.ROCCO				AVAGO RXA	
	U.SCHAEFER					
	S.RAVE					
	BAUSS	07.08.2015				
BLOCK TITLE				SIZE	REV.	DRAWING NO.
U1_MGT_REAL_TIME				C		
UNIVERSITY OF MAINZ				SCALE		SHEET 5 OF 7

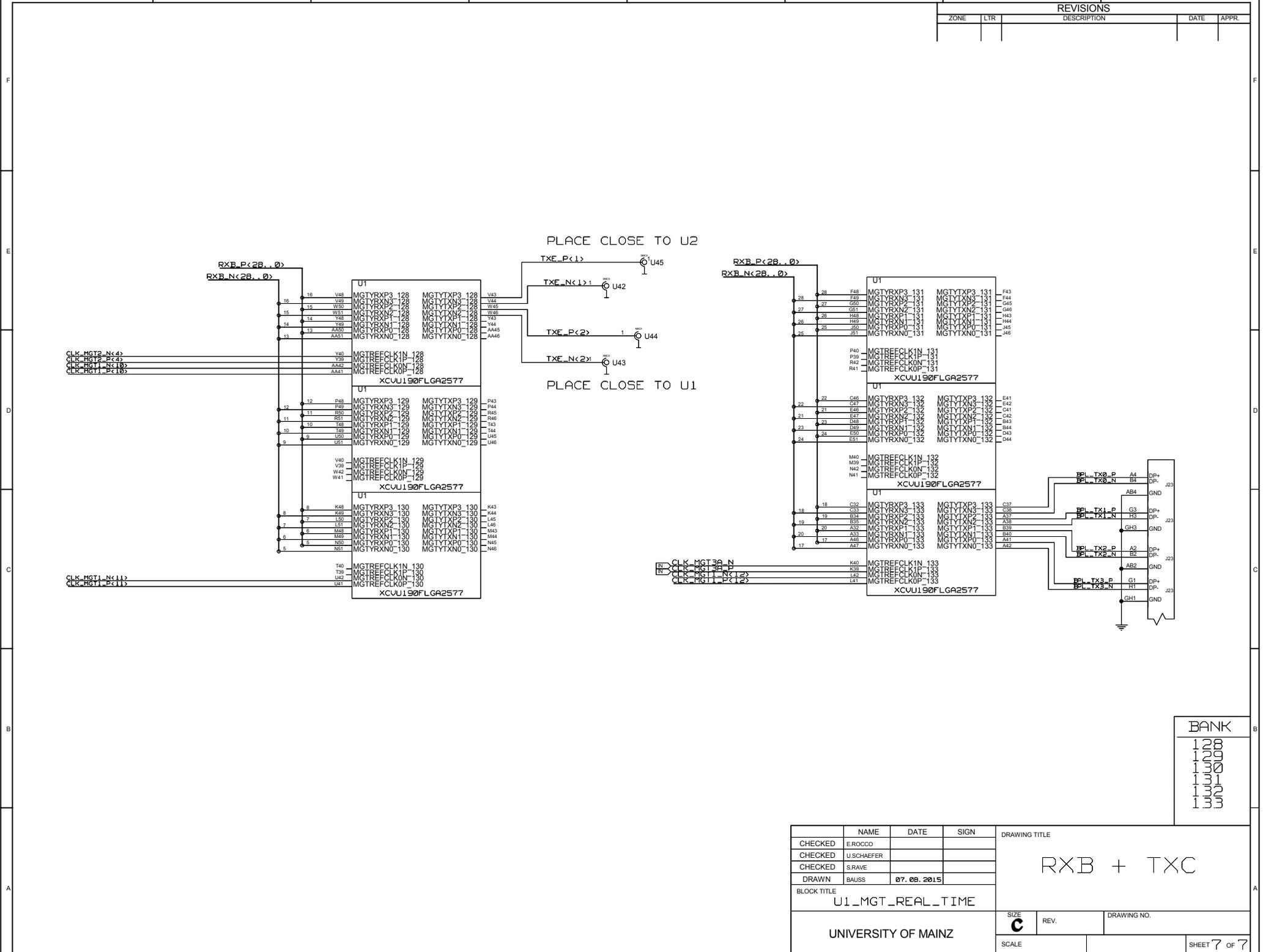
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK
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1209
1210

CHECKED	NAME	DATE	SIGN	DRAWING TITLE  RXA + RXB TXD + IPBUS
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	U.SCHAEFER			
	S.RAVE			
	BAUSS	07.08.2015		
BLOCK TITLE U1_MGT_REAL_TIME				SIZE <b>C</b>
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
				SHEET 6 OF 7

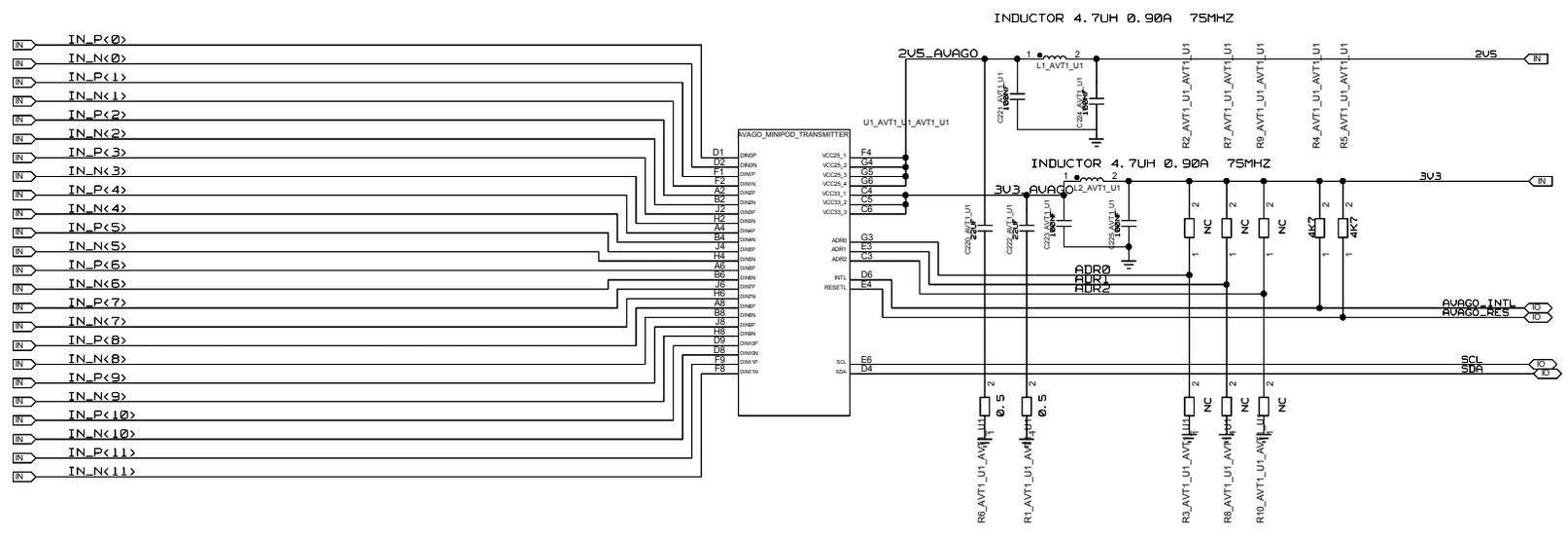
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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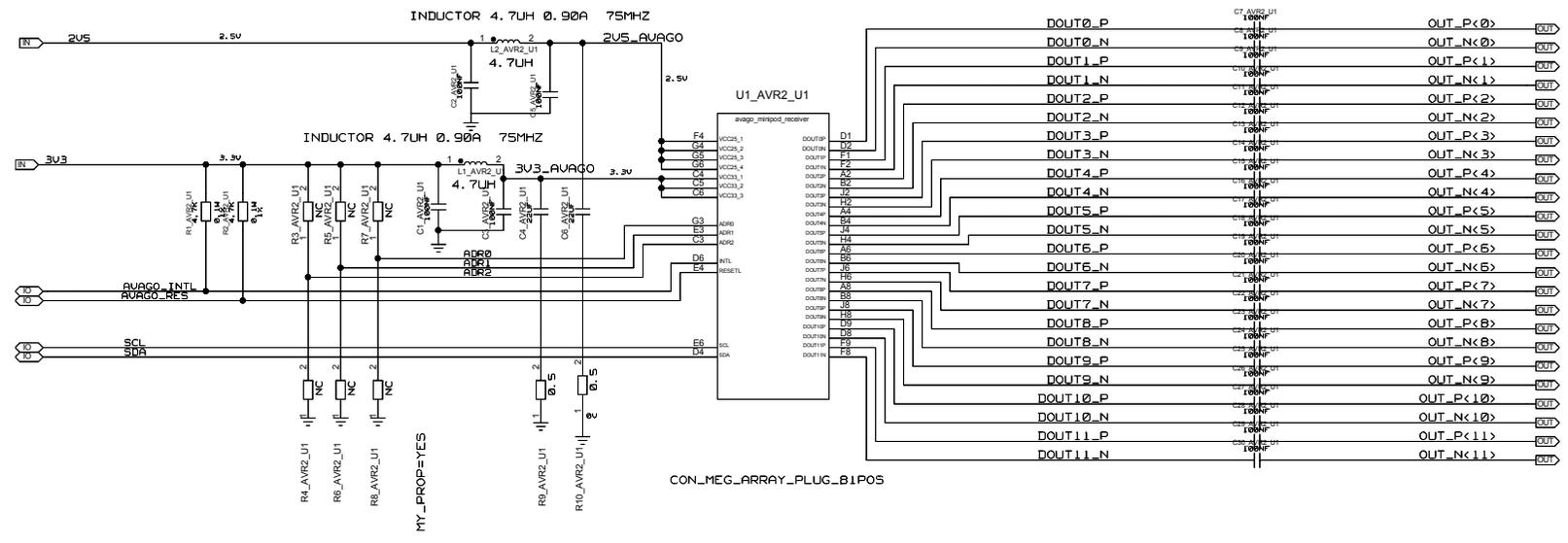
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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE <b>U1_MGT_REAL_TIME</b>				
UNIVERSITY OF MAINZ		SIZE <b>C</b>	REV.	DRAWING NO.
SCALE				SHEET 7 OF 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



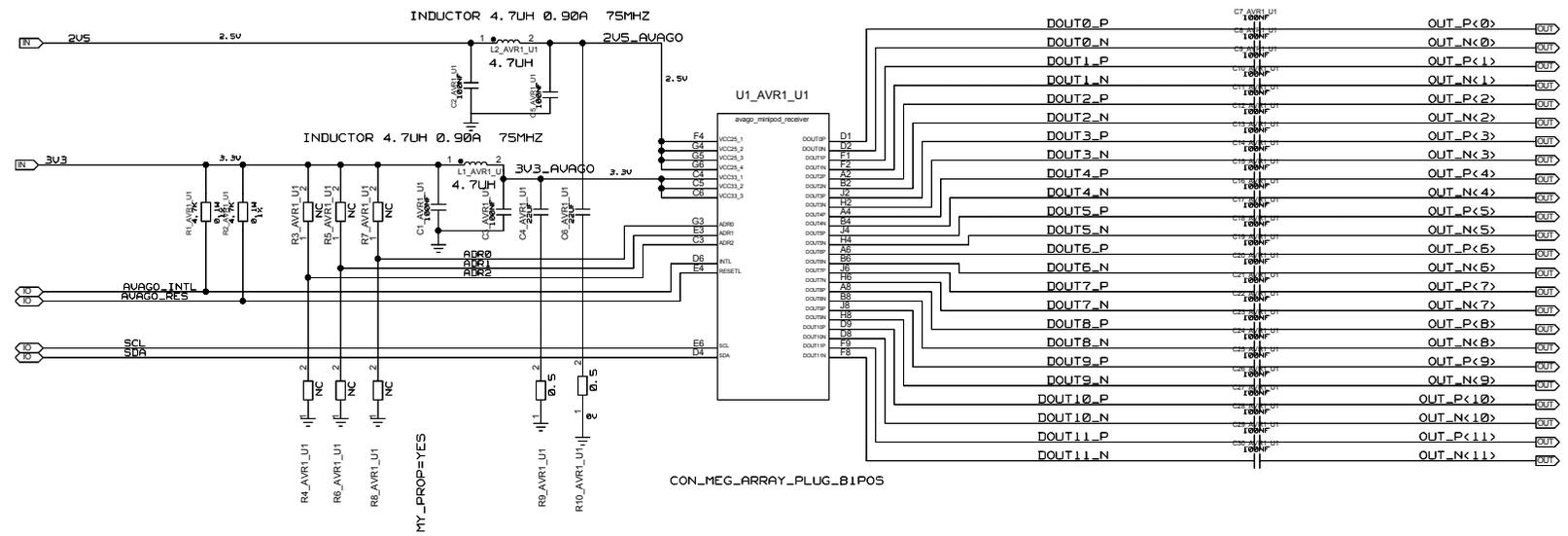
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SCALE		SHEET OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



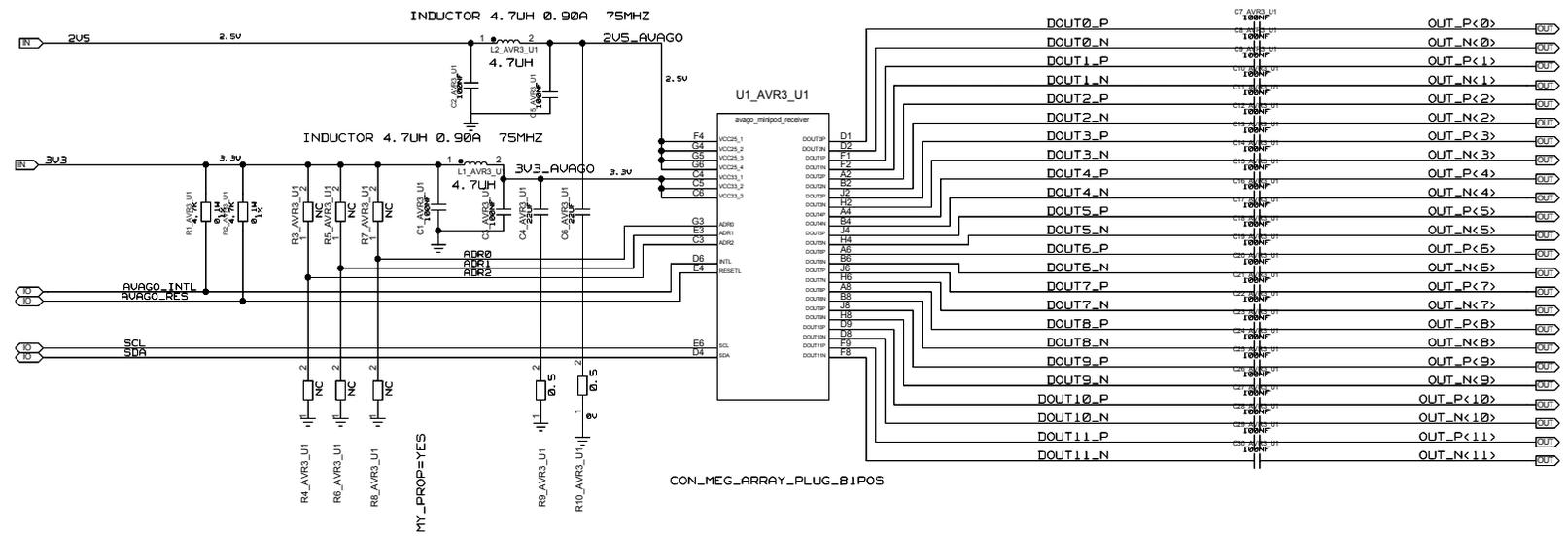
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		AVAGO RECEIVER	
SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



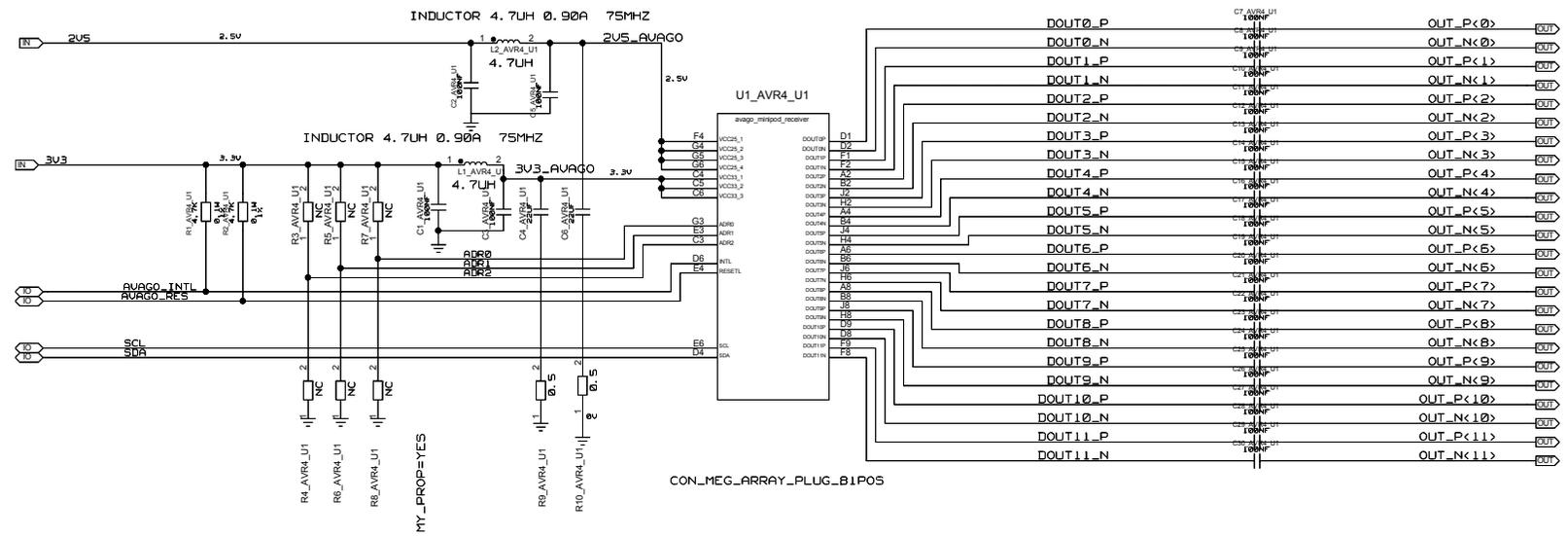
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C			
SCALE		SHEET OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



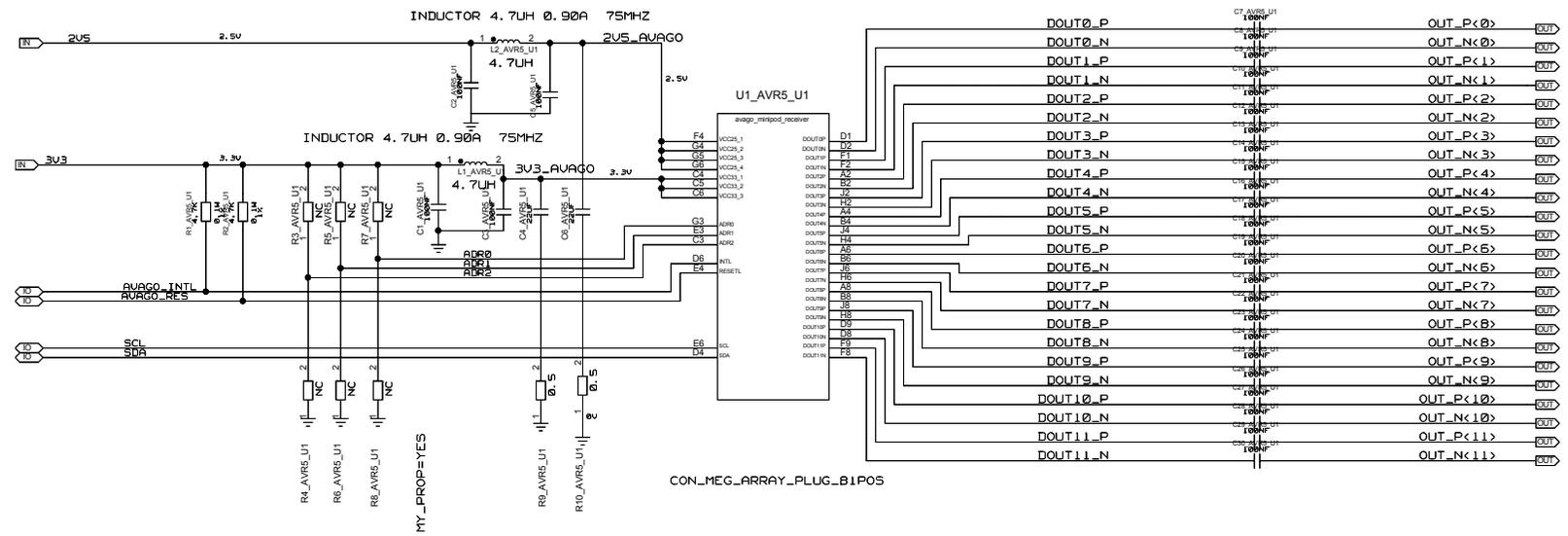
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		AVAGO RECEIVER	
SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

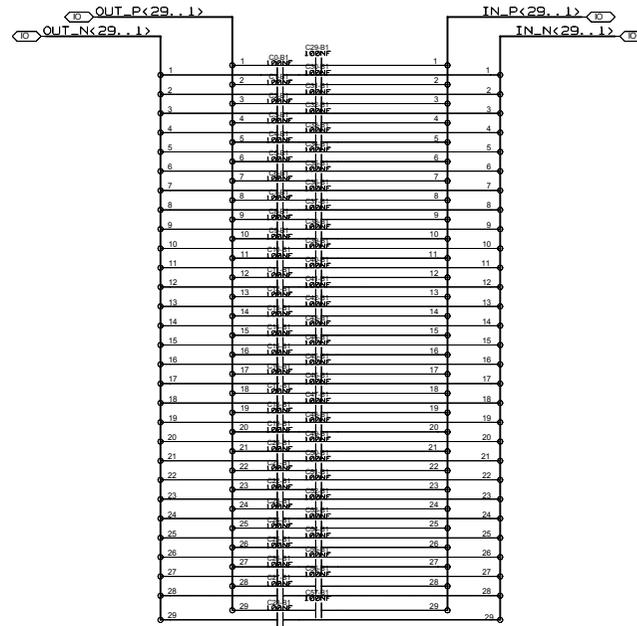
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



CON\_MEG\_ARRAY\_PLUG\_B1POS

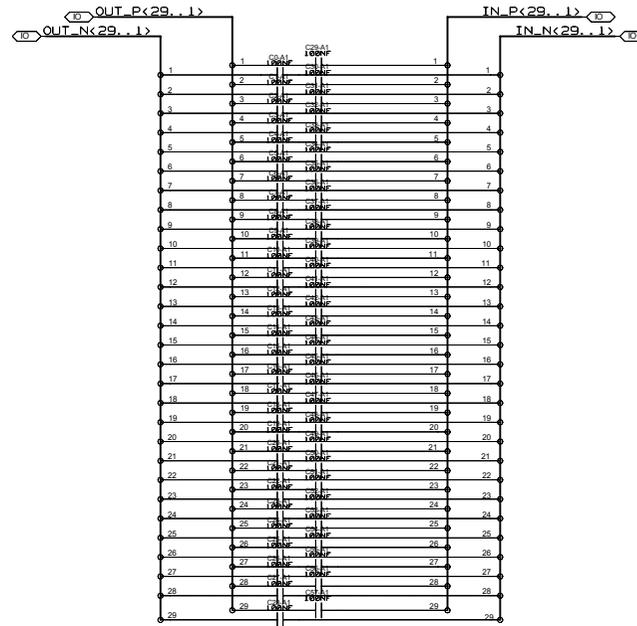
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		AVAGO RECEIVER	
SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



CHECKED	NAME	DATE	SIGN	DRAWING TITLE  AC COUPLING 29BIT	
CHECKED	E.ROCCO				
CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS			BLOCK TITLE	
UNIVERSITY OF MAINZ				SIZE <b>C</b>	REV.
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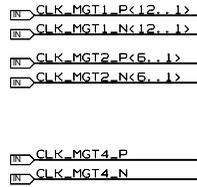
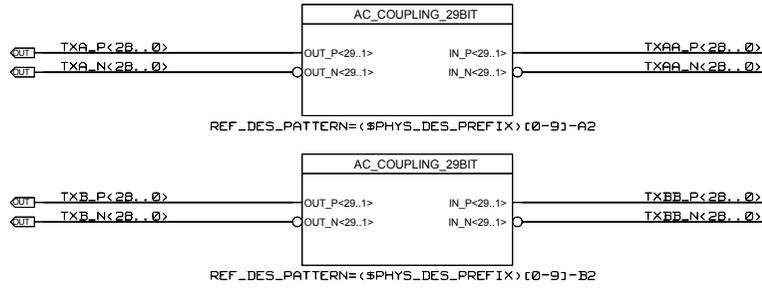
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

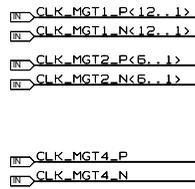
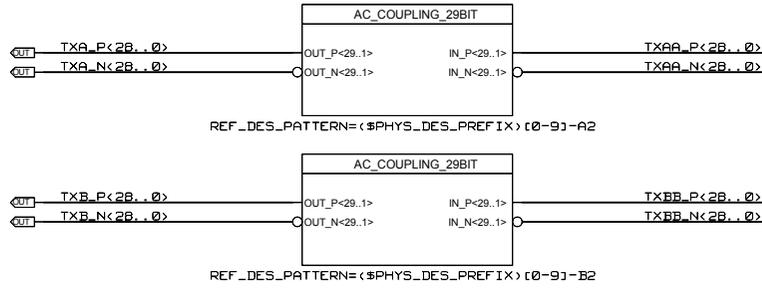
# AC COUPLING



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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE <b>U1_MGT_REAL_TIME</b>				
UNIVERSITY OF MAINZ		SIZE <b>C</b>	REV.	DRAWING NO.
SCALE				SHEET 1 OF 7

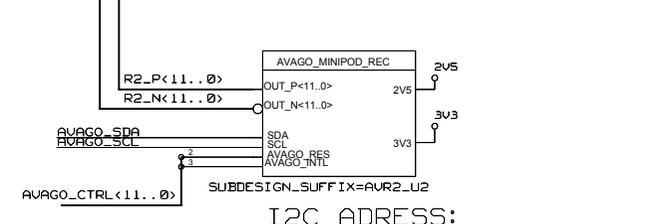
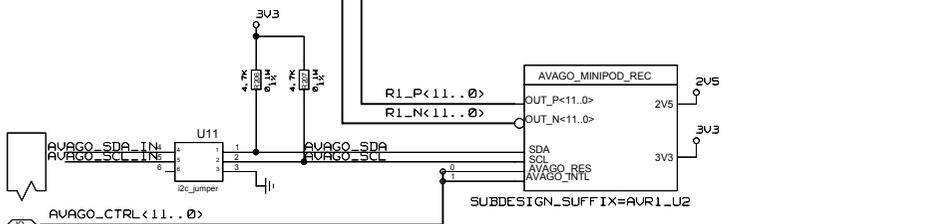
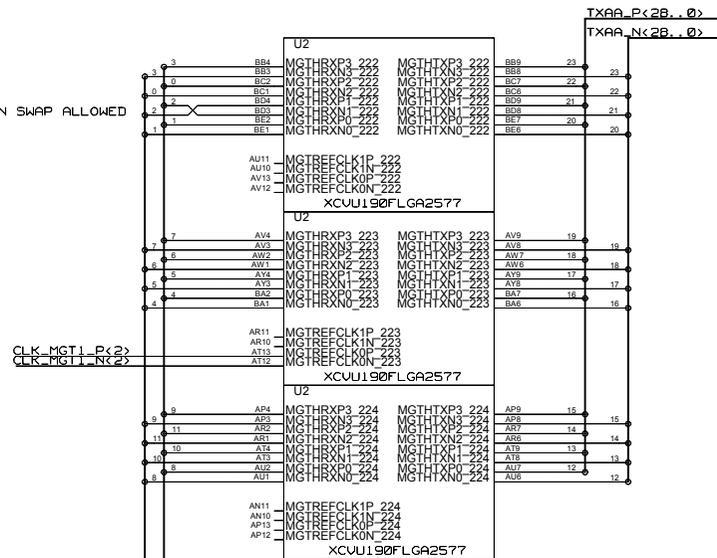
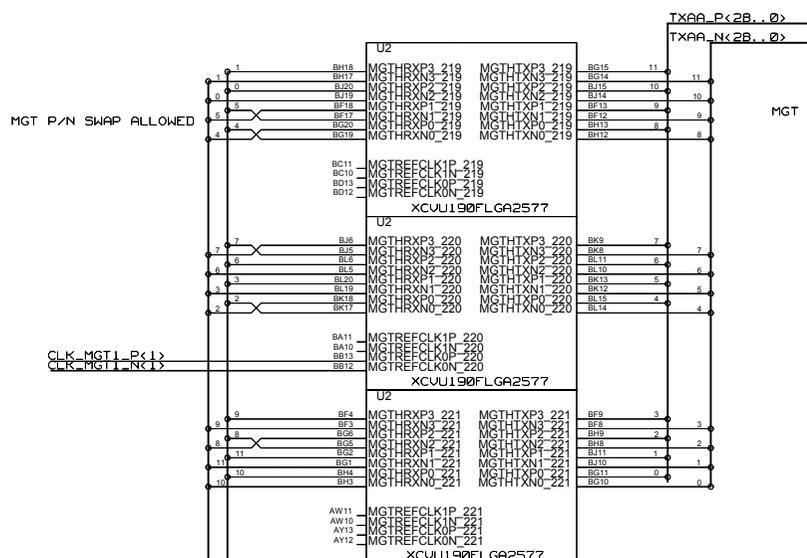
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

# AC COUPLING



CHECKED	E.ROCCO			DRAWING TITLE <b>I/O + AC COUPLING</b>
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE <b>U1_MGT_REAL_TIME</b>				
UNIVERSITY OF MAINZ		SIZE <b>C</b>	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

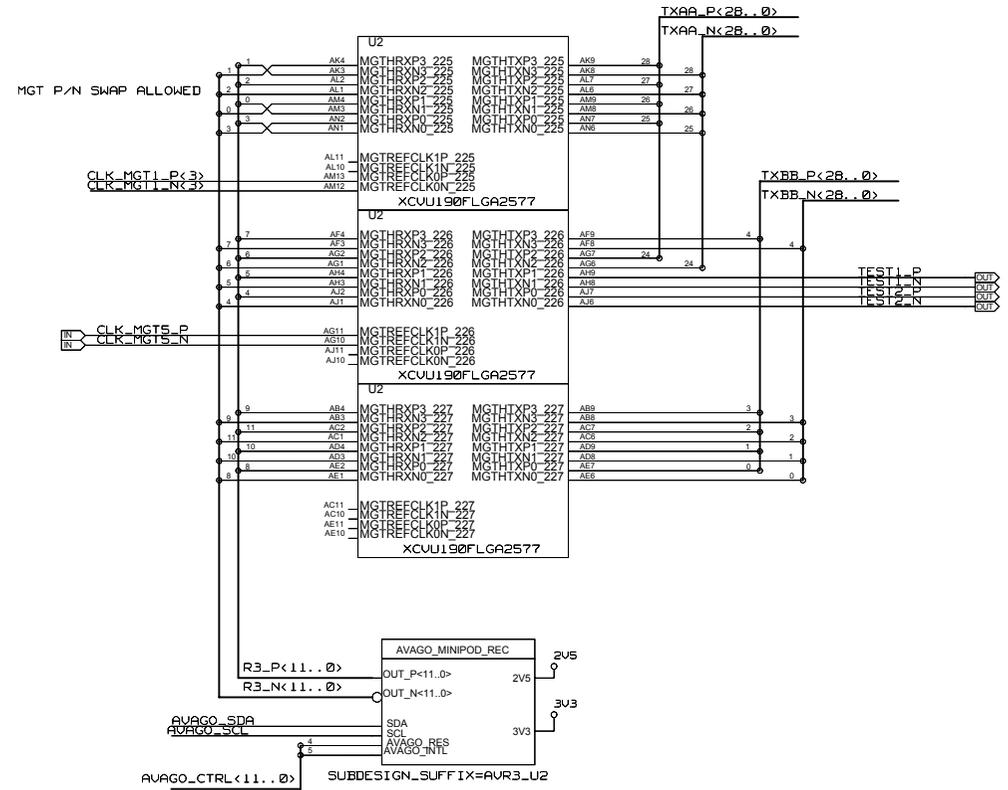
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 R7=XXX R8=XXX

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



CHECKED	E.ROCCO	DATE	SIGN	DRAWING TITLE  <b>AVAGO TXA</b>
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE	U2_MGT_REAL_TIME			
UNIVERSITY OF MAINZ				SIZE <b>C</b> REV.
SCALE				DRAWING NO.
				SHEET 2 OF 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



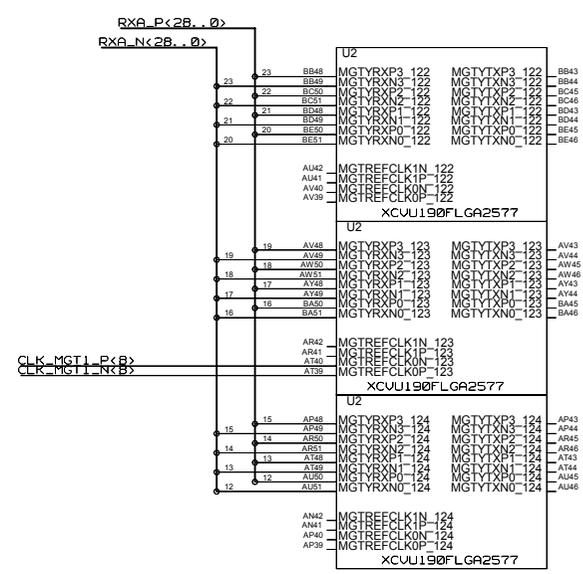
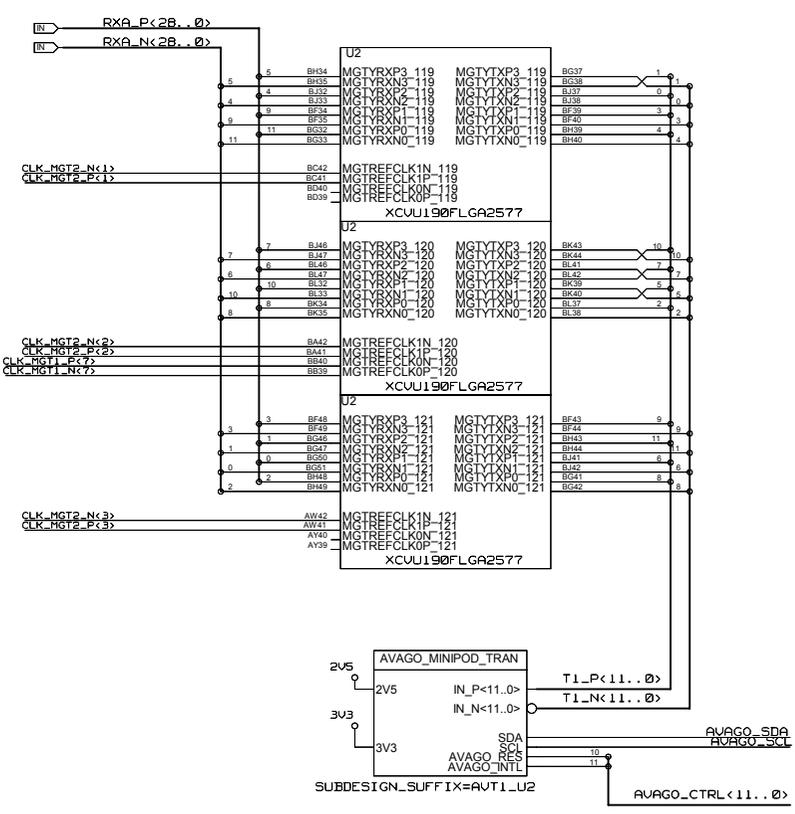
I2C ADDRESS:  
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R5=XXXX R6=XXXX  
R7=XXXX R8=XXXX

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CHECKED	NAME	DATE	SIGN	DRAWING TITLE  <b>AVAGO TXA + TXB</b>		
CHECKED	E.ROCCO					
CHECKED	U.SCHAEFER					
CHECKED	S.RAVE					
DRAWN	BAUSS	07.08.2015				
BLOCK TITLE <b>U3_MGT_REAL_TIME</b>				SIZE <b>C</b>	REV.	DRAWING NO.
UNIVERSITY OF MAINZ				SCALE	SHEET 3 OF 7	



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

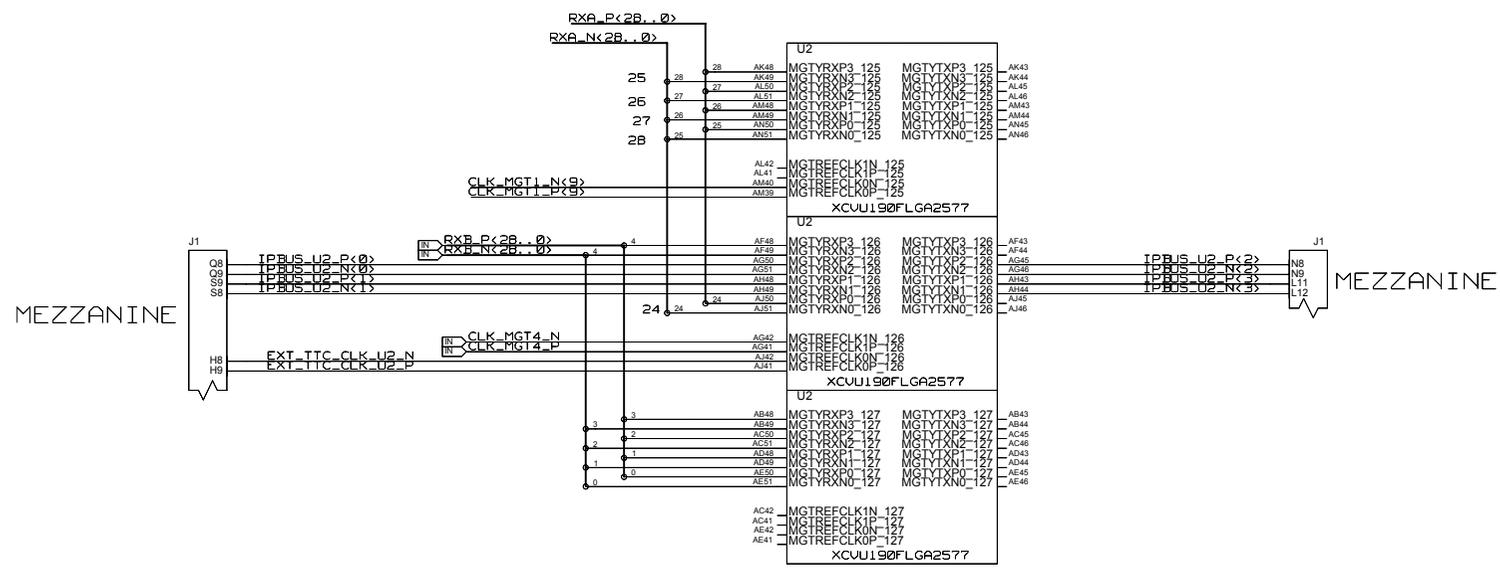


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 D2=XXXX D3=XXXX  
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BANK
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CHECKED	NAME	DATE	SIGN	DRAWING TITLE  <b>AVAGO RXA</b>
	E.ROCCO			
	U.SCHAEFER			
	S.RAVE			
	BAUSS	07.08.2015		
BLOCK TITLE <b>U2_MGT_REAL_TIME</b>				SIZE <b>C</b>
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
				SHEET 5 OF 7

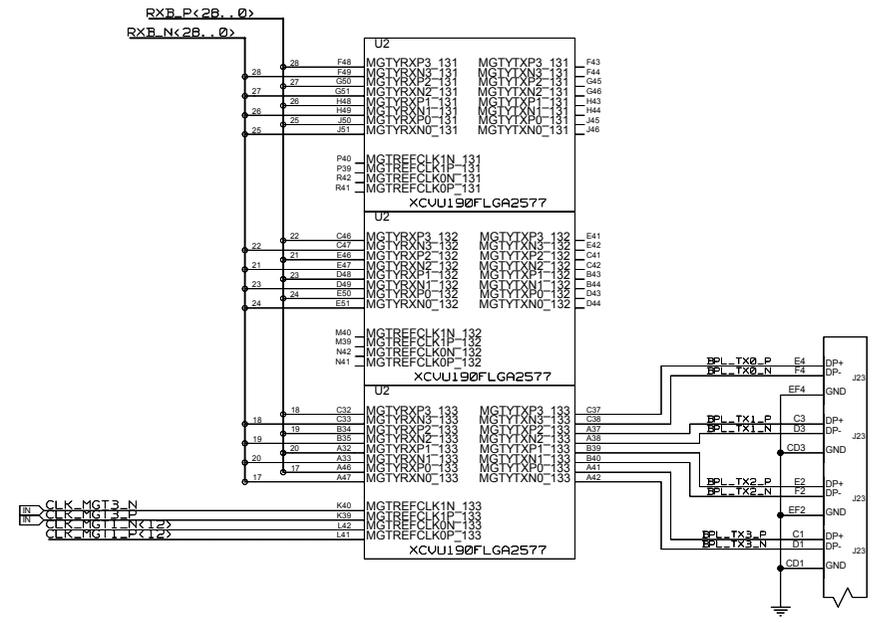
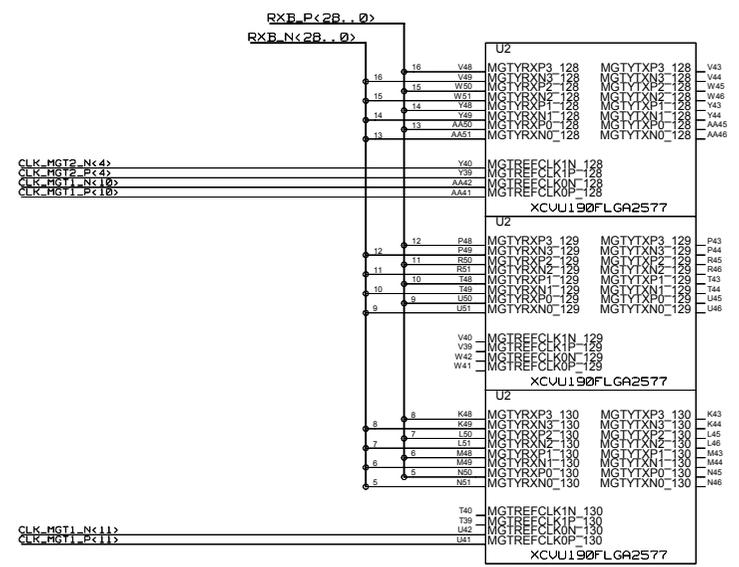
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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1207
1208
1209
1210

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

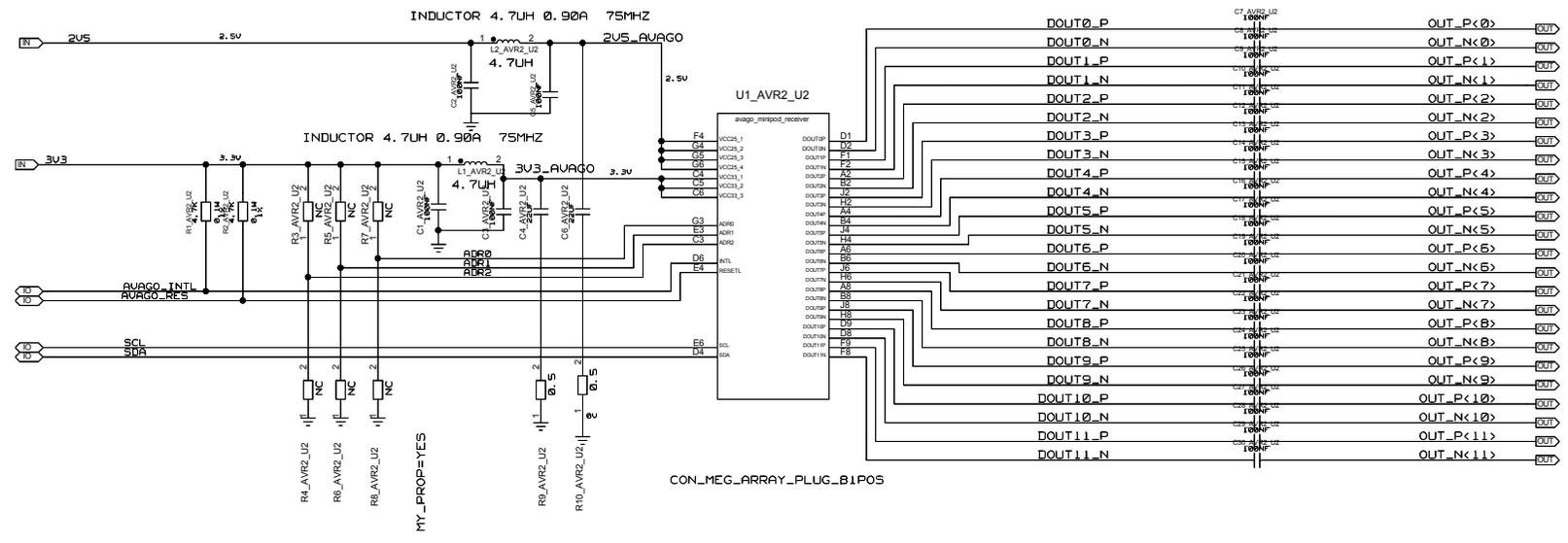
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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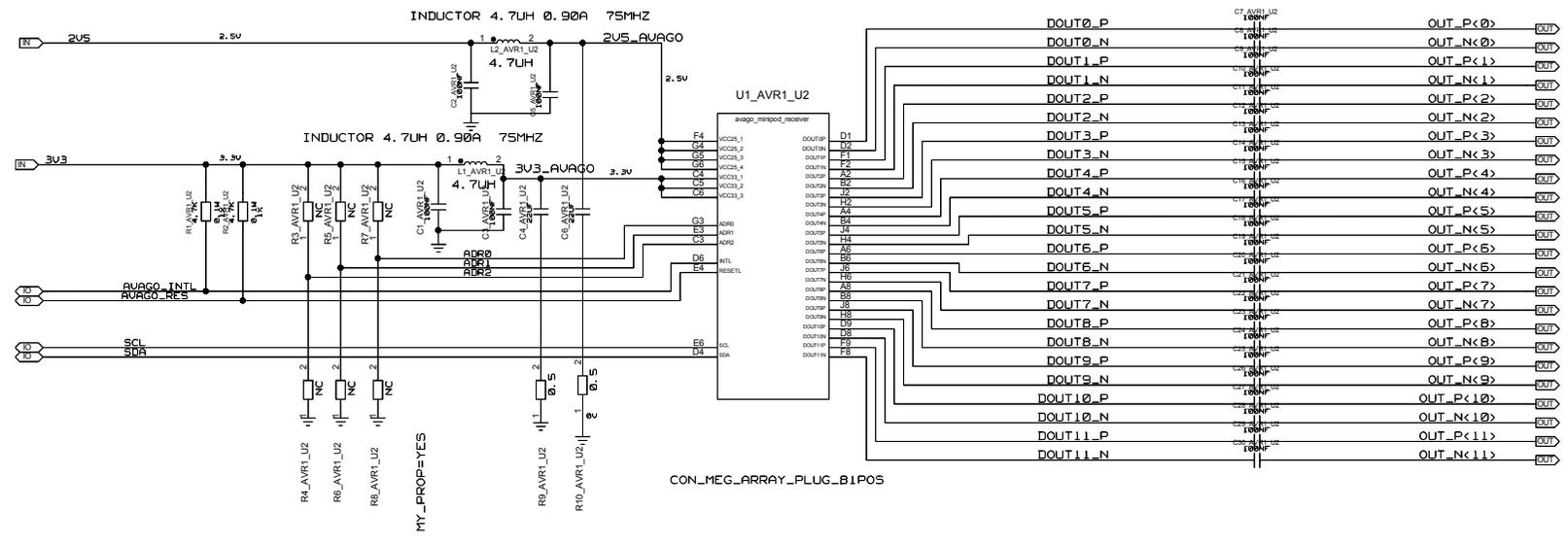
CHECKED	E.ROCCO	DATE	SIGN	DRAWING TITLE  <b>RXB + TXC</b>
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE <b>U2_MGT_REAL_TIME</b>				
UNIVERSITY OF MAINZ		SIZE <b>C</b>	REV.	DRAWING NO.
SCALE				SHEET 7 OF 7

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



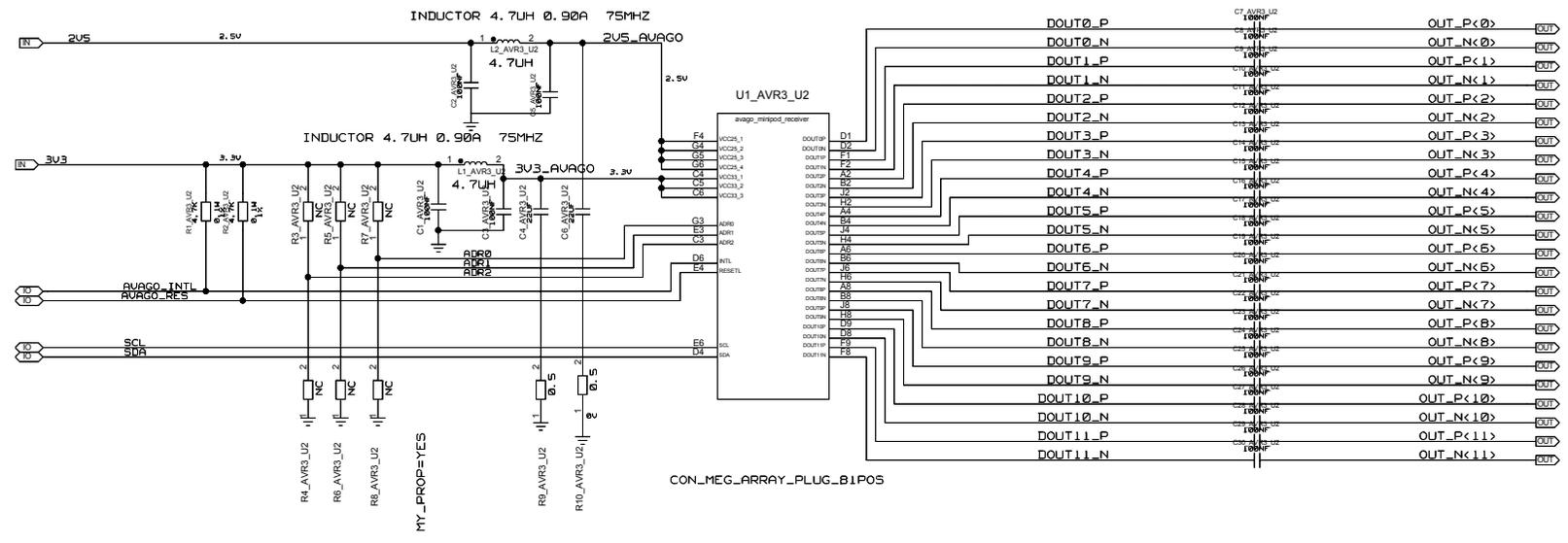
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SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



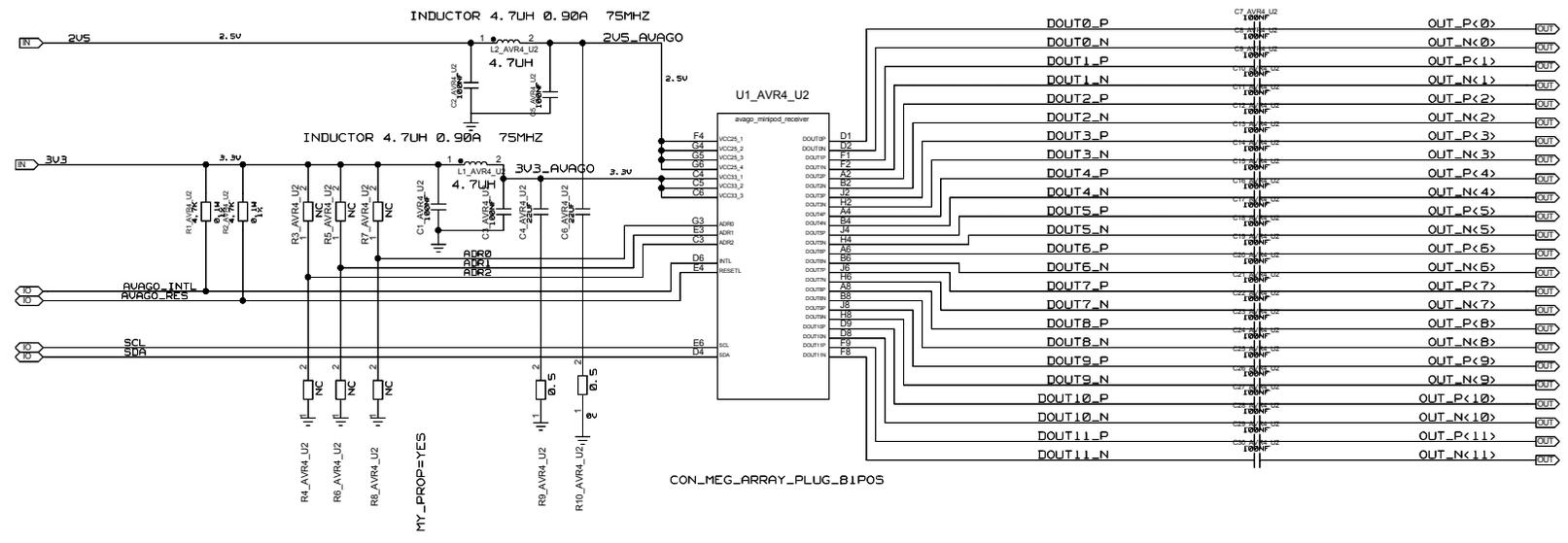
UNIVERSITY OF MAINZ		DRAWING TITLE	
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SCALE		SHEET OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



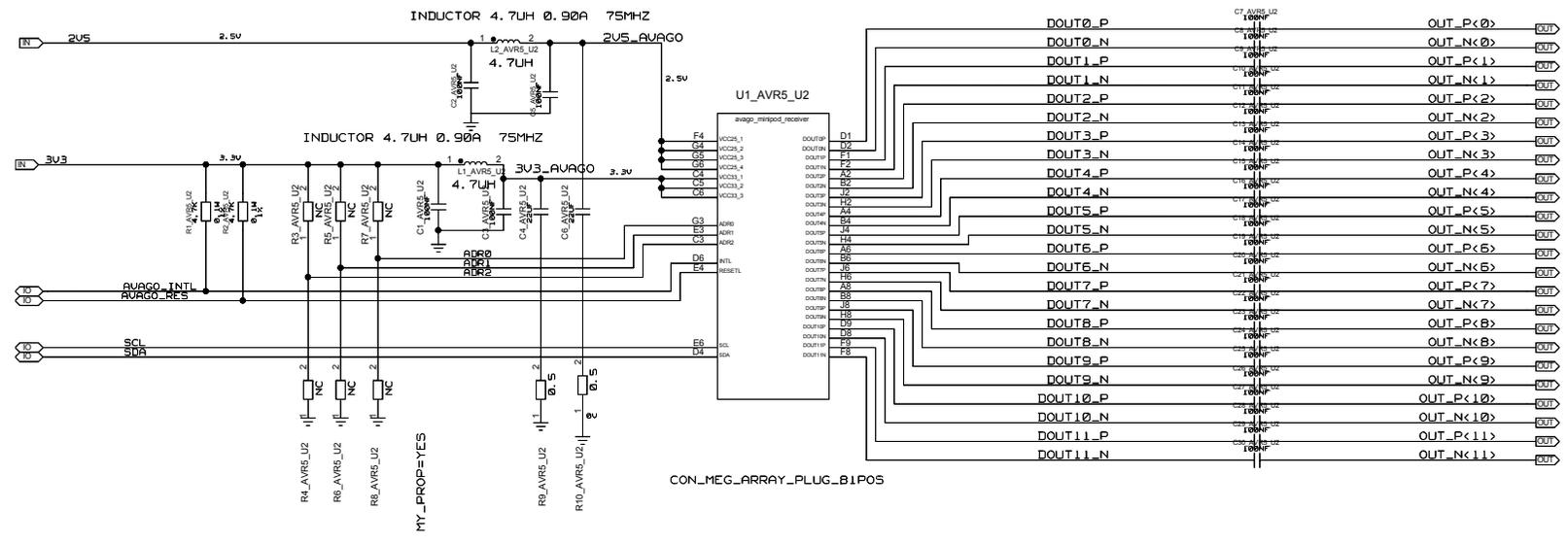
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SIZE	REV.	DRAWING NO.	
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SCALE		SHEET OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

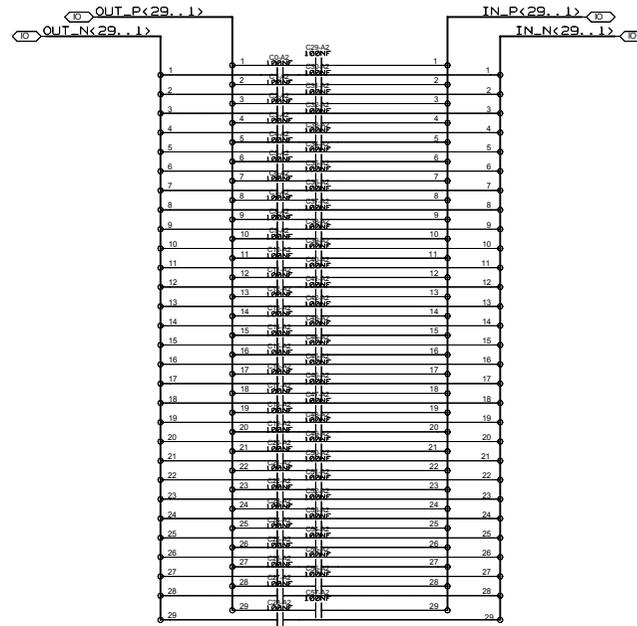
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ZONE	LTR	DESCRIPTION	DATE	APPR.



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SIZE	REV.	DRAWING NO.	
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SCALE		SHEET OF	

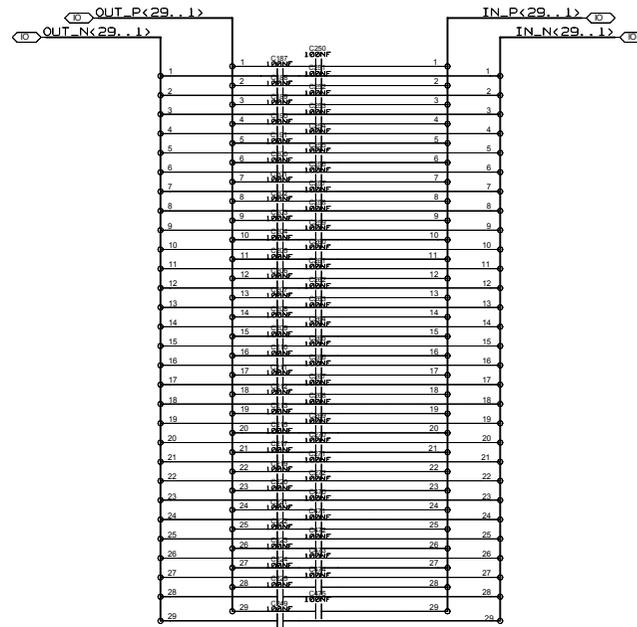


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

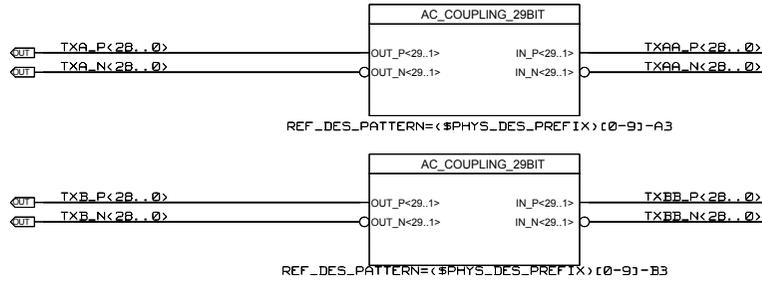
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ZONE	LTR	DESCRIPTION	DATE	APPR.



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

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

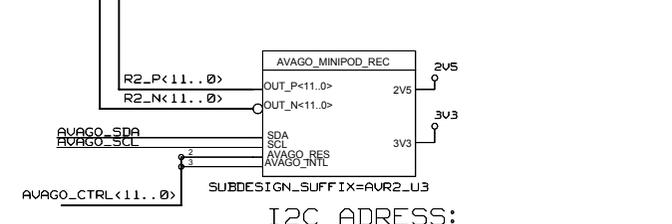
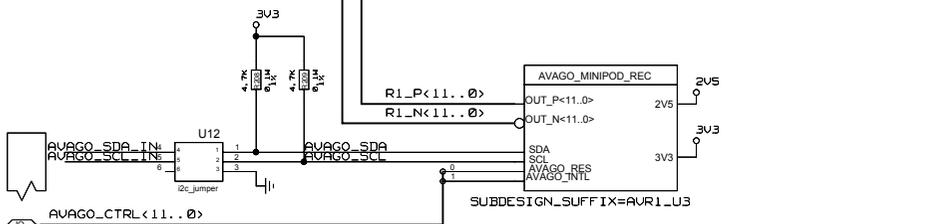
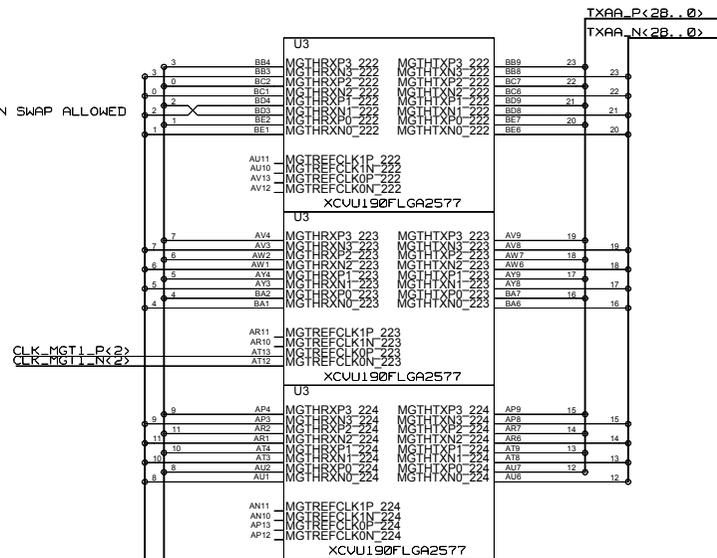
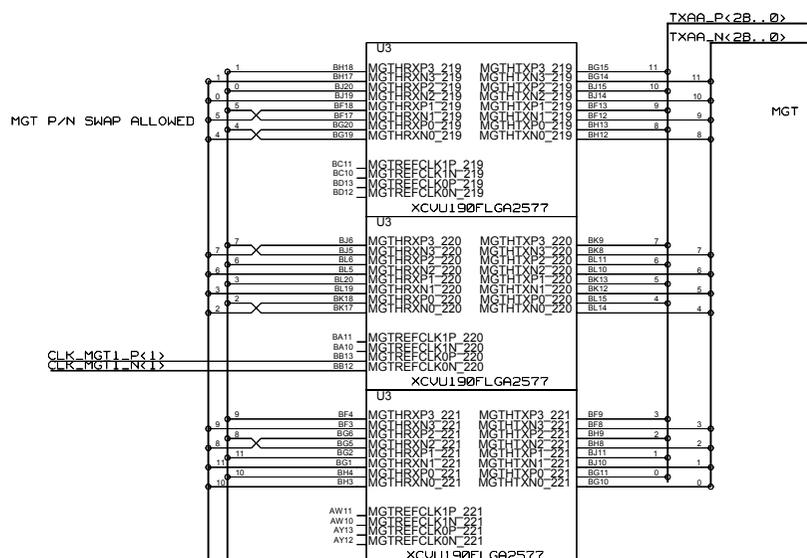
## AC COUPLING



IN CLK\_MGT1\_P<12..1>  
 IN CLK\_MGT1\_N<12..1>  
 IN CLK\_MGT2\_P<6..1>  
 IN CLK\_MGT2\_N<6..1>

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

ZONE		LTR	REVISIONS	DESCRIPTION	DATE	APPR.



AVAGO\_CTRL <11..0>  
 AVAGO\_CTRL 0, 2, 4, 6, 8, 10 = AVAGO\_RES\_XX  
 AVAGO\_CTRL 1, 3, 5, 7, 9, 11 = AVAGO\_INTL\_XX

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

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

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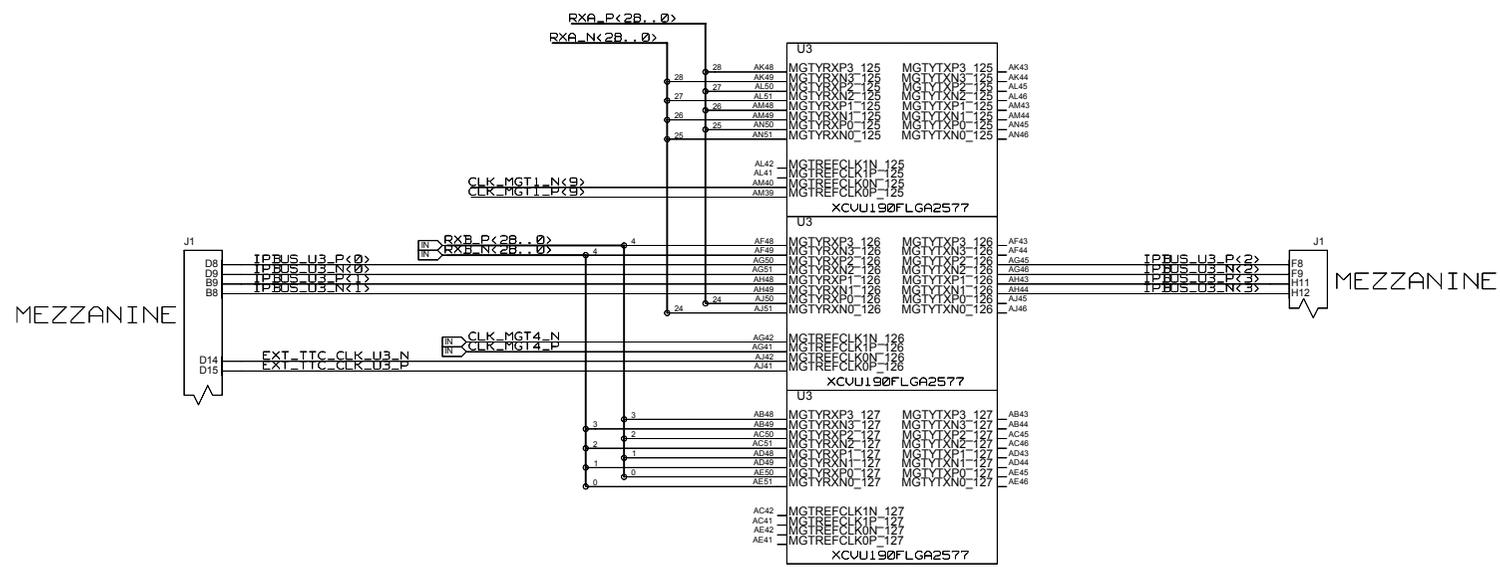
CHECKED	NAME	DATE	SIGN	DRAWING TITLE  AVAGO TXA
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	U.SCHAEFER			
	S.RAVE			
	BAUSS	07.08.2015		
BLOCK TITLE U3_MGT_REAL_TIME				SIZE C
UNIVERSITY OF MAINZ				DRAWING NO.
SCALE				SHEET 2 OF 7







REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

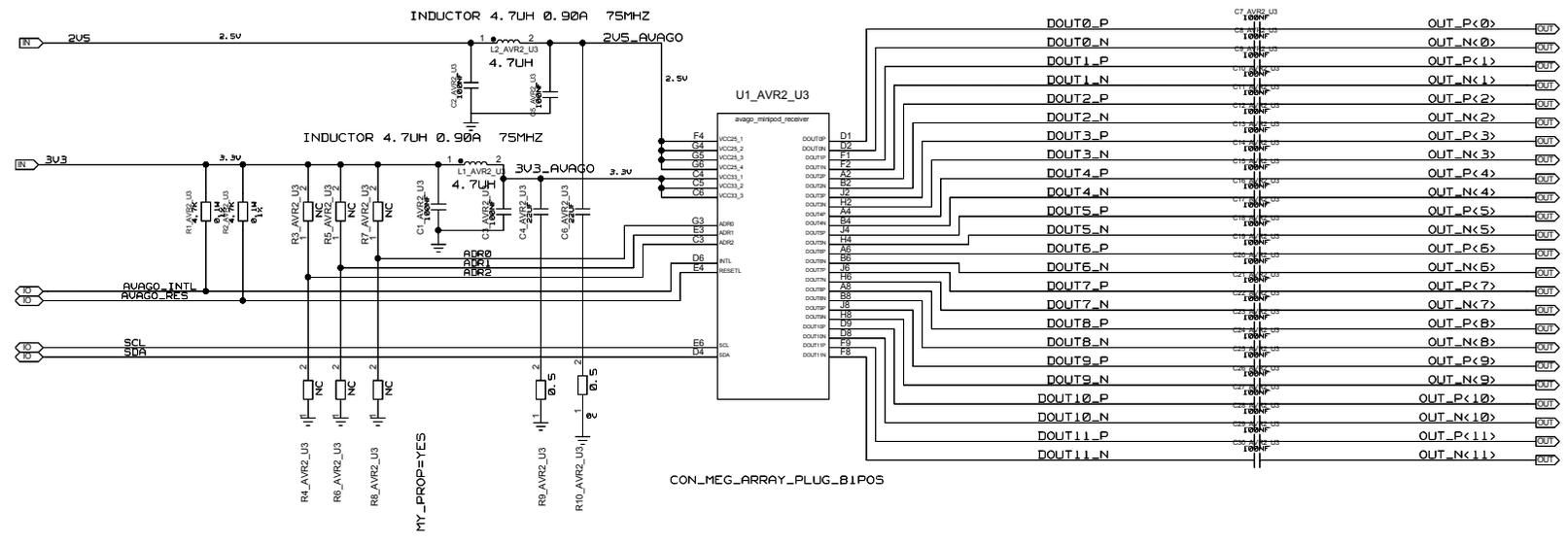


BANK
125
126
127

CHECKED	NAME	DATE	SIGN	DRAWING TITLE <b>RXA + RXB TXD + IPBUS</b>		
	E.ROCCO					
	U.SCHAEFER					
	S.RAVE					
	BAUSS	07.08.2015				
BLOCK TITLE <b>U3_MGT_REAL_TIME</b>				SIZE <b>C</b>	REV.	DRAWING NO.
UNIVERSITY OF MAINZ				SCALE	SHEET 6 OF 7	

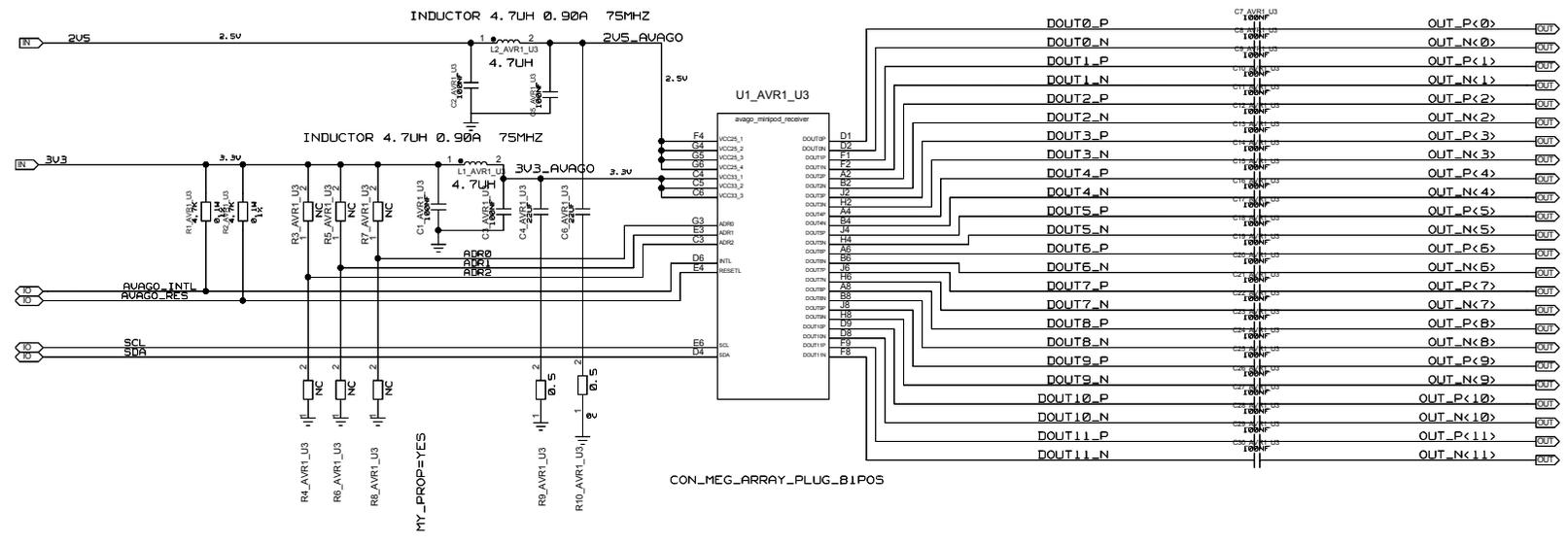


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



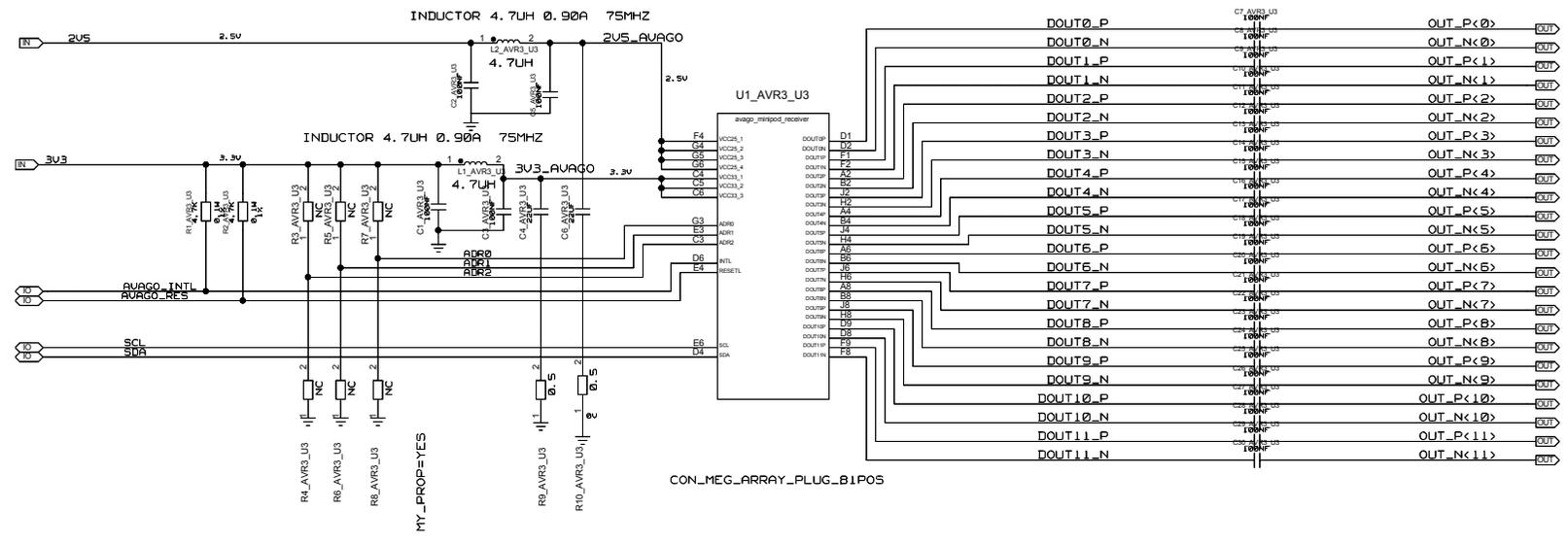
UNIVERSITY OF MAINZ		DRAWING TITLE	
		AVAGO RECEIVER	
SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



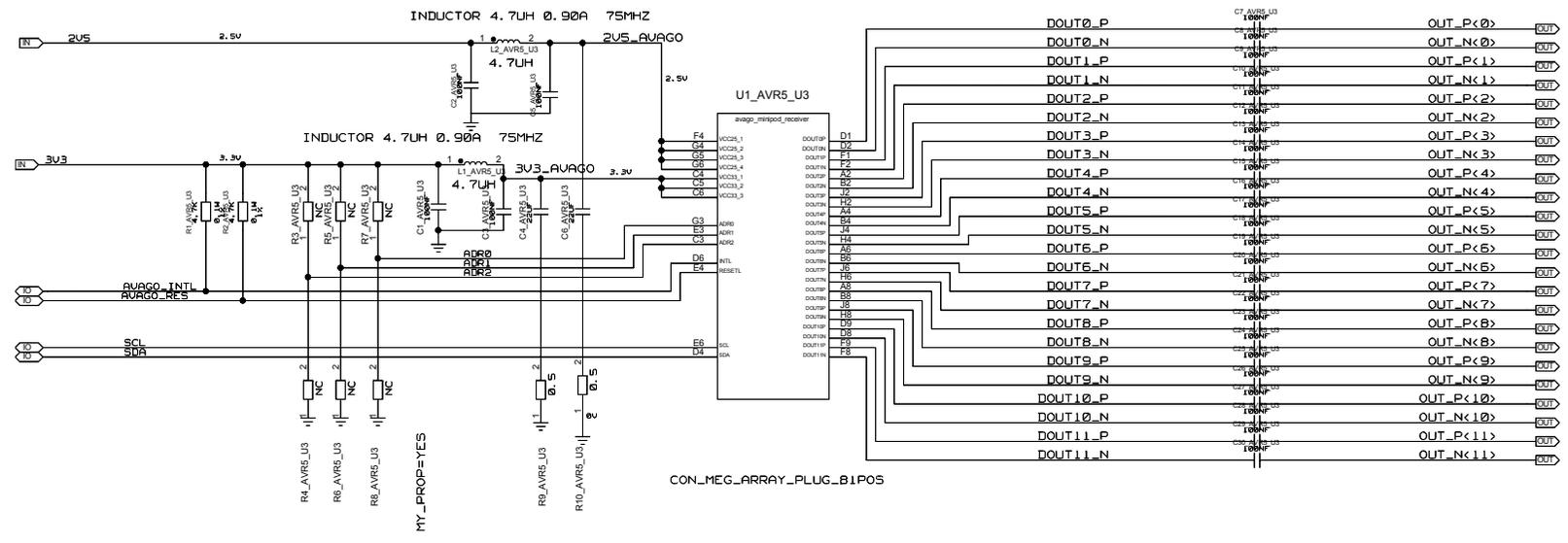
UNIVERSITY OF MAINZ		DRAWING TITLE	
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SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



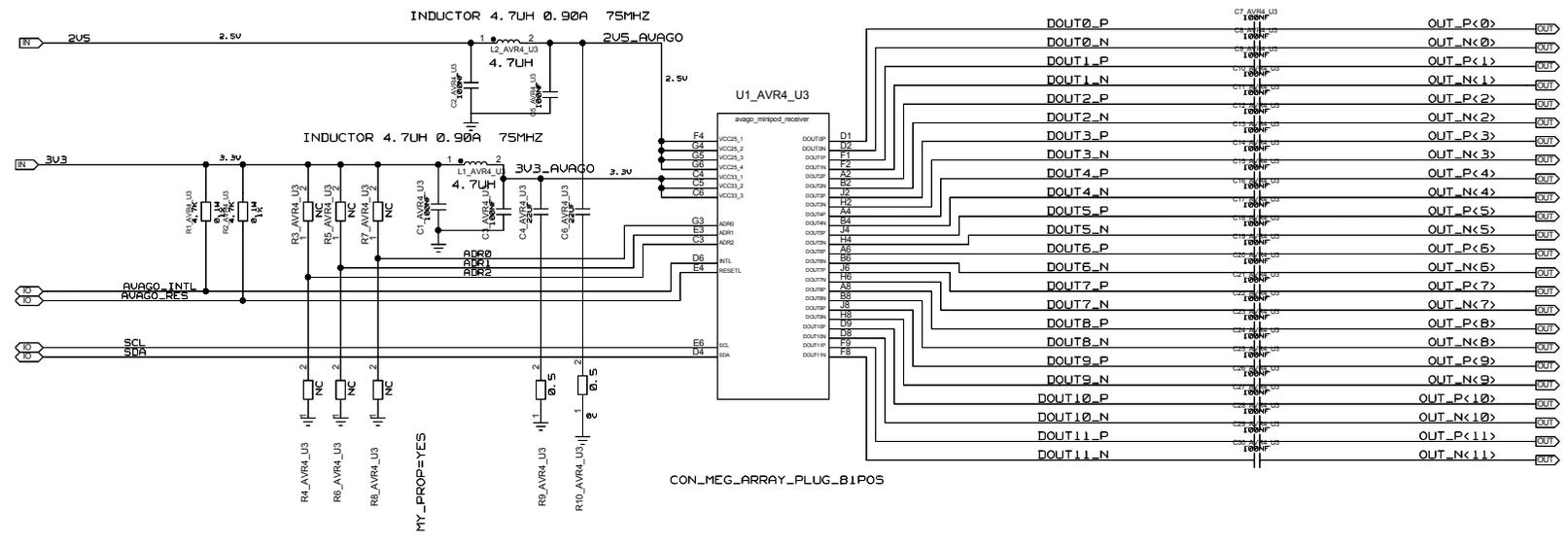
UNIVERSITY OF MAINZ		DRAWING TITLE	
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SIZE	REV.	DRAWING NO.	
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SCALE		SHEET OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



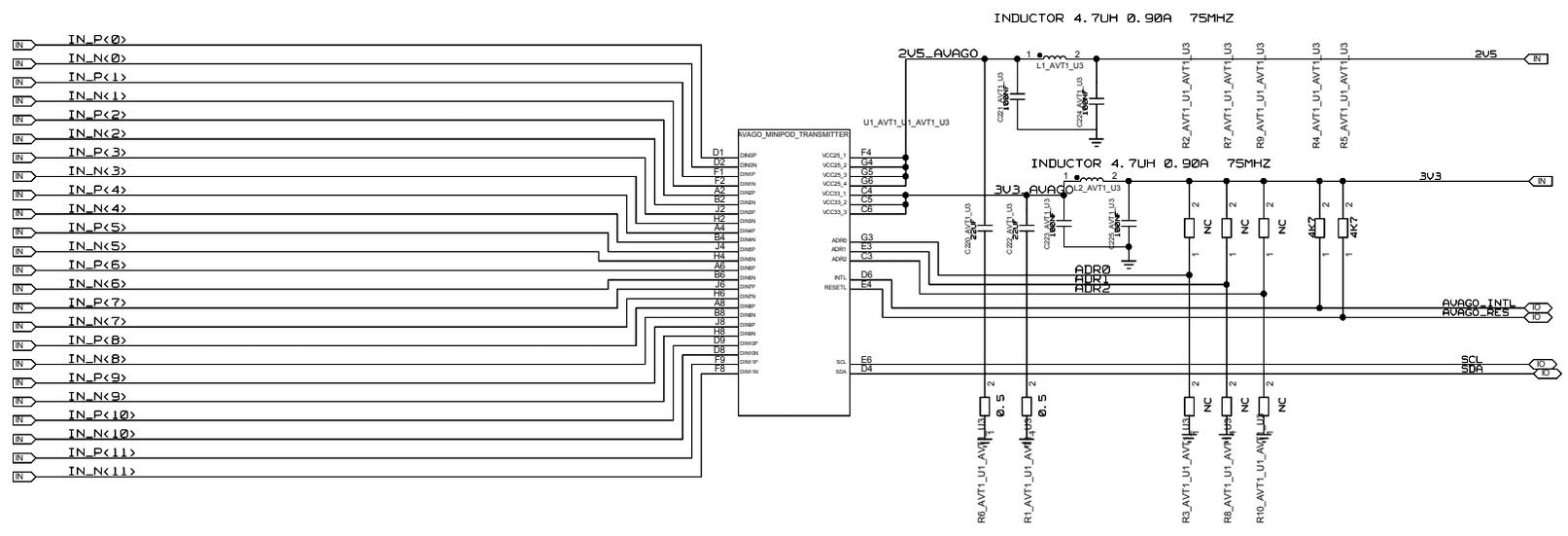
UNIVERSITY OF MAINZ		DRAWING TITLE	
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SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



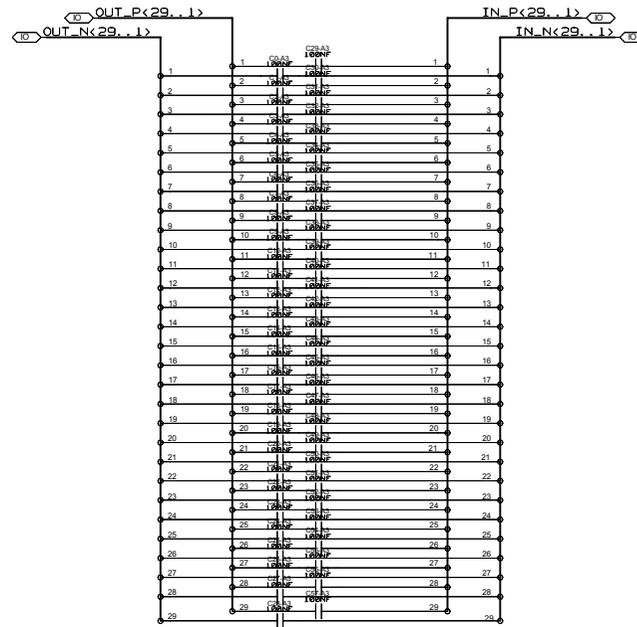
UNIVERSITY OF MAINZ		DRAWING TITLE	
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SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



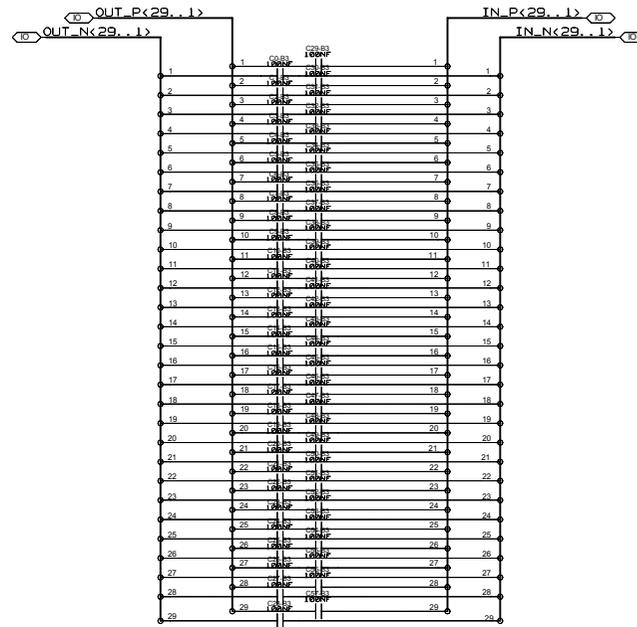
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SIZE <b>C</b>	REV.	DRAWING NO.	
SCALE			SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

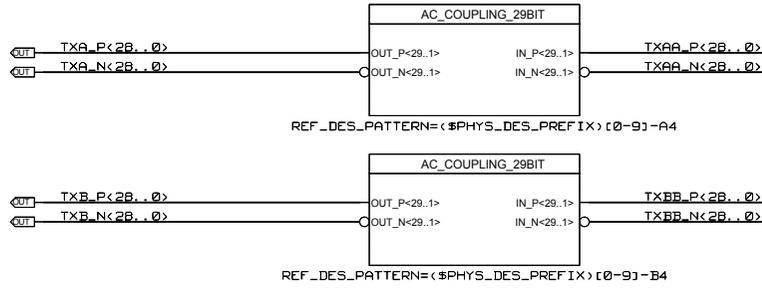
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

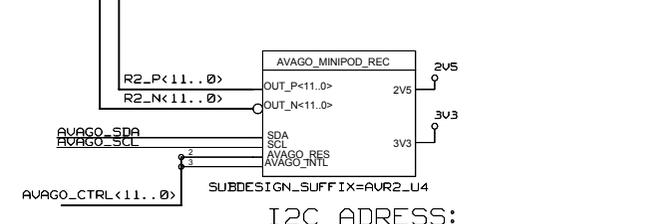
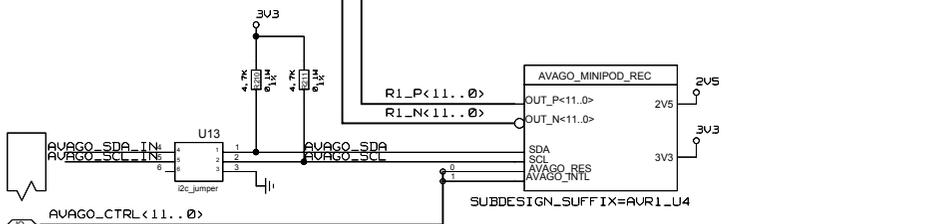
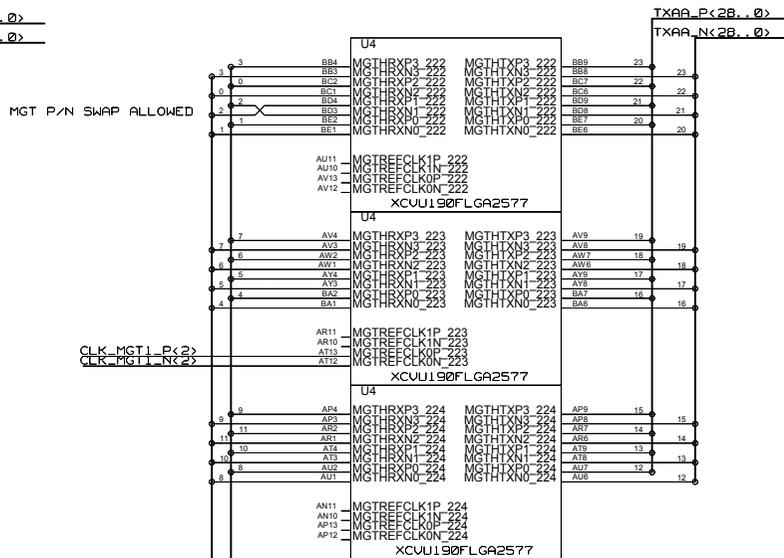
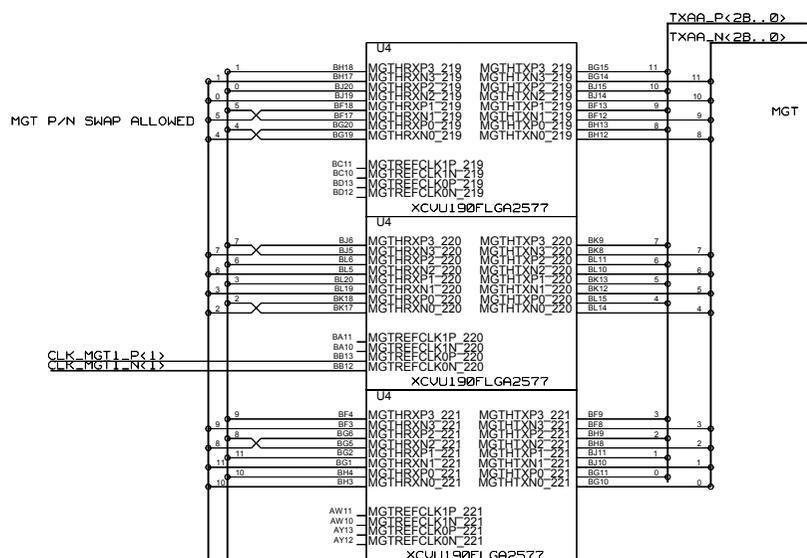
## AC COUPLING



IN CLK\_MGT1\_P<12..1>  
 IN CLK\_MGT1\_N<12..1>  
 IN CLK\_MGT2\_P<6..1>  
 IN CLK\_MGT2\_N<6..1>

CHECKED	NAME	DATE	SIGN	DRAWING TITLE  <b>I/O + AC COUPLING</b>	
CHECKED	E.ROCCO				
CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS	07.08.2015			
BLOCK TITLE <b>U4_MGT_REAL_TIME</b>				SIZE <b>C</b>	REV.
UNIVERSITY OF MAINZ				SCALE	DRAWING NO.
				SHEET 1 OF 7	

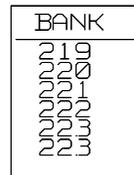
ZONE		LTR	REVISIONS	DESCRIPTION	DATE	APPR.



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

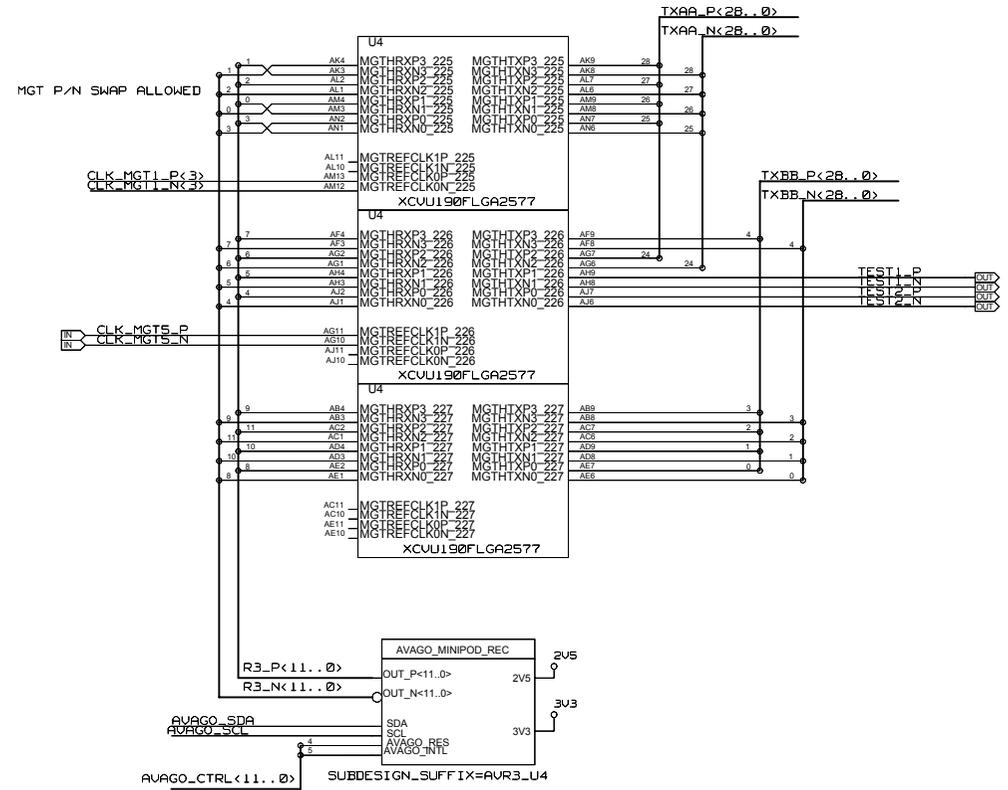
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I2C ADDRESS:  
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R5=XXX R6=XXX  
R7=XXX R8=XXX



CHECKED	NAME	DATE	SIGN	DRAWING TITLE
	E.ROCCO			AVAGO TXA
	U.SCHAEFER			
	S.RAVE			
	BAUSS	07.08.2015		
BLOCK TITLE				DRAWING NO.
U4_MGT_REAL_TIME				
UNIVERSITY OF MAINZ				
	SIZE	REV.	DRAWING NO.	
	C			
	SCALE		SHEET 2 OF 7	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



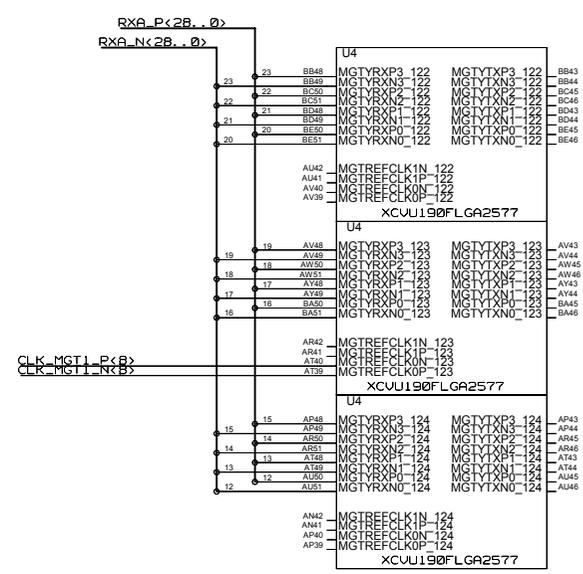
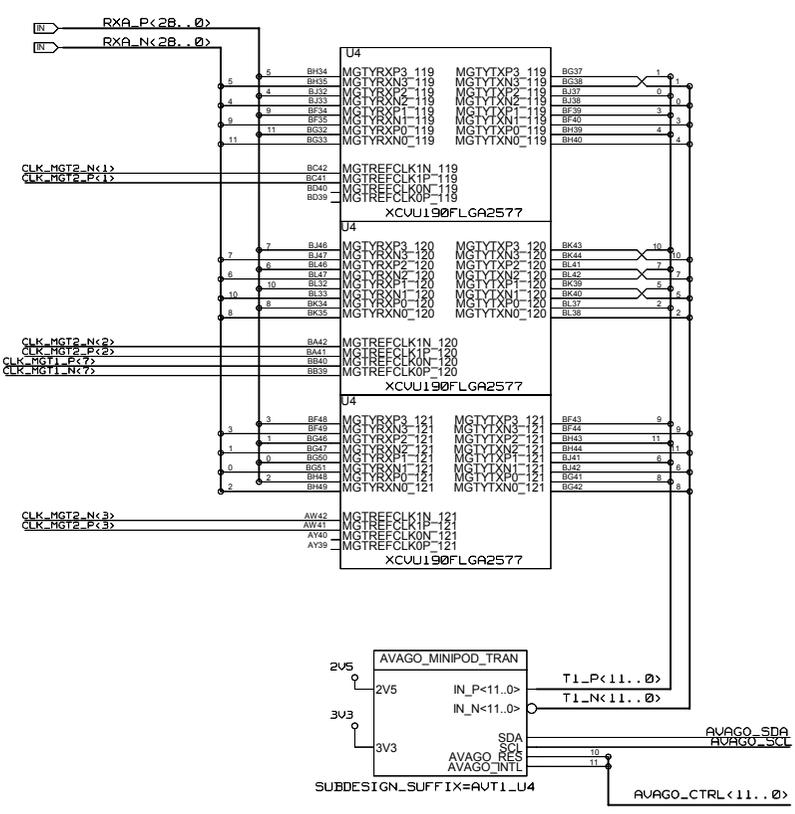
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BANK  
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CHECKED	NAME	DATE	SIGN	DRAWING TITLE  <b>AVAGO TXA + TXB</b>		
CHECKED	E.ROCCO					
CHECKED	U.SCHAEFER					
CHECKED	S.RAVE					
DRAWN	BAUSS	07.08.2015				
BLOCK TITLE <b>U4_MGT_REAL_TIME</b>				SIZE <b>C</b>	REV.	DRAWING NO.
UNIVERSITY OF MAINZ				SCALE	SHEET 3 OF 7	



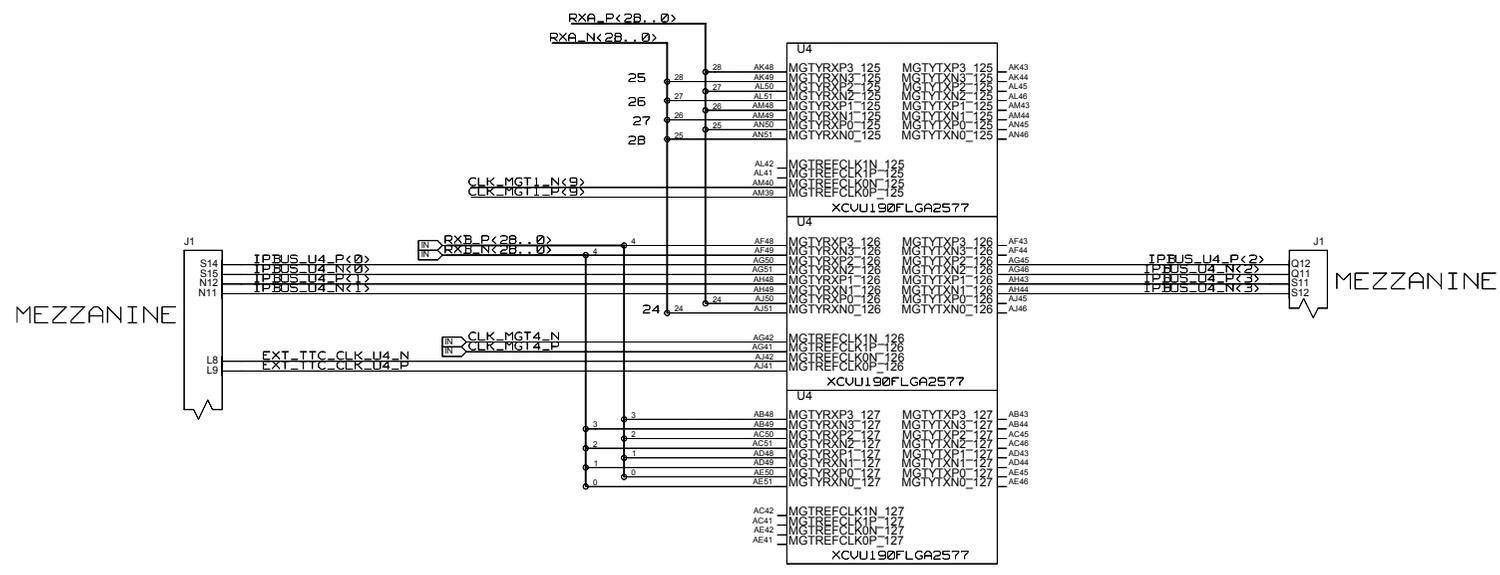
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

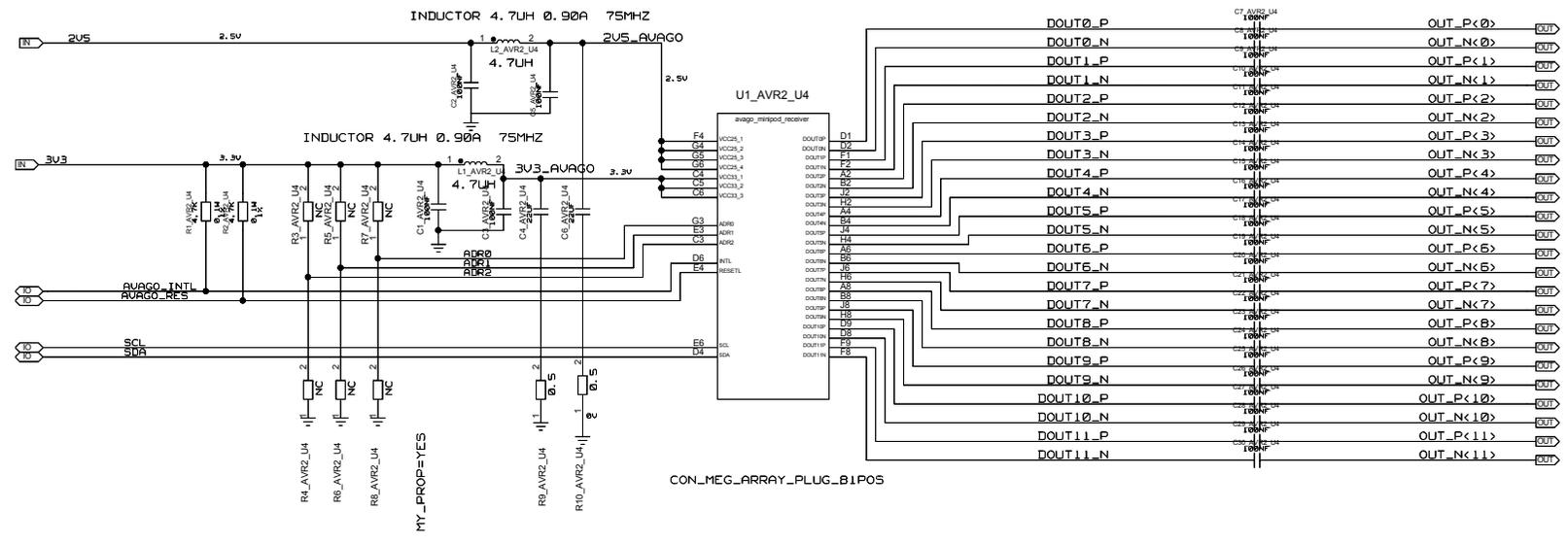


BANK
125
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127

CHECKED	NAME	DATE	SIGN	DRAWING TITLE  RXA + RXB TXD + IPBUS
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	U.SCHAEFER			
	S.RAVE			
	BAUSS	07.08.2015		
BLOCK TITLE U4_MGT_REAL_TIME				SIZE <b>C</b>
UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
				SHEET 6 OF 7

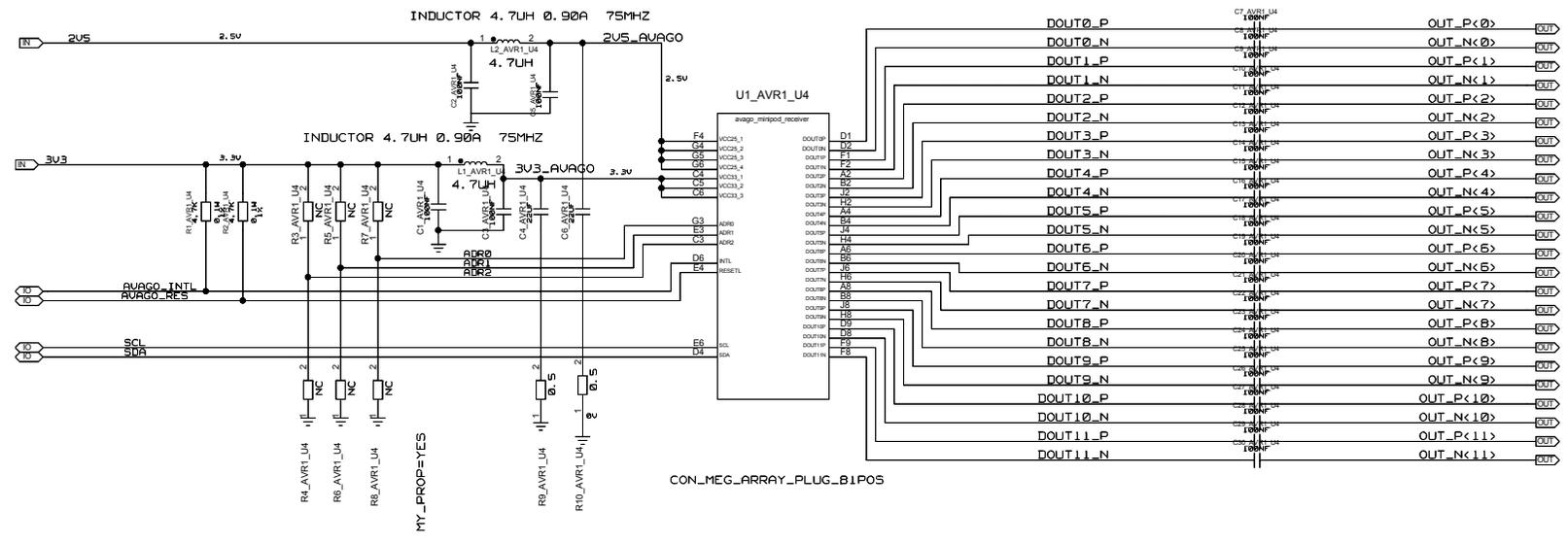


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ZONE	LTR	DESCRIPTION	DATE	APPR.



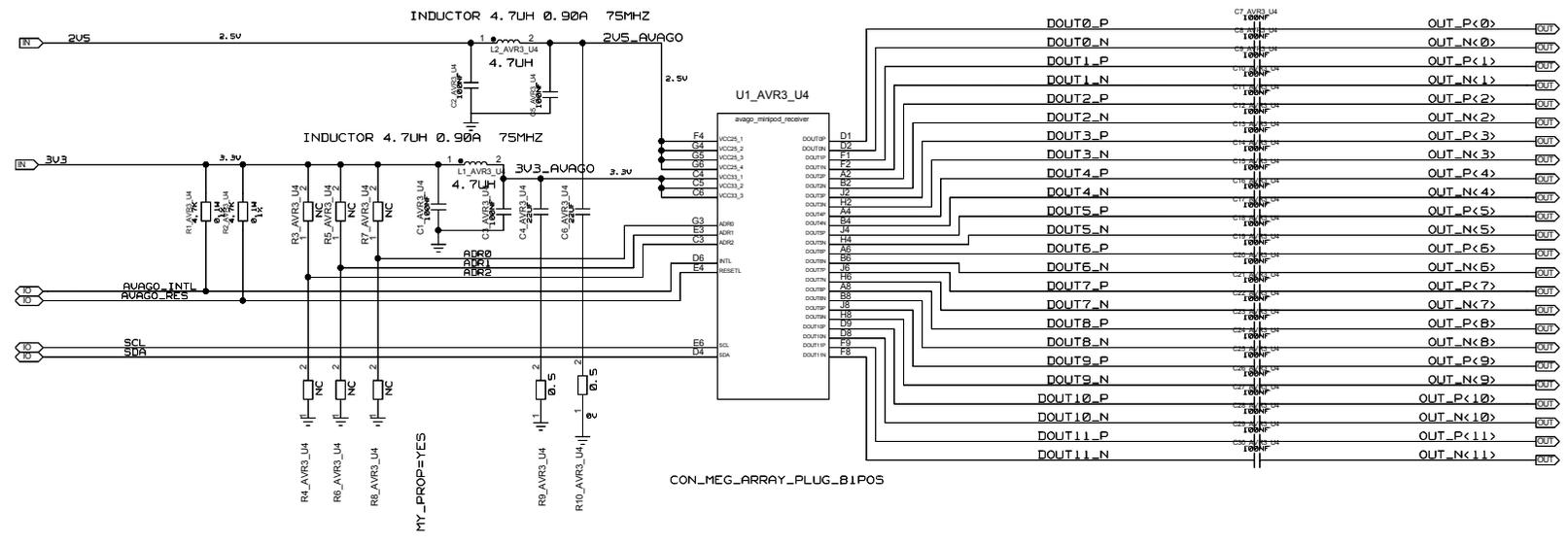
UNIVERSITY OF MAINZ		DRAWING TITLE	
		AVAGO RECEIVER	
SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET OF	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

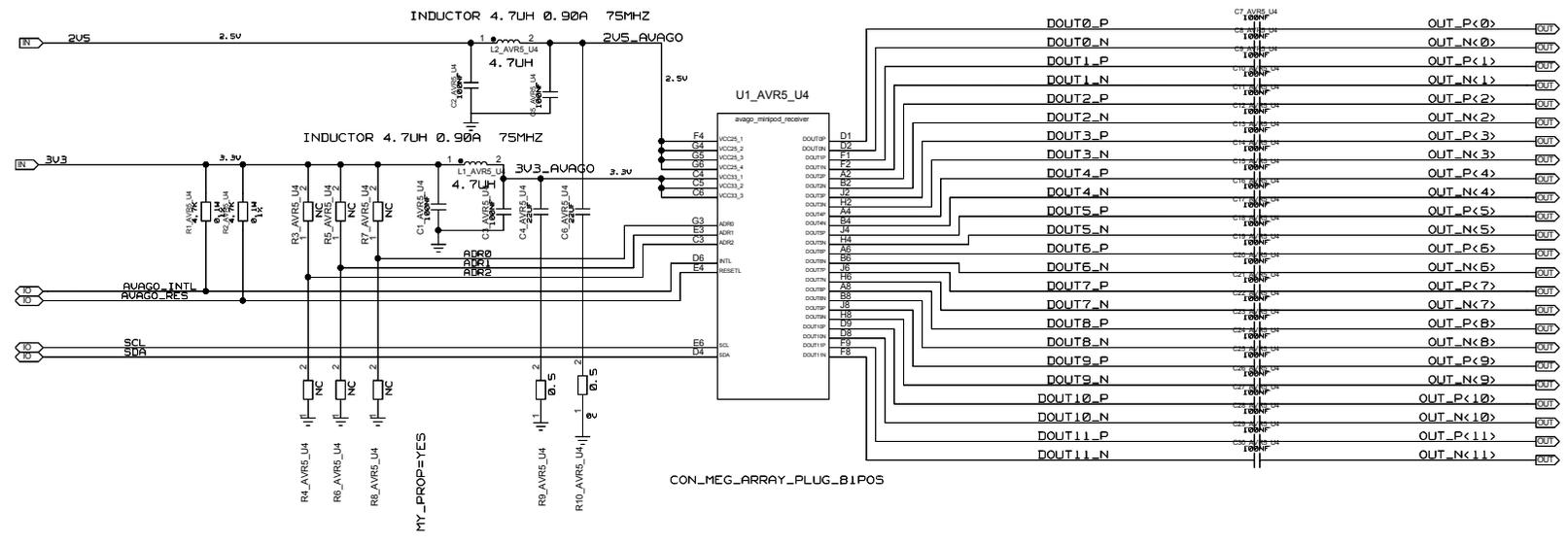
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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DOUT0_N	C8_AVR3_U4	100nF	OUT_N<0>	OUT
DOUT1_P	C9_AVR3_U4	100nF	OUT_P<1>	OUT
DOUT1_N	C10_AVR3_U4	100nF	OUT_N<1>	OUT
DOUT2_P	C11_AVR3_U4	100nF	OUT_P<2>	OUT
DOUT2_N	C12_AVR3_U4	100nF	OUT_N<2>	OUT
DOUT3_P	C13_AVR3_U4	100nF	OUT_P<3>	OUT
DOUT3_N	C14_AVR3_U4	100nF	OUT_N<3>	OUT
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DOUT5_N	C18_AVR3_U4	100nF	OUT_N<5>	OUT
DOUT6_P	C19_AVR3_U4	100nF	OUT_P<6>	OUT
DOUT6_N	C20_AVR3_U4	100nF	OUT_N<6>	OUT
DOUT7_P	C21_AVR3_U4	100nF	OUT_P<7>	OUT
DOUT7_N	C22_AVR3_U4	100nF	OUT_N<7>	OUT
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DOUT10_P	C27_AVR3_U4	100nF	OUT_P<10>	OUT
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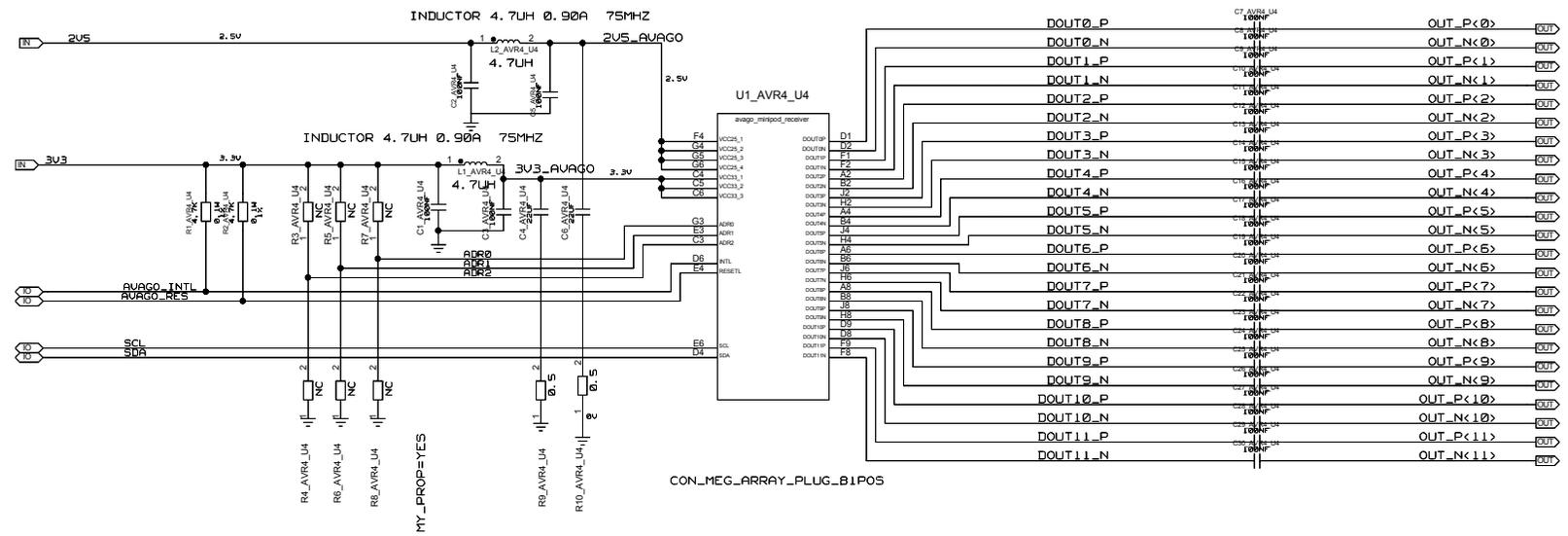
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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SCALE			SHEET OF

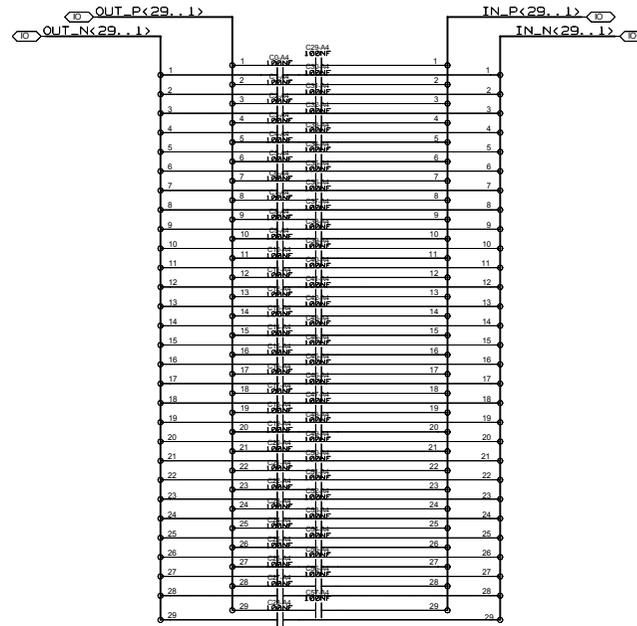
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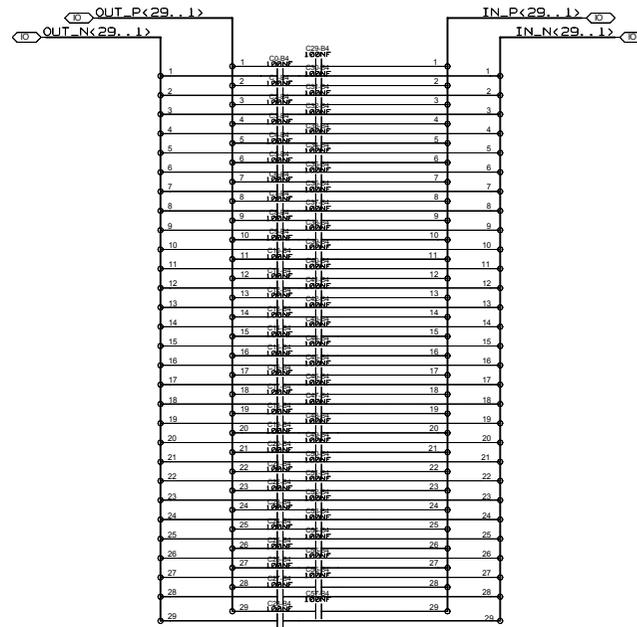


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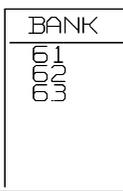
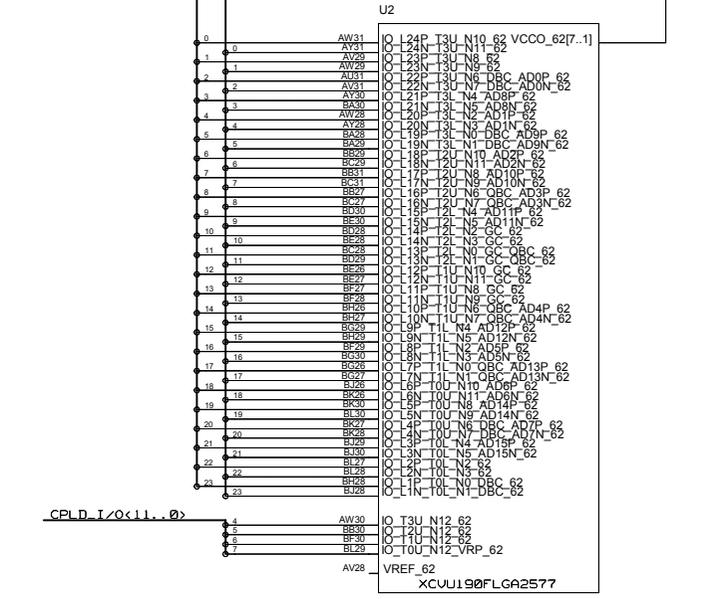
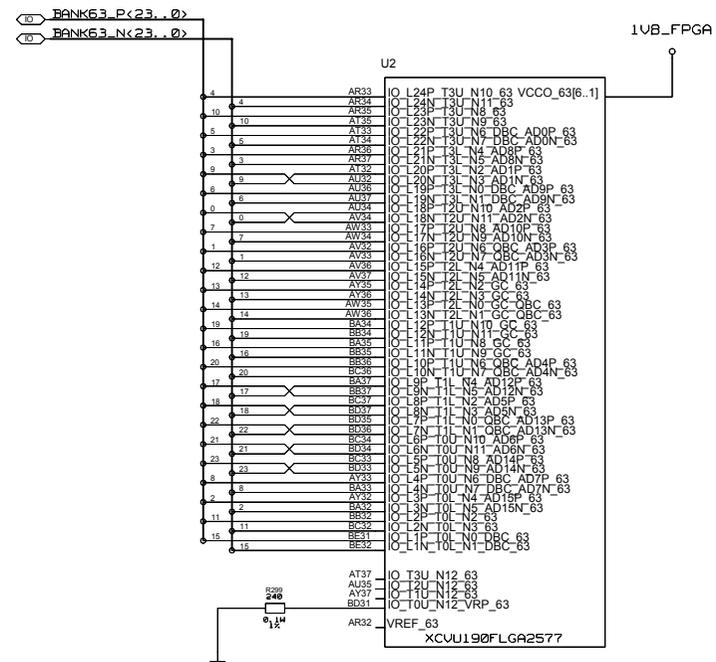
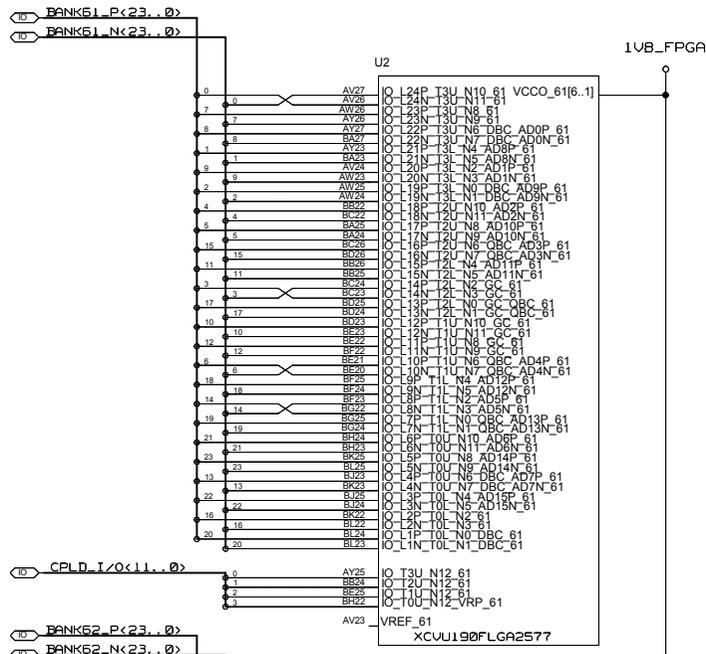
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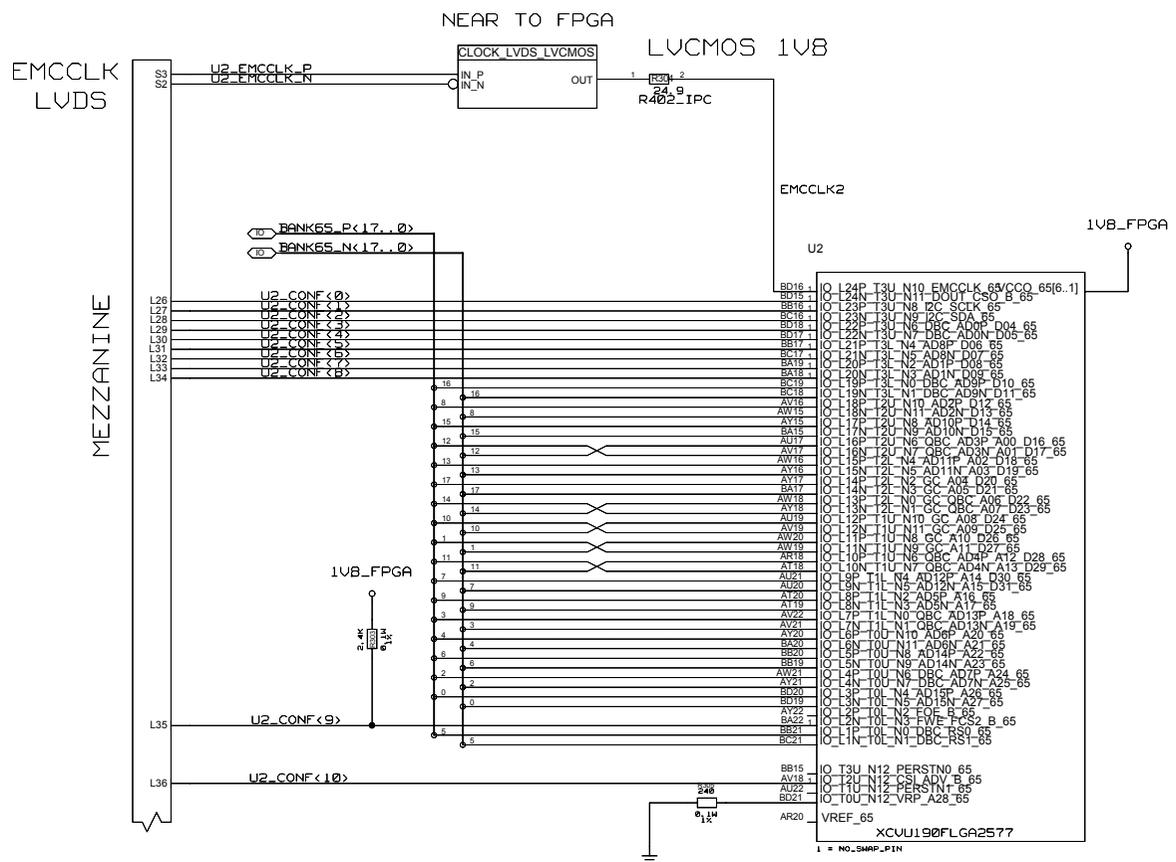
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



CHECKED	E.ROCCO	DATE	SIGN	DRAWING TITLE <b>JFEX</b>
CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	25.08.2015		
BLOCK TITLE <b>U2_PARALLEL_I/O</b>				
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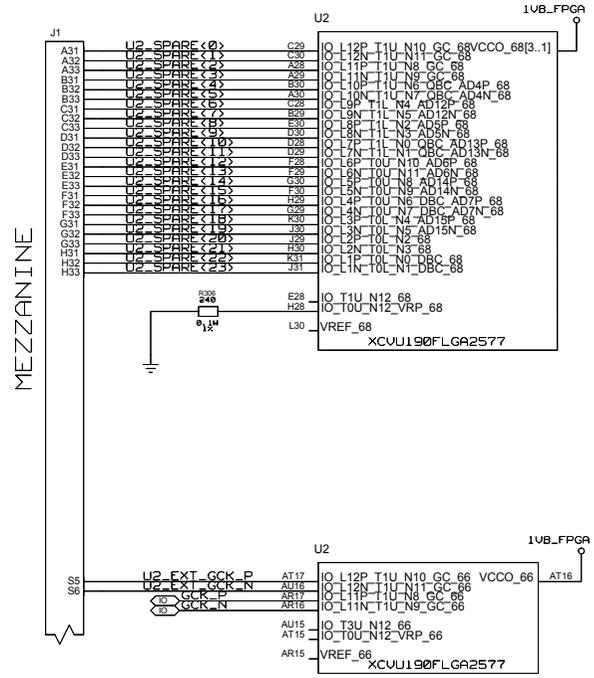
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ZONE	LTR	DESCRIPTION	DATE	APPR.



BANK  
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	S.RAVE			
	BAUSS	25.08.2015		
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SCALE				DRAWING NO.
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REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

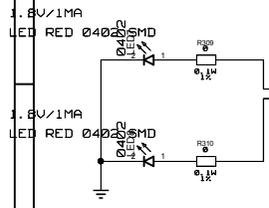
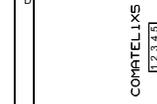
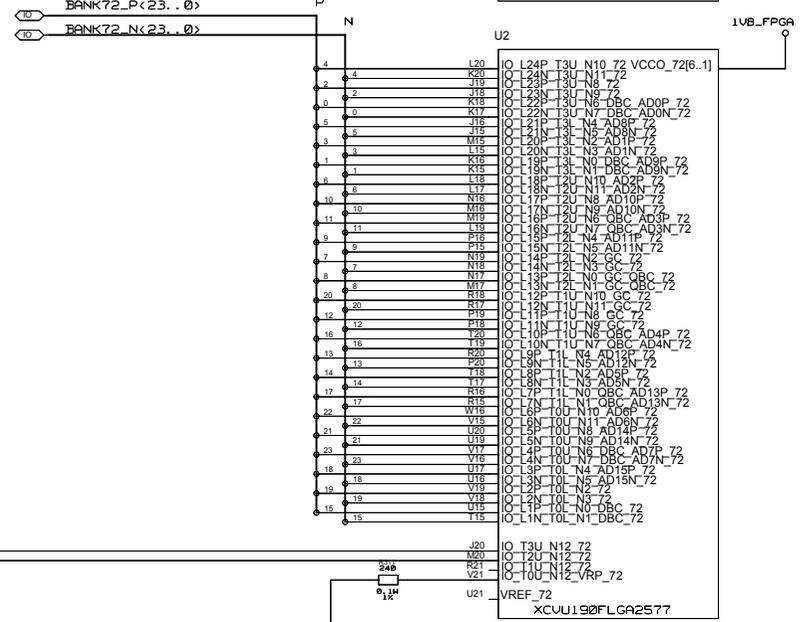
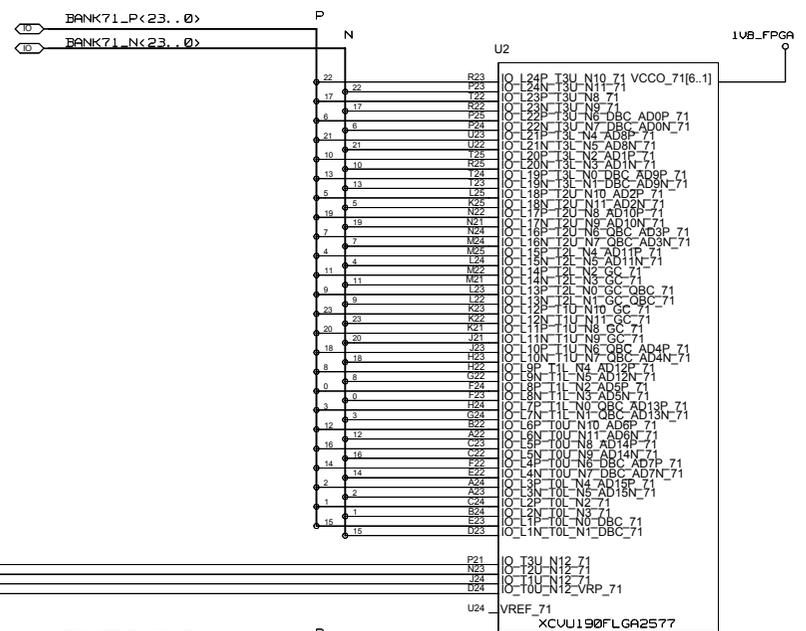


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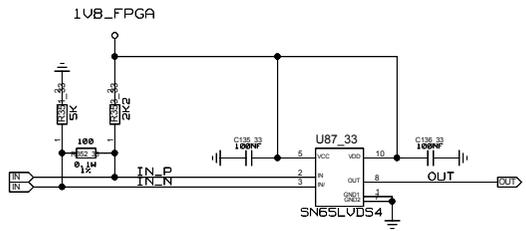
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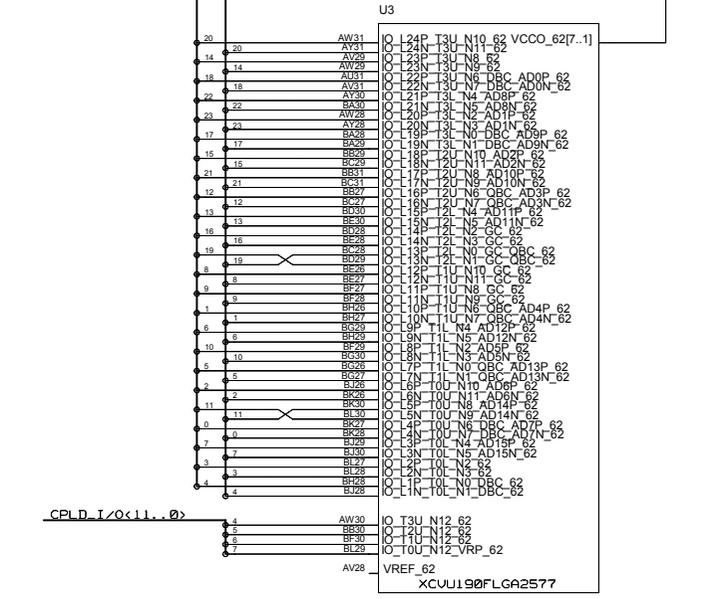
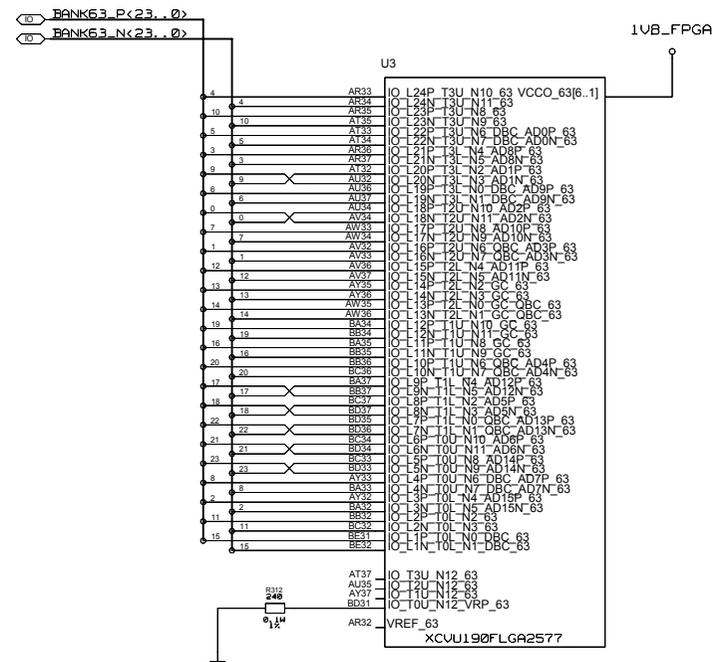
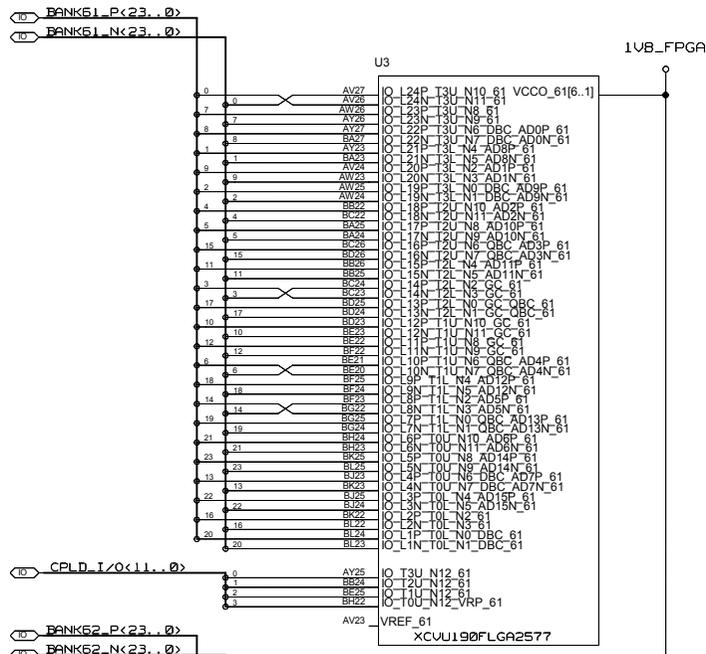
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BLOCK TITLE			
UNIVERSITY OF MAINZ			
SIZE	REV.	DRAWING NO.	
C			
SCALE		SHEET 5 of 5	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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CHECKED	S.RAVE			
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			SCALE	DRAWING NO.
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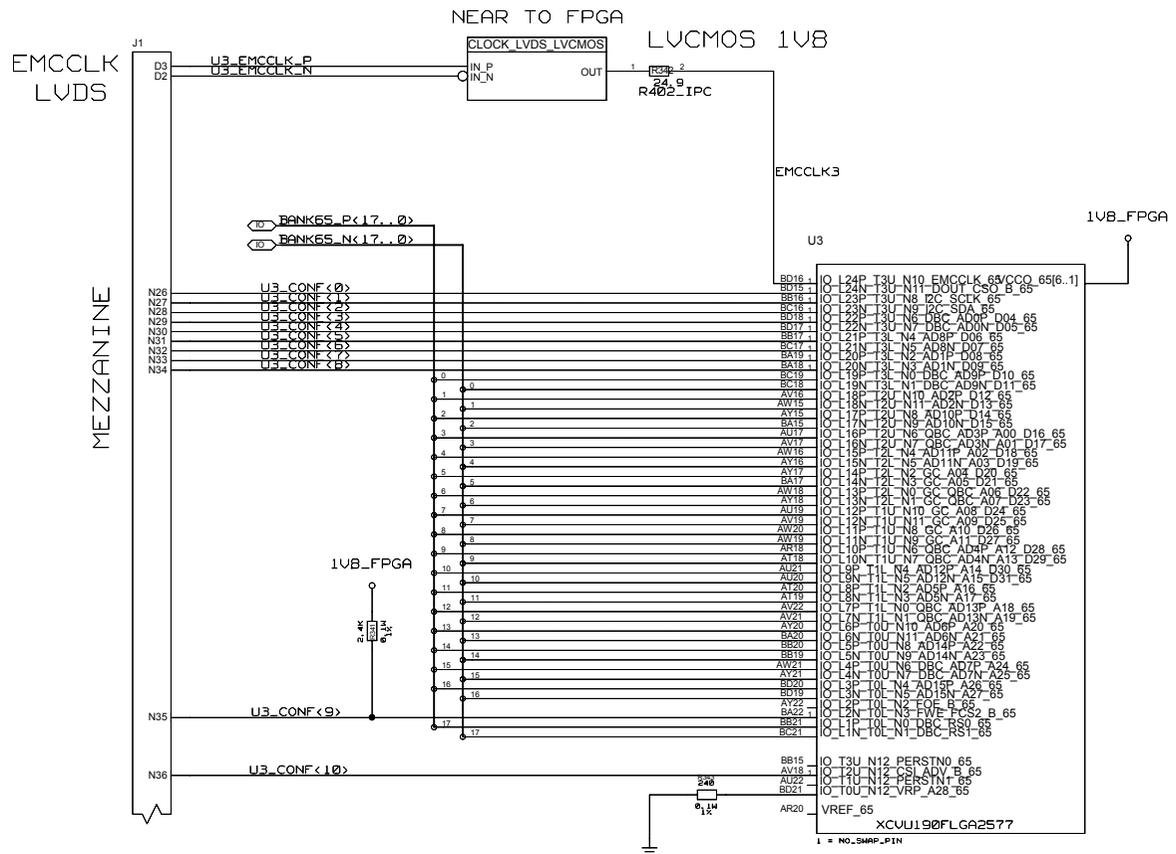
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	U.SCHAEFER			
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UNIVERSITY OF MAINZ				
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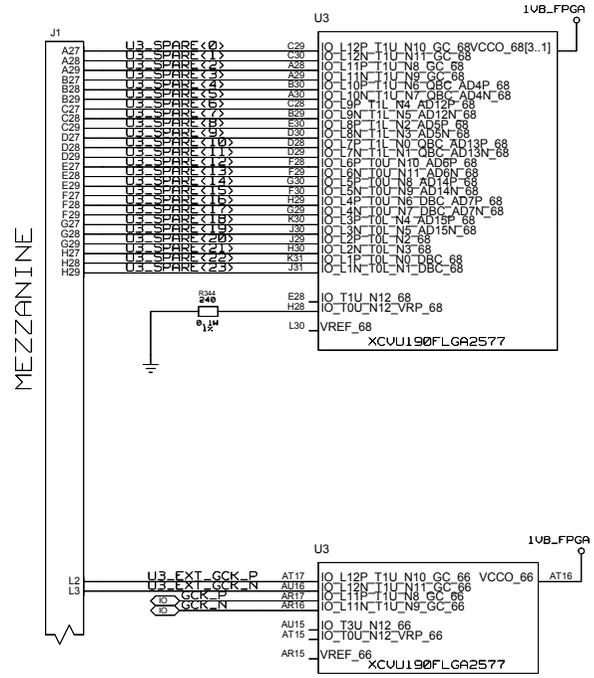
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ZONE	LTR	DESCRIPTION	DATE	APPR.



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CHECKED S.RAVE			
DRAWN BAUSS	25.08.2015		
BLOCK TITLE			
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UNIVERSITY OF MAINZ			
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SCALE		SHEET 2 OF 5	

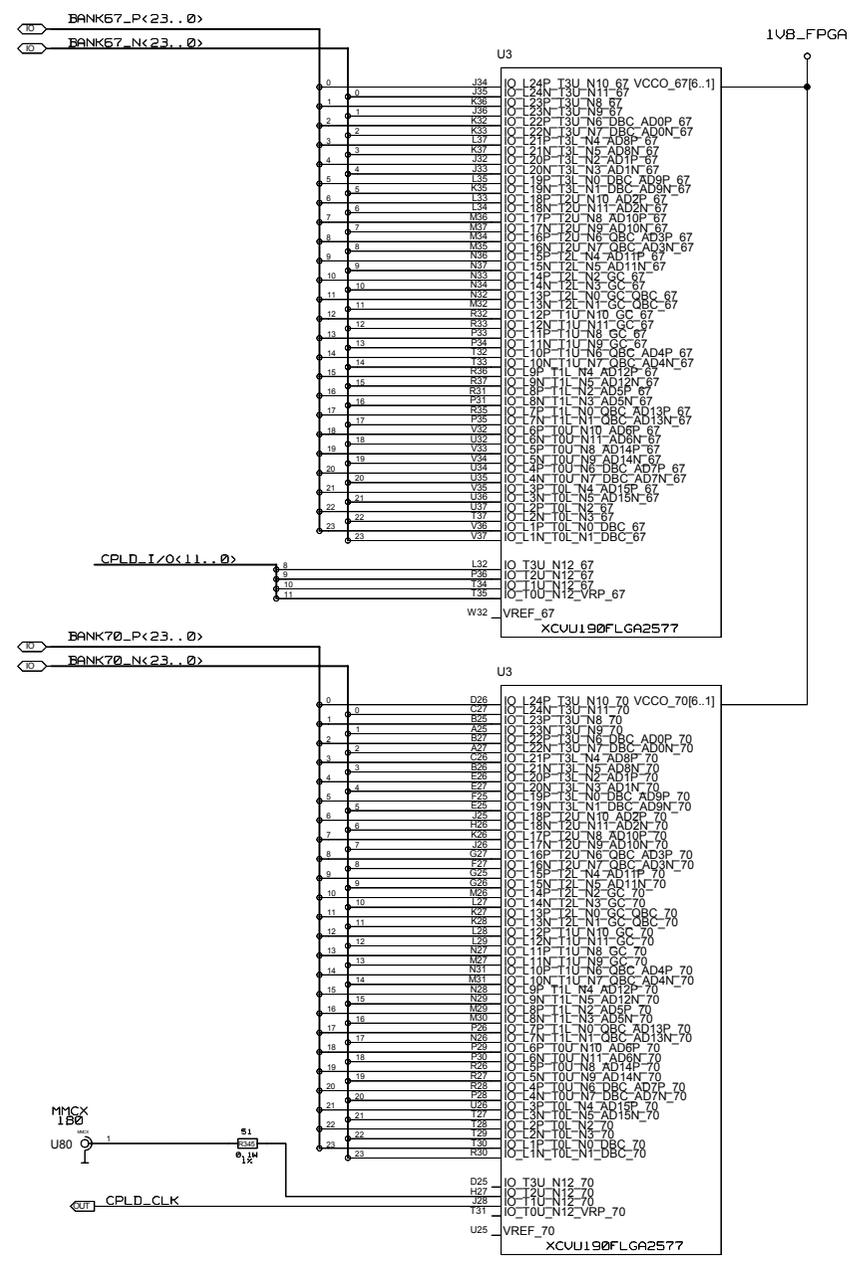
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CHECKED	S.RAVE					
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UNIVERSITY OF MAINZ				SIZE <b>C</b>	REV.	DRAWING NO.
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ZONE	LTR	DESCRIPTION	DATE	APPR.

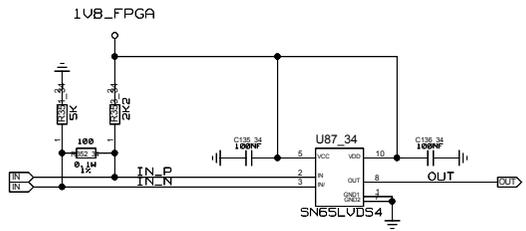


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UNIVERSITY OF MAINZ				
SIZE	REV.	DRAWING NO.		
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SCALE			SHEET 4 OF 5	

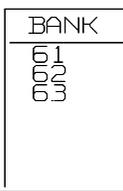
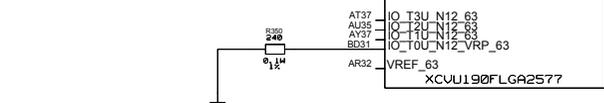
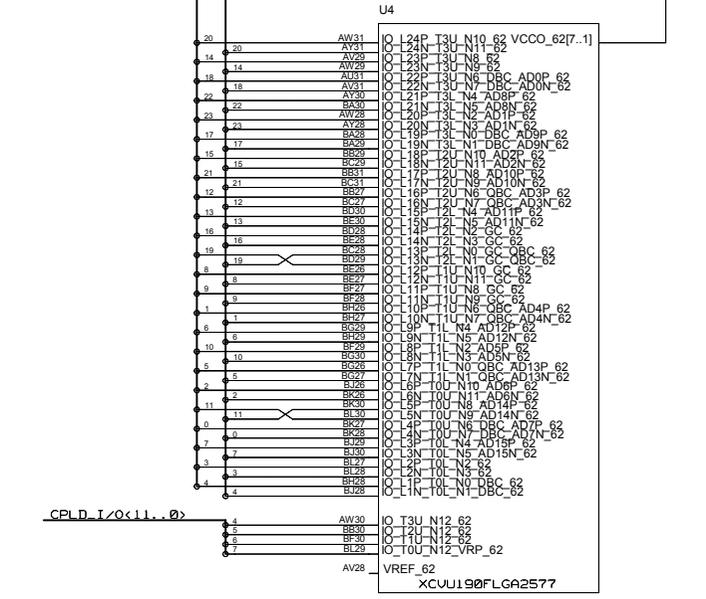
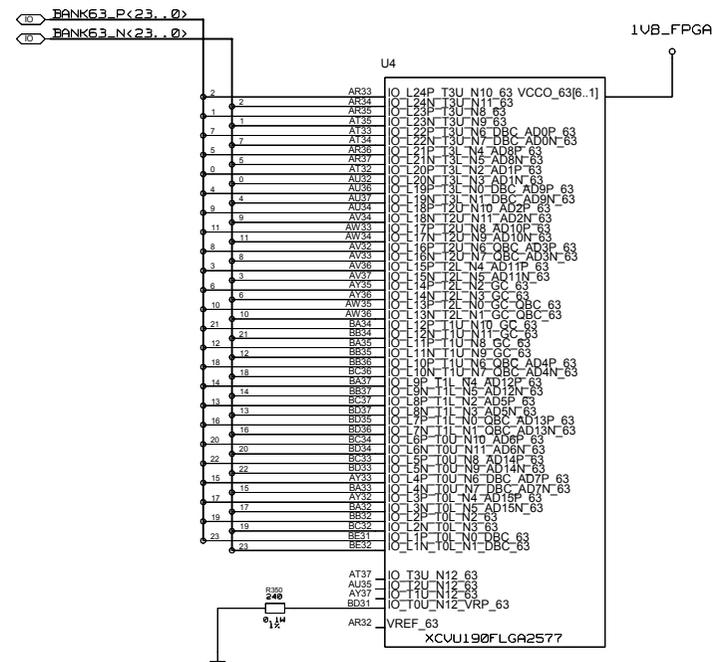
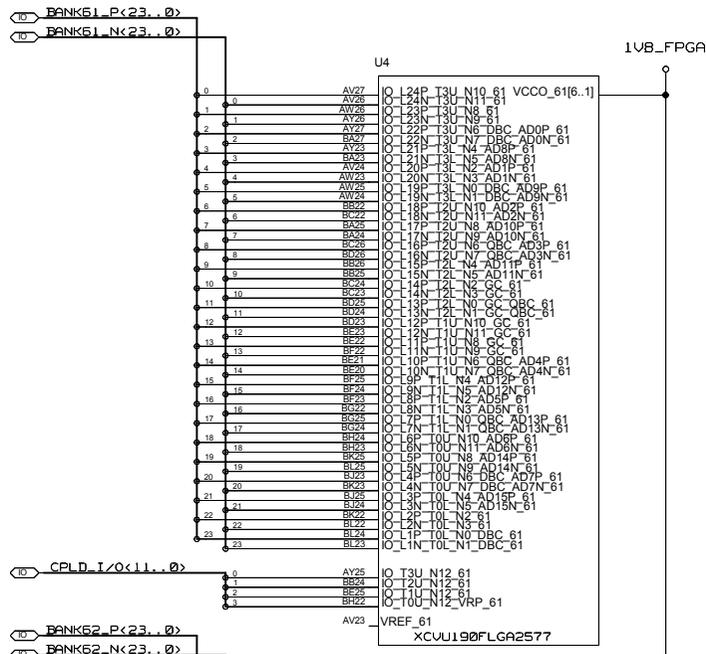


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ZONE	LTR	DESCRIPTION	DATE	APPR.



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CHECKED	S.RAVE			
DRAWN	BAUSS			
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UNIVERSITY OF MAINZ				REV.
SCALE				DRAWING NO.
				SHEET OF

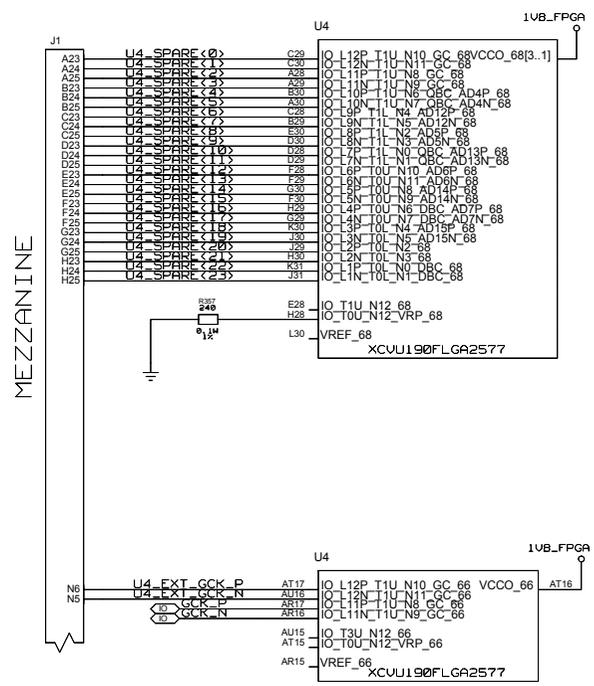
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ZONE	LTR	DESCRIPTION	DATE	APPR.



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CHECKED	S.RAVE			
DRAWN	BAUSS	25.08.2015		
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SCALE				SHEET 1 OF 5



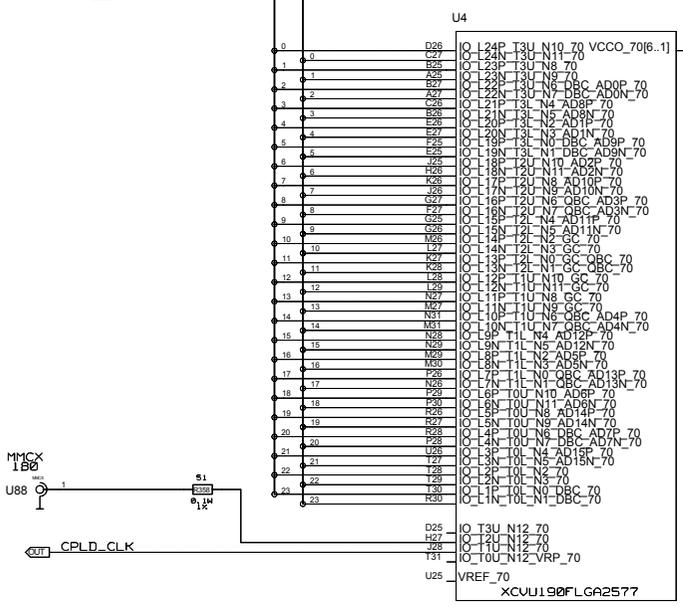
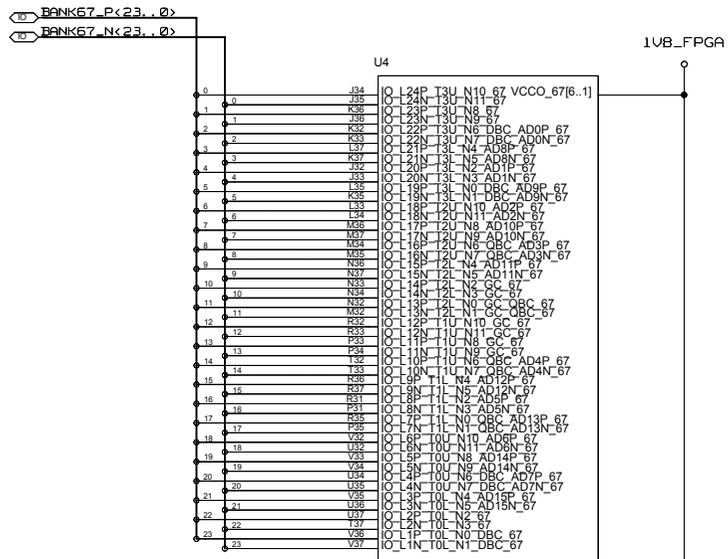
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ZONE	LTR	DESCRIPTION	DATE	APPR.



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	U.SCHAEFER			
	S.RAVE			
	BAUSS	25.08.2015		
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UNIVERSITY OF MAINZ				
SIZE	REV.	DRAWING NO.		
C				
SCALE			SHEET 3 OF 5	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

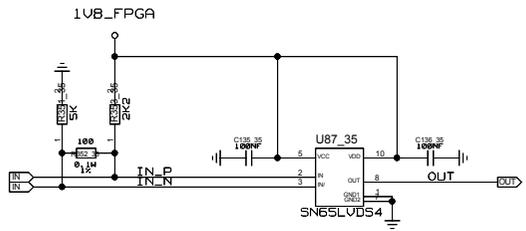


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UNIVERSITY OF MAINZ				SIZE <b>C</b>	REV.
SCALE				DRAWING NO.	
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REVISIONS				
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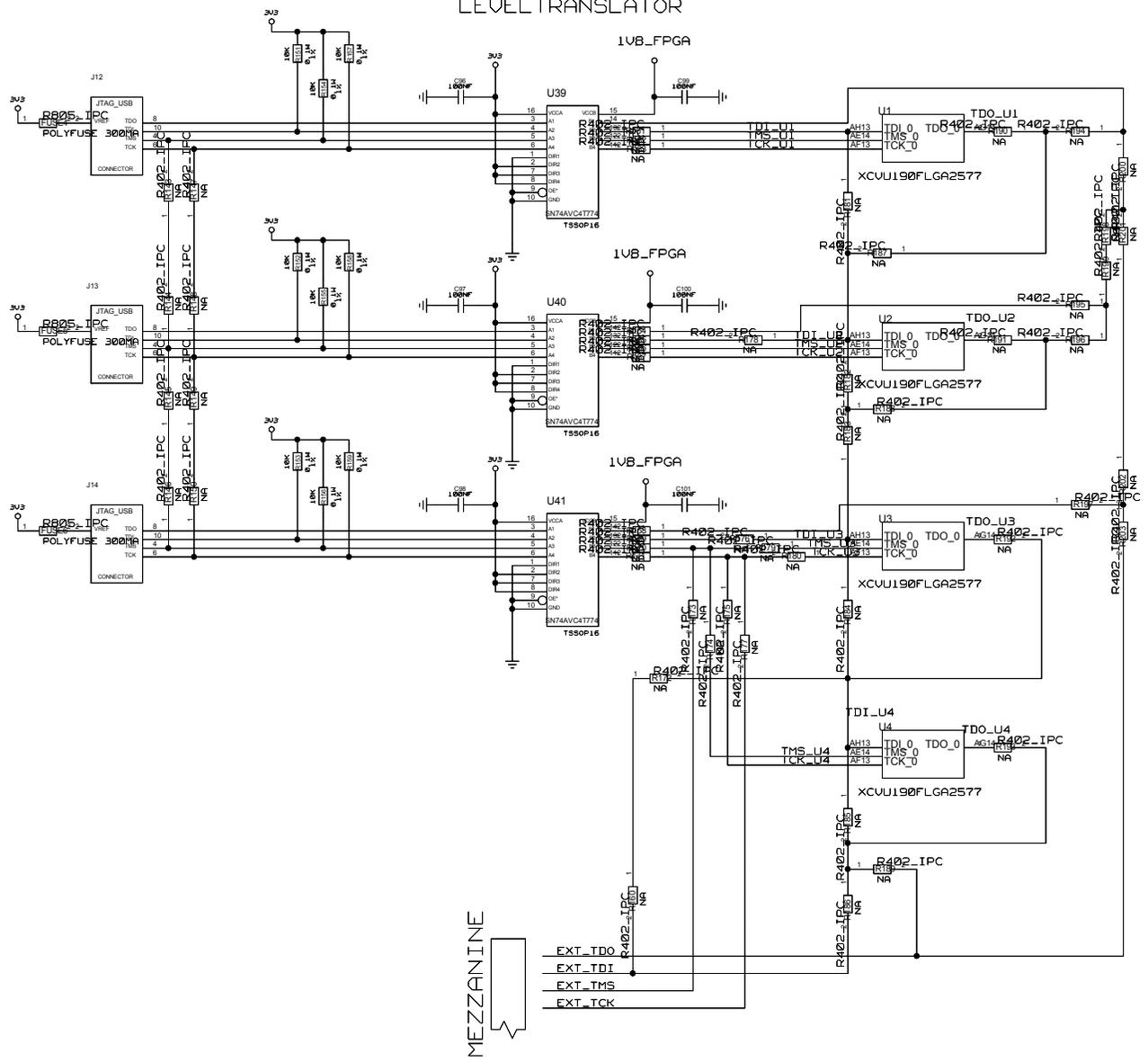


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CHECKED	S.RAVE			
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UNIVERSITY OF MAINZ			SIZE <b>C</b>	DRAWING NO.
SCALE			REV.	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

CLOSE TOGETHER  
NEAR FRONTPANEL

LEVEL TRANSLATOR



MEZZANINE

- EXT\_TDO
- EXT\_TDI
- EXT\_TMS
- EXT\_TCK

CHECKED	NAME	DATE	SIGN	DRAWING TITLE	
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SCALE					SHEET OF