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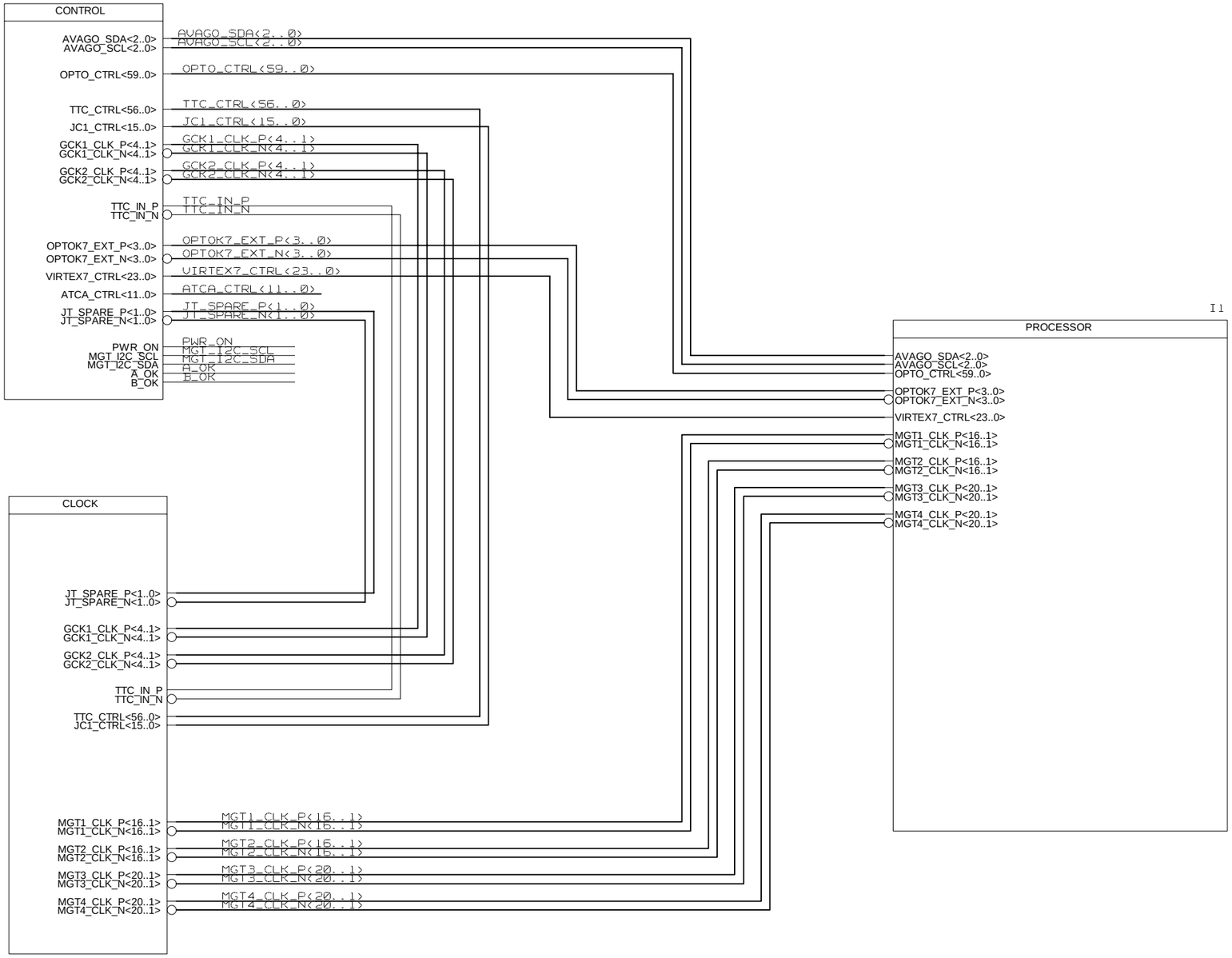

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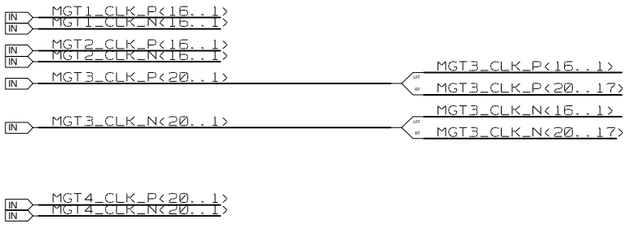

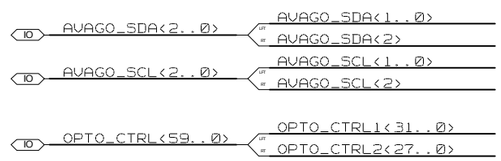

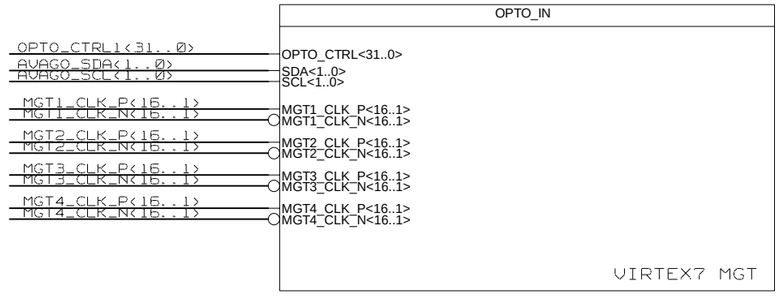

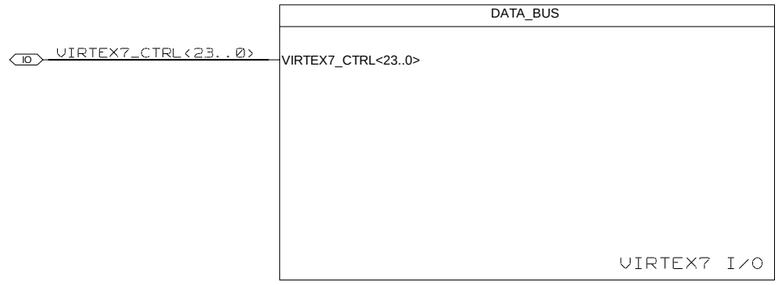

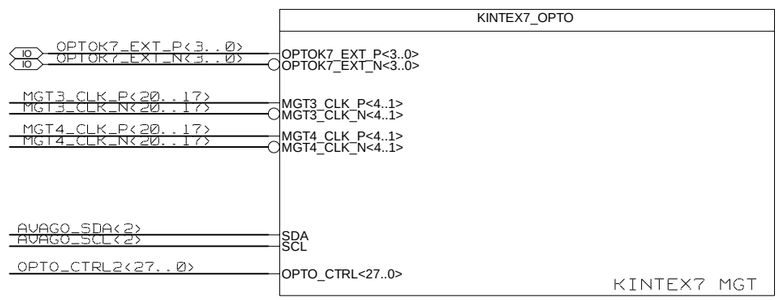

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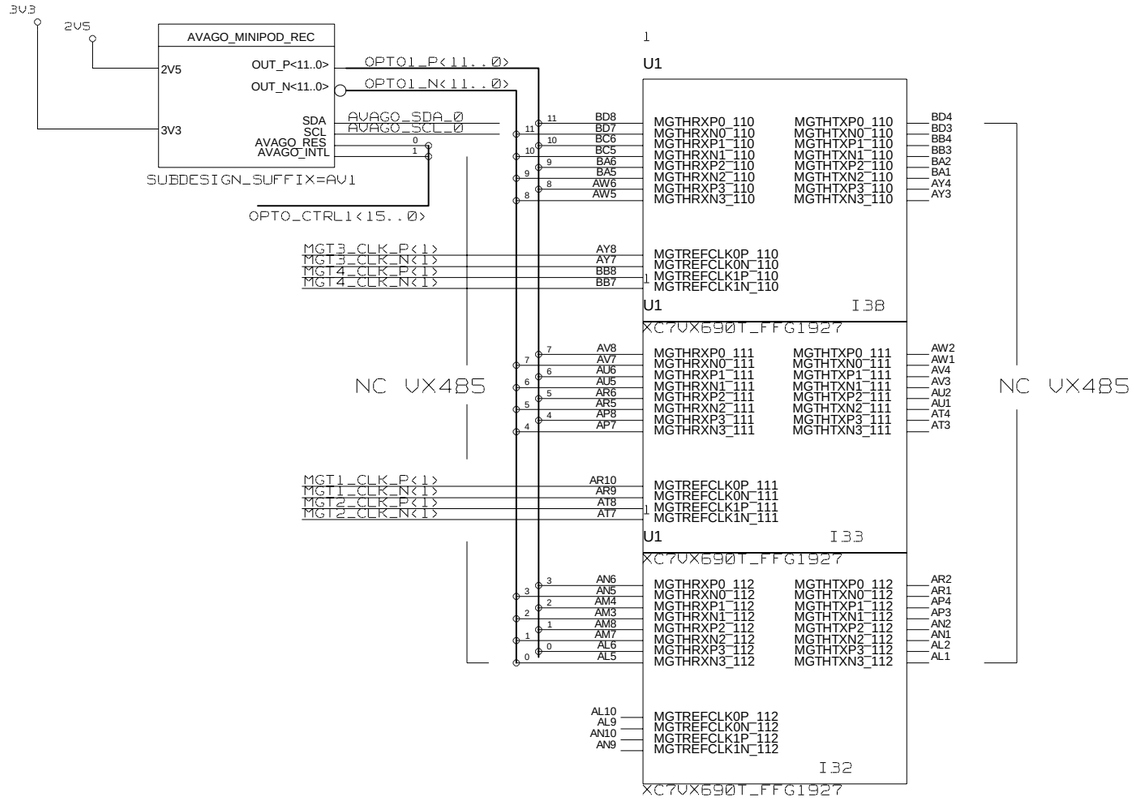

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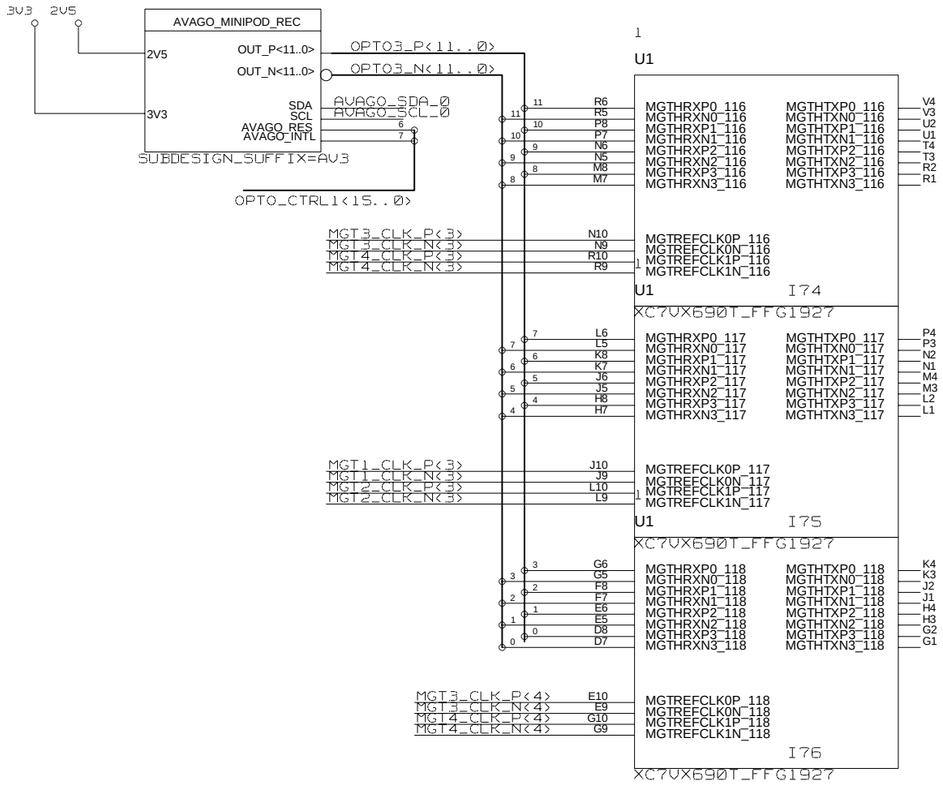

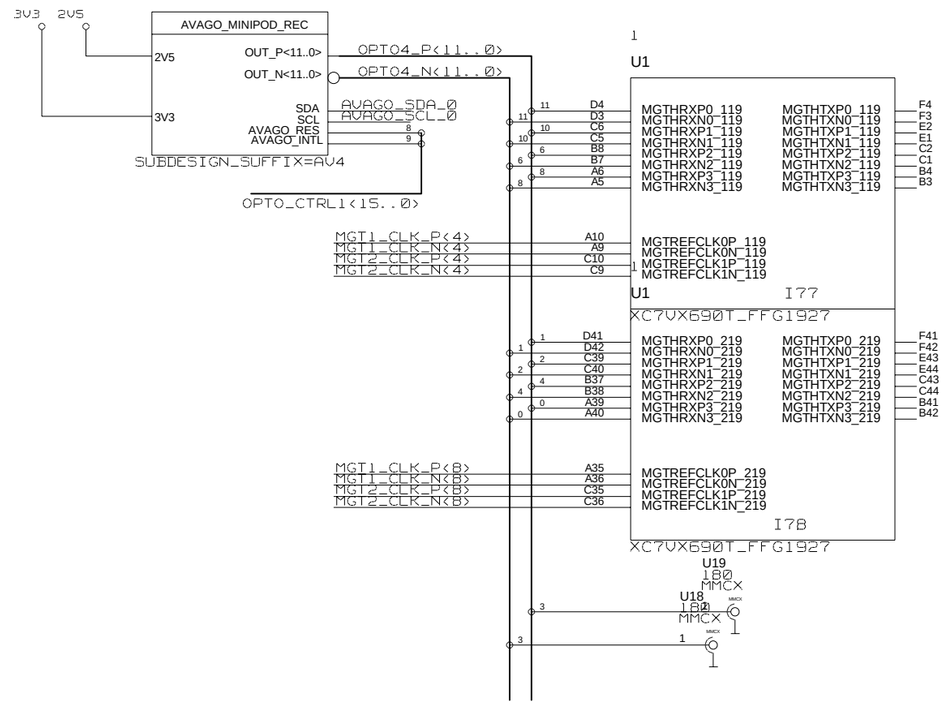

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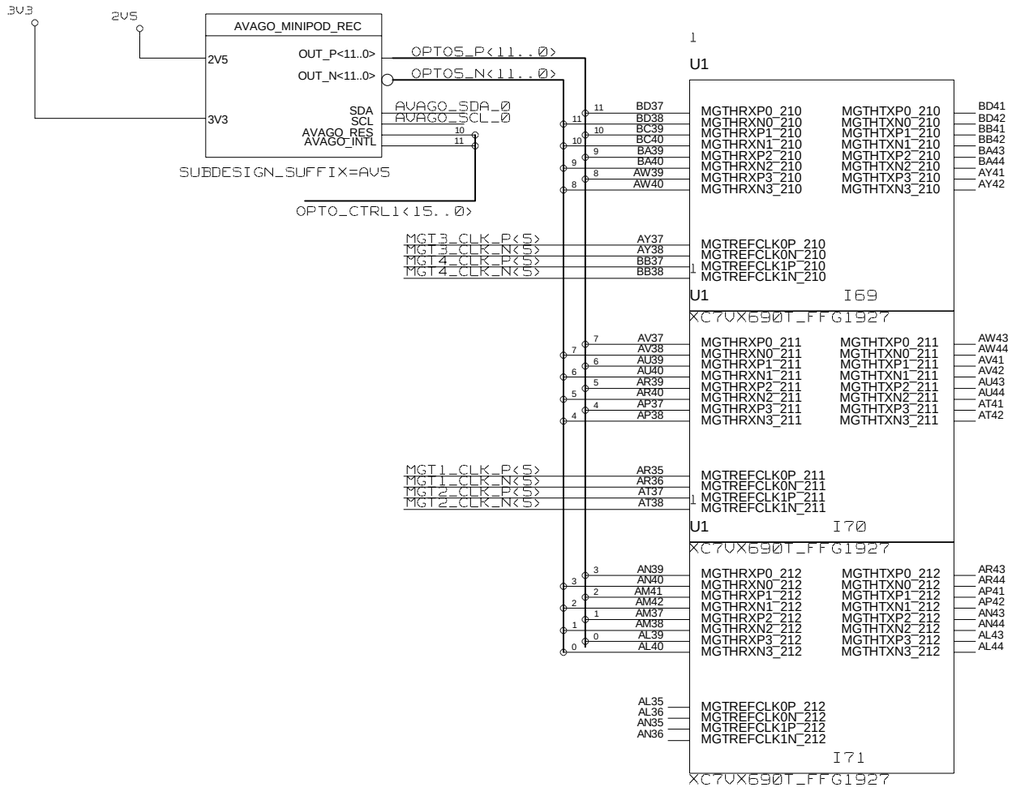

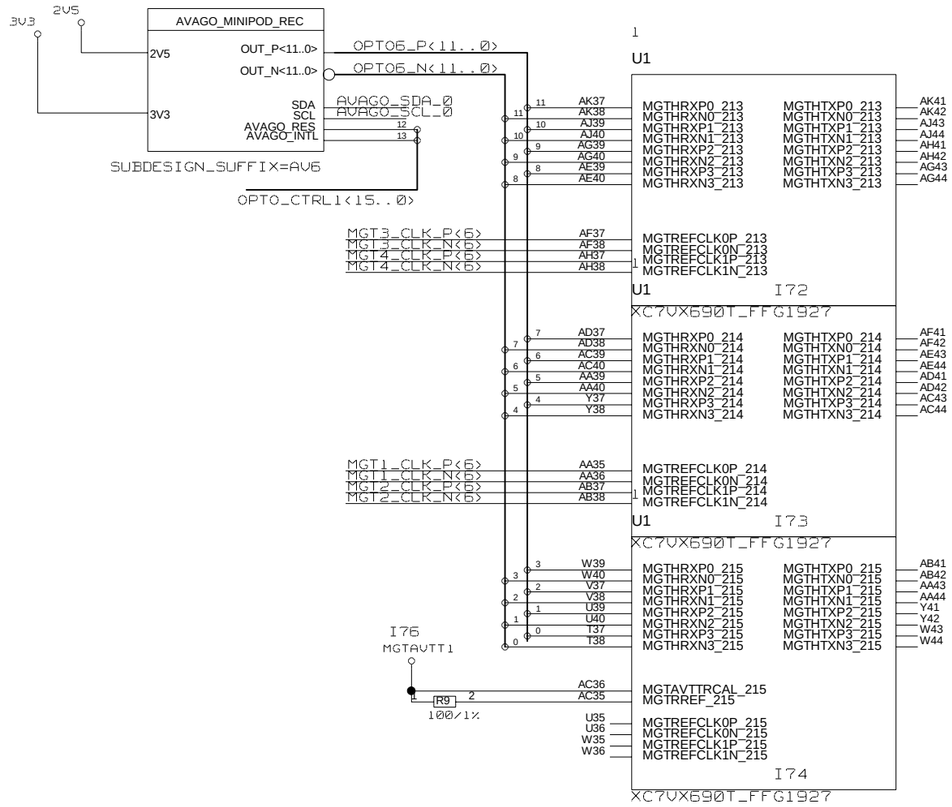

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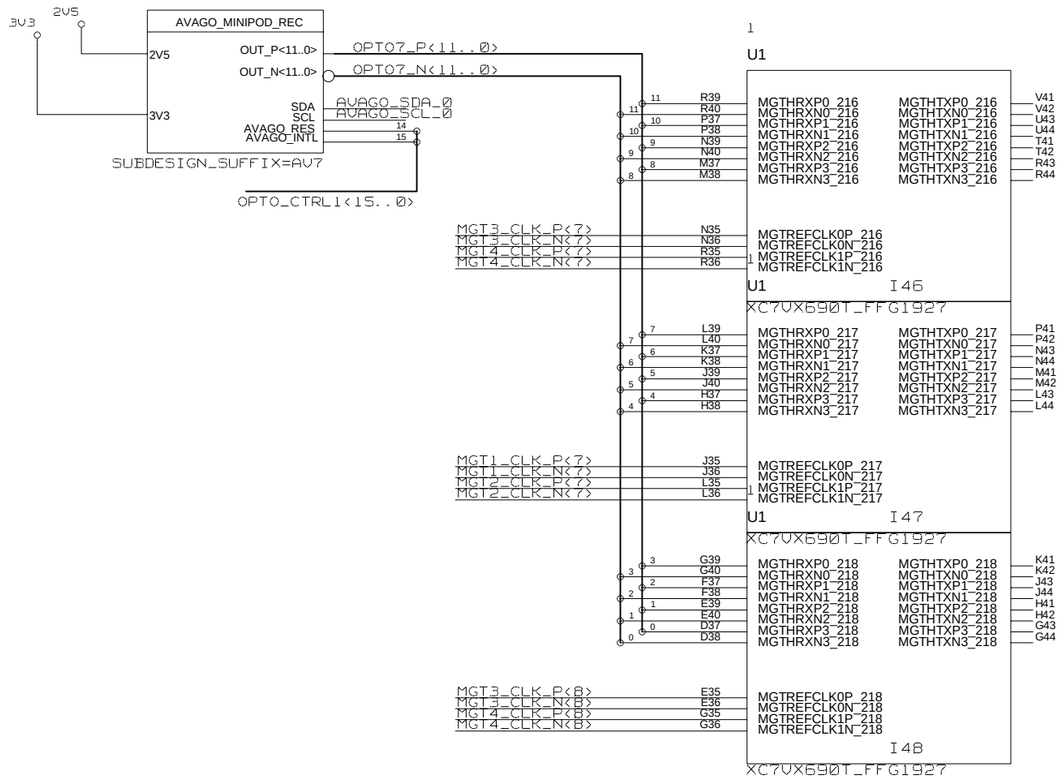

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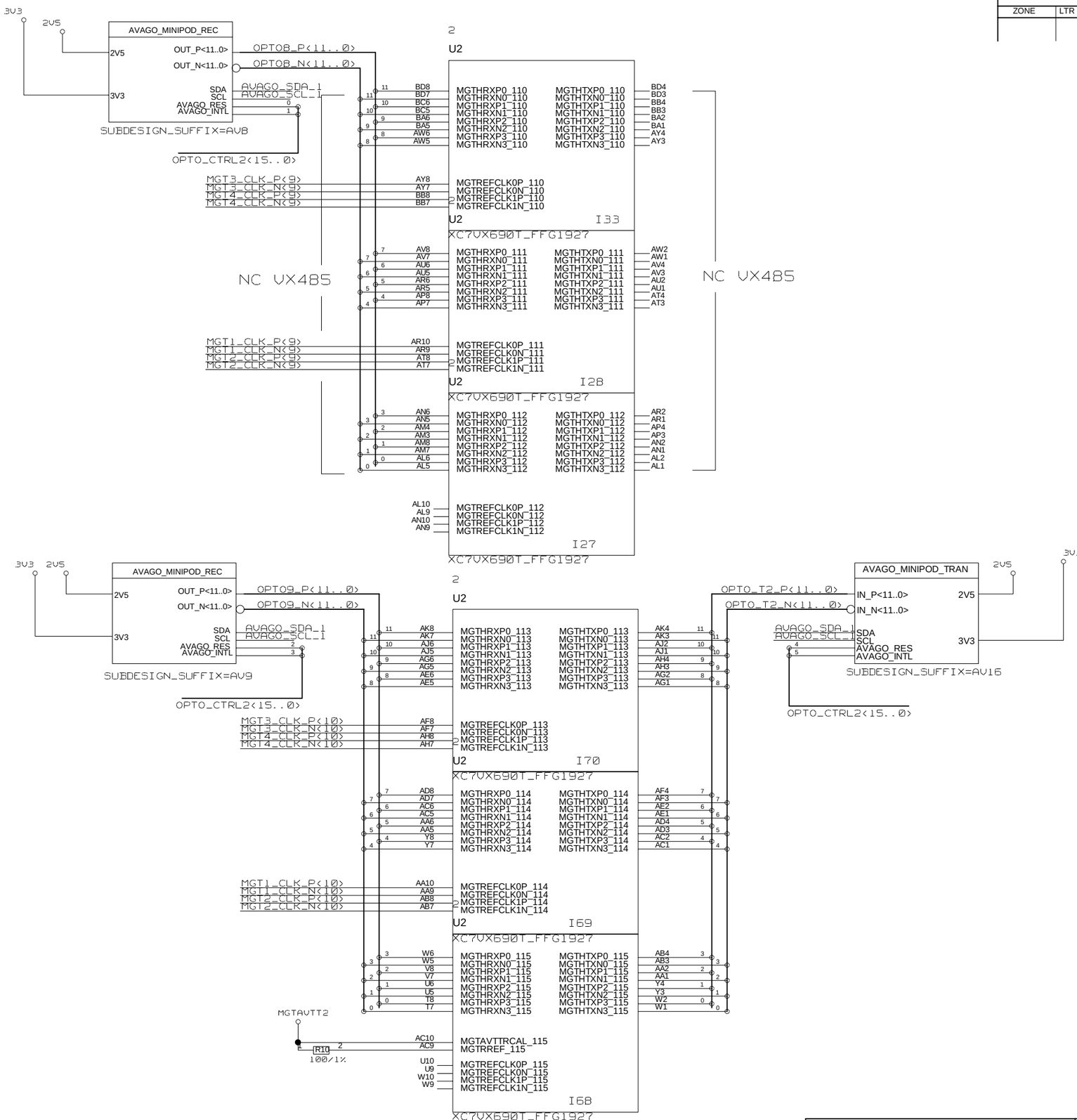

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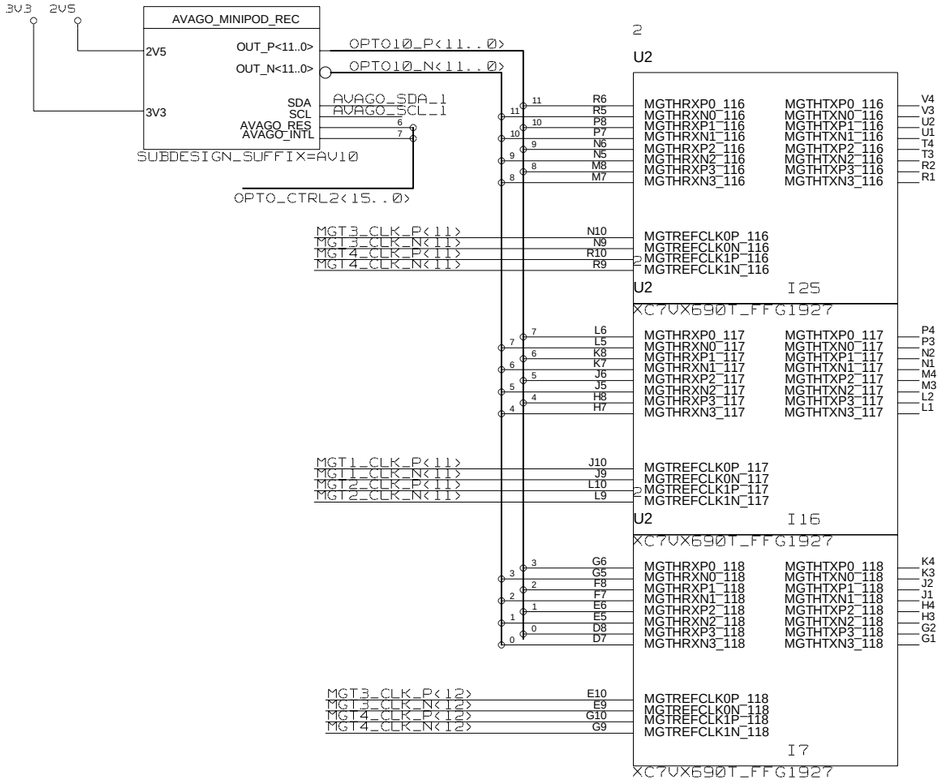

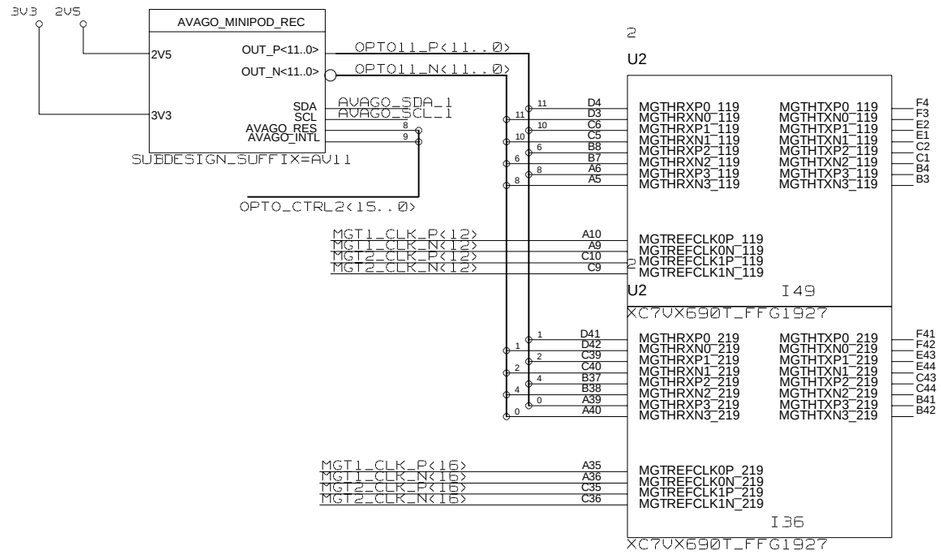

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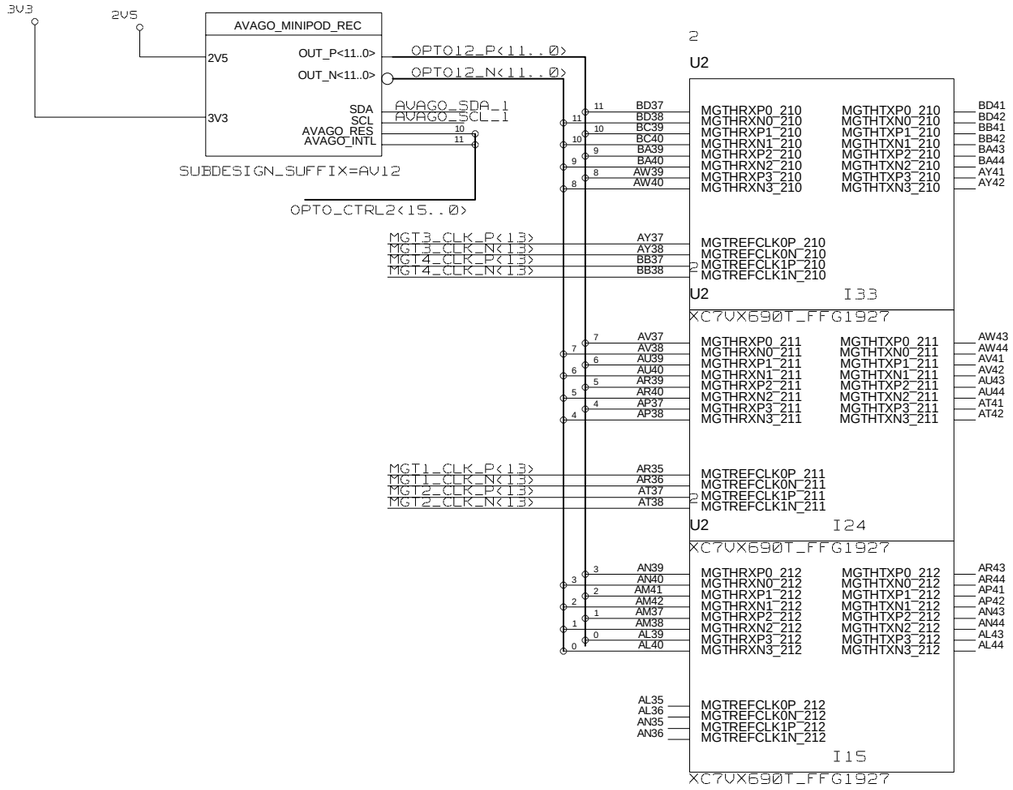

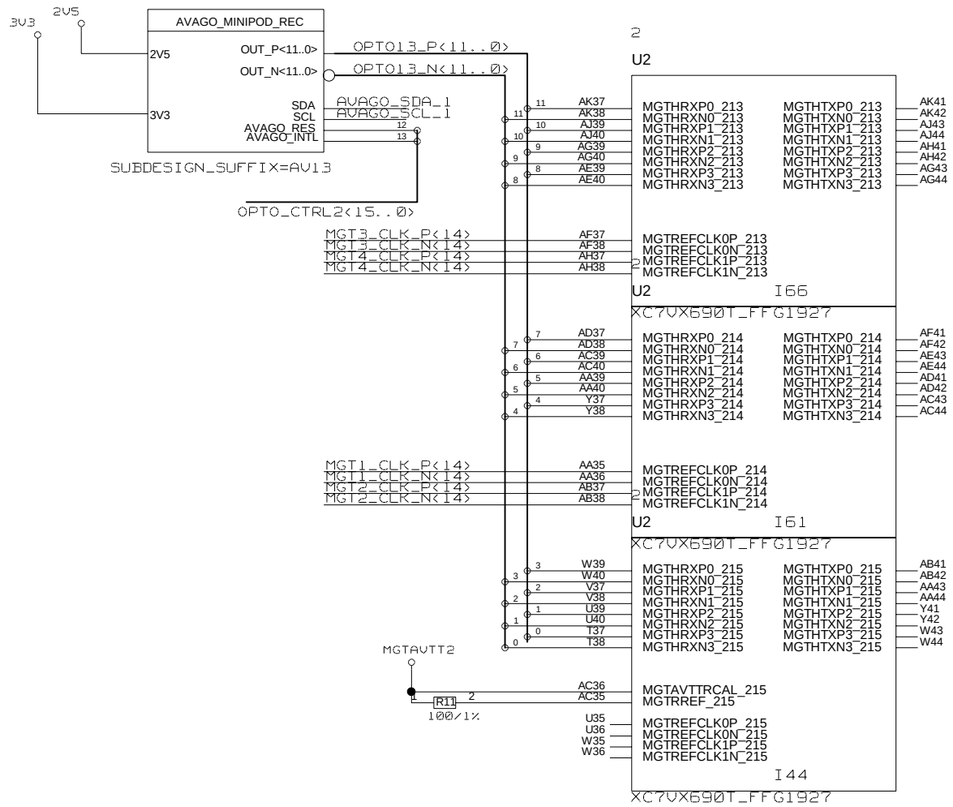

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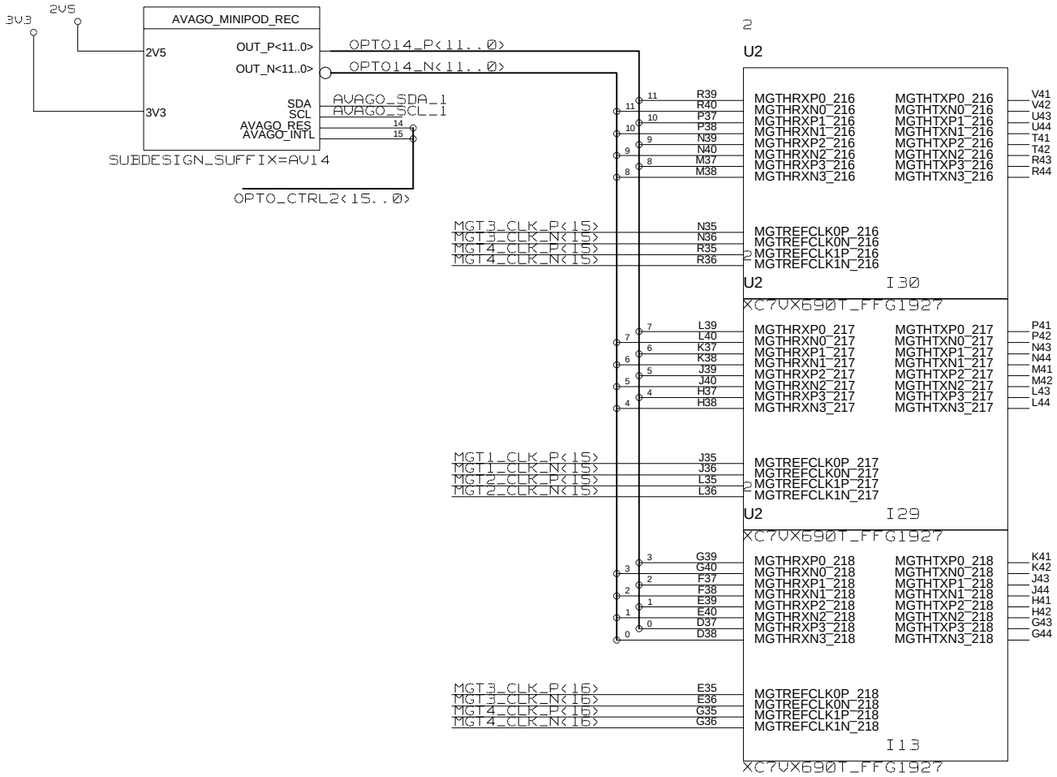

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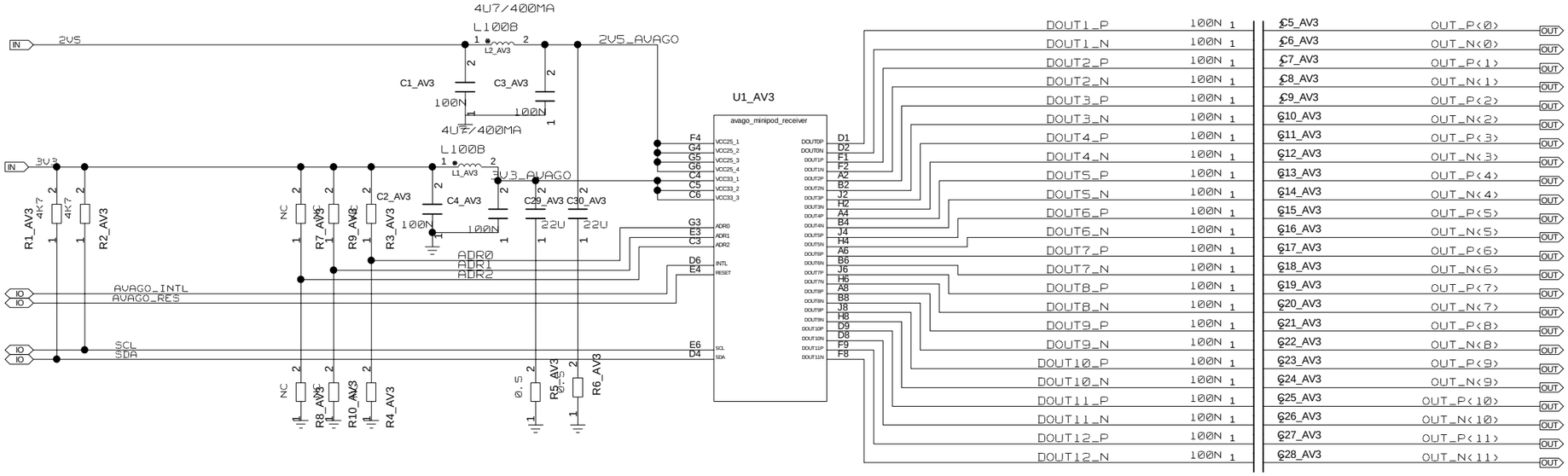

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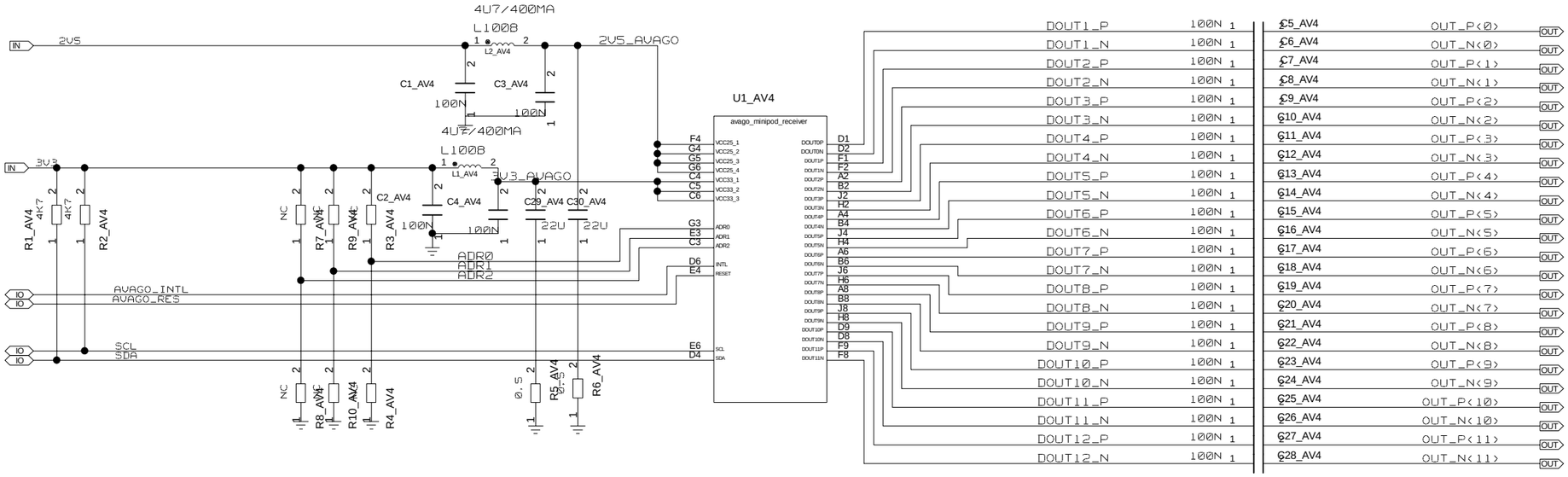

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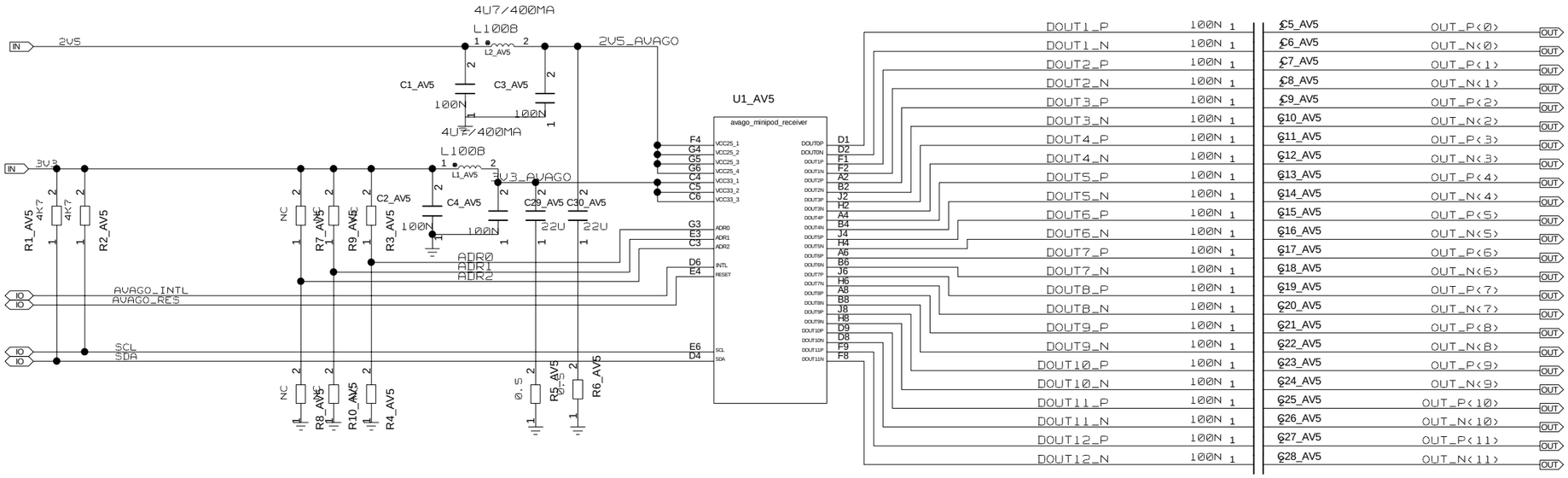

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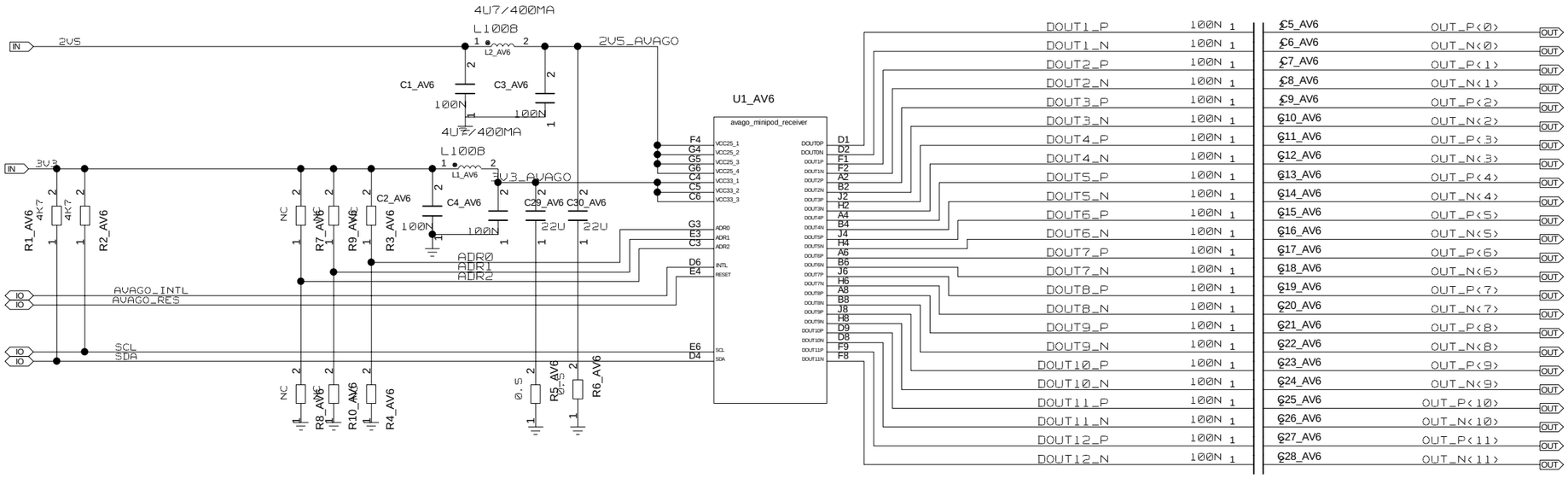

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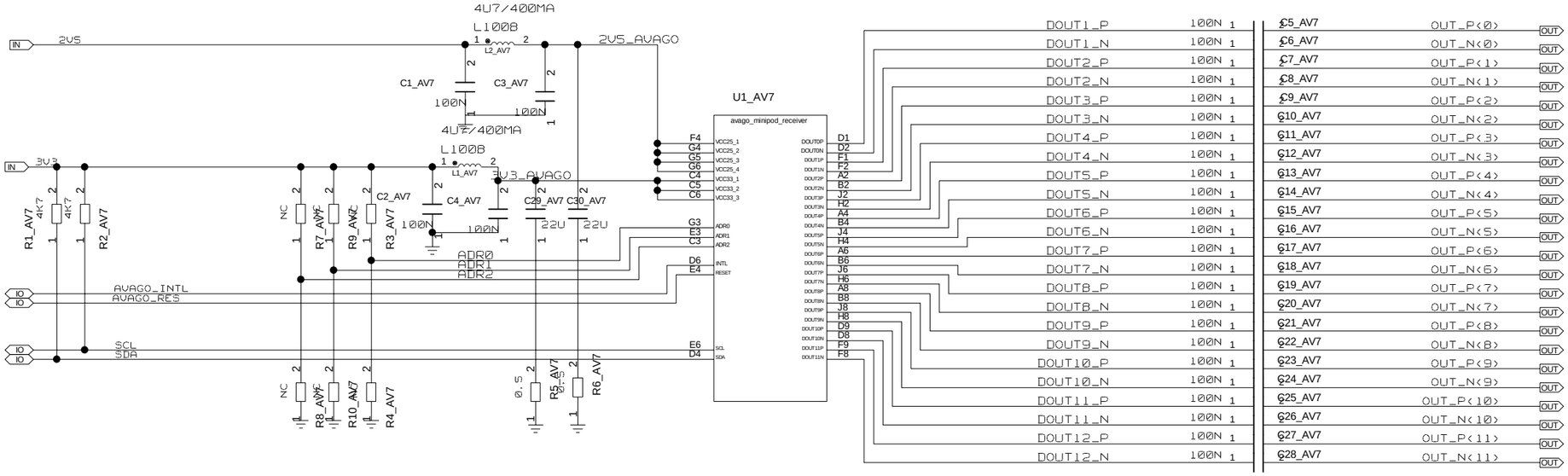

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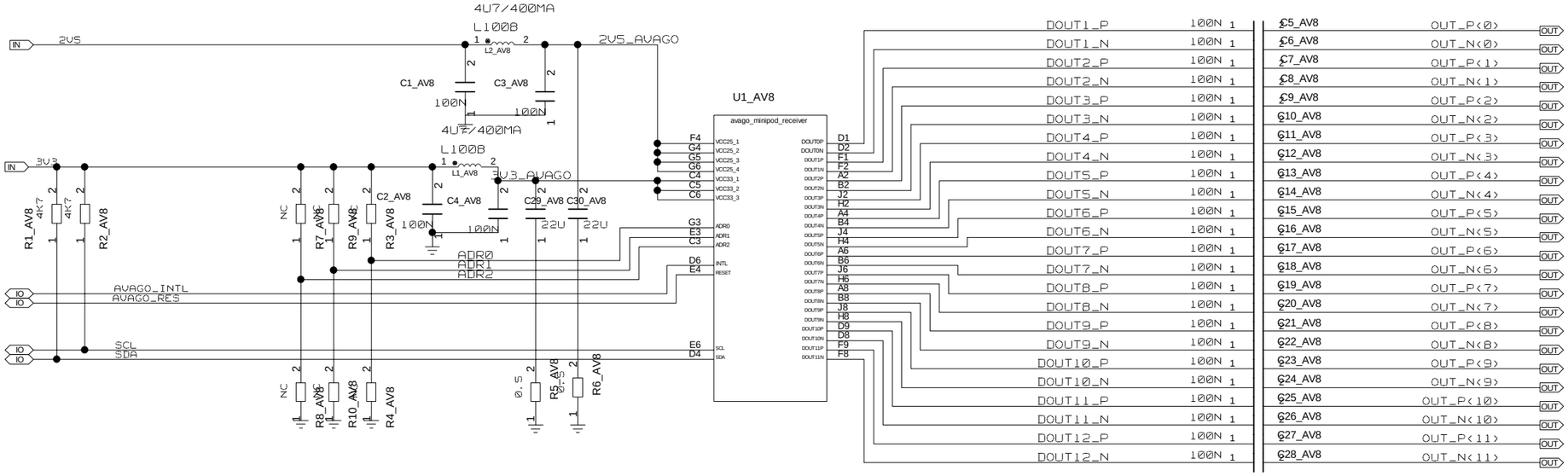

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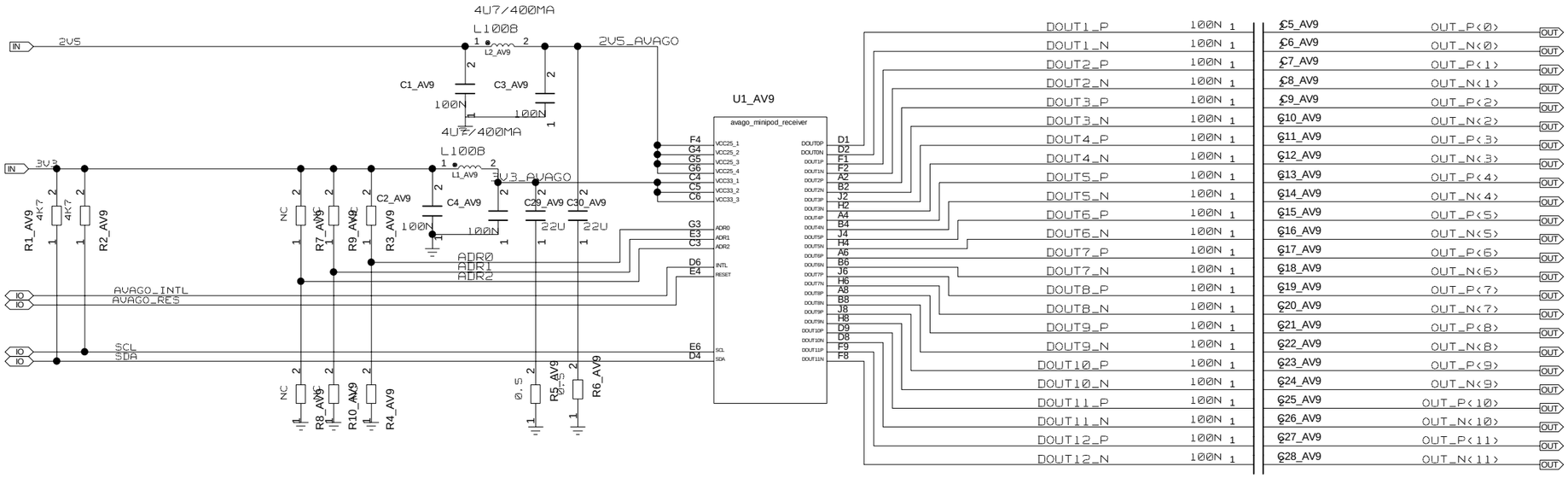

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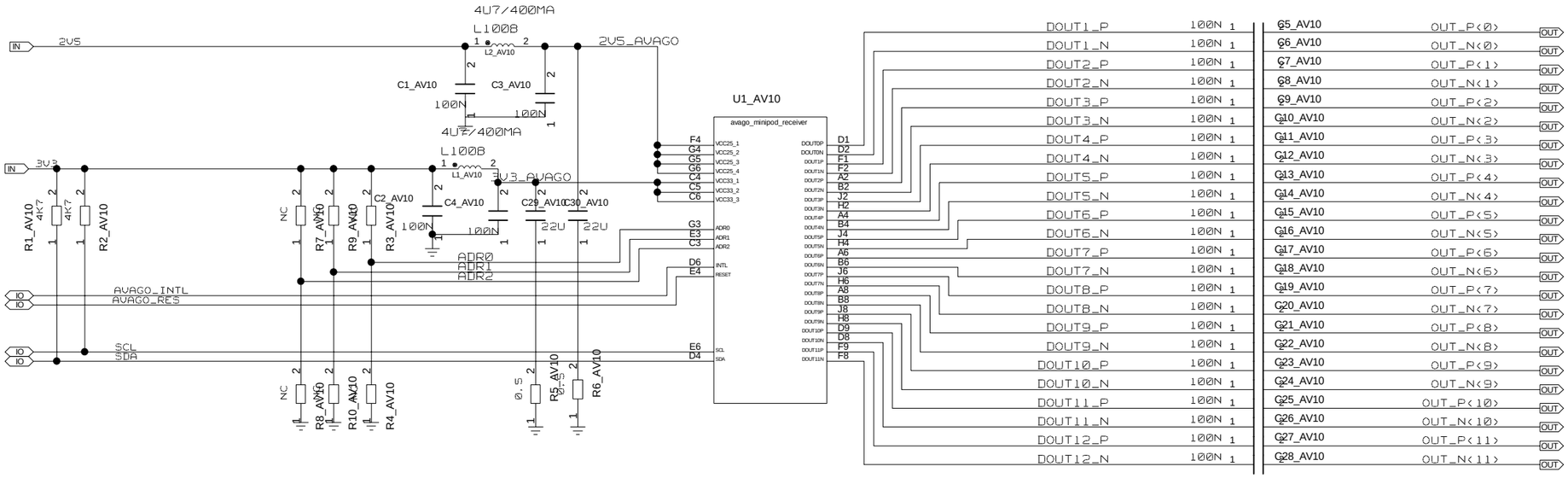

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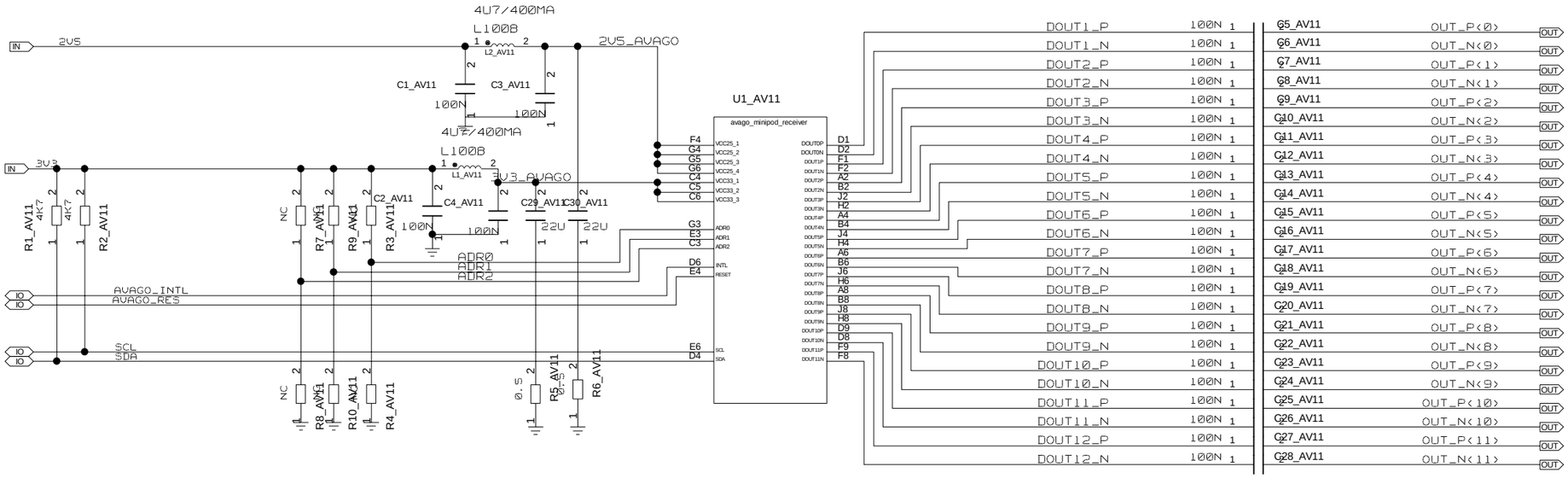

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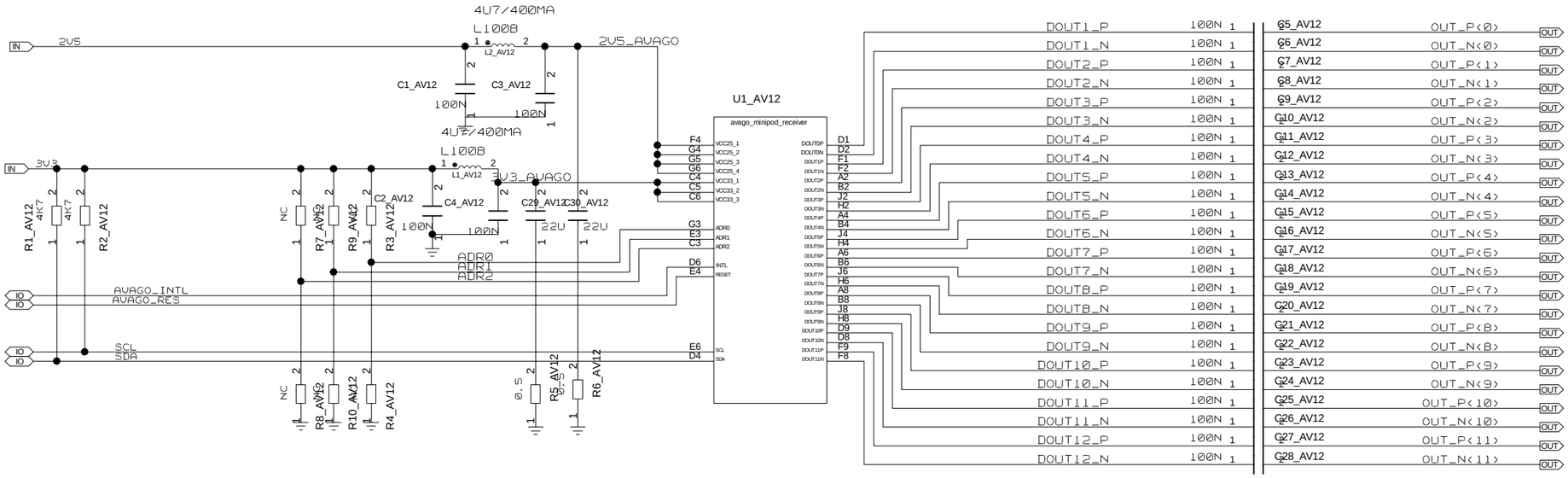

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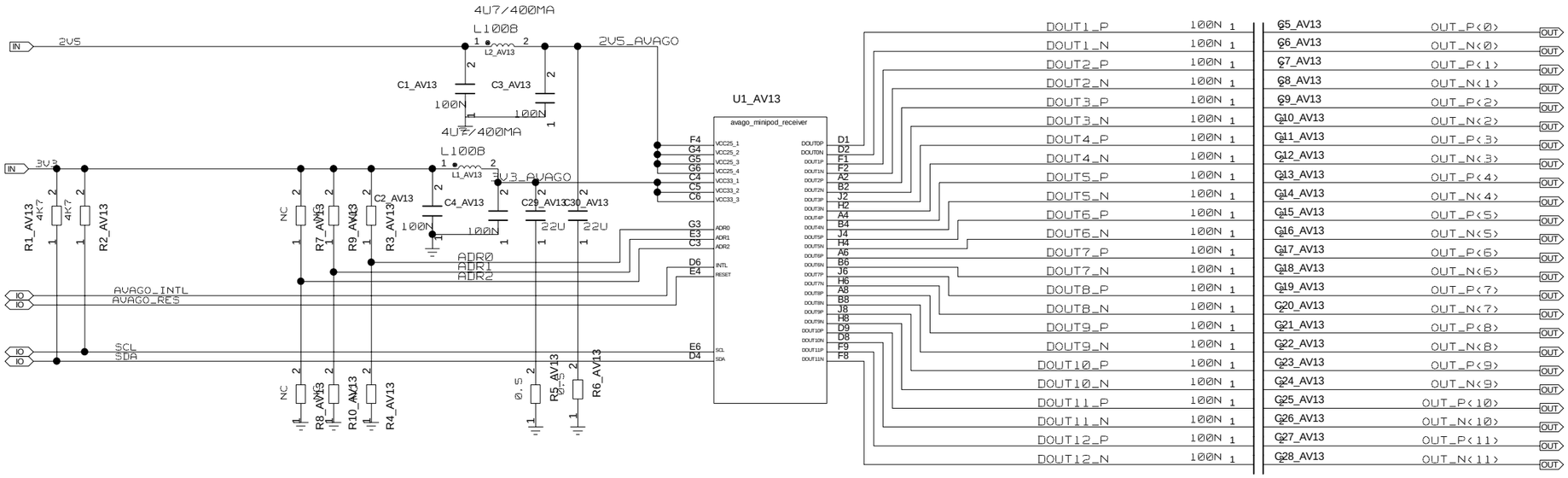

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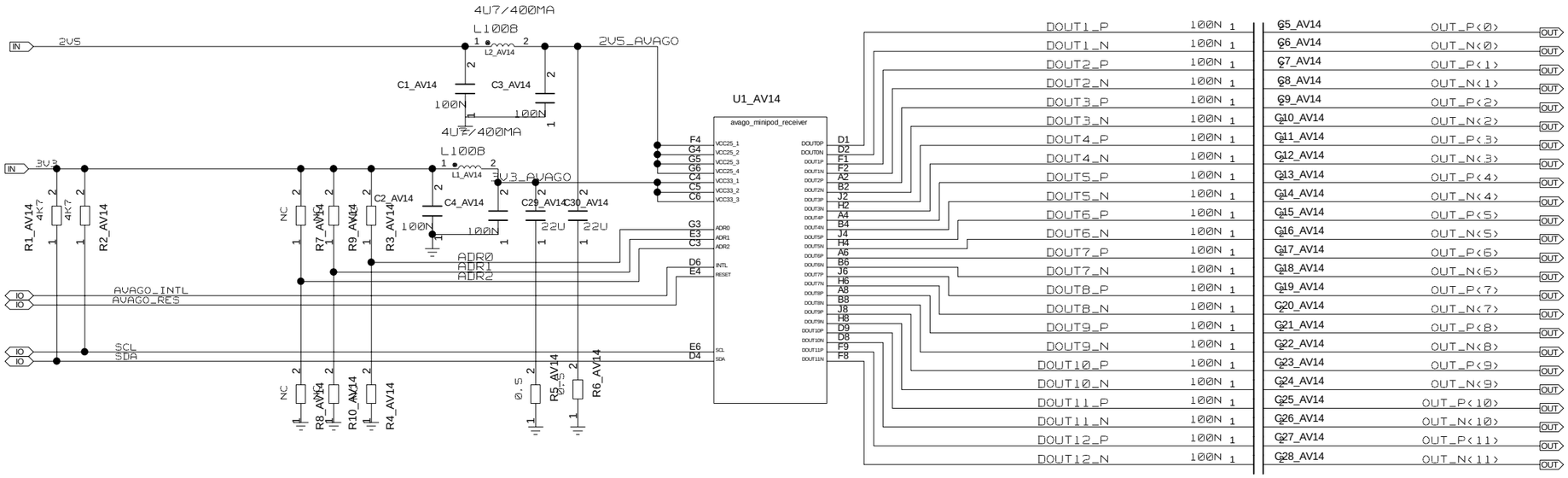

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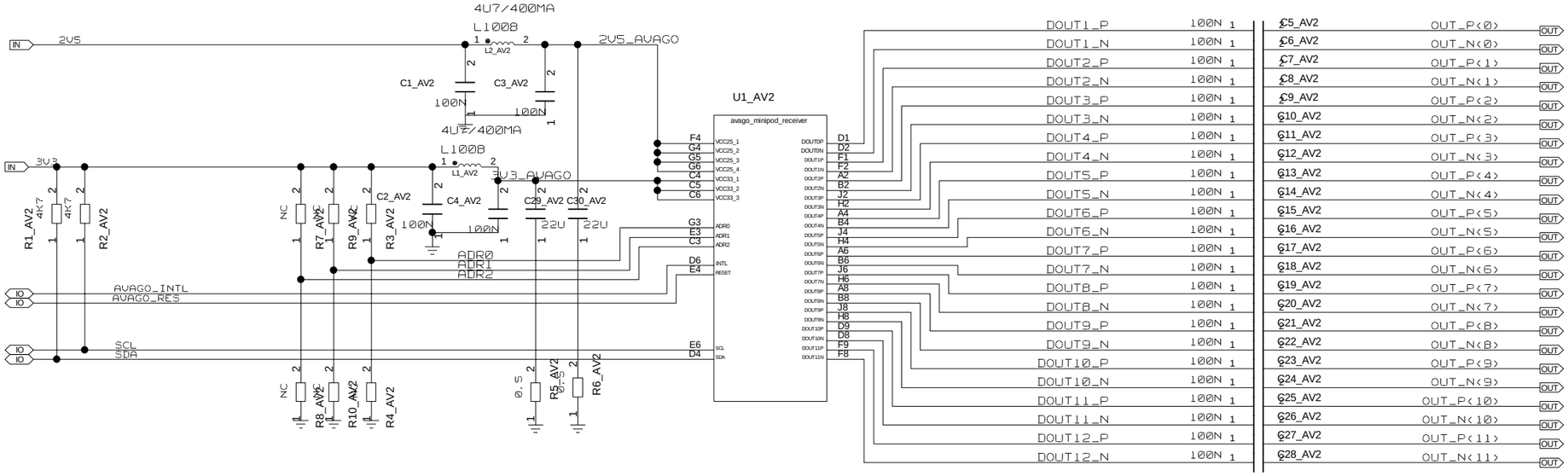

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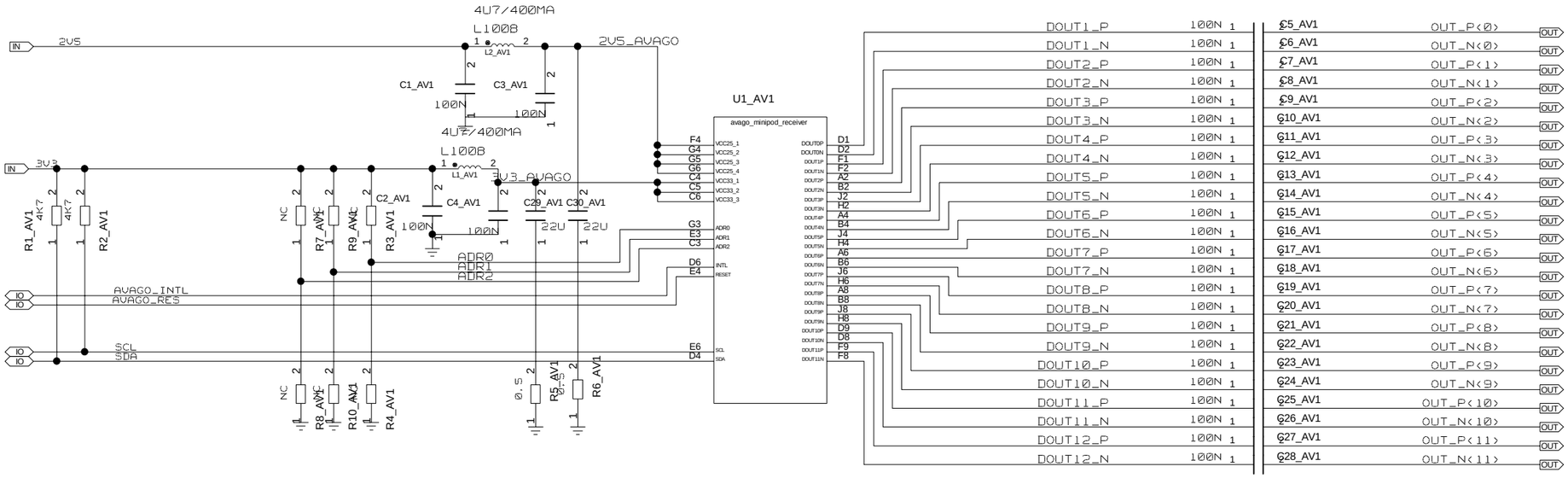

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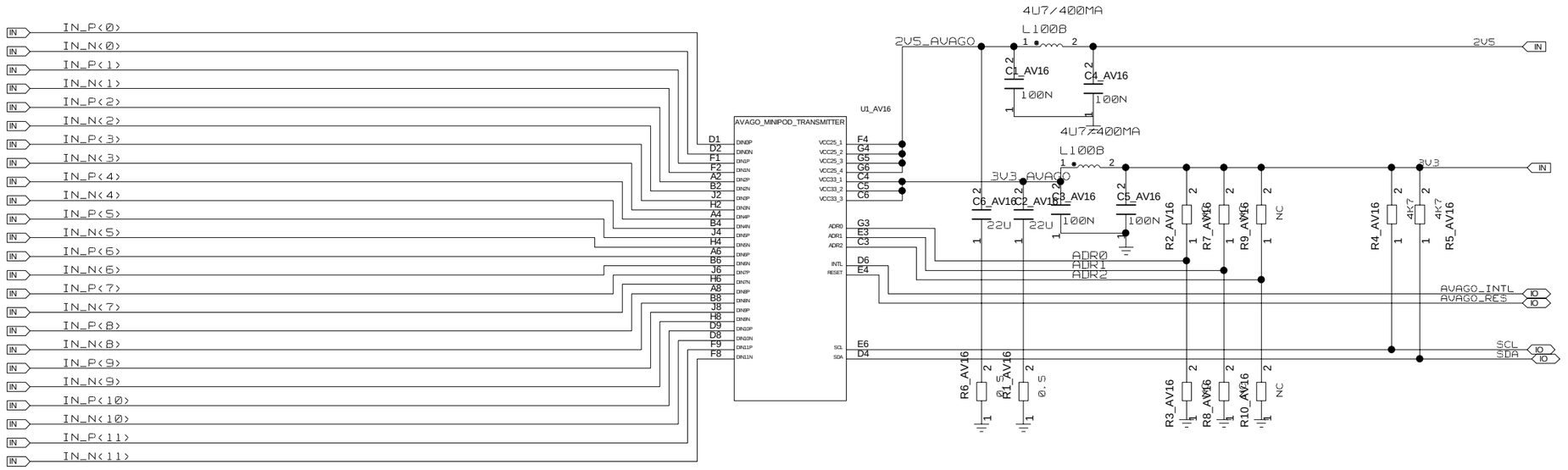

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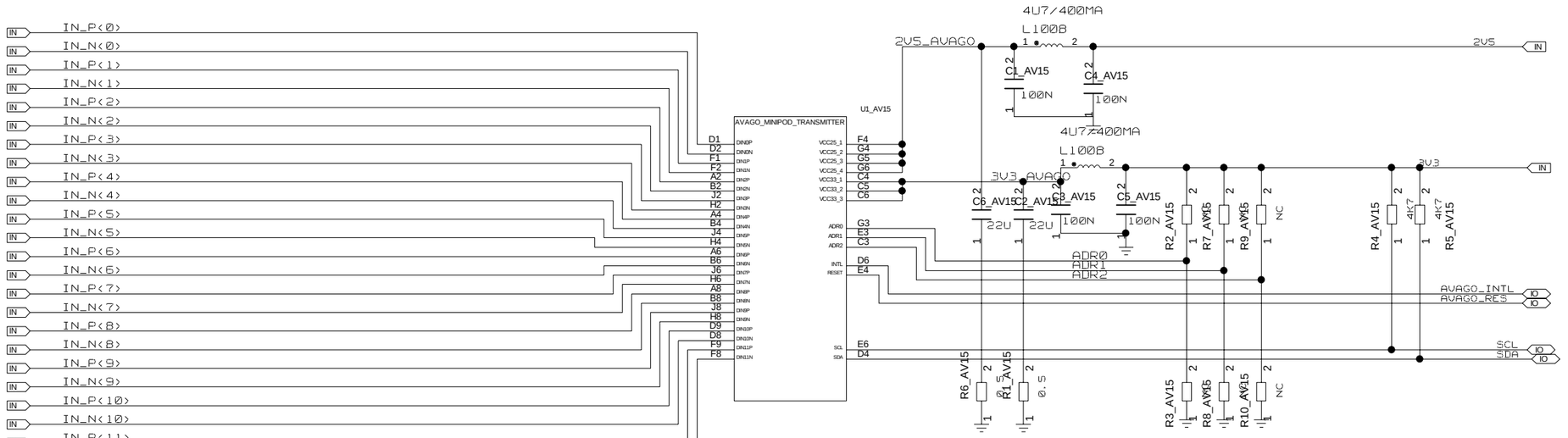

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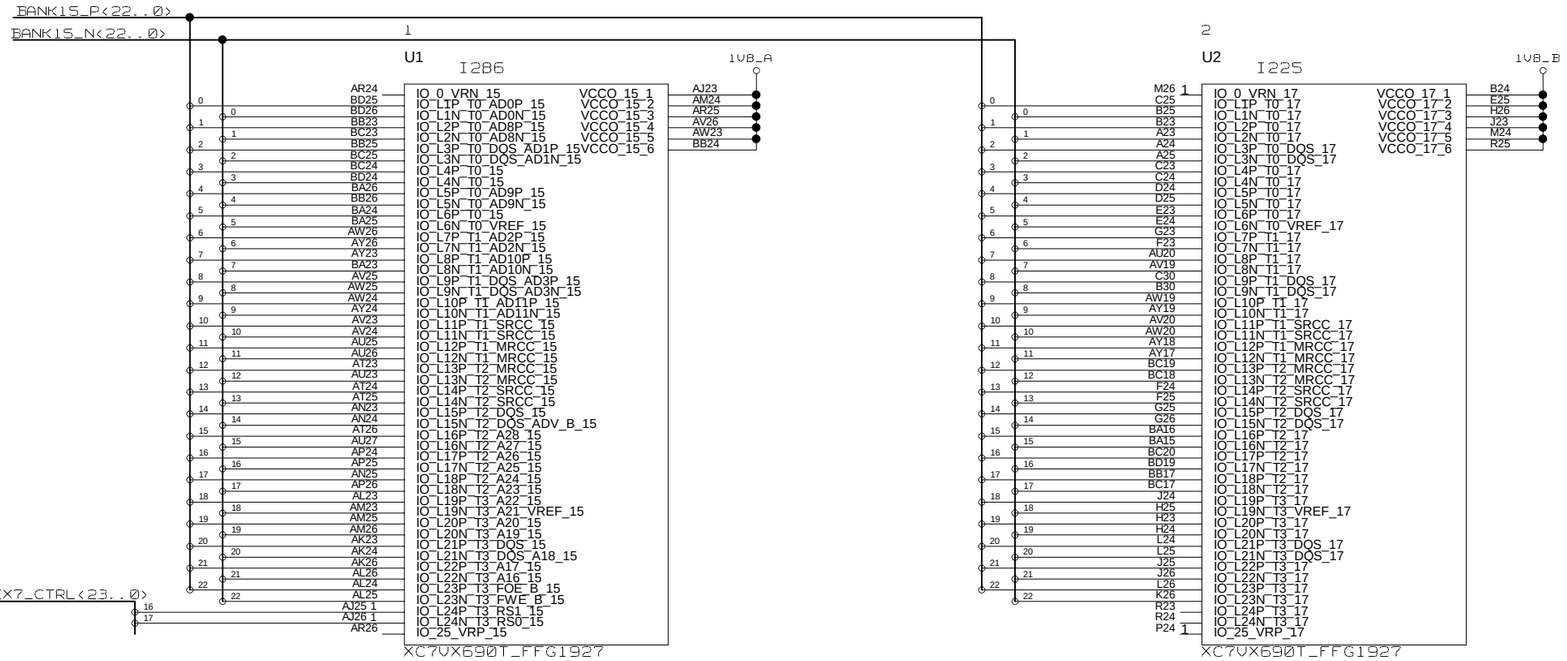

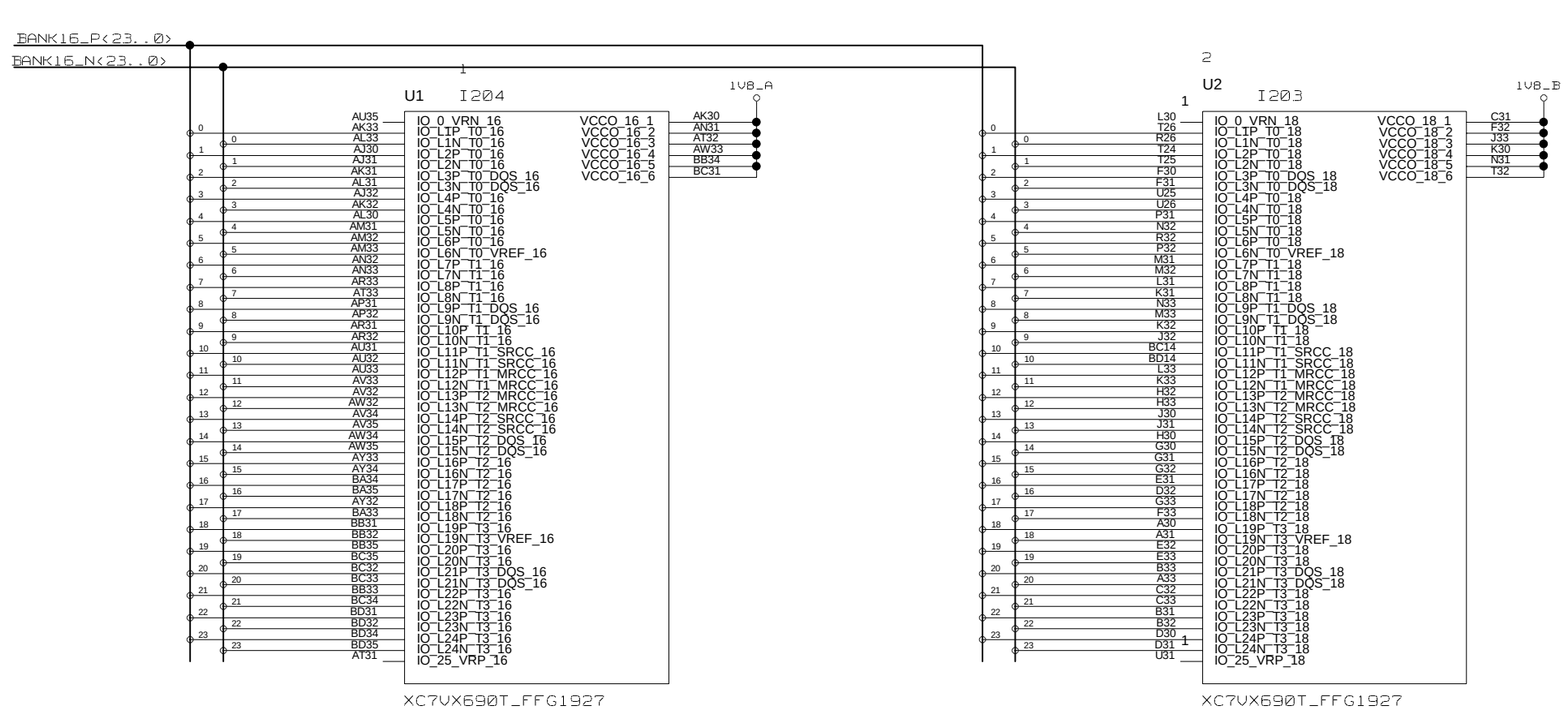

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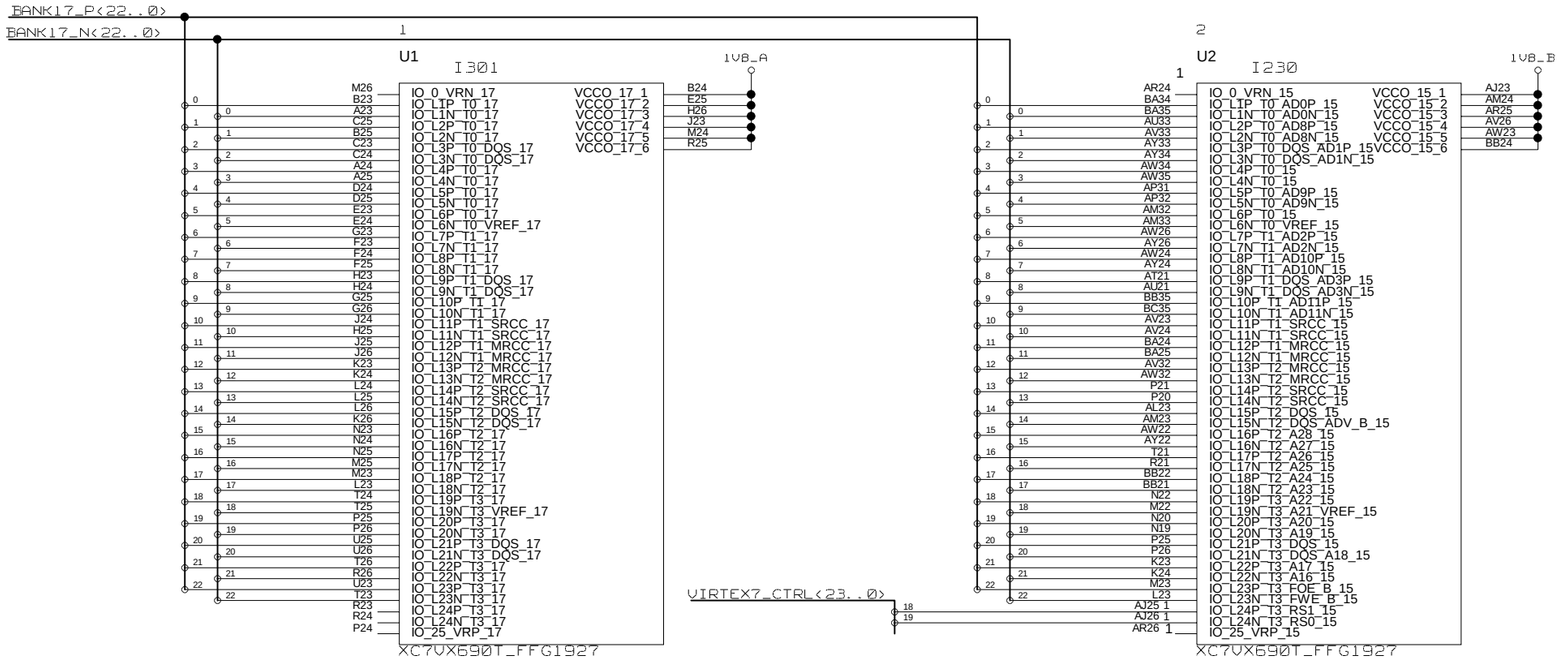

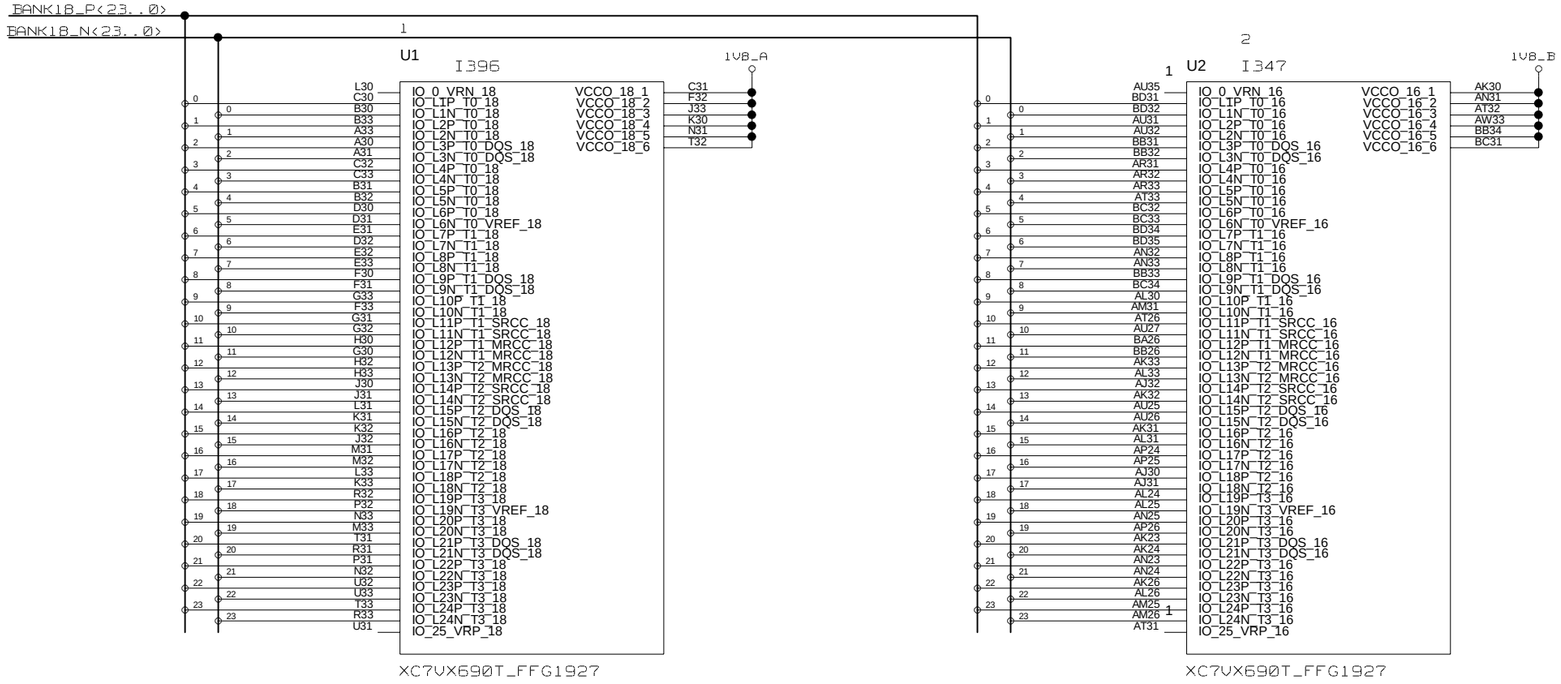

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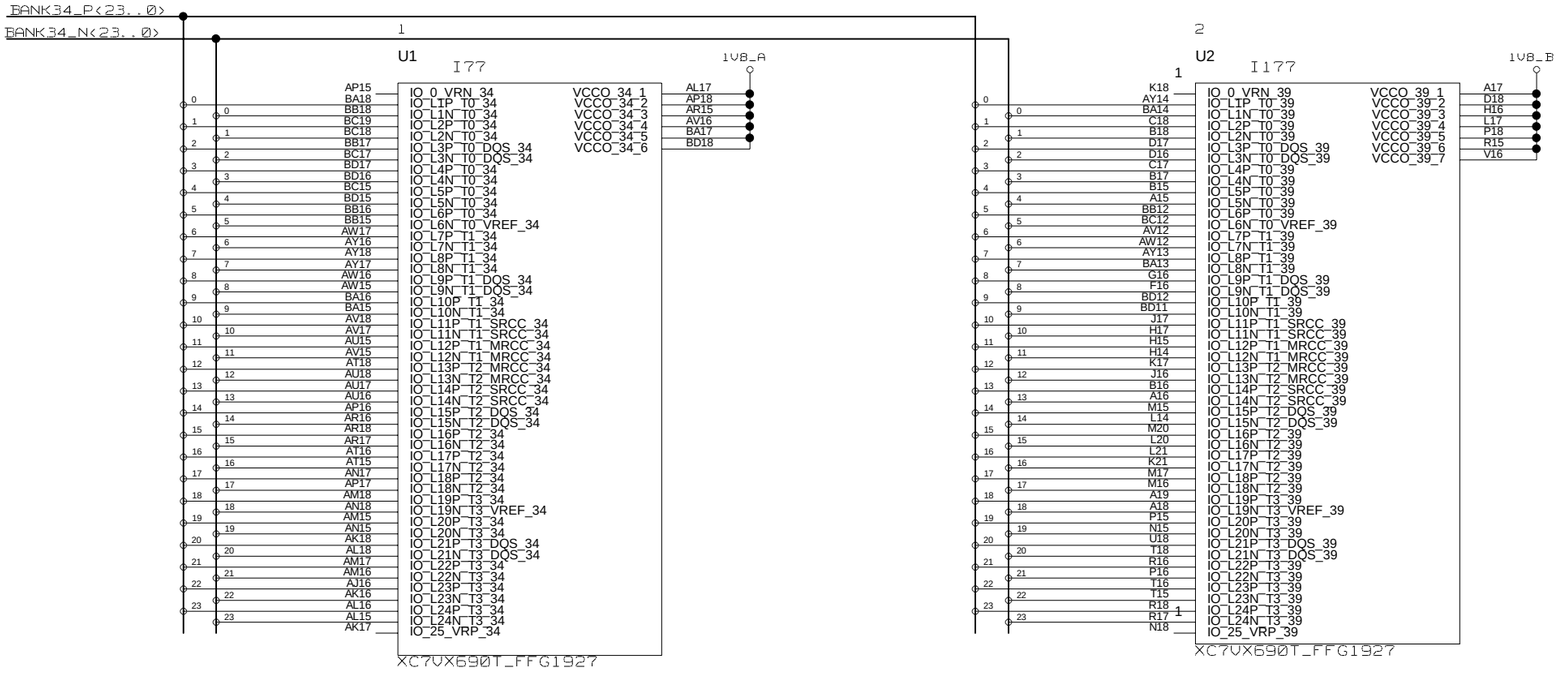

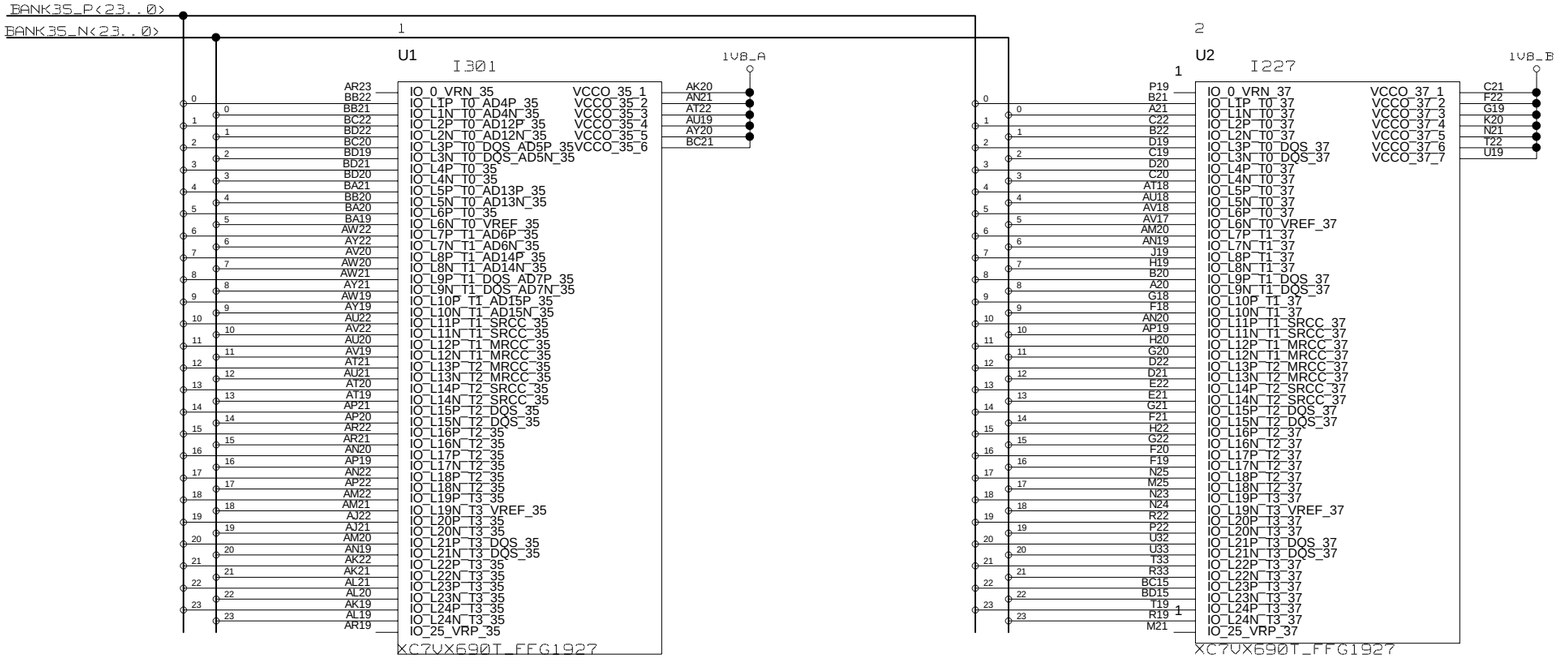

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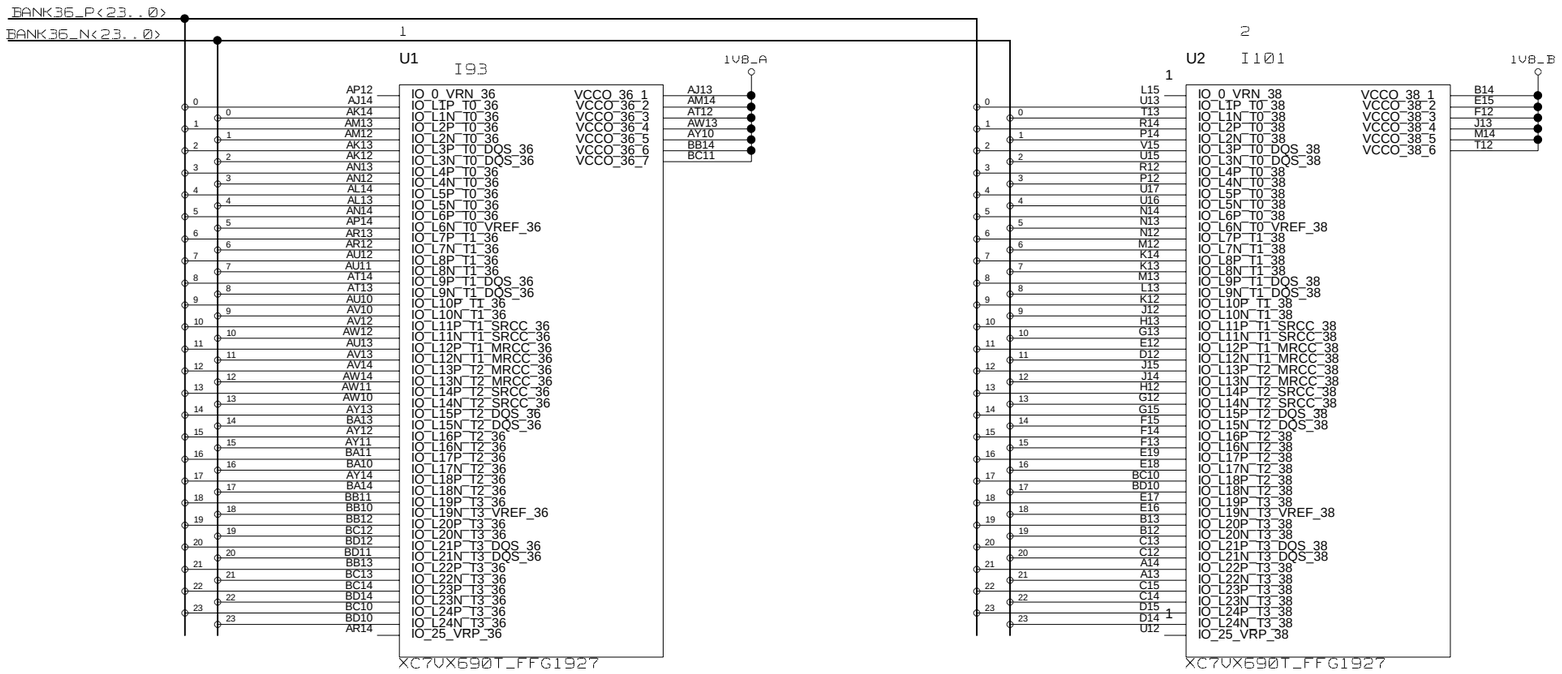

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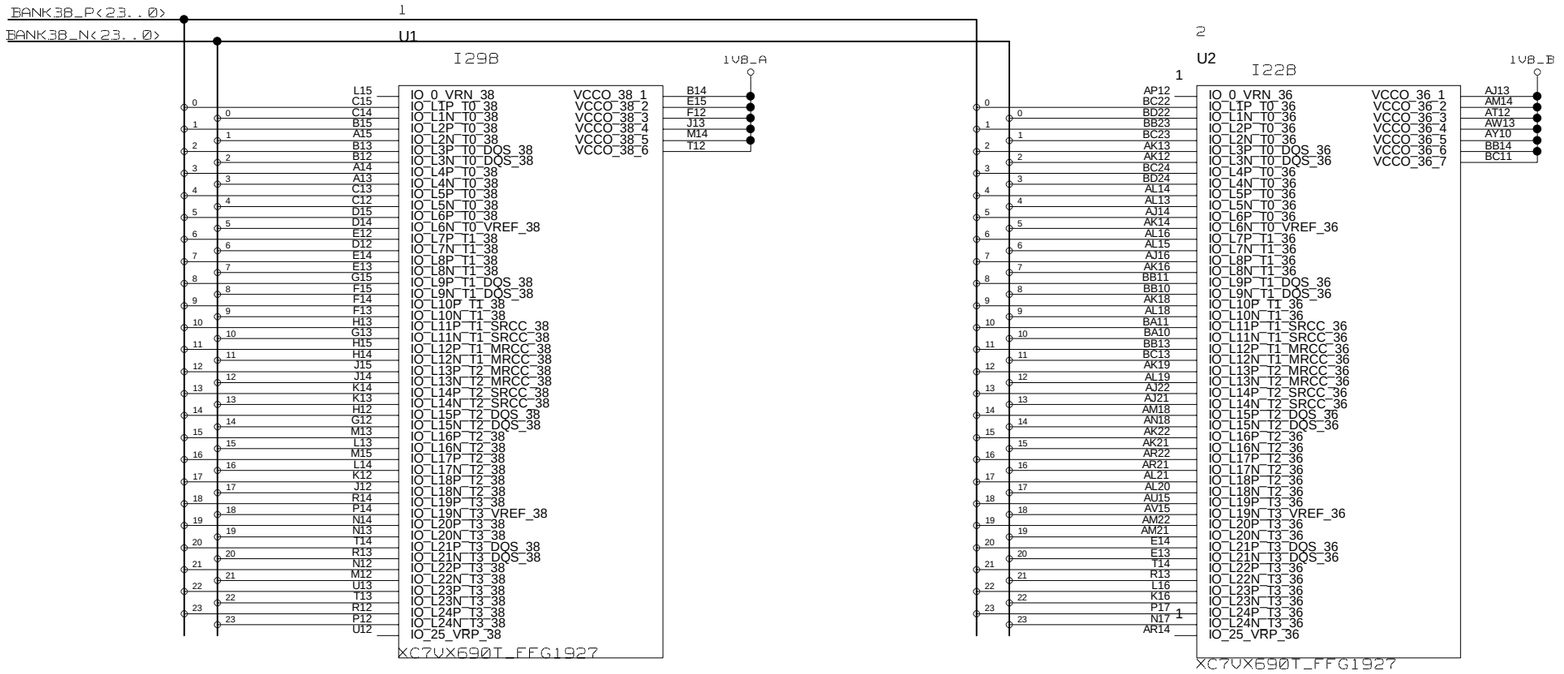

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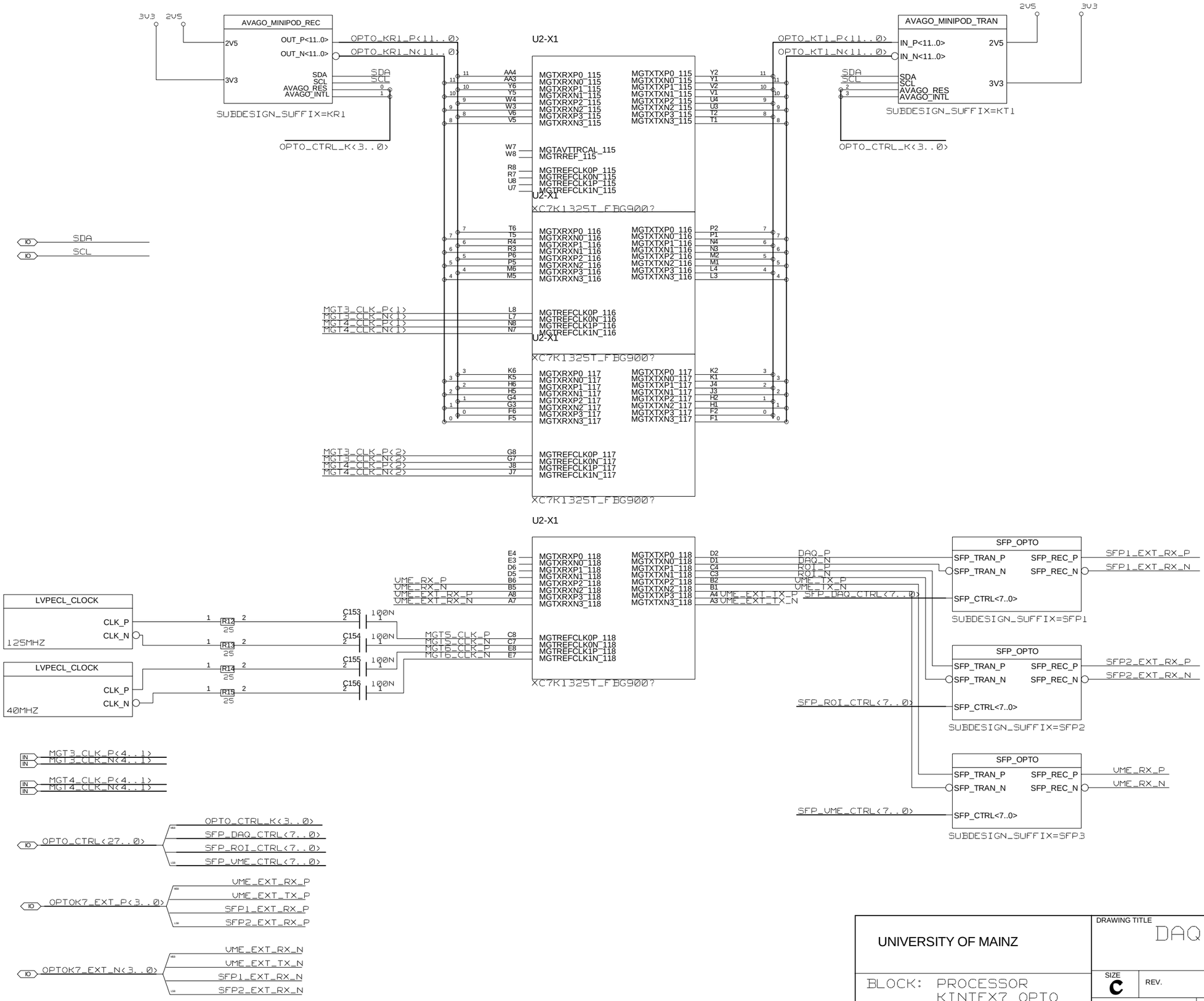

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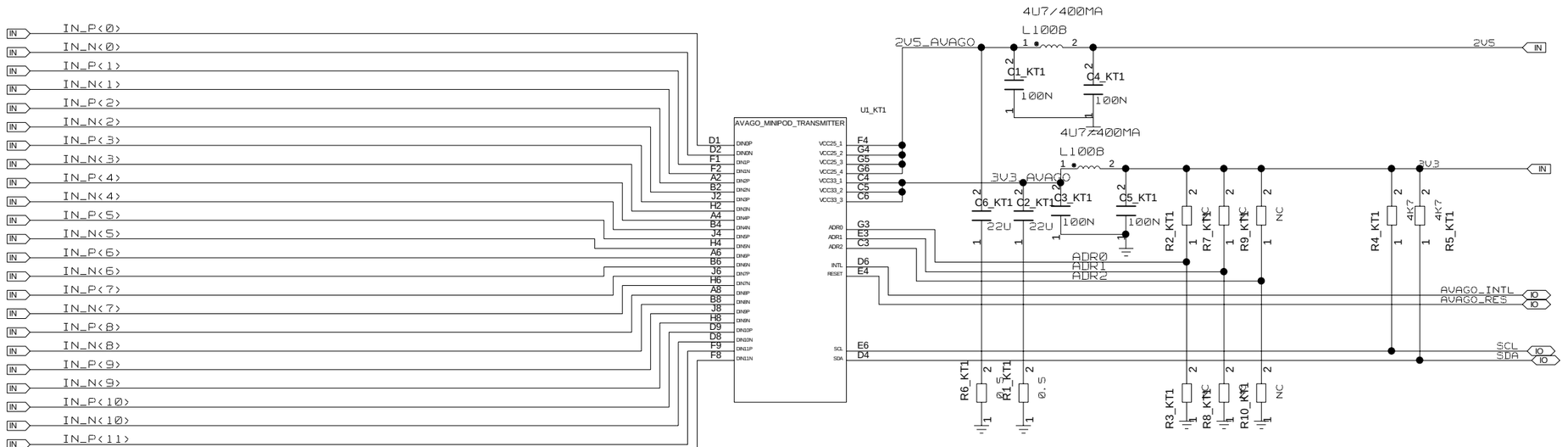

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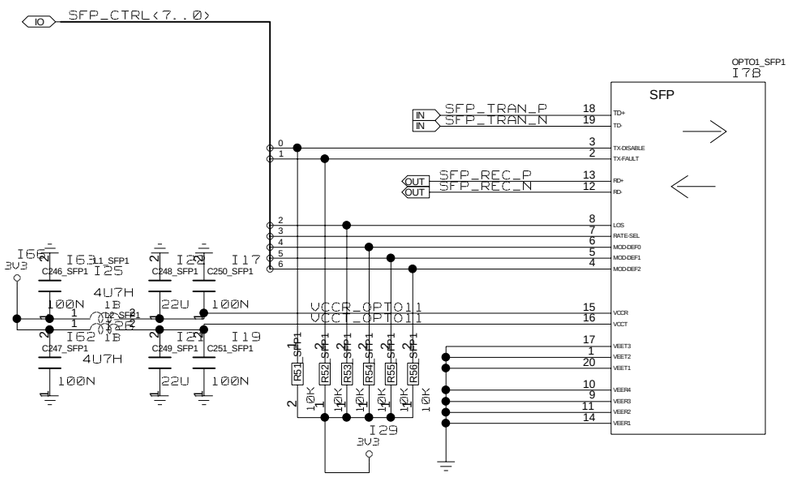

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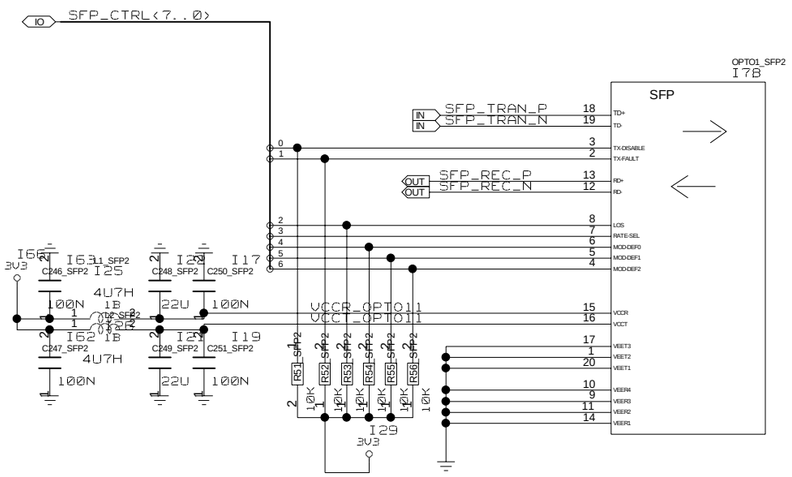

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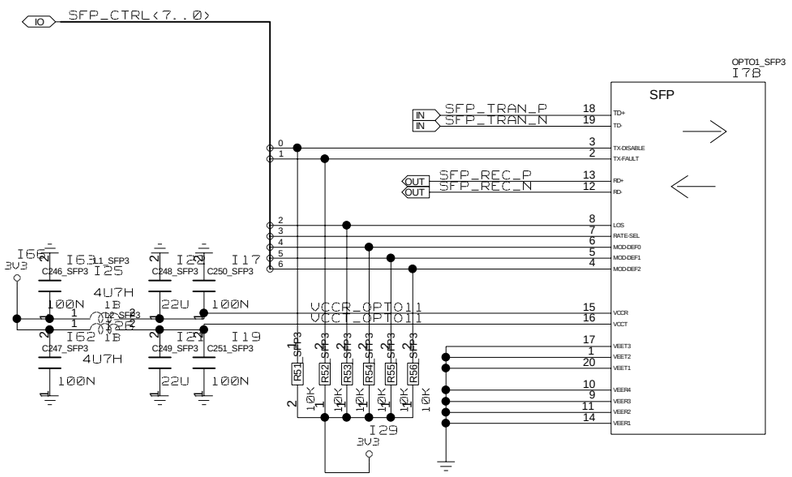

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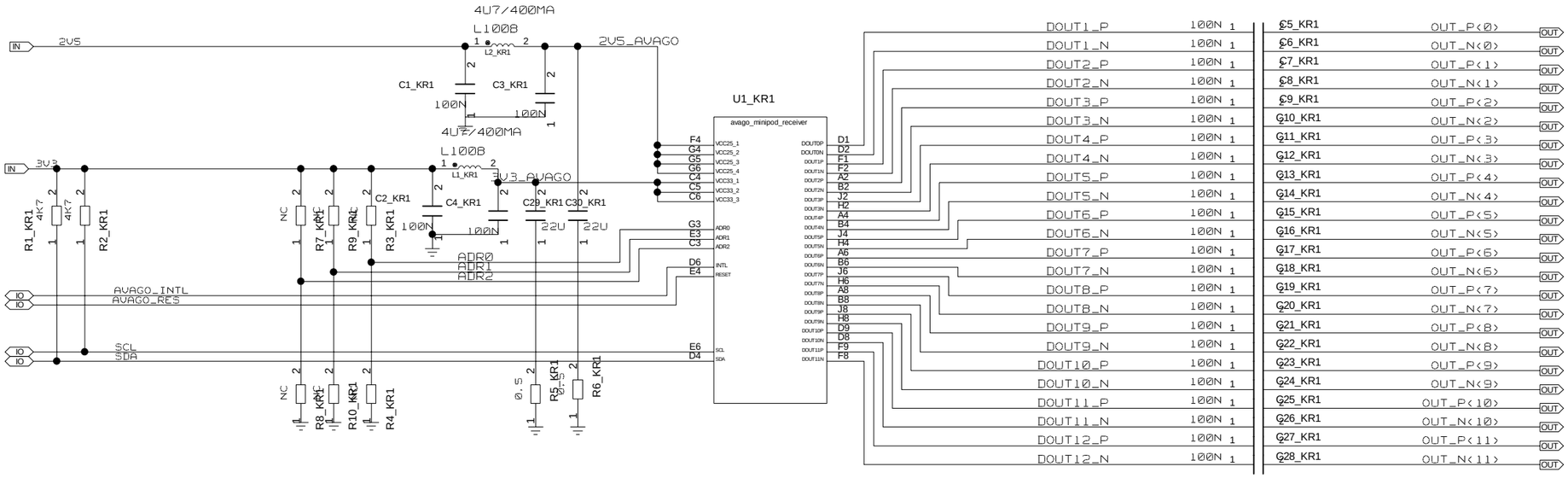

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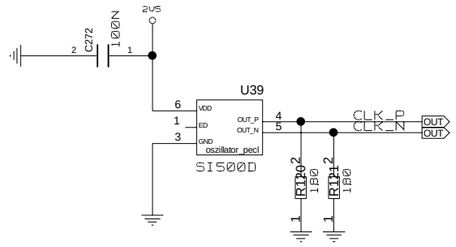

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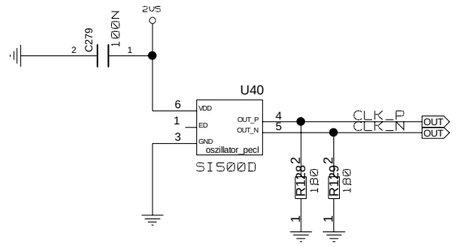

UNIVERSITY OF MAINZ	DRAWING TITLE: LVPECL_CLOCK		
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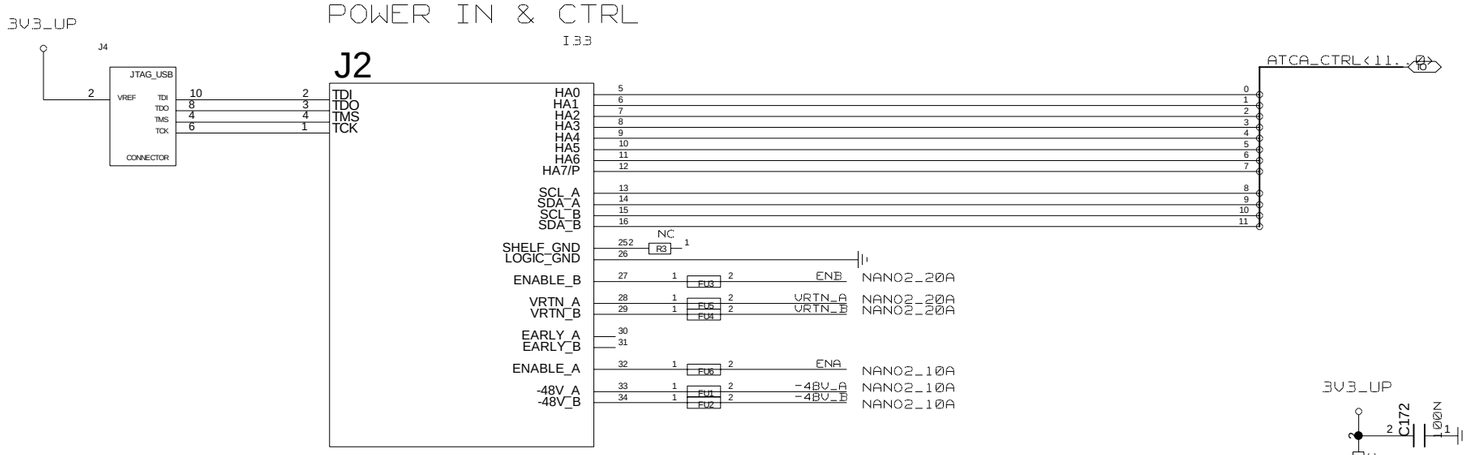

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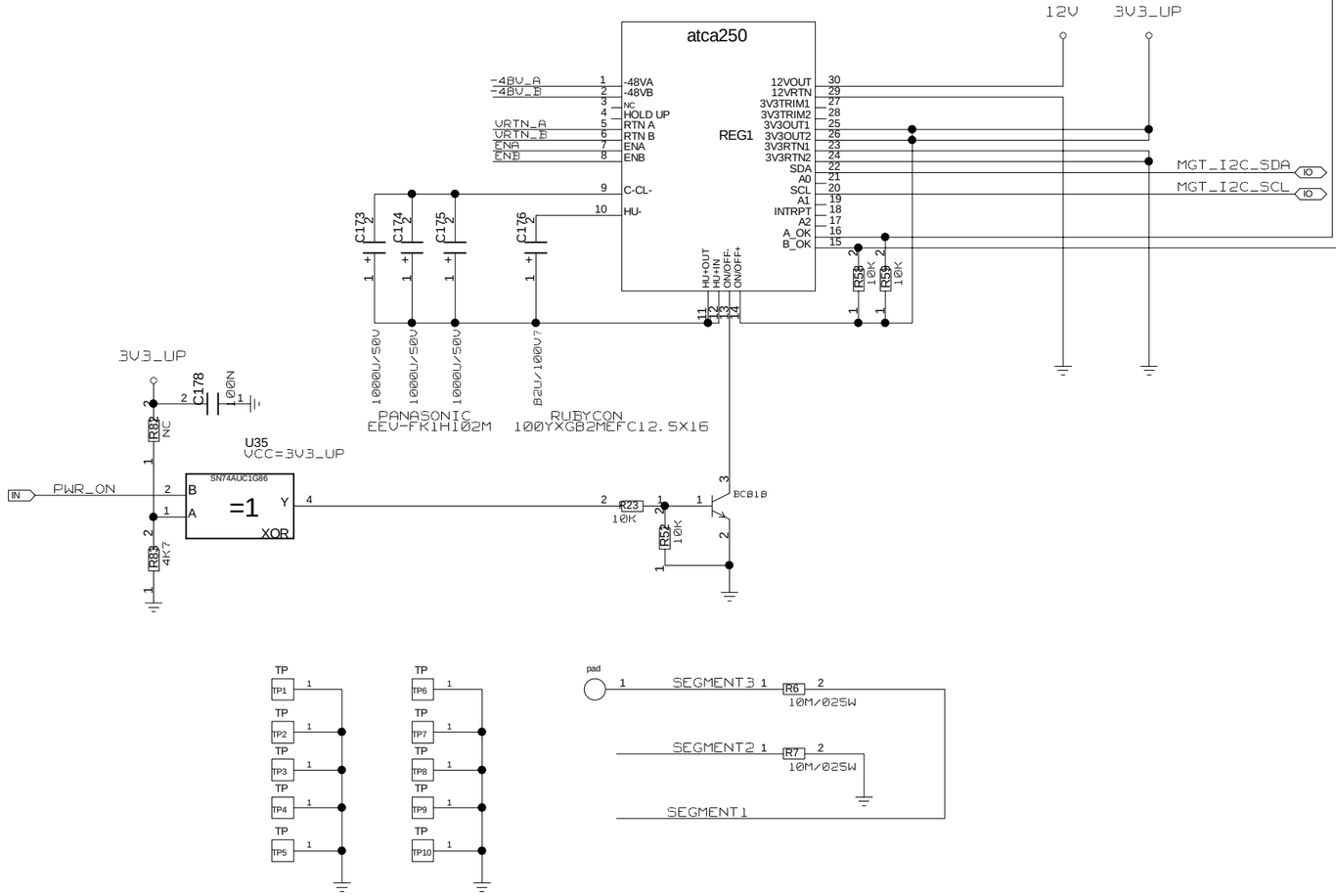

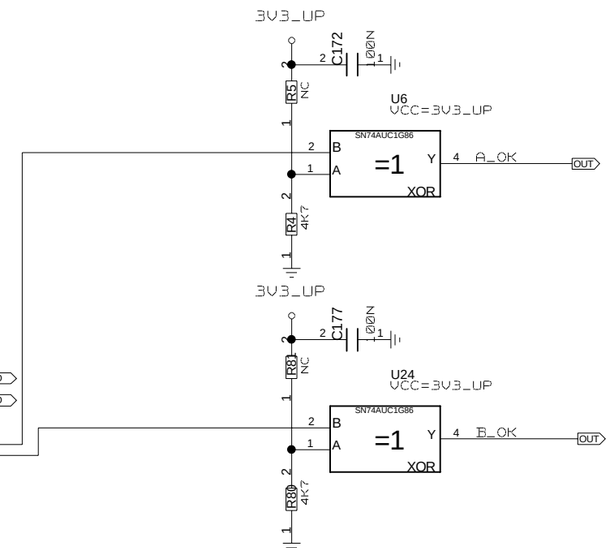

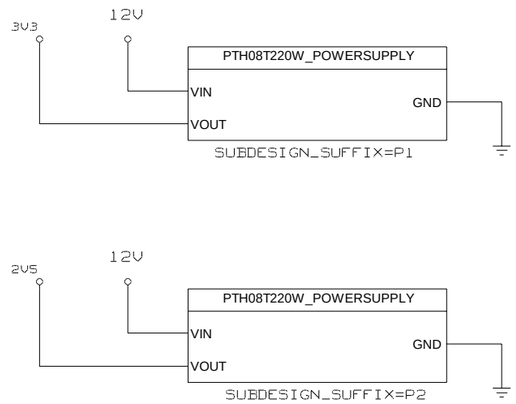

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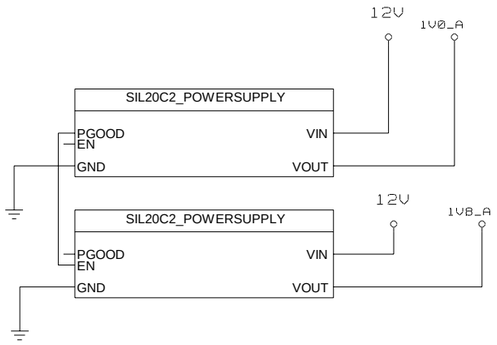

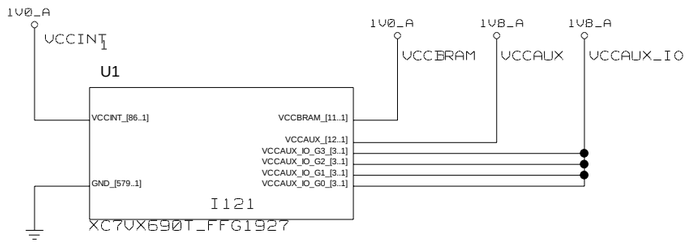

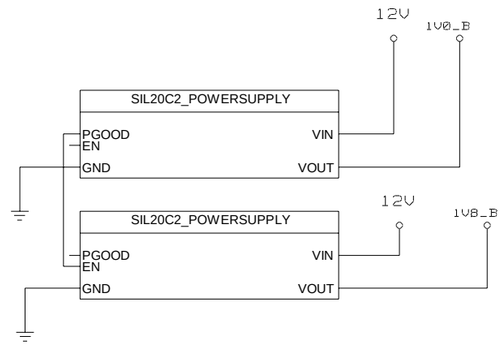

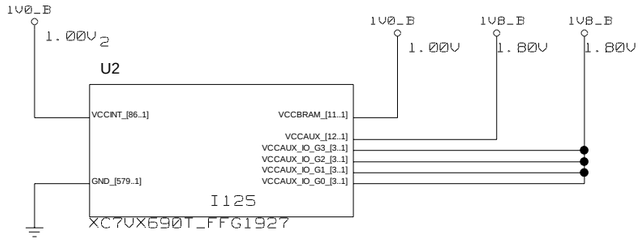

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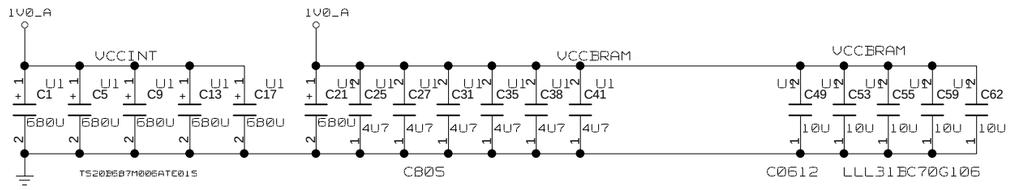

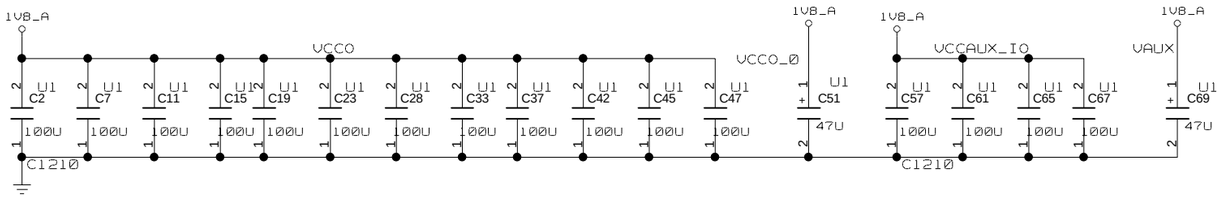

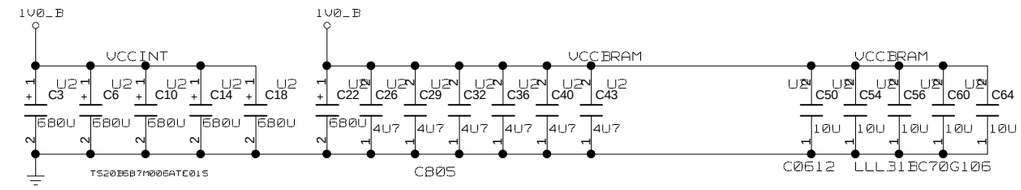

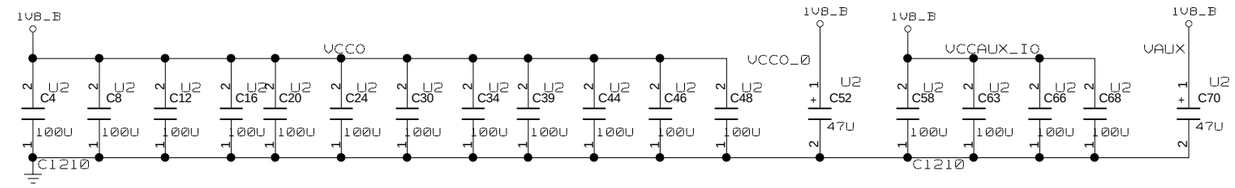

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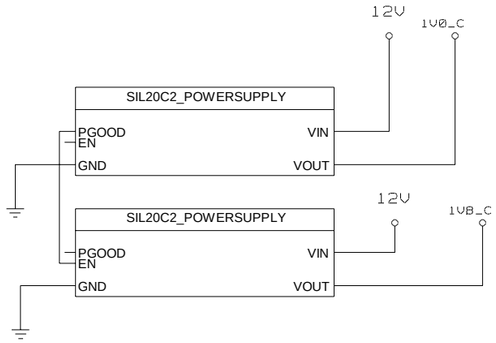

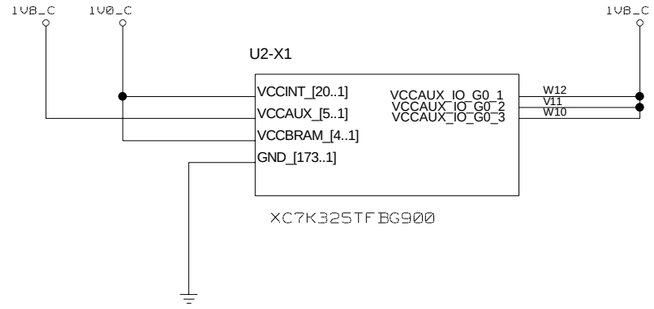

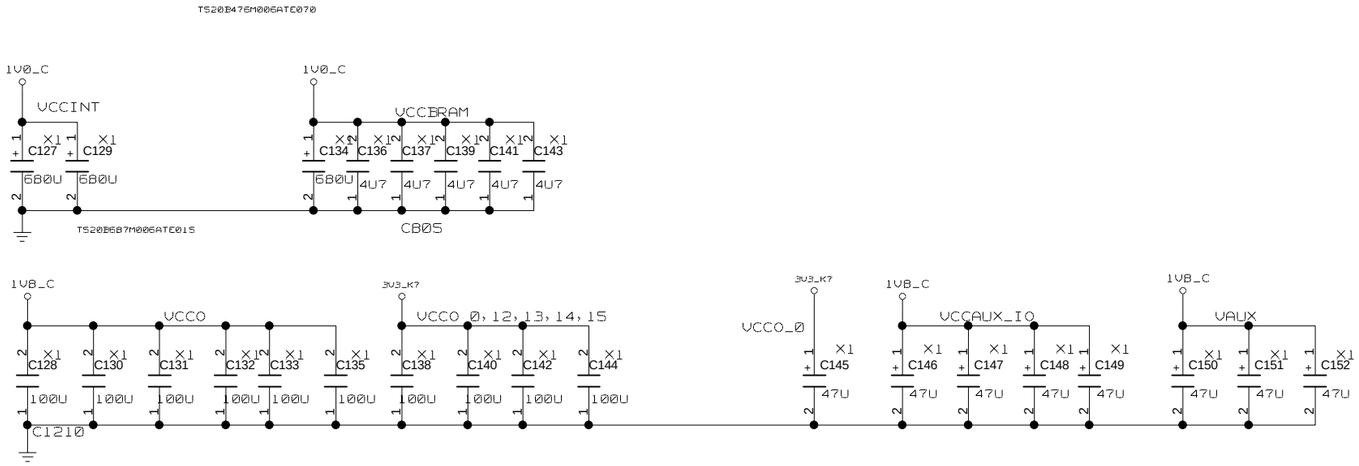

UNIVERSITY OF MAINZ	DRAWING TITLE: POWER KINTEX7	
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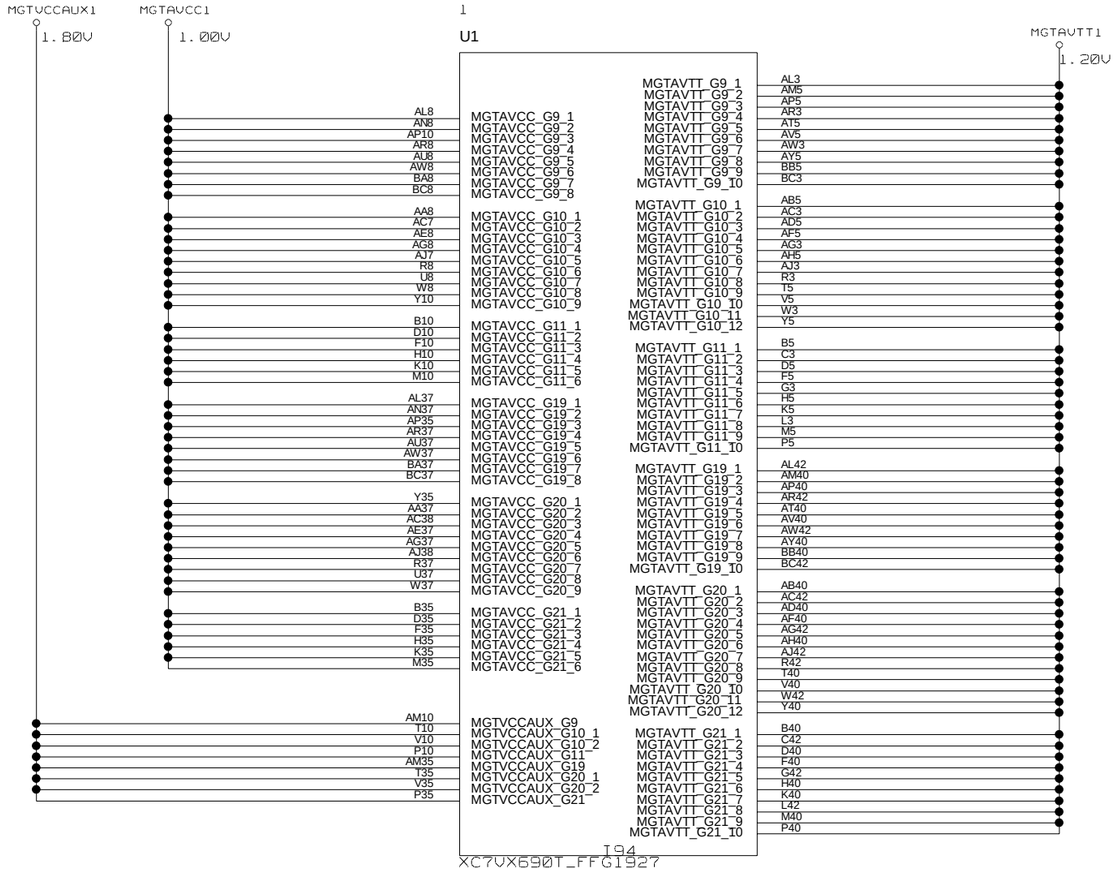

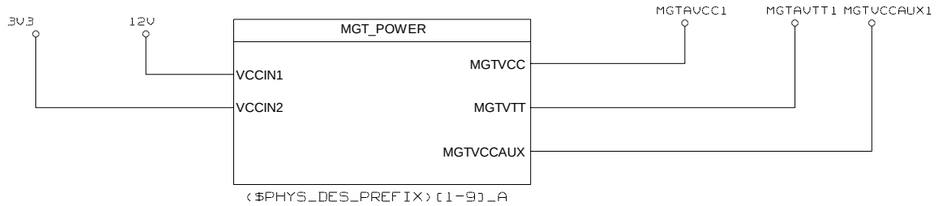

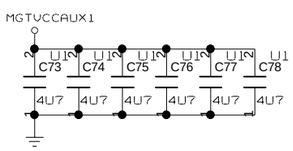

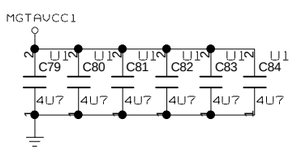

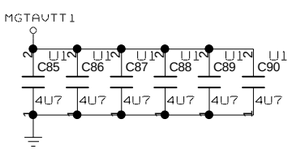

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DRAWING TITLE: VIRTEX7 MGT POWER

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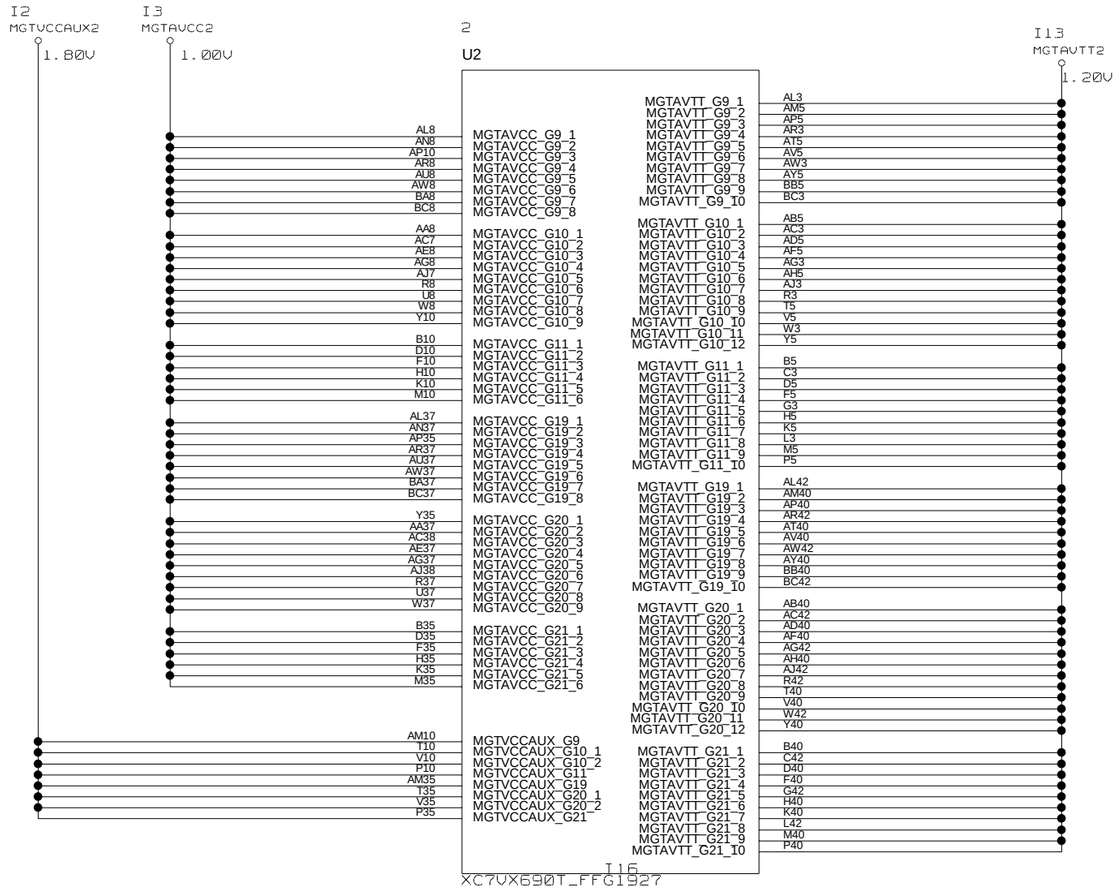

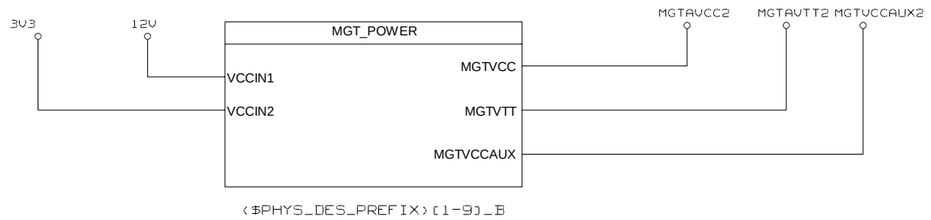

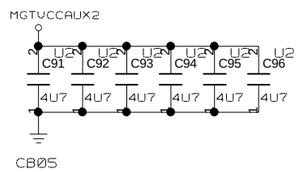

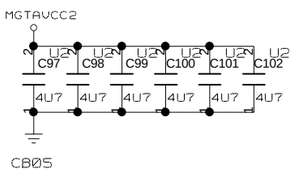

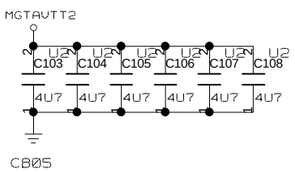

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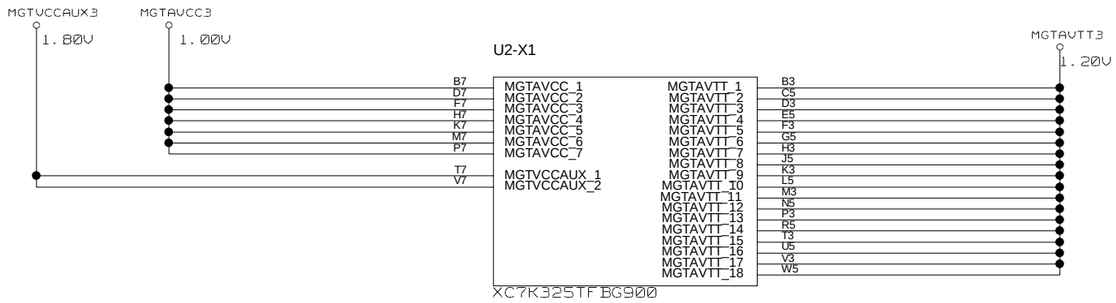

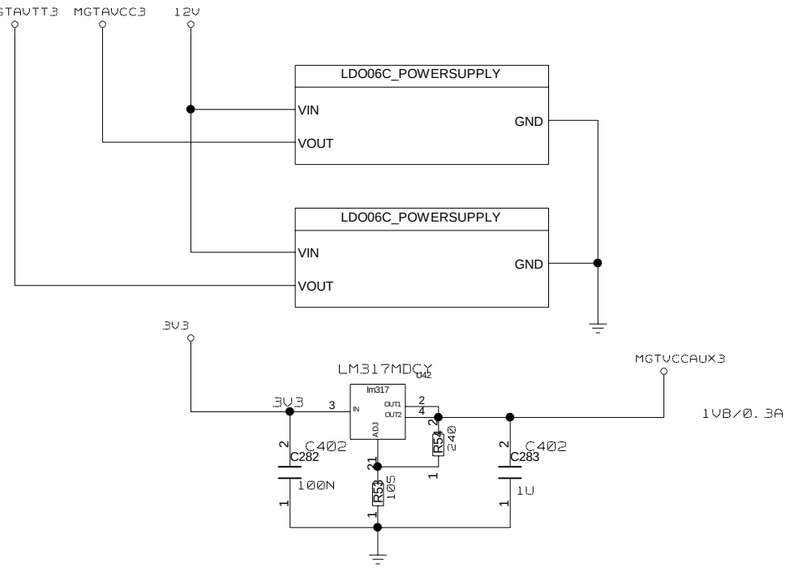

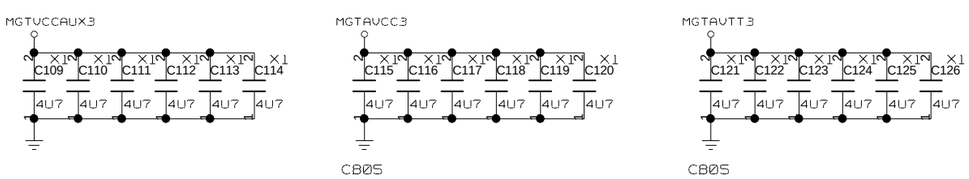

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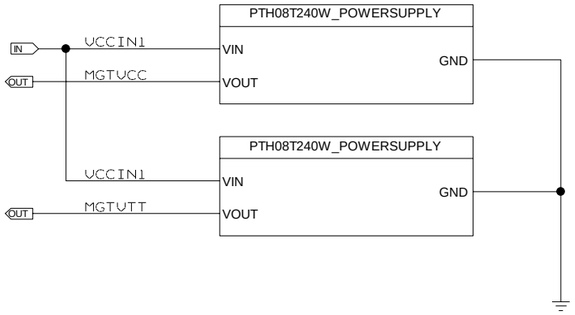

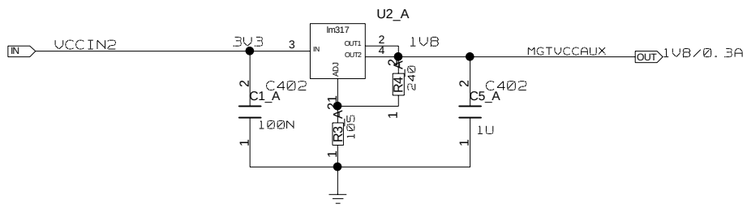

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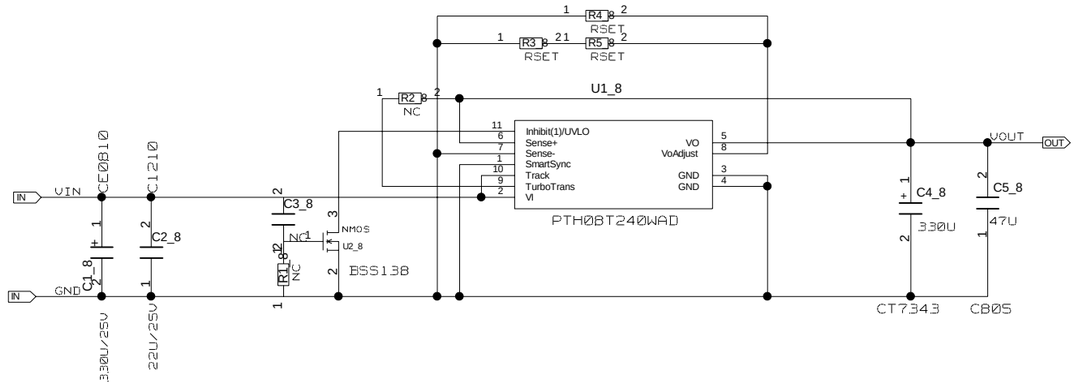

Table 2. Output Voltage Set-Point Resistor Values (Standard Values)

V_O Required (V)	R_{SET} (kΩ)	V_O Required (V)	R_{SET} (Ω)
0.70 (1)	681	2.50	2.37 k
0.75 (1)	113	2.60	2.15 k
0.80 (1)	61.9	2.70	2.00 k
0.85 (1)	41.2	2.80	1.82 k
0.90 (1)	31.6	2.90	1.69 k
0.95 (1)	24.9	3.00	1.54 k
1.00 (1)	20.5	3.10	1.43 k
1.05 (1)	17.8	3.20	1.33 k
1.10 (1)	15.4	3.30	1.21 k
1.15 (1)	13.3	3.40	1.10 k
1.20 (1)	12.1	3.50	1.02 k
1.25	10.7	3.60	931
1.30	9.88	3.70 (2)	866
1.35	9.09	3.80 (2)	787
1.40	8.25	3.90 (2)	715
1.45	7.68	4.00 (2)	649
1.50	6.98	4.10 (2)	590
1.55	6.49	4.20 (2)	536
1.60	6.04	4.30 (2)	475
1.65	5.76	4.40 (2)	432
1.70	5.36	4.50 (2)	383
1.75	5.11	4.60 (2)	332
1.80	4.75	4.70 (2)	287
1.85	4.53	4.80 (2)	249
1.90	4.22	4.90 (2)	210
1.95	4.02	5.00 (2)	169
2.00	3.83	5.10 (2)	133
2.10	3.40	5.20 (2)	100
2.20	3.09	5.30 (2)	66.5
2.30	2.67	5.40 (2)	34.8
2.40	2.61	5.50 (2)	4.99

(1) For output voltages ≤ 1.2V, at nominal operating frequency, the output ripple may increase (typically 2×) when operating at input voltages greater than (V_O × 11). When using the SmartSync feature, review the SmartSync application section for further guidance.
(2) For V_O > 3.6 V, the minimum input voltage is (V_O + 2) V.

UNIVERSITY OF MAINZ	DRAWING TITLE: PTH08T240W_POWERSUPPLY	
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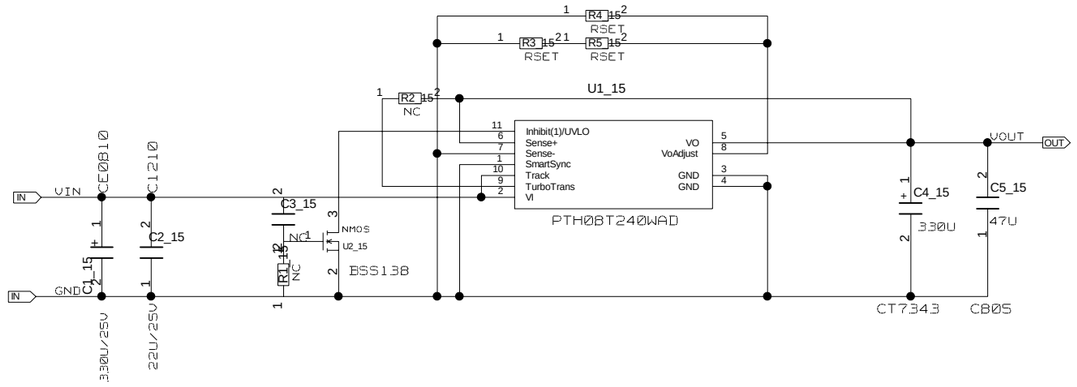

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1.60	6.04	4.30 (2)	475
1.65	5.76	4.40 (2)	432
1.70	5.36	4.50 (2)	383
1.75	5.11	4.60 (2)	332
1.80	4.75	4.70 (2)	287
1.85	4.53	4.80 (2)	249
1.90	4.22	4.90 (2)	210
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(1) For output voltages ≤ 1.2V, at nominal operating frequency, the output ripple may increase (typically 2×) when operating at input voltages greater than (V_O × 11). When using the SmartSync feature, review the SmartSync application section for further guidance.
(2) For V_O > 3.6 V, the minimum input voltage is (V_O + 2) V.

UNIVERSITY OF MAINZ	DRAWING TITLE: PTH08T240W_POWERSUPPLY	
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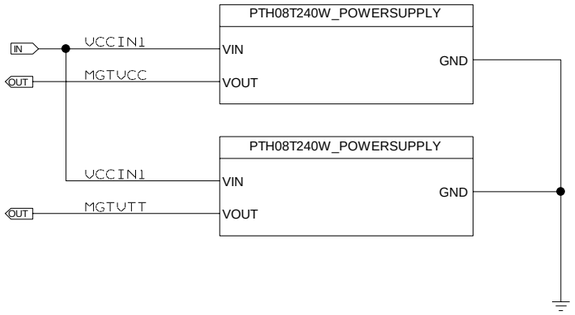

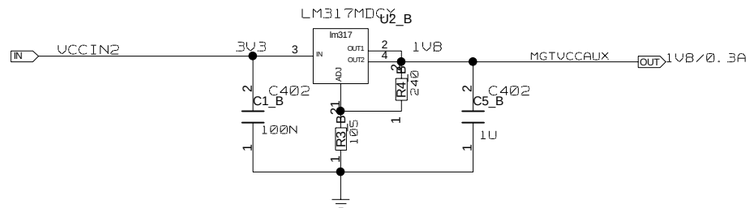

UNIVERSITY OF MAINZ		DRAWING TITLE: MGT POWER	
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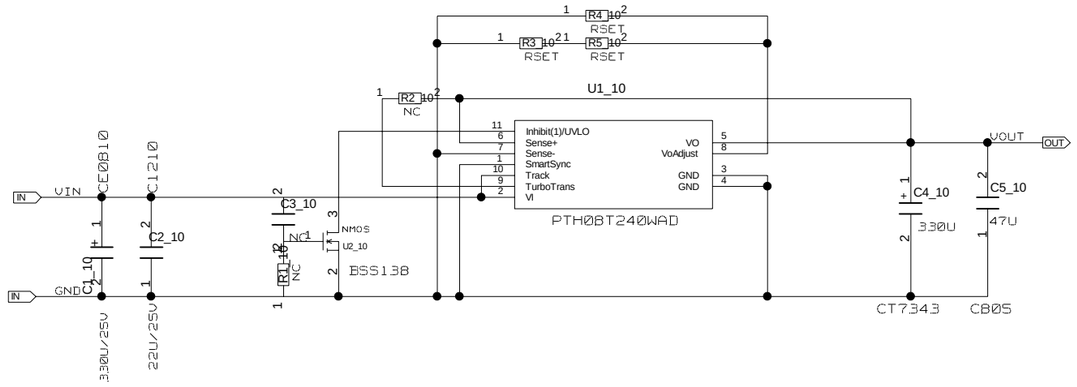

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0.70 (1)	681	2.50	2.37 k
0.75 (1)	113	2.60	2.15 k
0.80 (1)	61.9	2.70	2.00 k
0.85 (1)	41.2	2.80	1.82 k
0.90 (1)	31.6	2.90	1.69 k
0.95 (1)	24.9	3.00	1.54 k
1.00 (1)	20.5	3.10	1.43 k
1.05 (1)	17.8	3.20	1.33 k
1.10 (1)	15.4	3.30	1.21 k
1.15 (1)	13.3	3.40	1.10 k
1.20 (1)	12.1	3.50	1.02 k
1.25	10.7	3.60	931
1.30	9.88	3.70 (2)	866
1.35	9.09	3.80 (2)	787
1.40	8.25	3.90 (2)	715
1.45	7.68	4.00 (2)	649
1.50	6.98	4.10 (2)	590
1.55	6.49	4.20 (2)	536
1.60	6.04	4.30 (2)	475
1.65	5.76	4.40 (2)	432
1.70	5.36	4.50 (2)	383
1.75	5.11	4.60 (2)	332
1.80	4.75	4.70 (2)	287
1.85	4.53	4.80 (2)	249
1.90	4.22	4.90 (2)	210
1.95	4.02	5.00 (2)	169
2.00	3.83	5.10 (2)	133
2.10	3.40	5.20 (2)	100
2.20	3.09	5.30 (2)	66.5
2.30	2.67	5.40 (2)	34.8
2.40	2.61	5.50 (2)	4.99

(1) For output voltages ≤ 1.2V, at nominal operating frequency, the output ripple may increase (typically 2×) when operating at input voltages greater than (V_O × 11). When using the SmartSync feature, review the SmartSync application section for further guidance.
(2) For V_O > 3.6 V, the minimum input voltage is (V_O + 2) V.

UNIVERSITY OF MAINZ	DRAWING TITLE: PTH08T240W_POWERSUPPLY	
	SIZE: C	REV. / DRAWING NO.
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

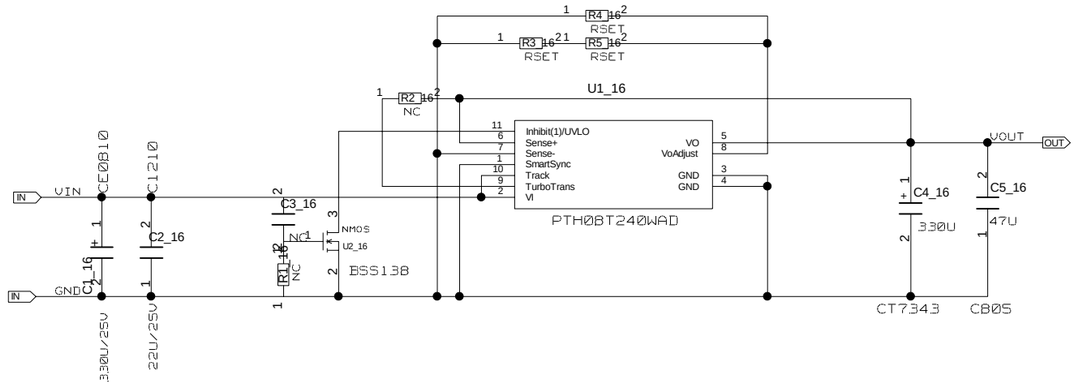

Table 2. Output Voltage Set-Point Resistor Values (Standard Values)

V_O Required (V)	R_{SET} (kΩ)	V_O Required (V)	R_{SET} (Ω)
0.70 (1)	681	2.50	2.37 k
0.75 (1)	113	2.60	2.15 k
0.80 (1)	61.9	2.70	2.00 k
0.85 (1)	41.2	2.80	1.82 k
0.90 (1)	31.6	2.90	1.69 k
0.95 (1)	24.9	3.00	1.54 k
1.00 (1)	20.5	3.10	1.43 k
1.05 (1)	17.8	3.20	1.33 k
1.10 (1)	15.4	3.30	1.21 k
1.15 (1)	13.3	3.40	1.10 k
1.20 (1)	12.1	3.50	1.02 k
1.25	10.7	3.60	931
1.30	9.88	3.70 (2)	866
1.35	9.09	3.80 (2)	787
1.40	8.25	3.90 (2)	715
1.45	7.68	4.00 (2)	649
1.50	6.98	4.10 (2)	590
1.55	6.49	4.20 (2)	536
1.60	6.04	4.30 (2)	475
1.65	5.76	4.40 (2)	432
1.70	5.36	4.50 (2)	383
1.75	5.11	4.60 (2)	332
1.80	4.75	4.70 (2)	287
1.85	4.53	4.80 (2)	249
1.90	4.22	4.90 (2)	210
1.95	4.02	5.00 (2)	169
2.00	3.83	5.10 (2)	133
2.10	3.40	5.20 (2)	100
2.20	3.09	5.30 (2)	66.5
2.30	2.67	5.40 (2)	34.8
2.40	2.61	5.50 (2)	4.99

(1) For output voltages ≤ 1.2V, at nominal operating frequency, the output ripple may increase (typically 2×) when operating at input voltages greater than (V_O × 11). When using the SmartSync feature, review the SmartSync application section for further guidance.
(2) For V_O > 3.6 V, the minimum input voltage is (V_O + 2) V.

UNIVERSITY OF MAINZ	DRAWING TITLE: PTH08T240W_POWERSUPPLY	
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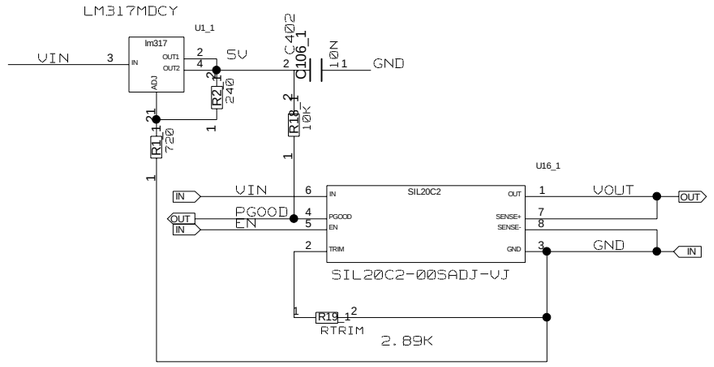
ZONE	LTR	DESCRIPTION	DATE	APPR.

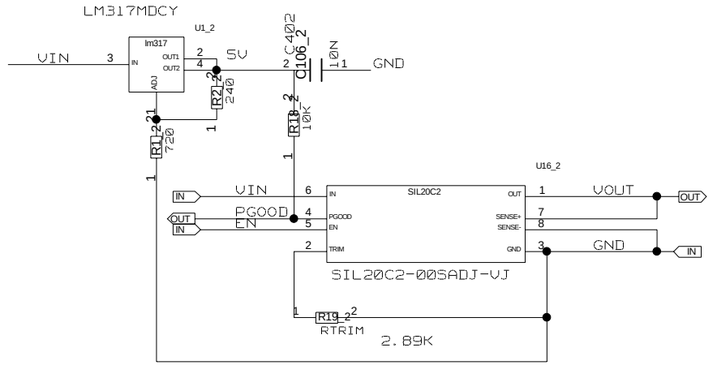


The resistor trim equation for the SIL20C2 is as follows:

$$\text{Rtrim } (k\Omega) = \frac{1.182}{(\text{Vout} - 0.591)}$$

UNIVERSITY OF MAINZ		DRAWING TITLE	SIL20C2_POWERSUPPLY
		SIZE C	REV.
		DRAWING NO.	
		SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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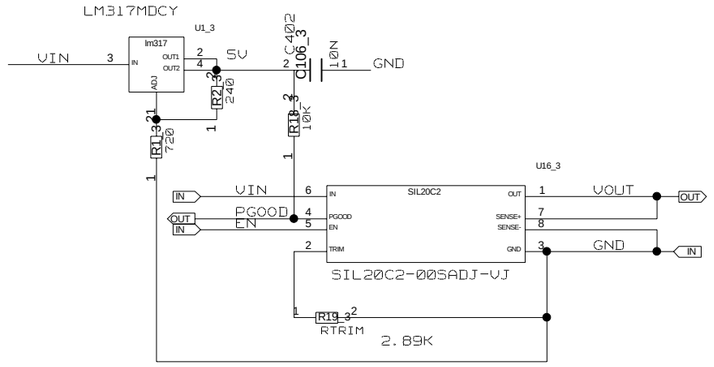
$$\text{Rtrim } (k\Omega) = \frac{1.182}{(\text{Vout} - 0.591)}$$

UNIVERSITY OF MAINZ		DRAWING TITLE	SIL20C2_POWERSUPPLY
		SIZE C	REV.
		SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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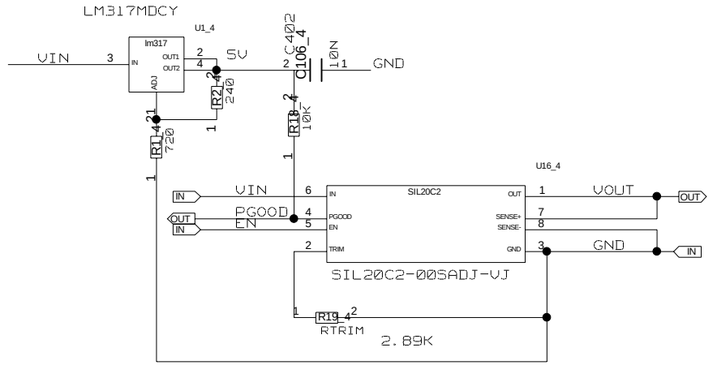
UNIVERSITY OF MAINZ	DRAWING TITLE: SIL20C2_POWERSUPPLY	
	SIZE: C	REV. / DRAWING NO.
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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UNIVERSITY OF MAINZ	DRAWING TITLE: SIL20C2_POWERSUPPLY	
	SIZE: C	REV. / DRAWING NO.
	SCALE	SHEET OF

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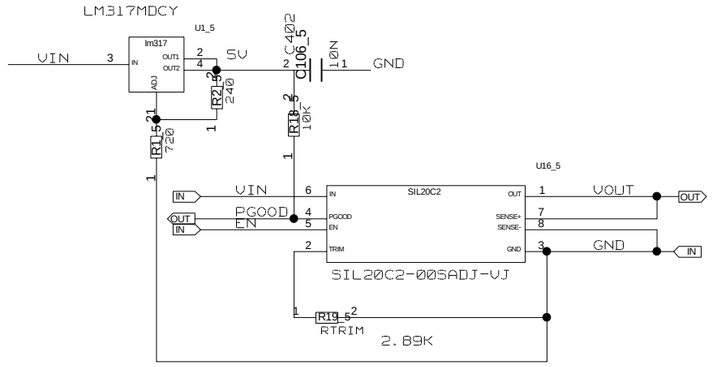
ZONE	LTR	DESCRIPTION	DATE	APPR.



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UNIVERSITY OF MAINZ	DRAWING TITLE: SIL20C2_POWERSUPPLY	
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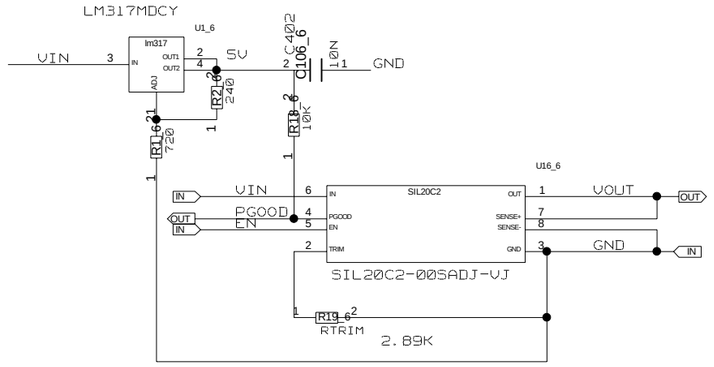
ZONE	LTR	DESCRIPTION	DATE	APPR.



The resistor trim equation for the SIL20C2 is as follows:

$$\text{Rtrim } (k\Omega) = \frac{1.182}{(\text{Vout} - 0.591)}$$

UNIVERSITY OF MAINZ	DRAWING TITLE: SIL20C2_POWERSUPPLY	
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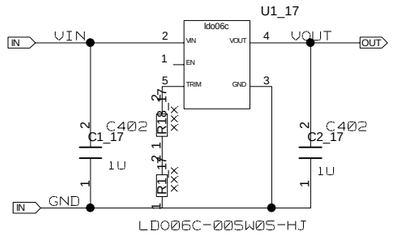
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE		
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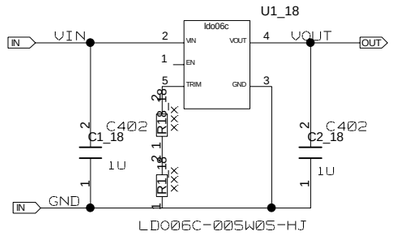
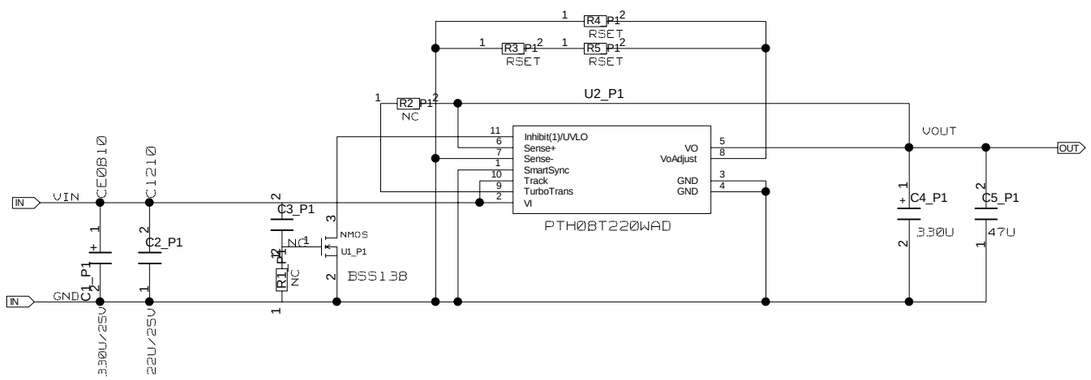
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE	LD006C_POWERSUPPLY	
	SIZE C	REV.	DRAWING NO.
	SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



$$R_{SET} = 10\ k\Omega \times \frac{0.69}{V_O - 0.69} - 1.43\ k\Omega$$

Table 1. Standard Values of R_{SET} for Standard Output Voltages

V_O (Standard)	R_{SET} (Standard Value)	V_O (Actual)
5.0 V (1)	169 Ω	5.005 V
3.3 V	1.21 kΩ	3.304 V
2.5 V	2.37 kΩ	2.506 V
1.8 V	4.75 kΩ	1.807 V
1.5 V	6.98 kΩ	1.510 V
1.2 V (2)	12.1 kΩ	1.200 V
1.0 V (2)	20.5 kΩ	1.004 V
0.7 V (2)	681 kΩ	0.700 V

UNIVERSITY OF MAINZ	DRAWING TITLE: PTH08T220W_POWER SUPPLY	
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	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

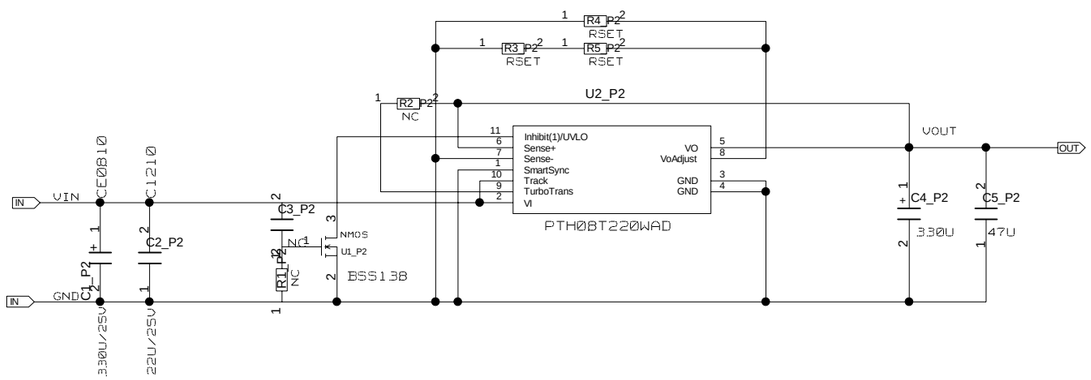

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Table 1. Standard Values of R_{SET} for Standard Output Voltages

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1.0 V (2)	20.5 kΩ	1.004 V
0.7 V (2)	681 kΩ	0.700 V

UNIVERSITY OF MAINZ	DRAWING TITLE: PTH08T220W_POWER SUPPLY	
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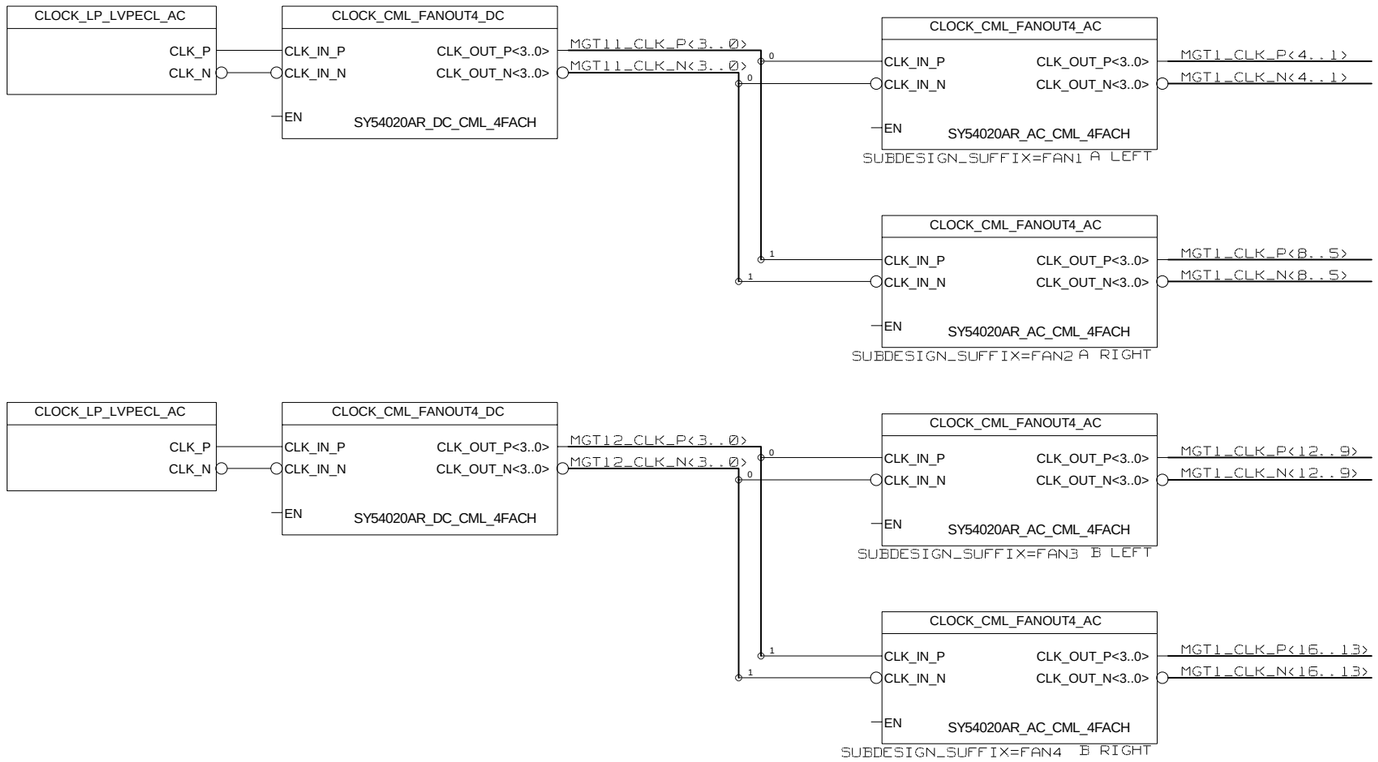
ZONE	LTR	DESCRIPTION	DATE	APPR.



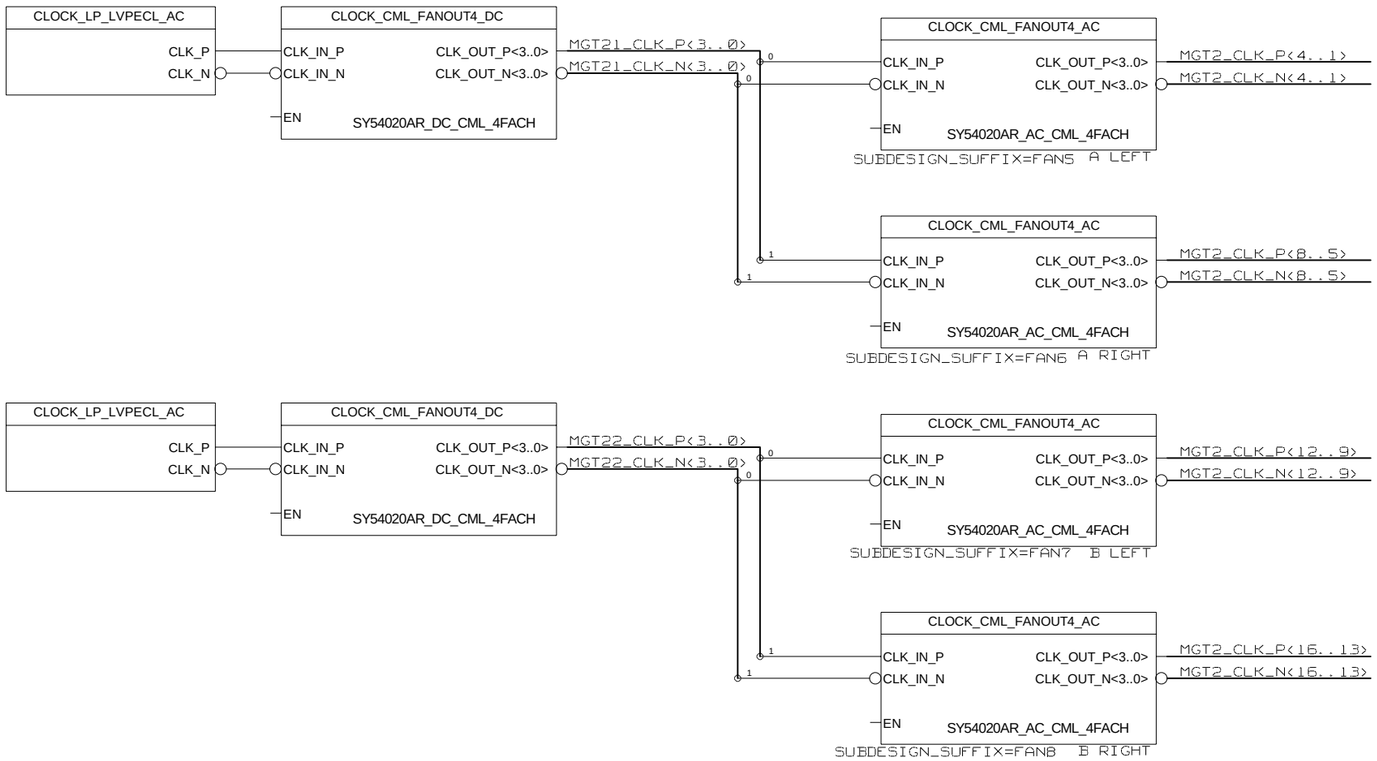
MGT1_CLK_P<15..1> OUT

MGT1_CLK_N<15..1> OUT

MGT1 CLOCK

UNIVERSITY OF MAINZ		DRAWING TITLE: MGT1 CLOCK CML	
BLOCK: CLOCK		SIZE C	REV. / DRAWING NO.
		SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



MGT2_CLK_P<16..1> OUT

MGT2_CLK_N<16..1> OUT

MGT2 CLOCK

UNIVERSITY OF MAINZ		DRAWING TITLE: MGT2 CLOCK CML	
BLOCK: CLOCK		SIZE C	REV. / DRAWING NO.
		SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

U10 MMCX
U11 MMCX
U12 MMCX
U13 MMCX

TO EXTENSION MODUL
TTC_IN_P
TTC_IN_N

TTC
IN_P
IN_N
TTC_CTRL<56..0>
TTC_CLK_P<0>
TTC_CLK_N<0>
TTC_CLK_P<3..1>
TTC_CLK_N<3..1>

TTC_CTRL<56..0>

JITTERCLEANER_SI5326
DIFF1_P
DIFF1_N
DIFF2_P
DIFF2_N
CTRL<15..0>
DIFF1OUT_P
DIFF1OUT_N
DIFF2OUT_P
DIFF2OUT_N

JC1_CTRL<15..0>

TTC_CLK_P<3..1>
TTC_CLK_N<3..1>

CLOCK_CML_FANOUT6_DC
CLK1_IN_P
CLK1_IN_N
CLK2_IN_P
CLK2_IN_N
SEL
SY58034U_DC_CML
CLK_OUT_P<5..0>
CLK_OUT_N<5..0>

MGT3_FAN_P<5..0>
MGT3_FAN_N<5..0>

TTC_CLK_P<2>
TTC_CLK_N<2>
JT_SPARE_P<1..0>
JT_SPARE_N<1..0>

MGT3_FAN_P<5..0>
MGT3_FAN_N<5..0>

CLOCK_CML_FANOUT4_AC
CLK_IN_P
CLK_IN_N
EN
SY54020AR_AC_CML_4FACH
CLK_OUT_P<3..0>
CLK_OUT_N<3..0>

SUBDESIGN_SUFFIX=FAN9 U1 LEFT
MGT3_CLK_P<4..1>
MGT3_CLK_N<4..1>

SUBDESIGN_SUFFIX=FAN10 U1 RIGHT
MGT3_CLK_P<8..5>
MGT3_CLK_N<8..5>

SUBDESIGN_SUFFIX=FAN11 U2 LEFT
MGT3_CLK_P<12..9>
MGT3_CLK_N<12..9>

SUBDESIGN_SUFFIX=FAN12 U2 RIGHT
MGT3_CLK_P<16..13>
MGT3_CLK_N<16..13>

SUBDESIGN_SUFFIX=FAN13 KINTEX
MGT3_CLK_P<20..17>
MGT3_CLK_N<20..17>

MGT3_CLK_P<20..1>
MGT3_CLK_N<20..1>
MGT3 CLOCK

U8 180 MMCX
TTC_CLK_P<3>
U9 180 MMCX
TTC_CLK_N<3>

UNIVERSITY OF MAINZ		DRAWING TITLE: MGT3 CLOCK CML	
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		SCALE	SHEET OF

REVISIONS				
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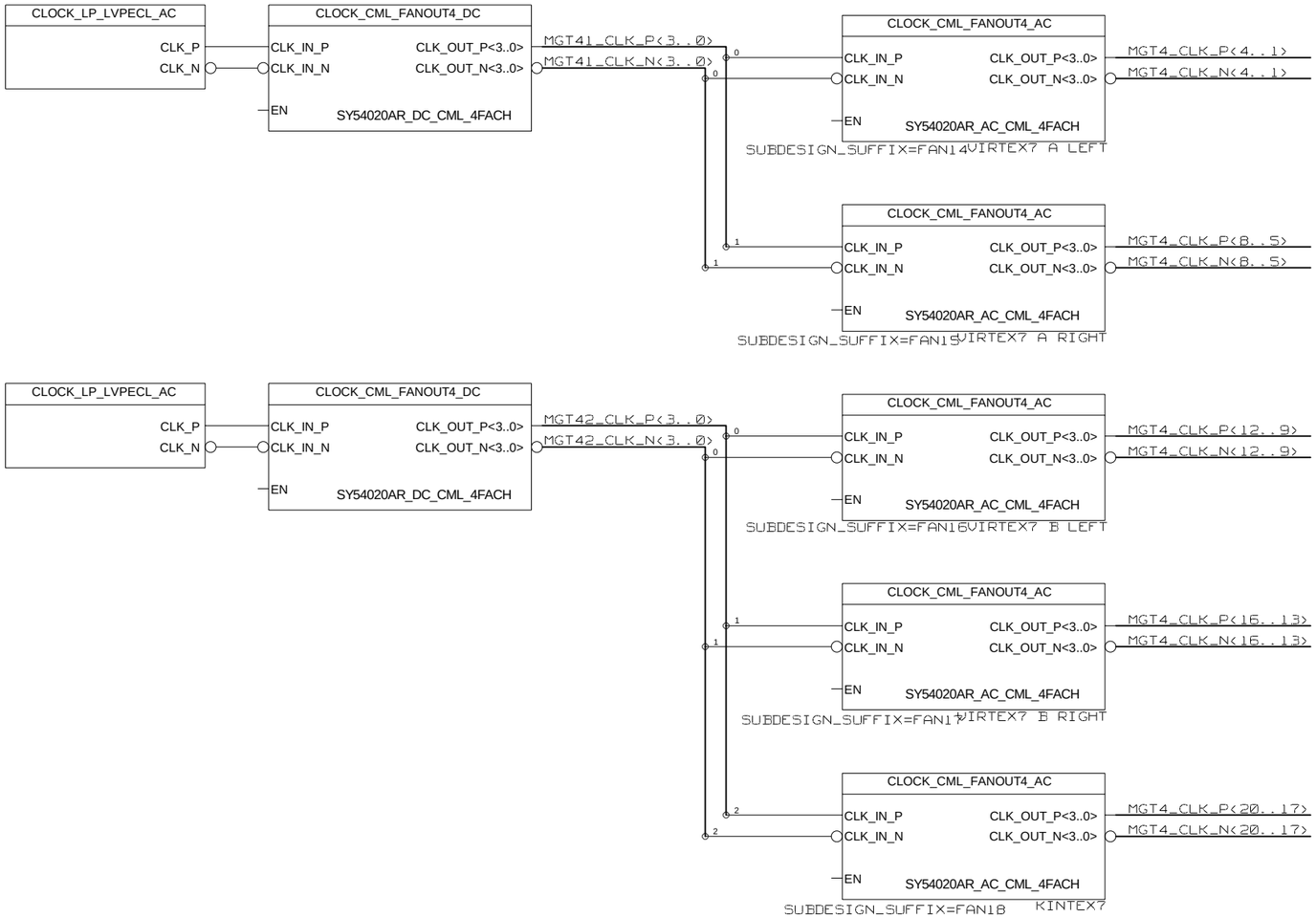

MGT4_CLK_P<20..1> OUT

MGT4_CLK_N<20..1> OUT

MGT4 CLOCK

UNIVERSITY OF MAINZ		DRAWING TITLE: MGT4 CLOCK CML	
BLOCK: CLOCK		SIZE: C	REV. / DRAWING NO.
		SCALE	SHEET OF

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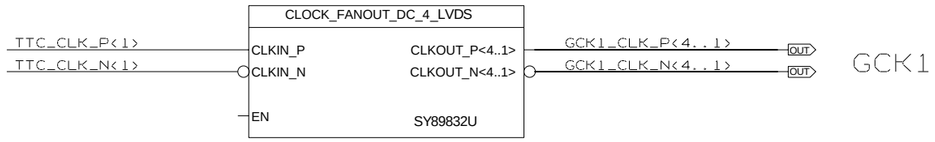
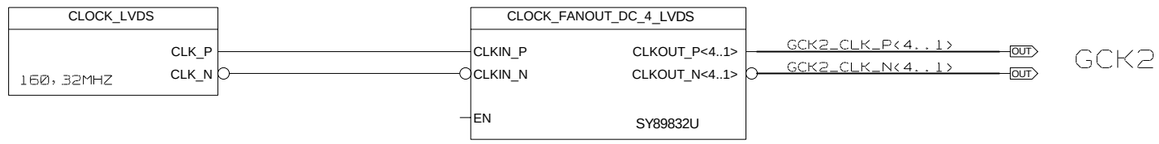
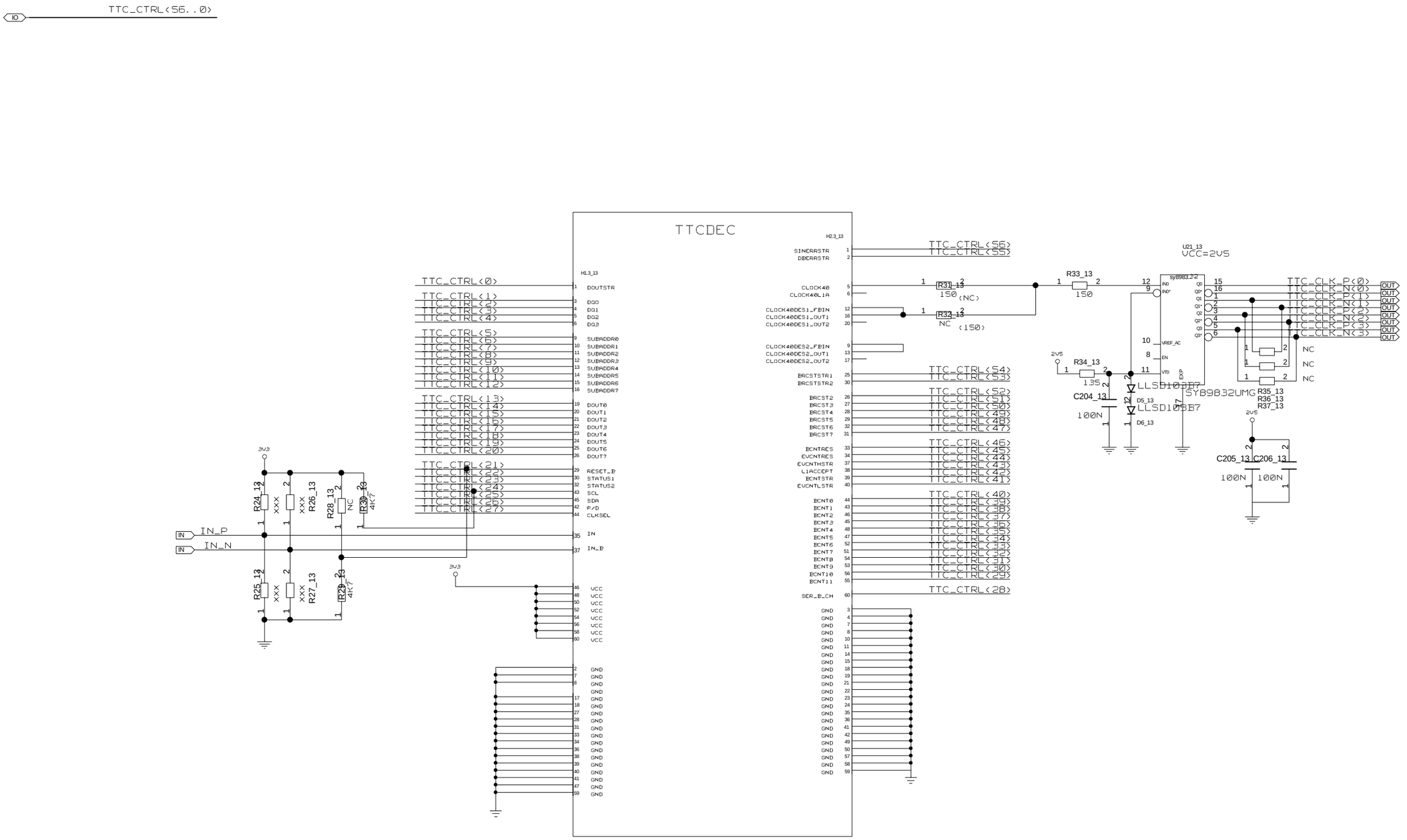




UNIVERSITY OF MAINZ	DRAWING TITLE: GCK1+2 CLOCK LVDS	
BLOCK: CLOCK	SIZE: C	REV. / DRAWING NO.
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: TTC		
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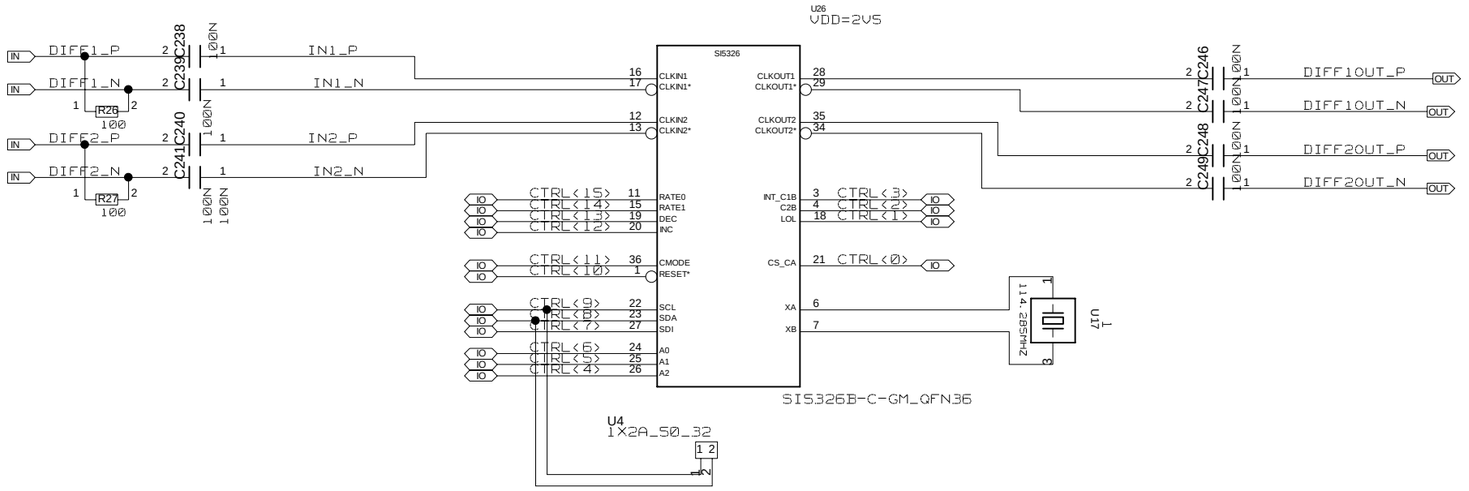
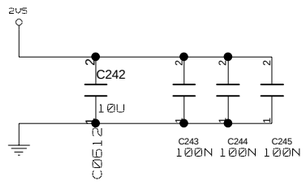
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.





UNIVERSITY OF MAINZ	DRAWING TITLE: JITTERCLEANER_SI5326	
	SIZE: C	REV. / DRAWING NO.
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REVISIONS				
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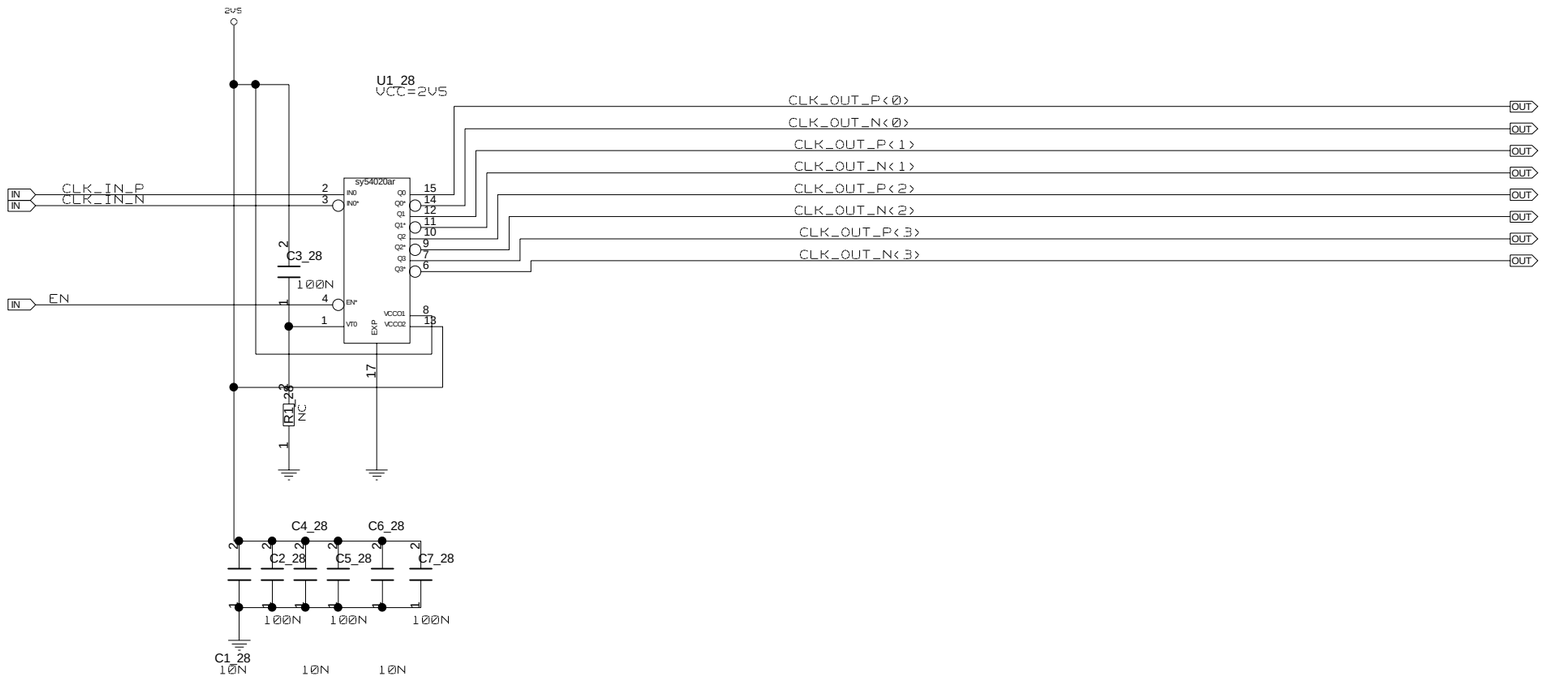

UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_DC		
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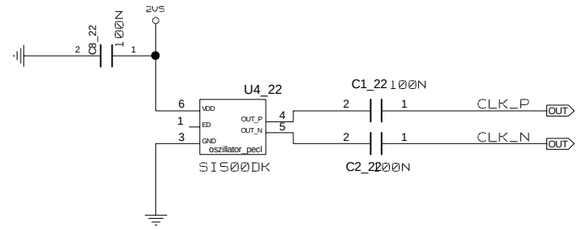

UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_LP_LVPECL_AC		
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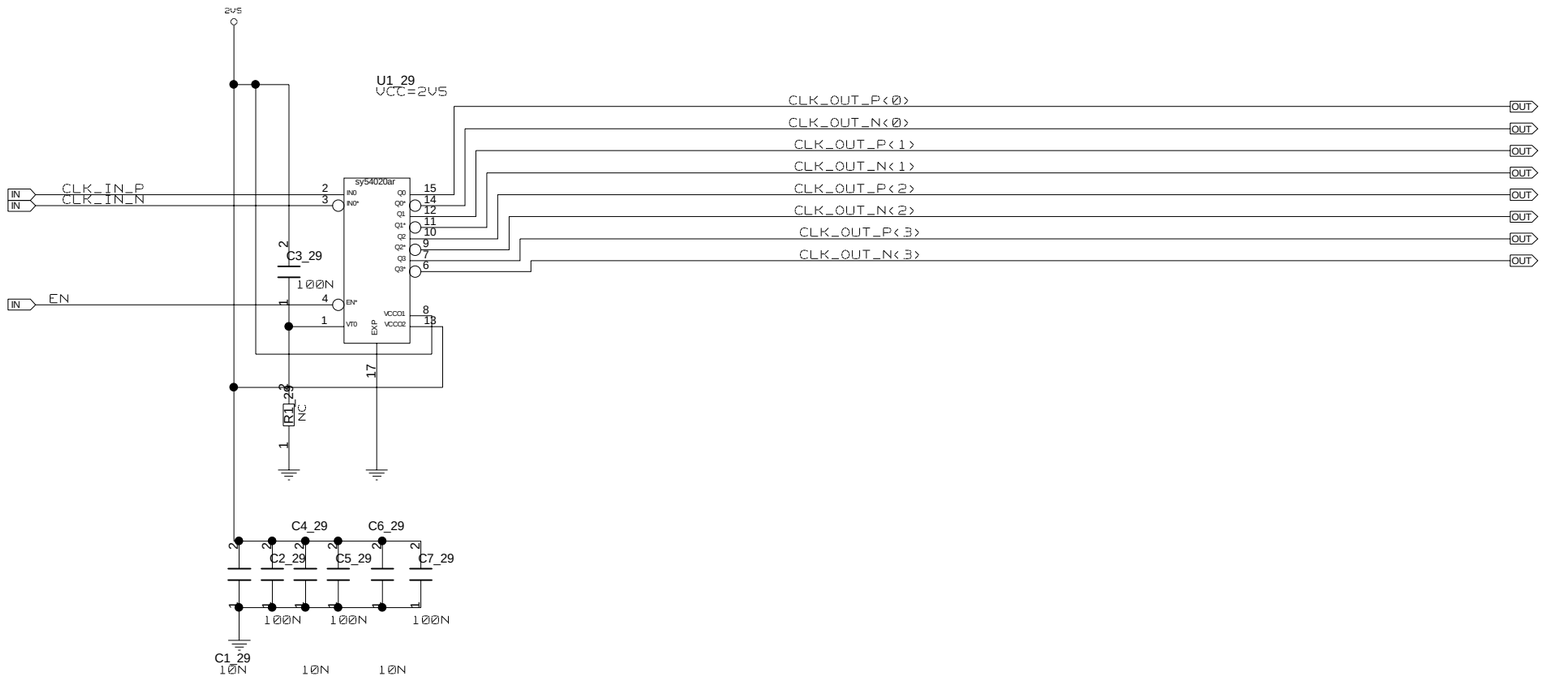
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_DC		
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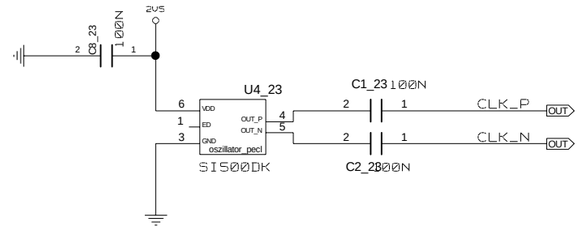

UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_LP_LVPECL_AC	
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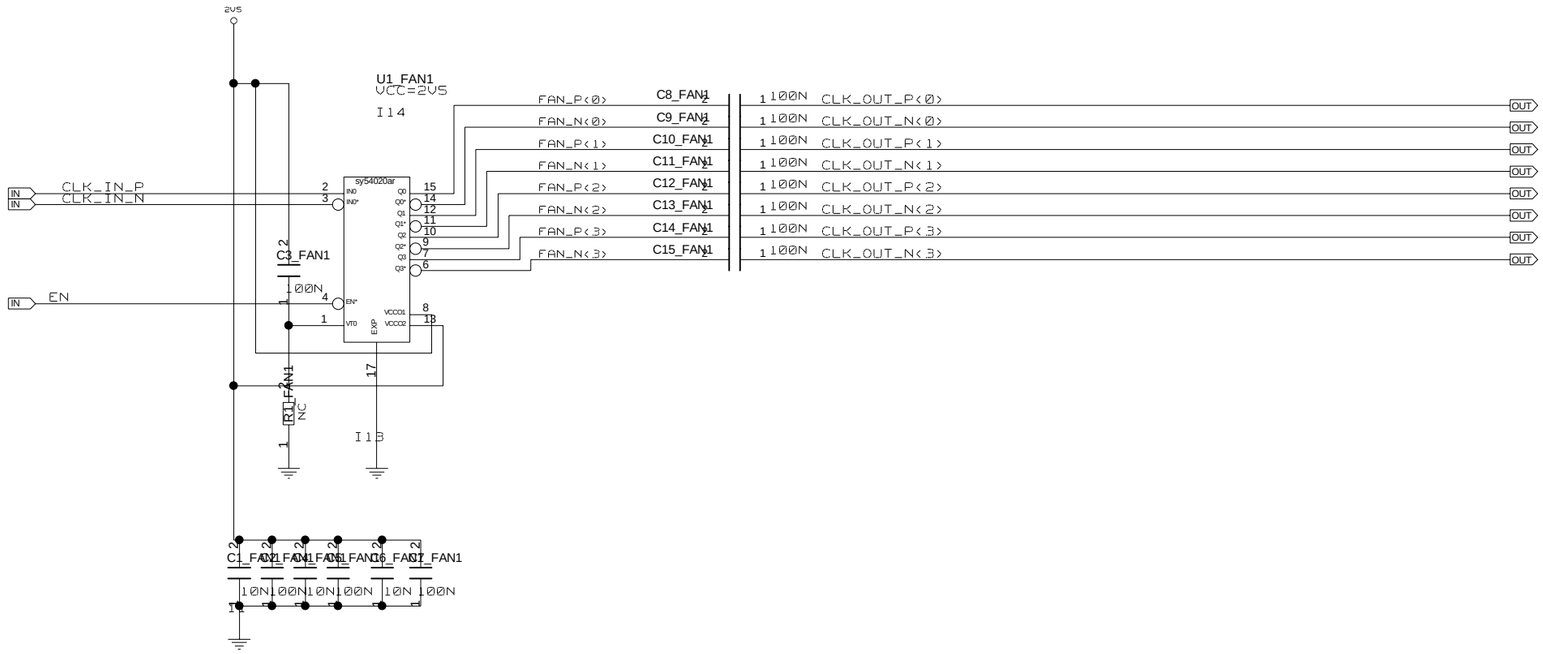

UNIVERSITY OF MAINZ	DRAWING TITLE	CLOCK_CML_FANOUT4_AC	
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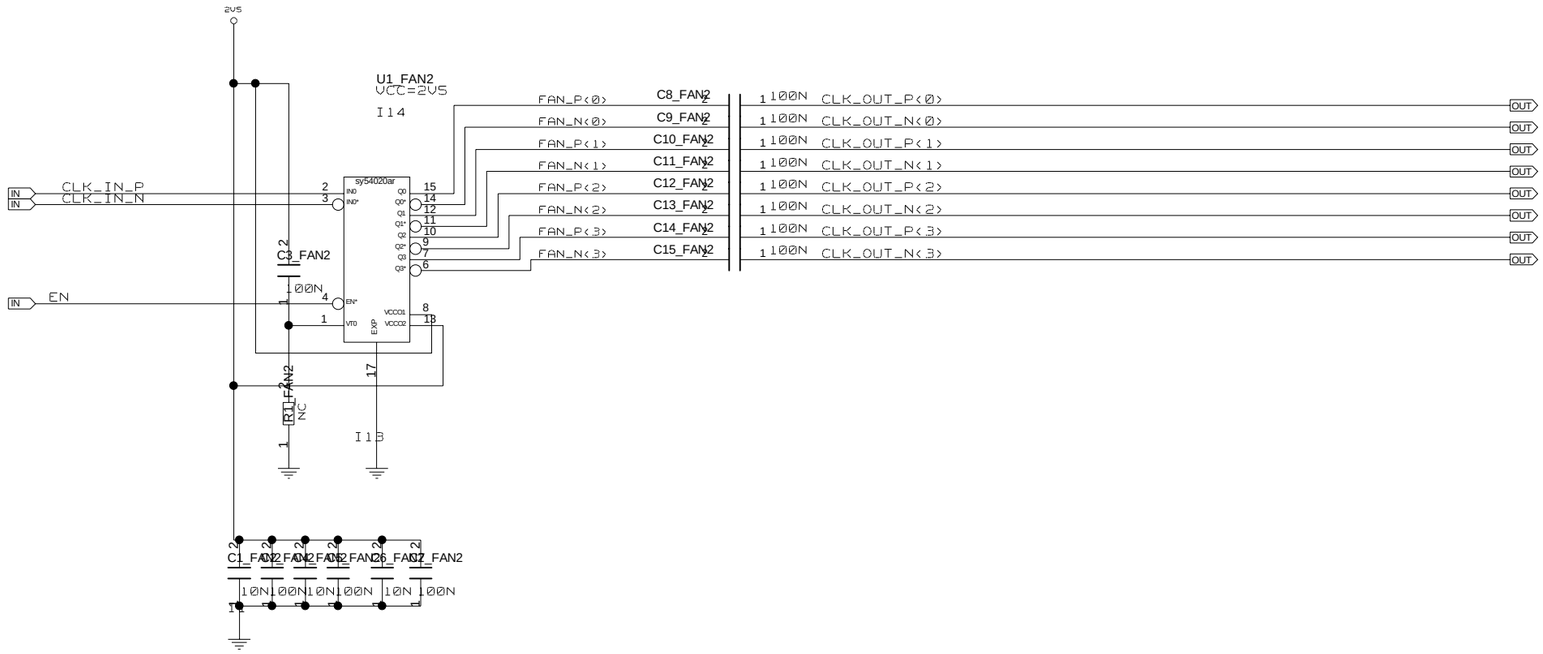
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_AC	
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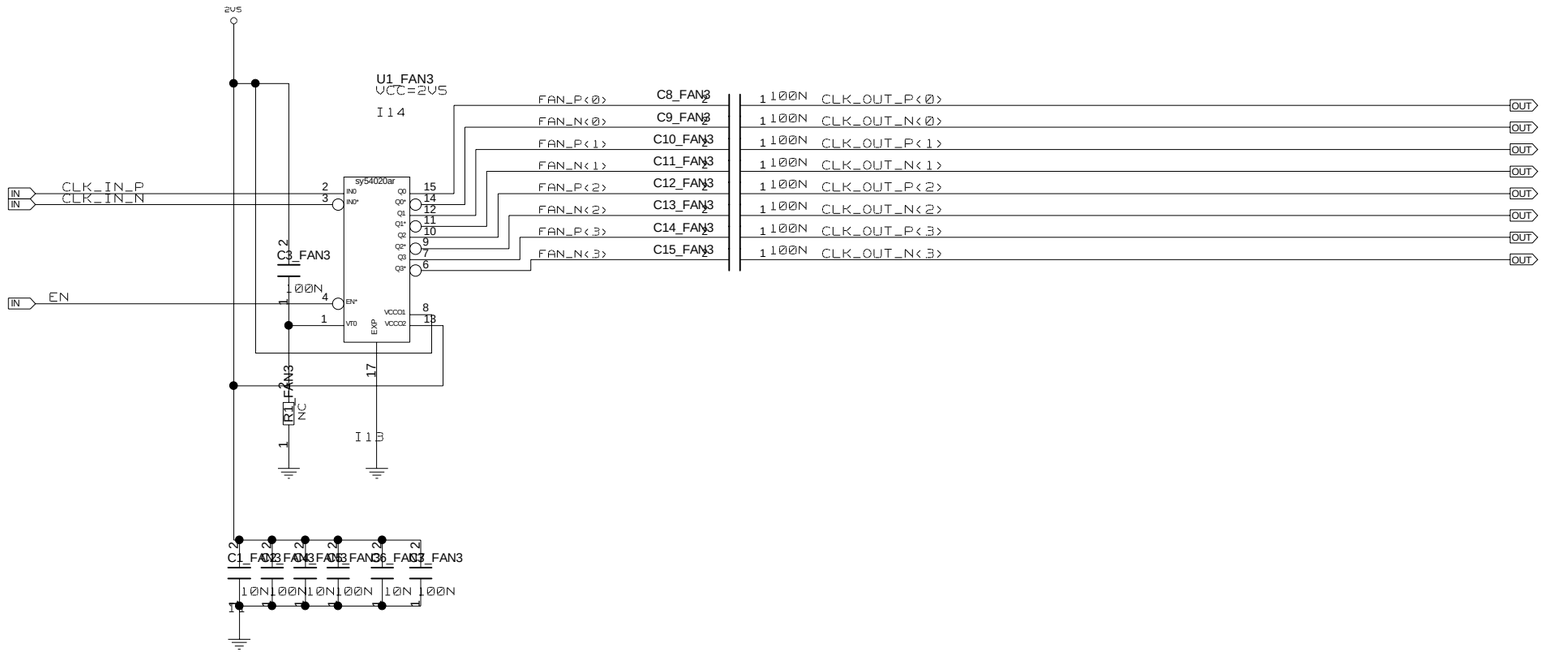
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_AC	
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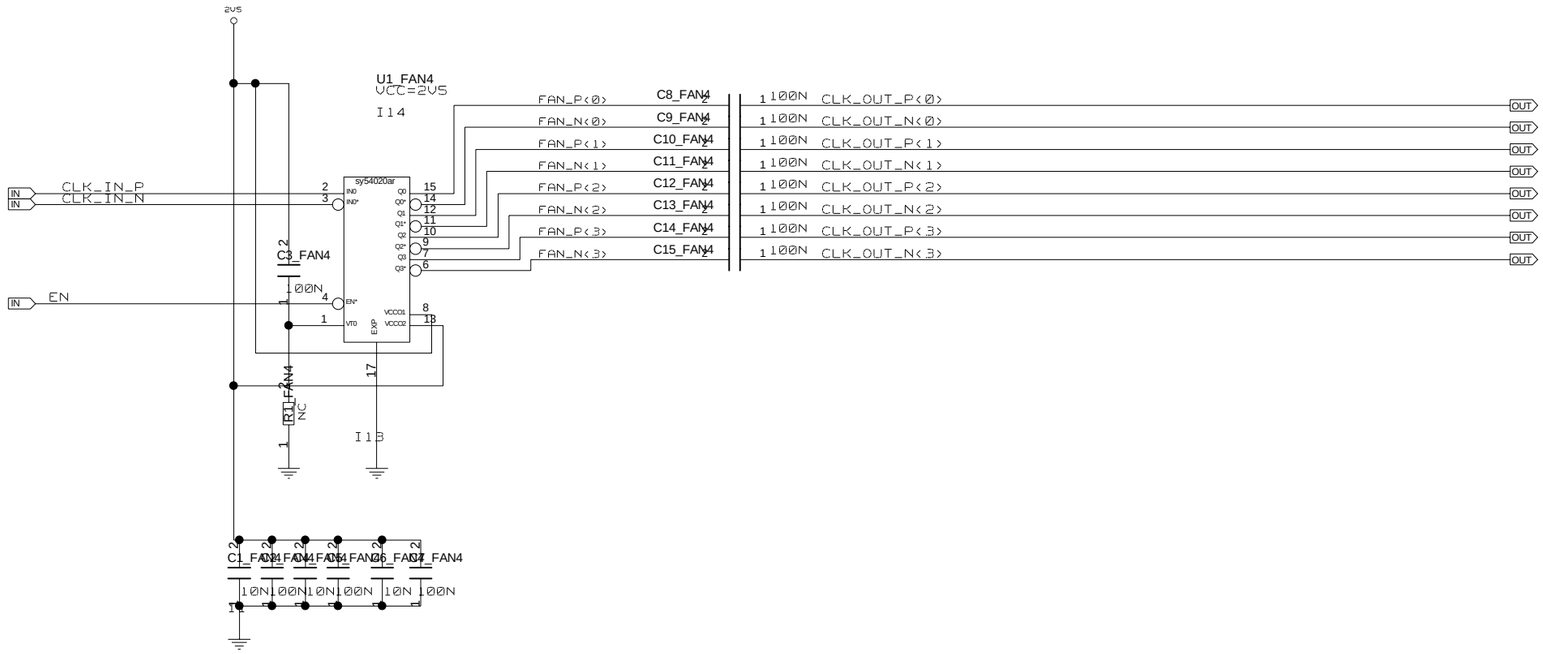
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_AC	
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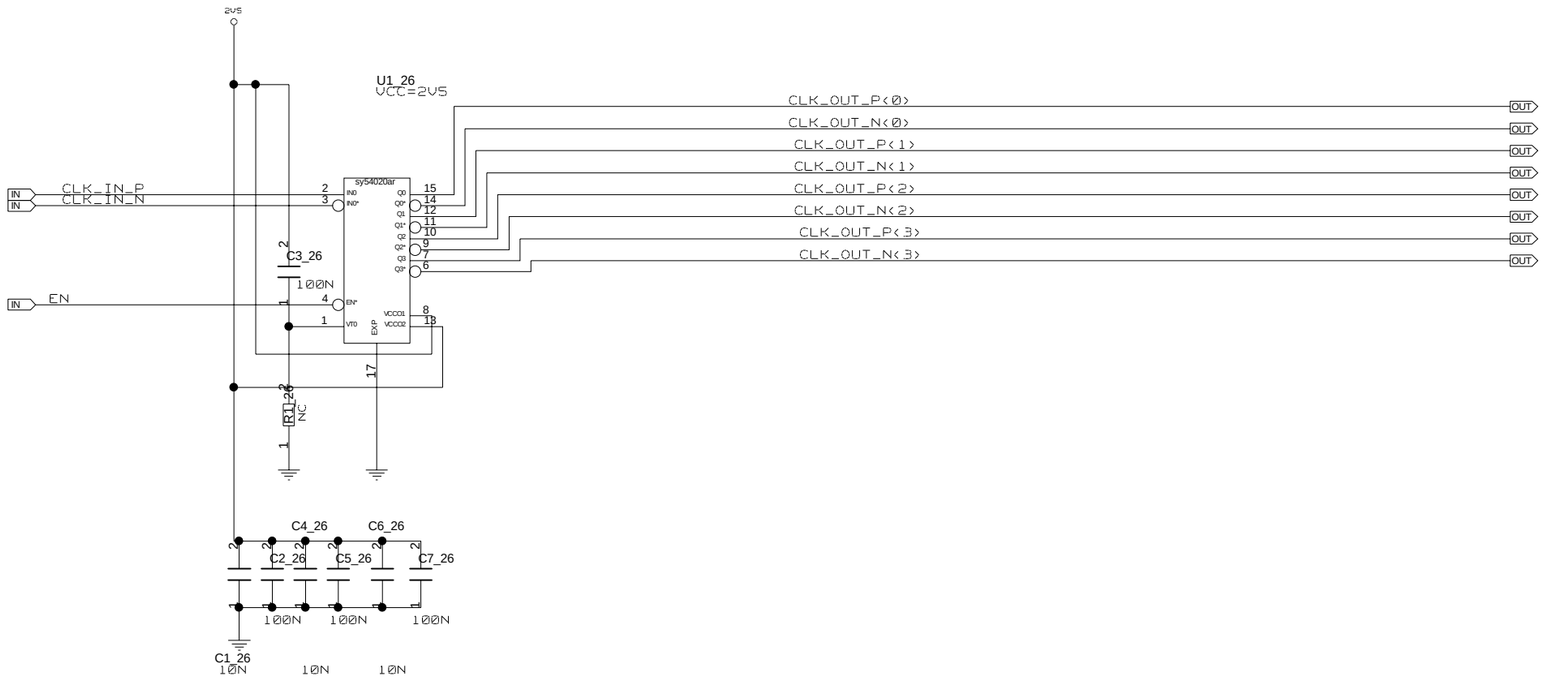
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_DC		
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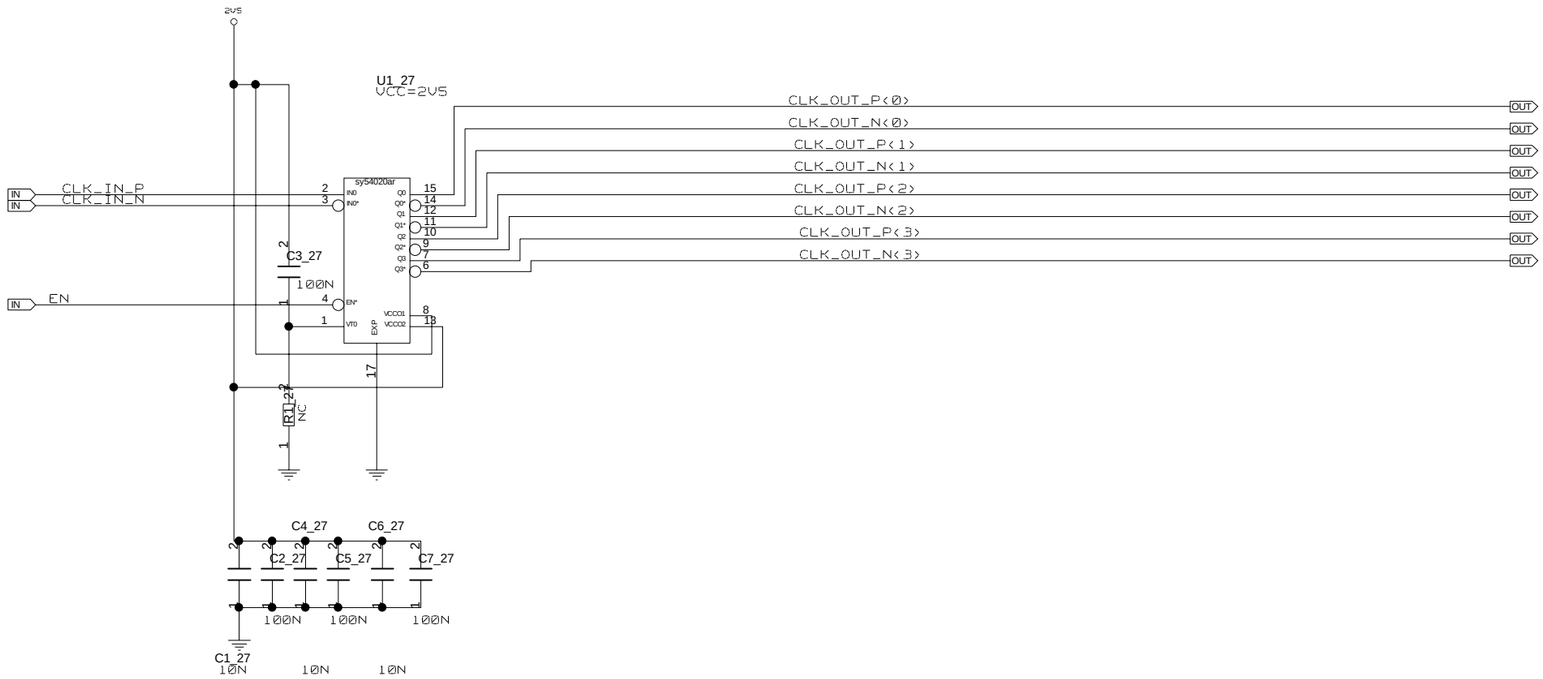
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_DC		
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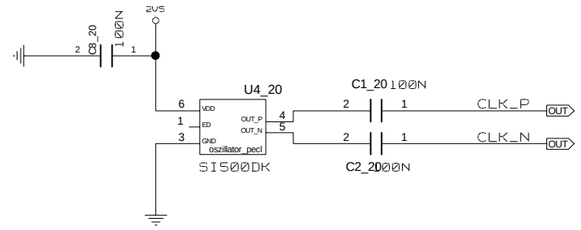
	SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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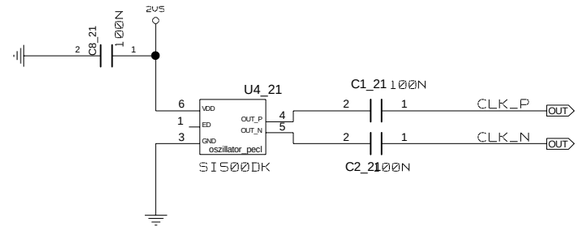
	SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_LP_LVPECL_AC	
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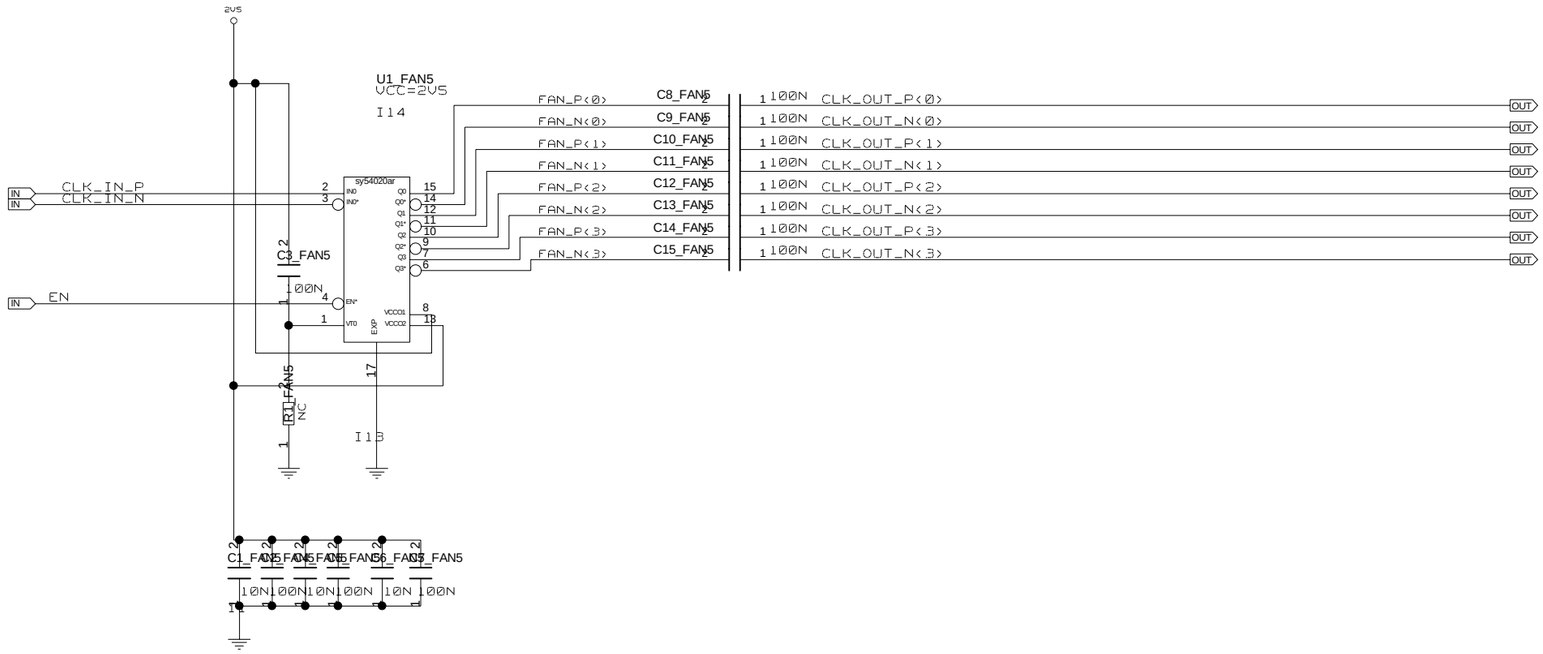
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_AC	
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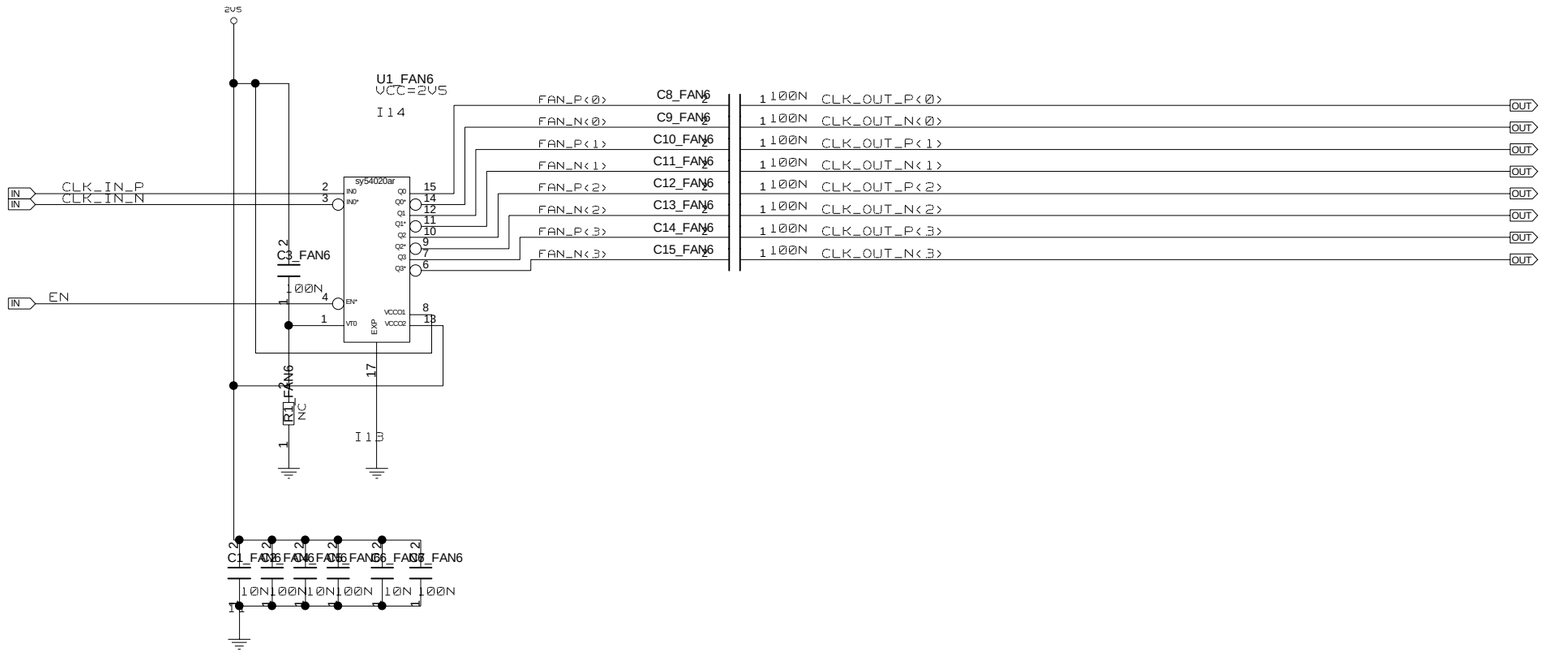
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_AC	
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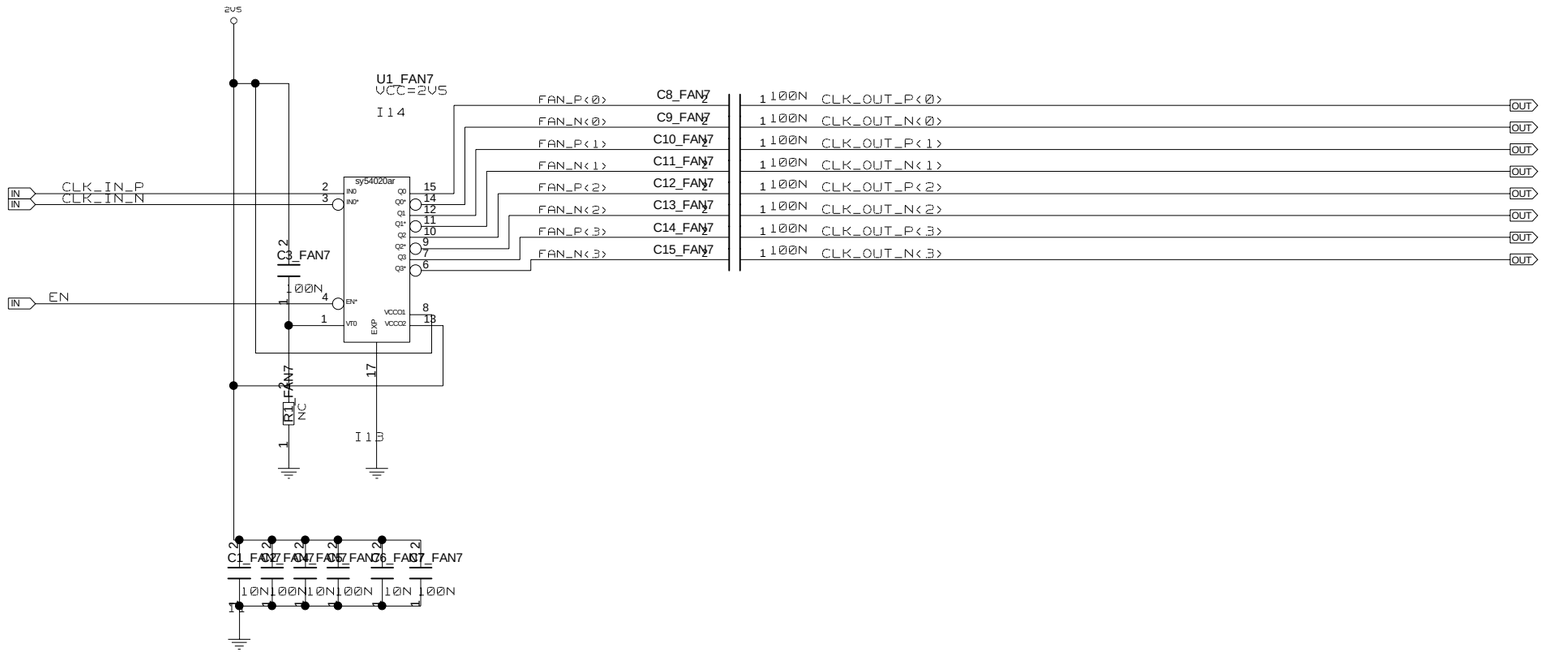
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ		DRAWING TITLE	CLOCK_CML_FANOUT4_AC
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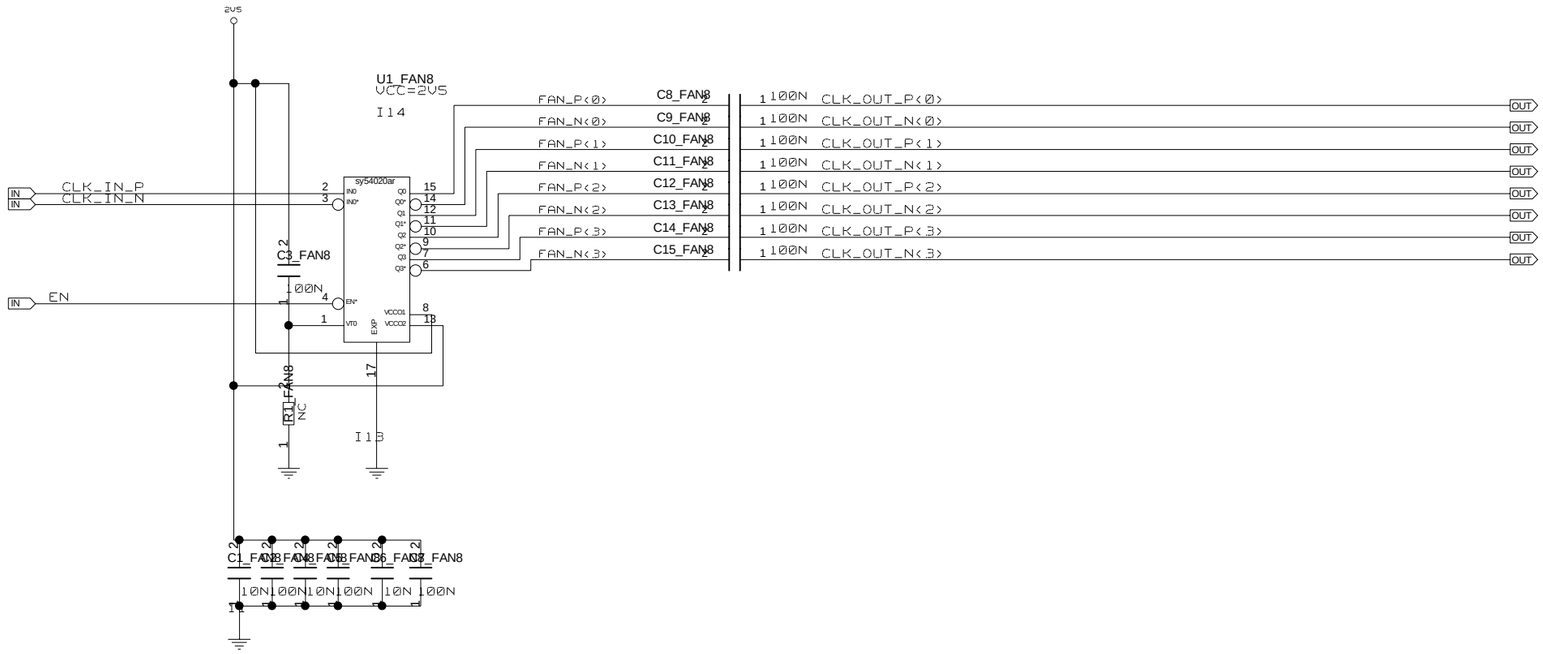
		SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ		DRAWING TITLE	CLOCK_CML_FANOUT4_AC
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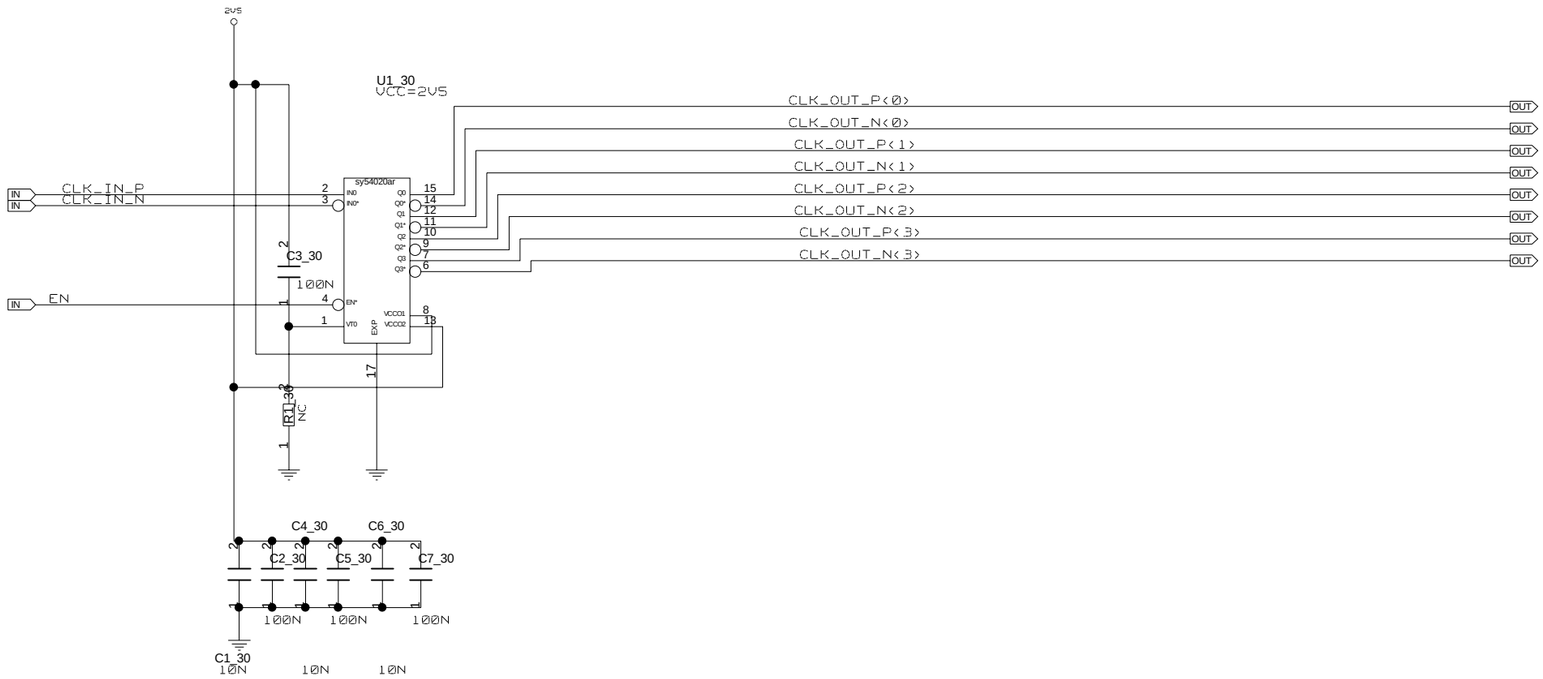
		SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_DC		
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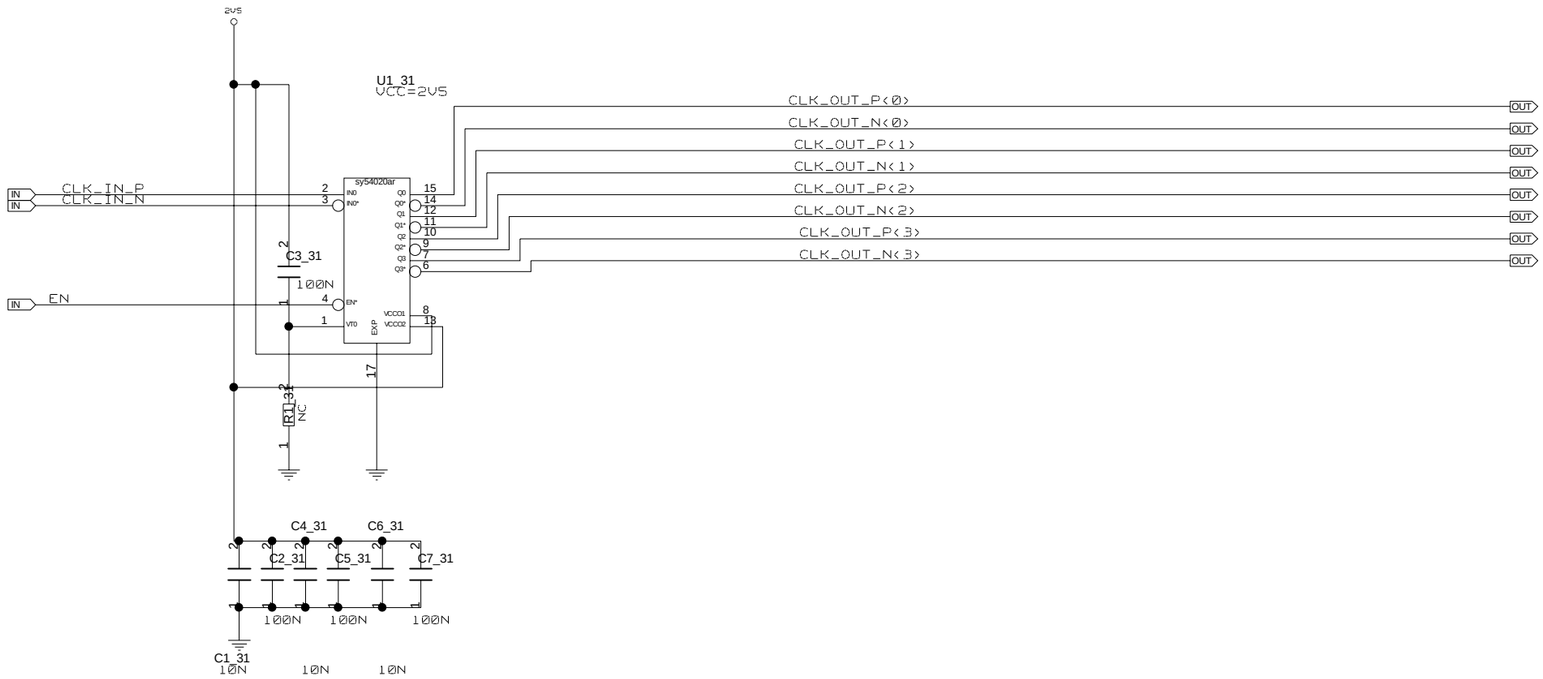
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_DC		
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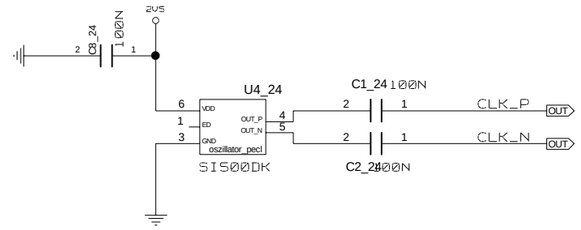
	SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_LP_LVPECL_AC	
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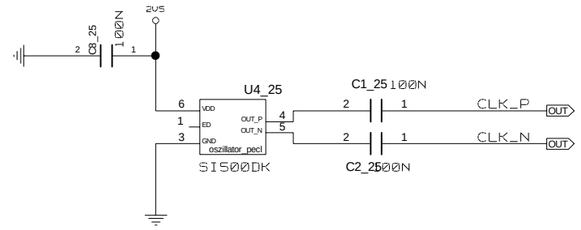
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_LP_LVPECL_AC	
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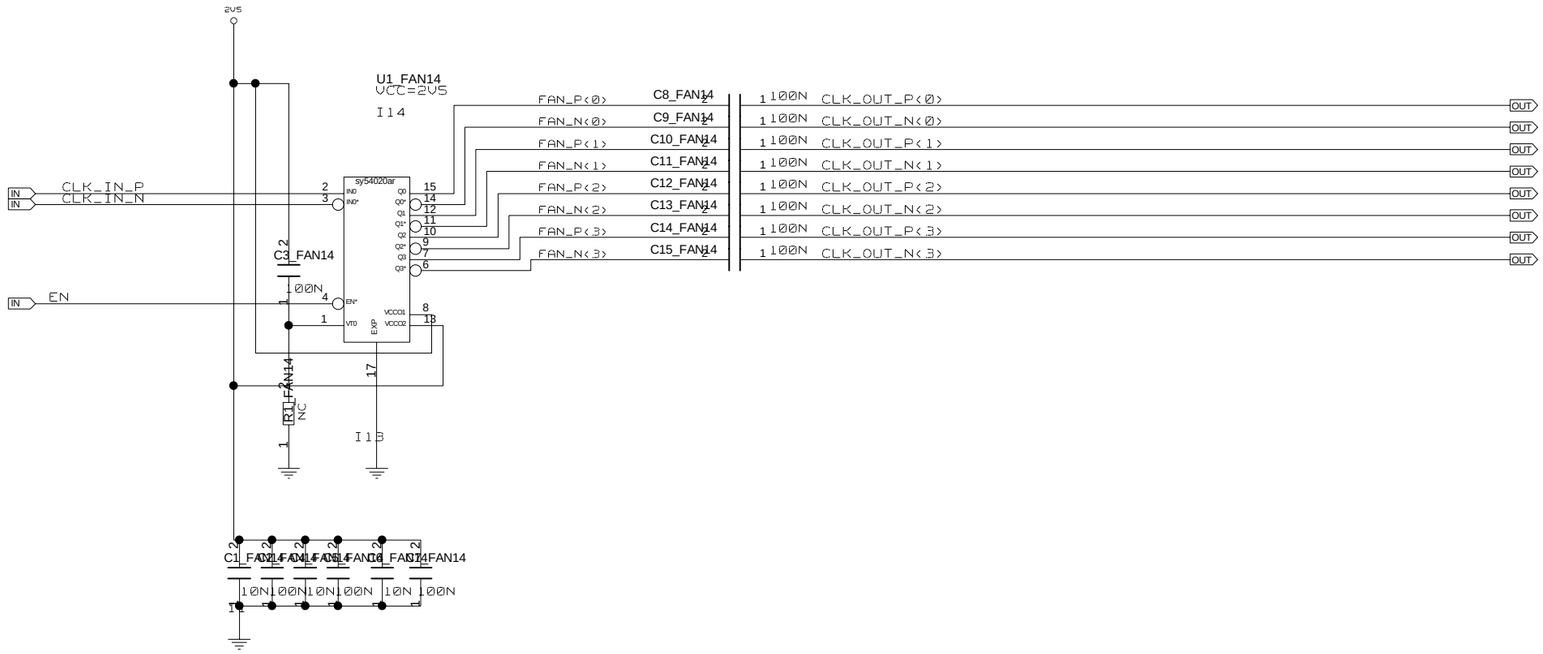
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_AC	
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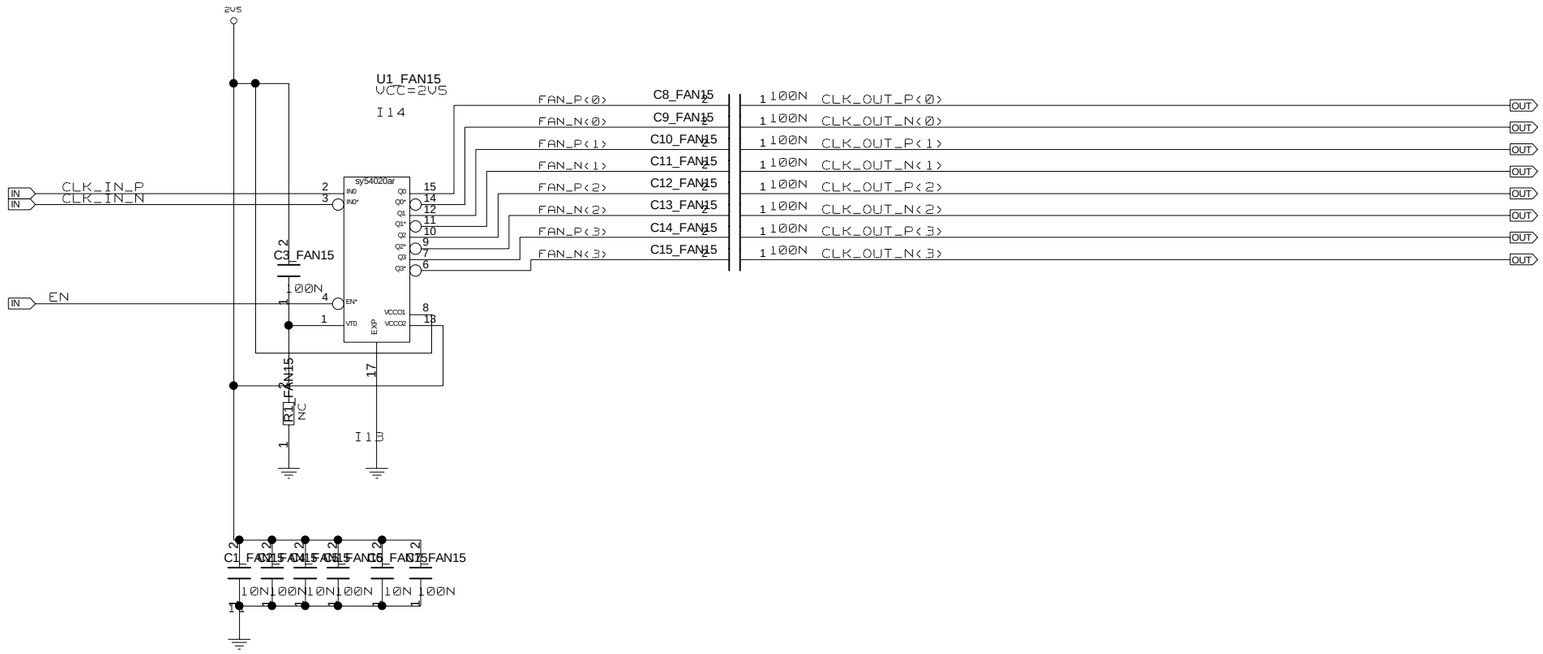
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_AC	
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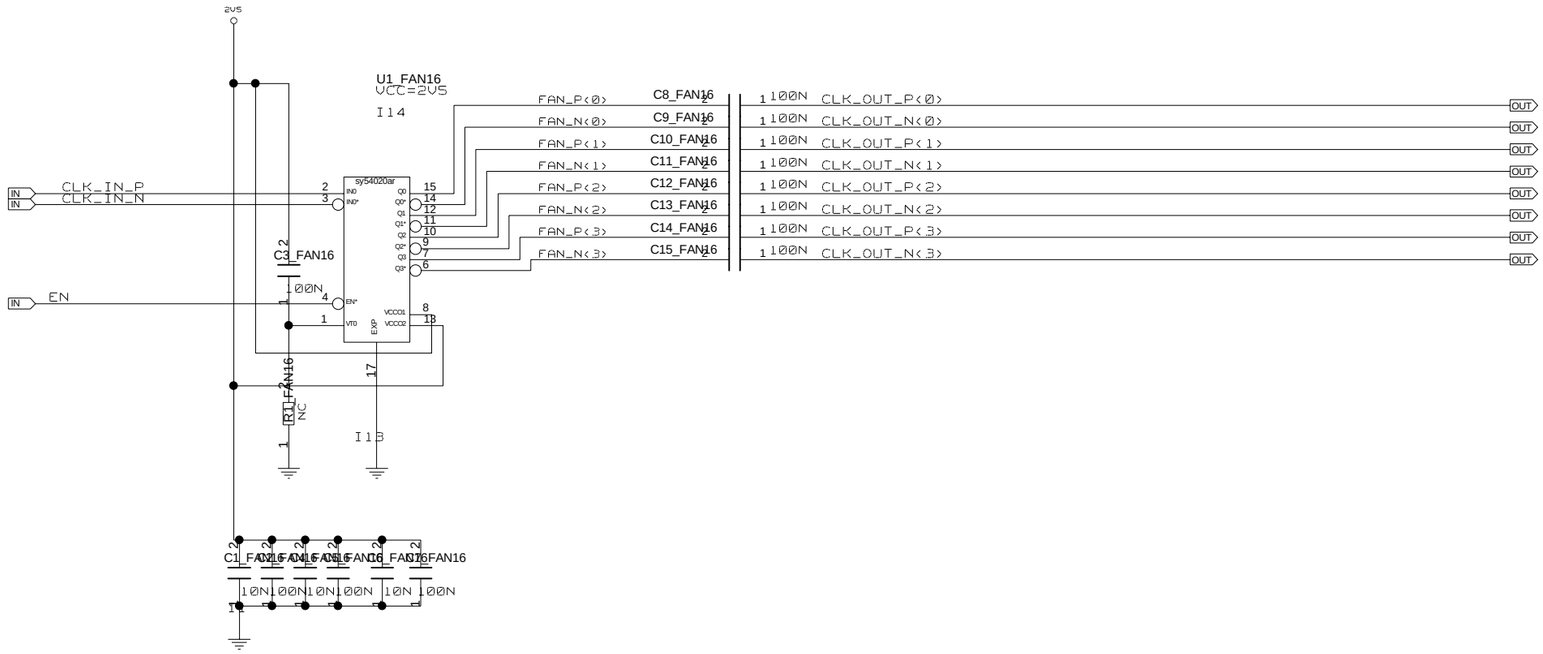
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_AC		
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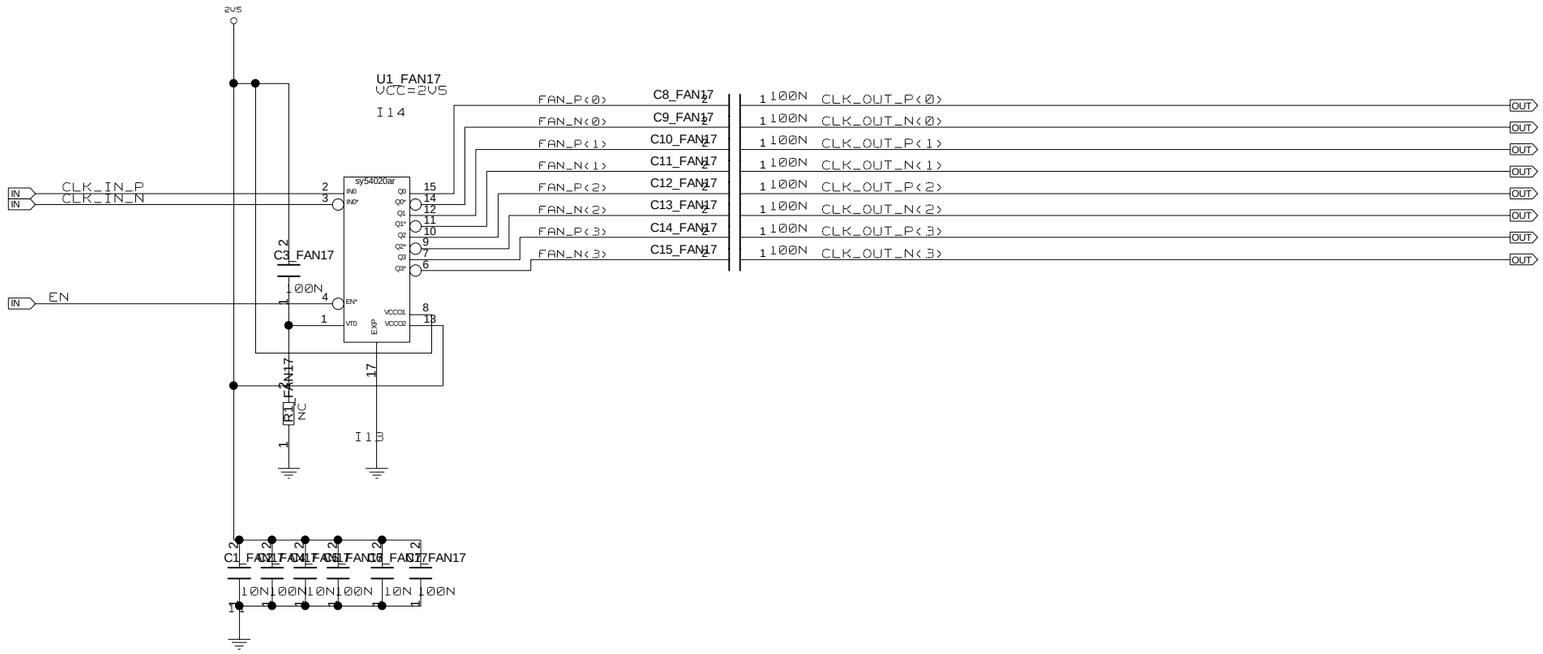
	SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_AC	
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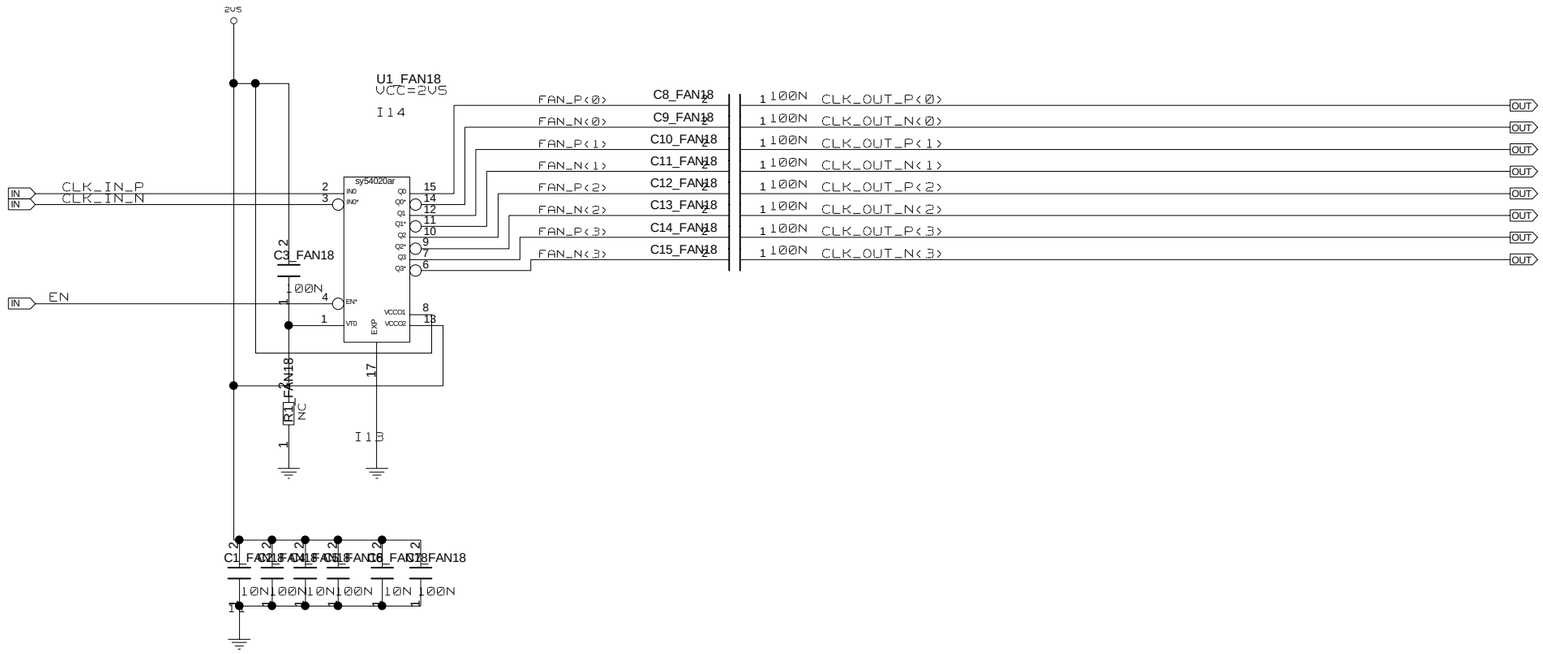
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_AC	
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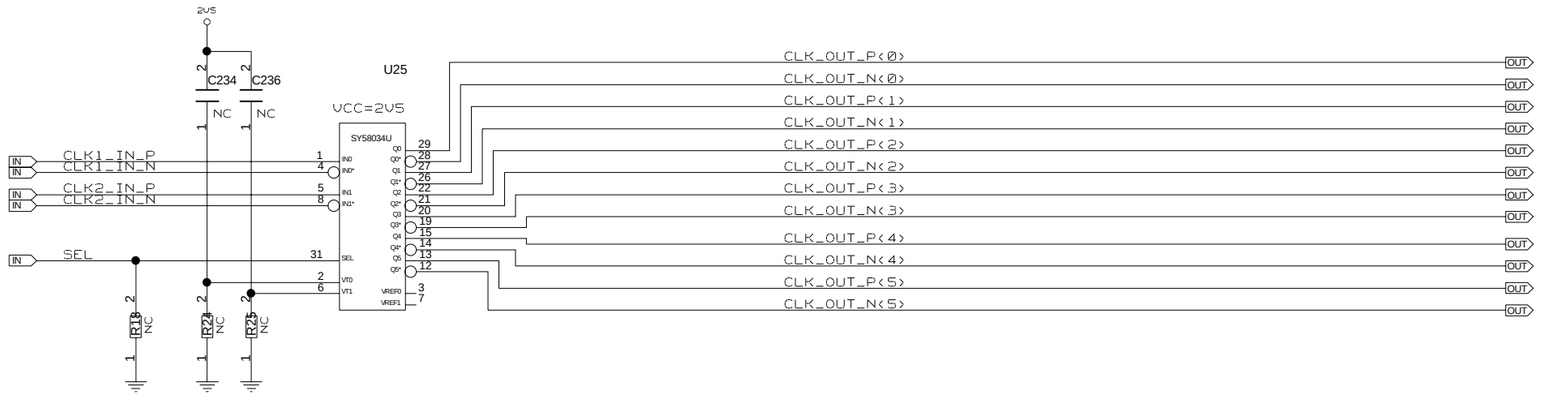
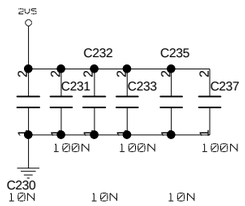
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.





UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT6_DC		
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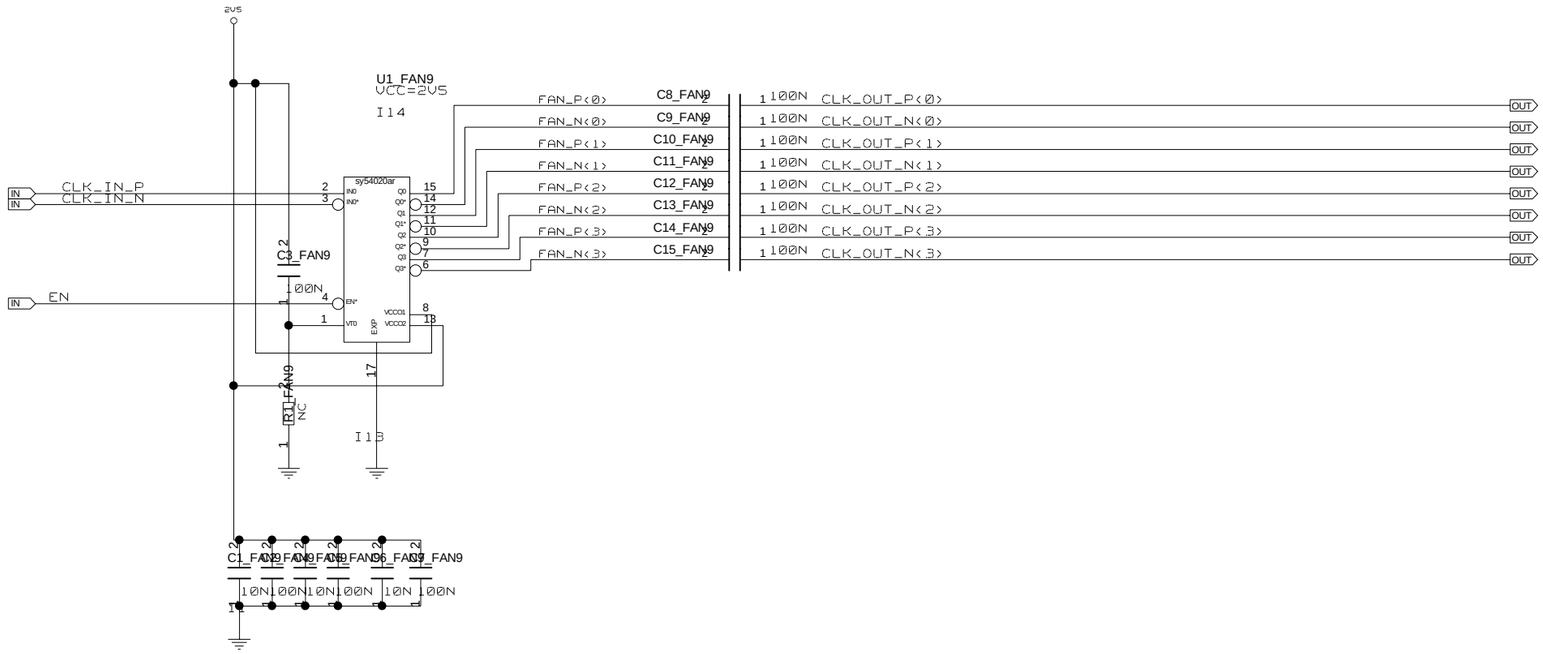
	SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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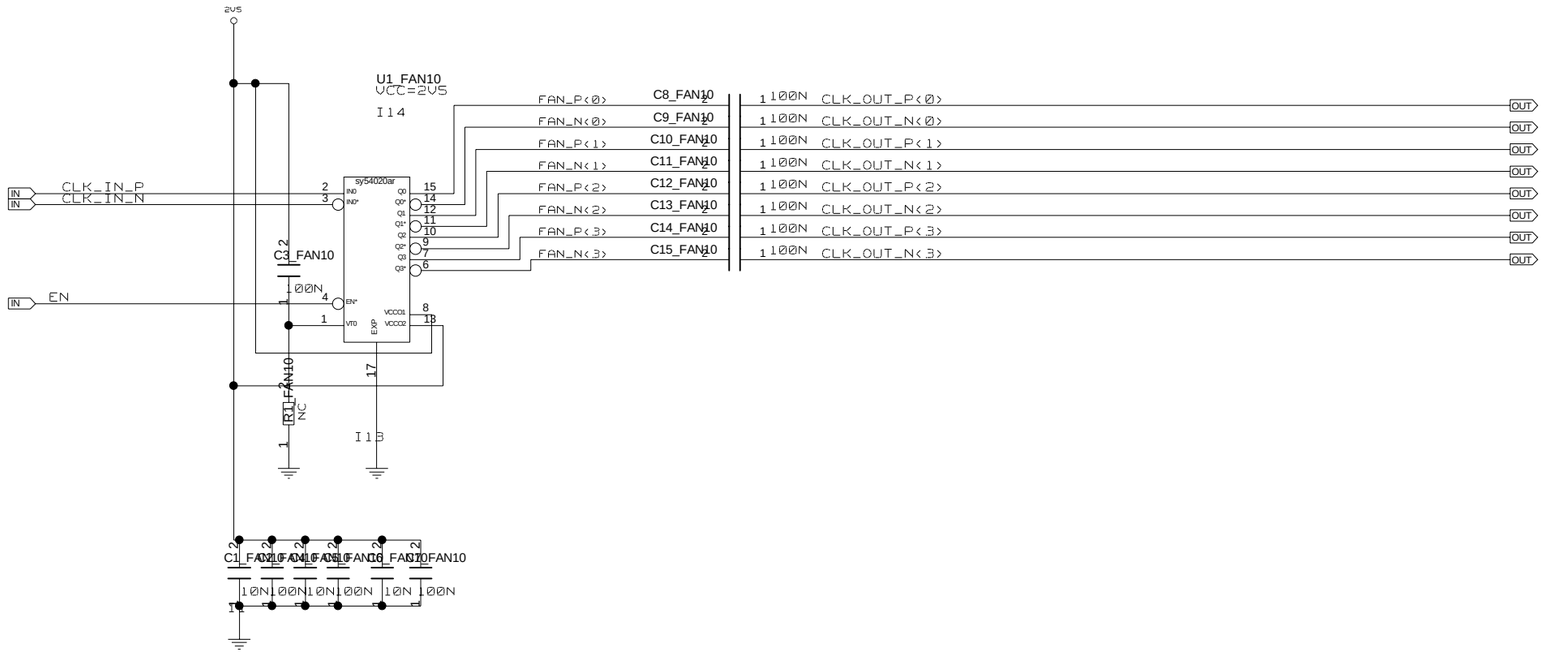
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_AC		
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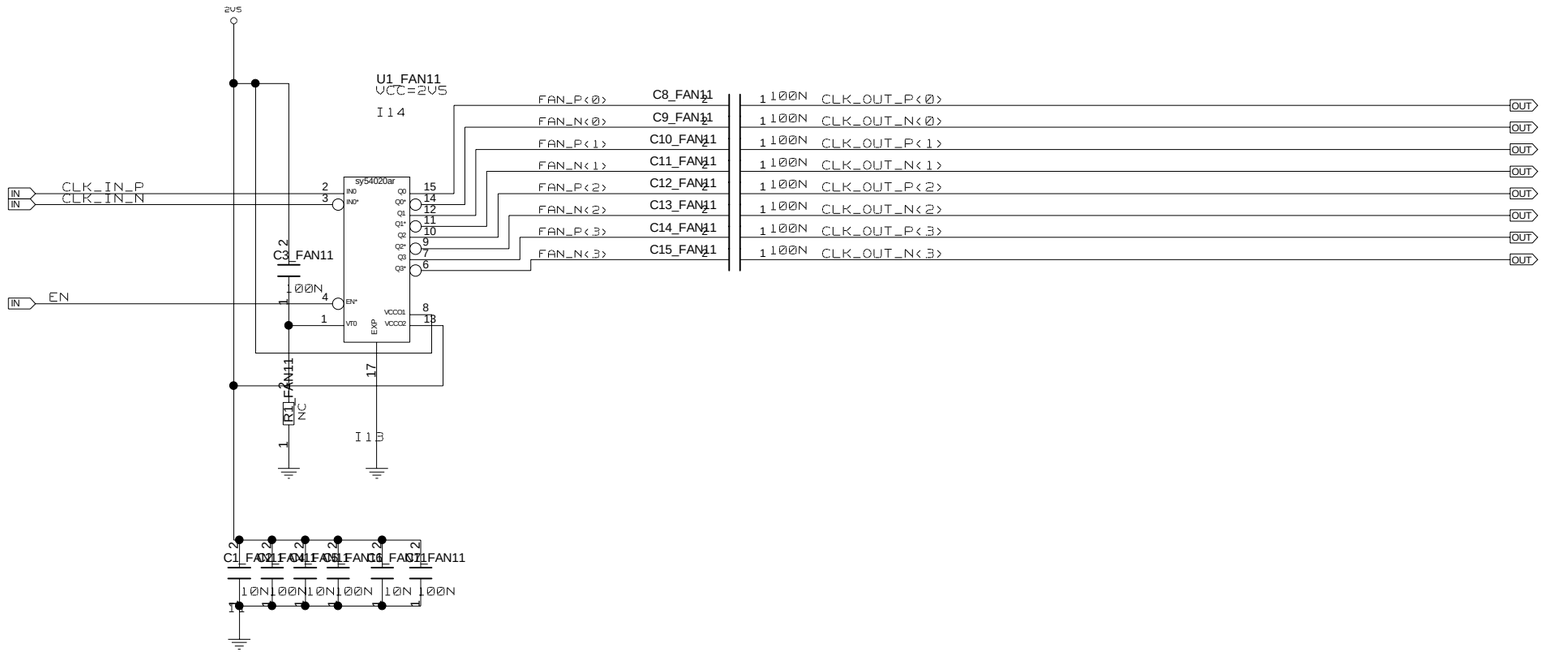
	SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_AC	
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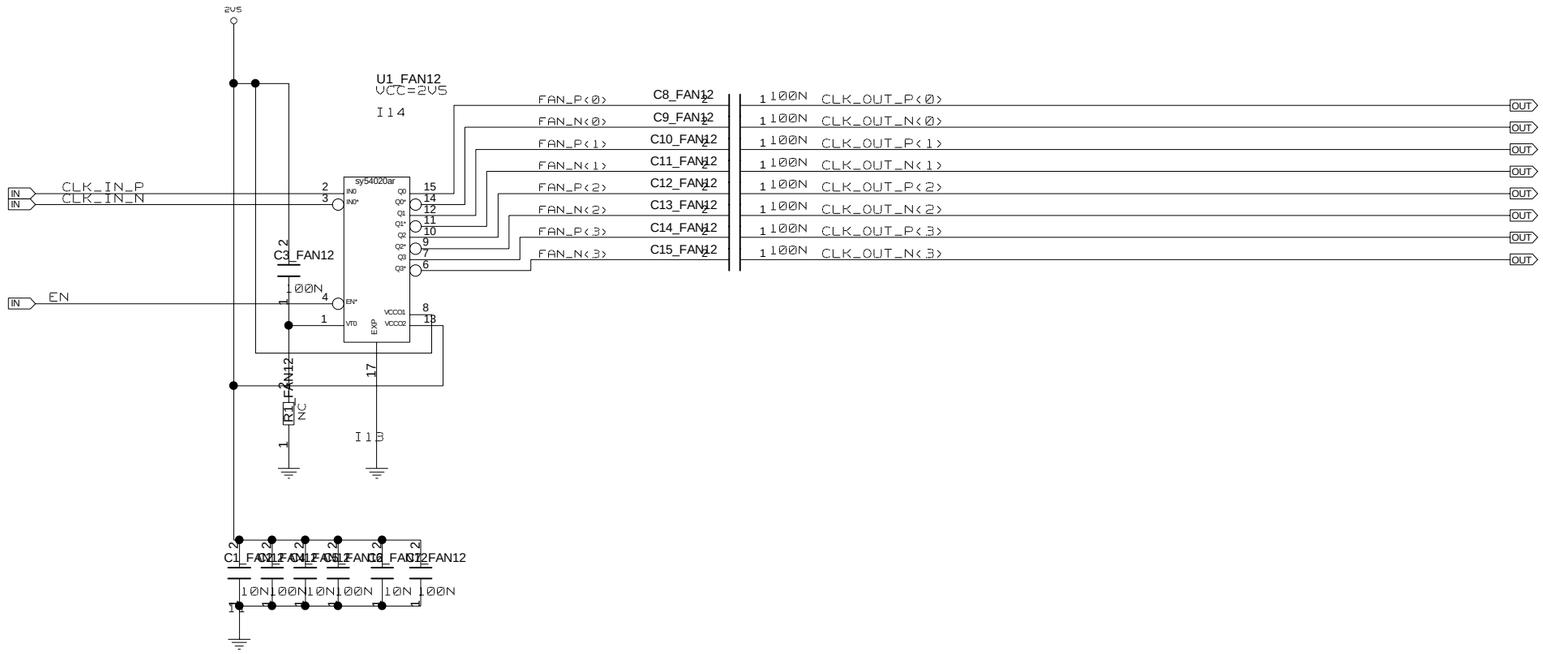
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_AC	
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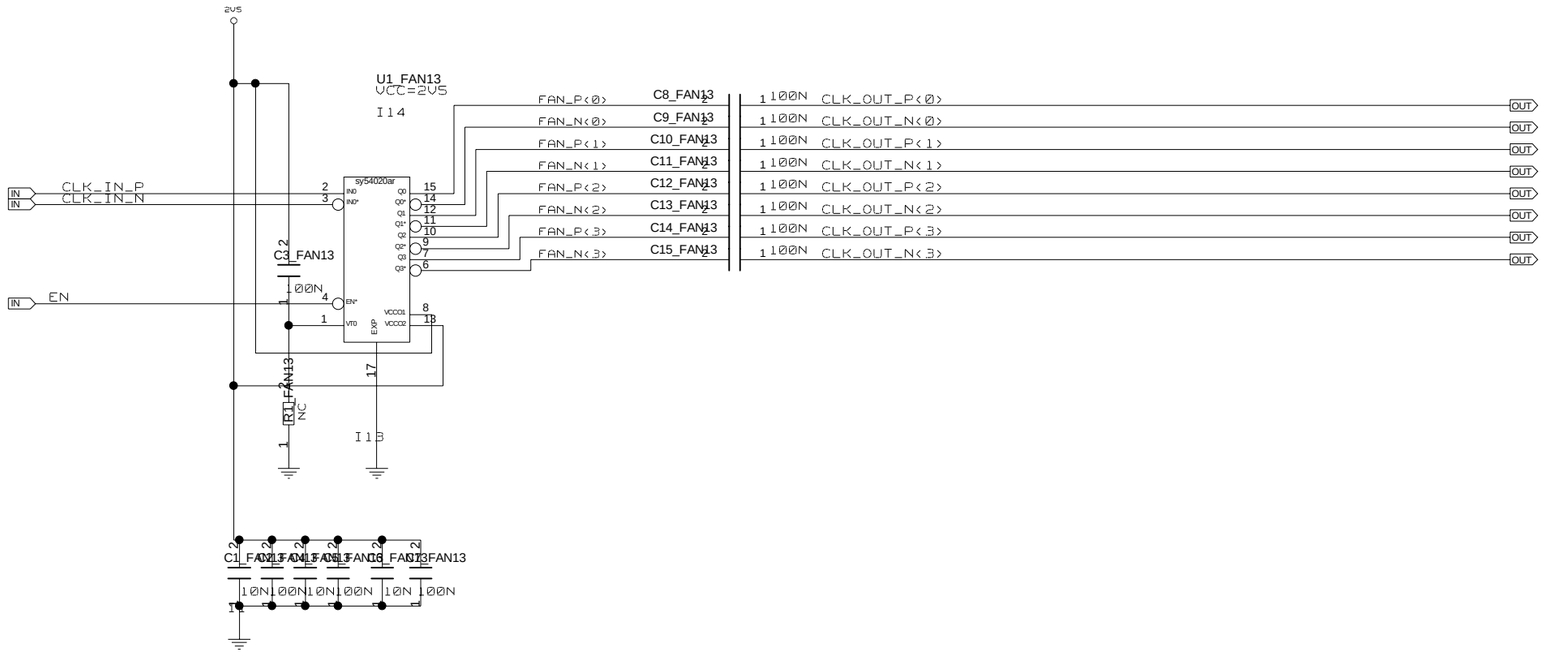
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_CML_FANOUT4_AC	
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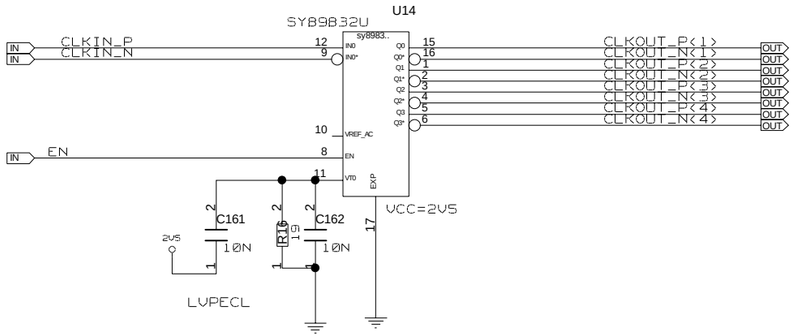
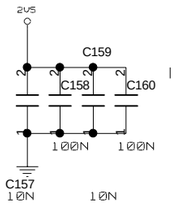
	SCALE	SHEET OF

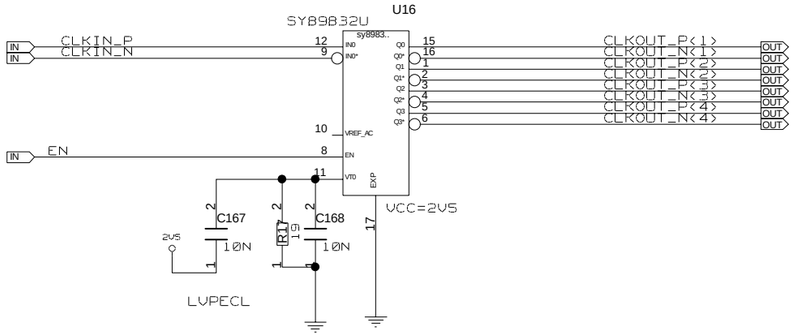
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

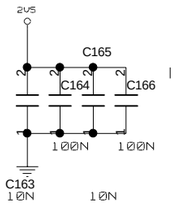




UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_FANOUT_DC_4_LVDS		
	SIZE: C	REV.	DRAWING NO.
	SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.





UNIVERSITY OF MAINZ	DRAWING TITLE: CLOCK_FANOUT_DC_4_LVDS		
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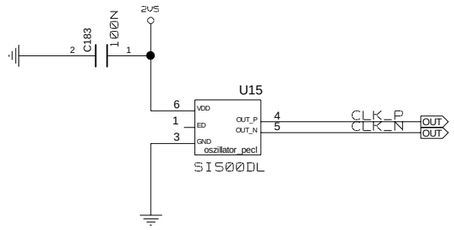
	SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

GCK2_CLK_N<4..1>
GCK2_CLK_P<4..1>
GCK1_CLK_N<4..1>
GCK1_CLK_P<4..1>

VIRTEX7_CONTROL
VIRTEX7_CTRL<23..0>
CTRLBUS_P<41..0>
CTRLBUS_N<41..0>
EXT_V7_P<43..0>
EXT_V7_N<43..0>
GCK1_P<2..1>
GCK1_N<2..1>
GCK2_P<2..1>
GCK2_N<2..1>

KINTEX7_CONTROL
KINTEX7_CTRL<5..0>
CTRLBUS_P<41..0>
CTRLBUS_N<41..0>
JC1_CTRL<15..0>
OPTO_CTRL<59..0>
EXT_K7_P<23..0>
EXT_K7_N<23..0>
EXT_K7<49..0>
GCK1_P<2..1>
GCK1_N<2..1>
GCK2_P<2..1>
GCK2_N<2..1>
TTC_CTRL<56..0>
IPMC_K7_3V3<51..0>

ZYNQ_MARS_ZX3
ZYNQ_CTRL_P<39..0>
ZYNQ_CTRL_N<39..0>
ZYNQ_K7_P<39..0>
ZYNQ_K7_N<39..0>
ZYNQ_EXT<31..0>
ZYNQ_EXT_P<7..0>
ZYNQ_EXT_N<7..0>

CPLD
VIRTEX7_CTRL<23..0>
KINTEX7_CTRL<5..0>
EXT_CPLD<15..0>
ACE_CDA<26..0>

I3

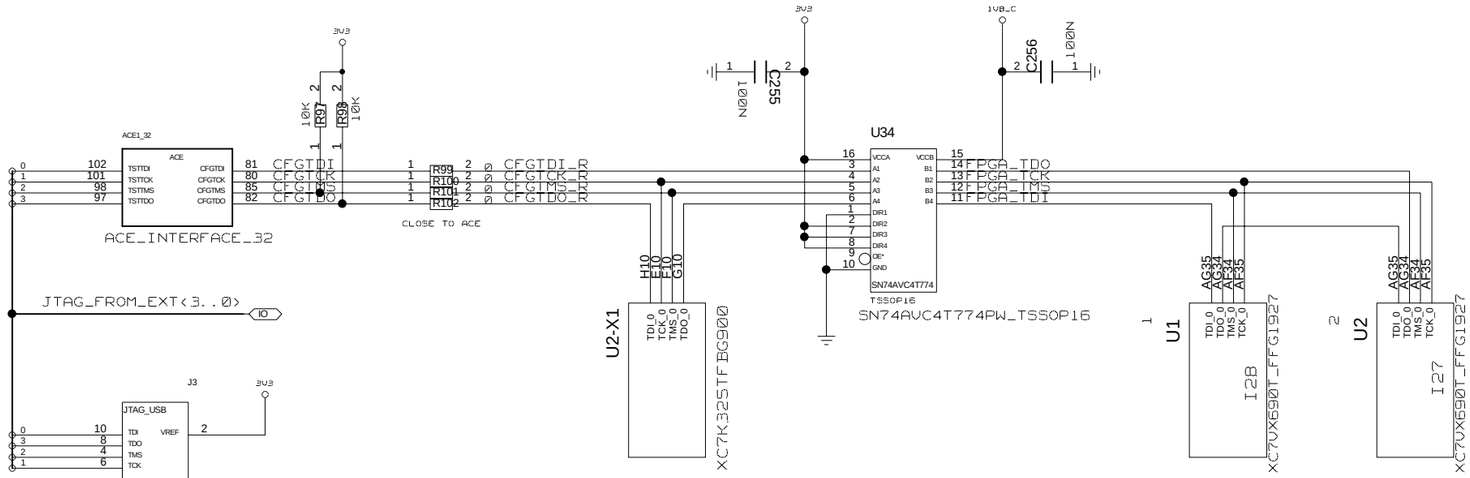
JTAG_PORT
ACE_CDA<26..0>
JTAG_FROM_EXT<3..0>
ACE INTERFACE

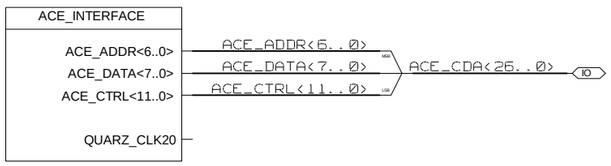
IPMC
IPMC_K7_3V3<51..0>
IPMC_EXT<15..0>
ATCA_CTRL<11..0>
PWR_ON
MGT_I2C_SDA
MGT_I2C_SCL
A_OK
B_OK

EXTENSION_MODUL
EXT_V7_P<43..0>
EXT_V7_N<43..0>
EXT_K7_P<23..0>
EXT_K7_N<23..0>
EXT_K7<49..0>
EXT_ZYNQ<31..0>
EXT_ZYNQ_P<7..0>
EXT_ZYNQ_N<7..0>
EXT_CPLD<15..0>
JTAG_FROM_EXT<3..0>
TTC_IN_P
TTC_IN_N
OPTOK7_EXT_P<3..0>
OPTOK7_EXT_N<3..0>
AVAGO_SDA<2..0>
AVAGO_SCL<2..0>
JT_SPARE_P<1..0>
JT_SPARE_N<1..0>
JC1_CTRL<15..0>
IPMC_EXT<15..0>

UNIVERSITY OF MAINZ		DRAWING TITLE: BOARDCONTROL	
BLOCK: CONTROL		SIZE: C	REV. / DRAWING NO.
		SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.





UNIVERSITY OF MAINZ		DRAWING TITLE: JTAG + ACE INTERFACE	
BLOCK: CONTROL JTAG		SIZE: C	REV. / DRAWING NO.
		SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

XCCACE-TQG144I

ACE1_32

I98
CARD1_1_32

I105
3V3
R3 1_32 SK1
R18 32 SK1
R4 1_32 1K
R19 32 1K

FLASHCARD
IORD* 34
IOWR* 35
RESET 41
CSEL* 39
WP 24
VS1* 33
RDY/BSY 37
VS2* 40
INPACK* 43
BVD2 45
BVD1 46
VCC1 13
VCC2 38
GND1 1
GND2 50

D00 21 FLASH_D<0> 5
D01 22 FLASH_D<1> 6
D02 23 FLASH_D<2> 8
D03 2 FLASH_D<3> 104
D04 3 FLASH_D<4> 106
D05 4 FLASH_D<5> 113
D06 5 FLASH_D<6> 115
D07 6 FLASH_D<7> 117
D08 47 FLASH_D<8> 7
D09 48 FLASH_D<9> 11
D10 49 FLASH_D<10> 12
D11 27 FLASH_D<11> 105
D12 28 FLASH_D<12> 107
D13 29 FLASH_D<13> 114
D14 30 FLASH_D<14> 116
D15 31 FLASH_D<15> 118

A00 20 FLASH_A<0> 4
A01 19 FLASH_A<1> 142
A02 18 FLASH_A<2> 141
A03 17 FLASH_A<3> 139
A04 16 FLASH_A<4> 137
A05 15 FLASH_A<5> 135
A06 14 FLASH_A<6> 134
A07 12 FLASH_A<7> 132
A08 11 FLASH_A<8> 130
A09 10 FLASH_A<9> 125
A10 8 FLASH_A<10> 121

CE1* 7 FLASH_CONF<1> 119
REG* 44 FLASH_CONF<2> 3
CE2* 32 FLASH_CONF<3> 138
WE* 36 FLASH_CONF<4> 131
WAIT* 42 FLASH_CONF<5> 140
OE* 9 FLASH_CONF<6> 123
CD1* 26 FLASH_CONF<7> 103
CD2* 25 FLASH_CONF<8> 13

I97
3V3

HOUSING-
MOLEX_55364003

I102
3V3
R5 1_32 SK1

INIT_B-ACE
I104
3V3

ACE
GROUP=ACE

CFD00 CFD01 CFD02 CFD03 CFD04 CFD05 CFD06 CFD07 CFD08 CFD09 CFD10 CFD11 CFD12 CFD13 CFD14 CFD15
CFA00 CFA01 CFA02 CFA03 CFA04 CFA05 CFA06 CFA07 CFA08 CFA09 CFA10
CFCE1* CFREG* CFCE2* CFWE* CFWAIT* CFOE* CFCD1* CFCD2* CFRSVD CFGADDR0 CFGADDR1 CFGADDR2 CFGMODEPIN CFGINT* CFGPROG*

MPA00 MPA01 MPA02 MPA03 MPA04 MPA05 MPA06
MPD00 MPD01 MPD02 MPD03 MPD04 MPD05 MPD06 MPD07 MPD08 MPD09 MPD10 MPD11 MPD12 MPD13 MPD14 MPD15
CLK RESET* MPCE* MPWE* MPOE* POR_BYPASS POR_RESET MPIRQ MPRDY POR_TEST STATLED* ERRLED*

VCCH<7:0> VCCL<7:0> GND<17:0>
ACE ACE1_32

ACE_ADDR<6..0>
IN
ACE_DATA<7..0>
IO
ACE_CTRL<11..0>
R9 1_32 220
R10 1_32 220
ACE-FRONT_STAT
ACE-FRONT_ERR
R11 1_32 180
R12 1_32 180
CHIPLED1104
LED1_1_32 LED2_1_32

INIT_B-ACE
PROG_B-ACE

I108
U18_32
OSZILLATOR
OUT 3
CONTROL 1
VCC=3V3
K50_3C1_20MHZ
S1 R6 1_32
S1 R7 1_32
S1 R8 1_32
QUARZ_CLK20
OUT

I78
3V3
C1 1_32 C2 1_32 C3 1_32 C4 1_32 C5 1_32 C6 1_32 C7 1_32 C8 1_32 C9 1_32 C10 1_32 C11 1_32
I77
100N 100N 100N 100N 100N 100N 100N 100N 100N 100N 100N

UNIVERSITY OF MAINZ	DRAWING TITLE: ACE MODUL		
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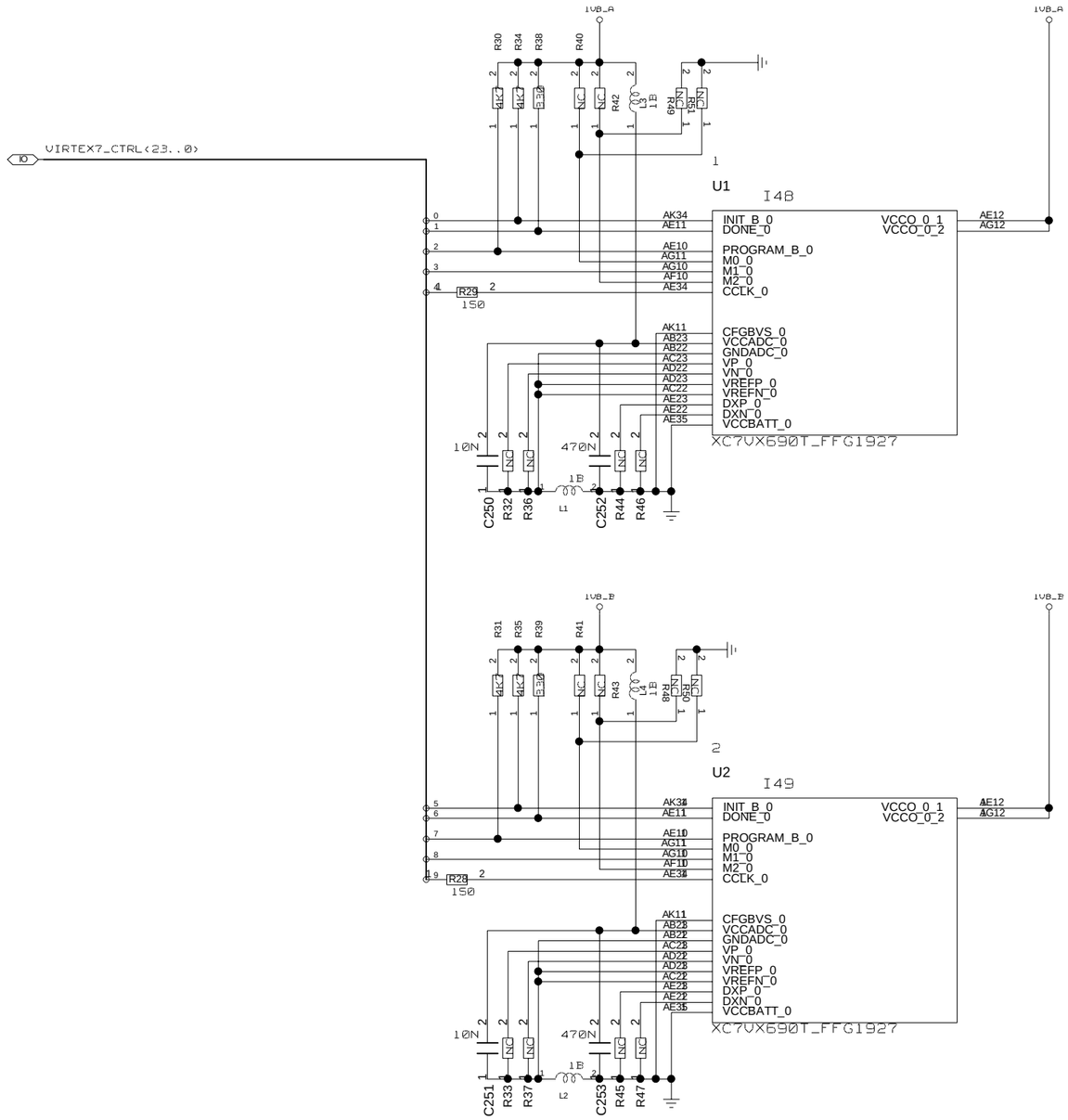
	SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ		DRAWING TITLE: CONTROL	
BLOCK: CONTROL VIRTEX7 CONTROL		SIZE: C	REV. / DRAWING NO.
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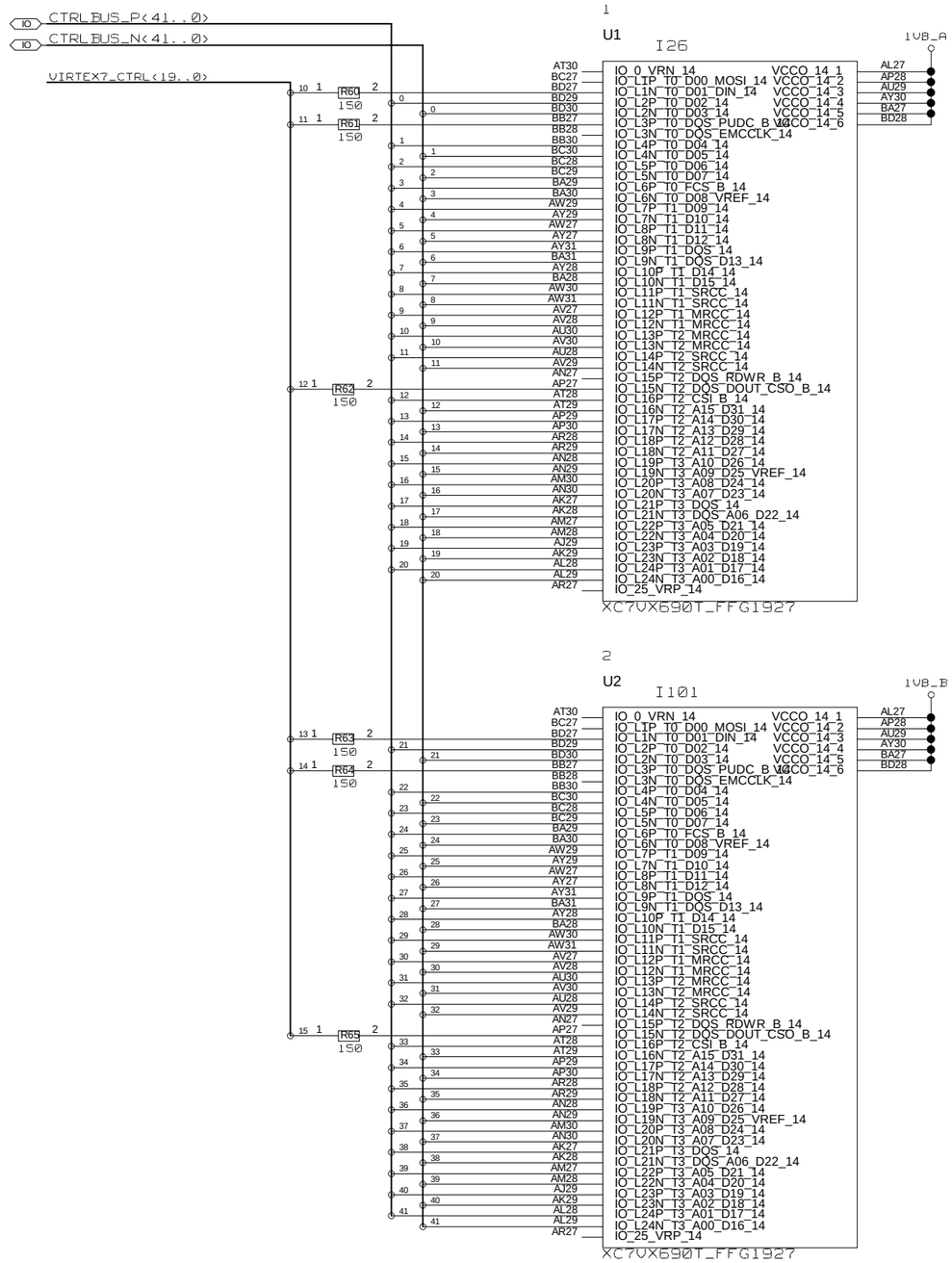
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

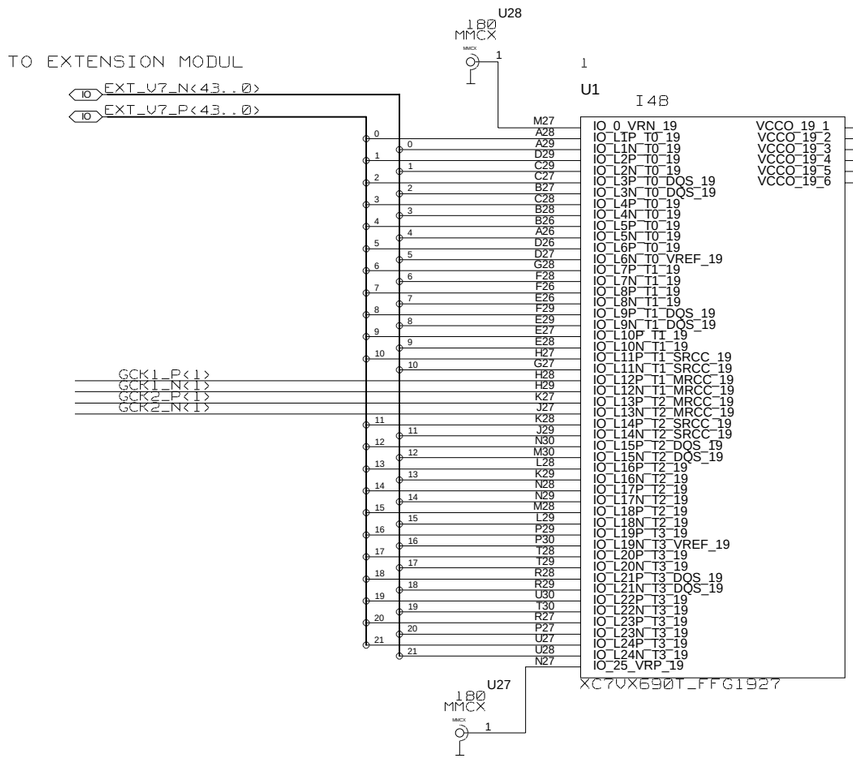


UNIVERSITY OF MAINZ		DRAWING TITLE: CONTROL BUS U1 + U2 --> KINTEX7	
BLOCK: CONTROL VIRTEX7 CONTROL		SIZE C	REV. / DRAWING NO.
		SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

IN GCK1_P<2..1>
IN GCK1_N<2..1>

IN GCK2_P<2..1>
IN GCK2_N<2..1>



UNIVERSITY OF MAINZ	DRAWING TITLE: TO EXTENSION MODUL	
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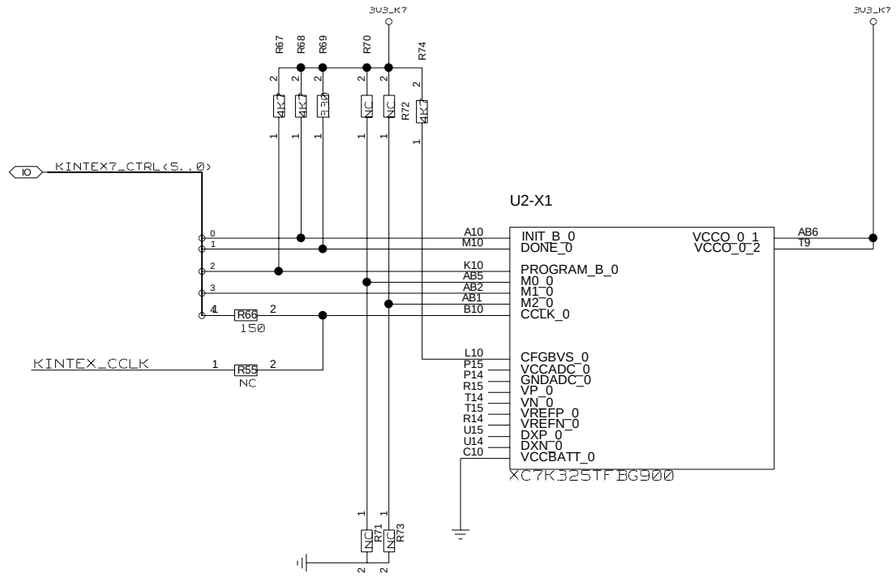
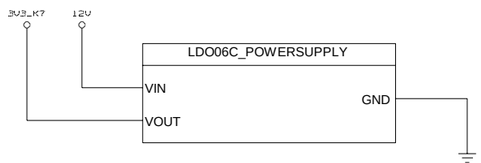
	SCALE	SHEET OF

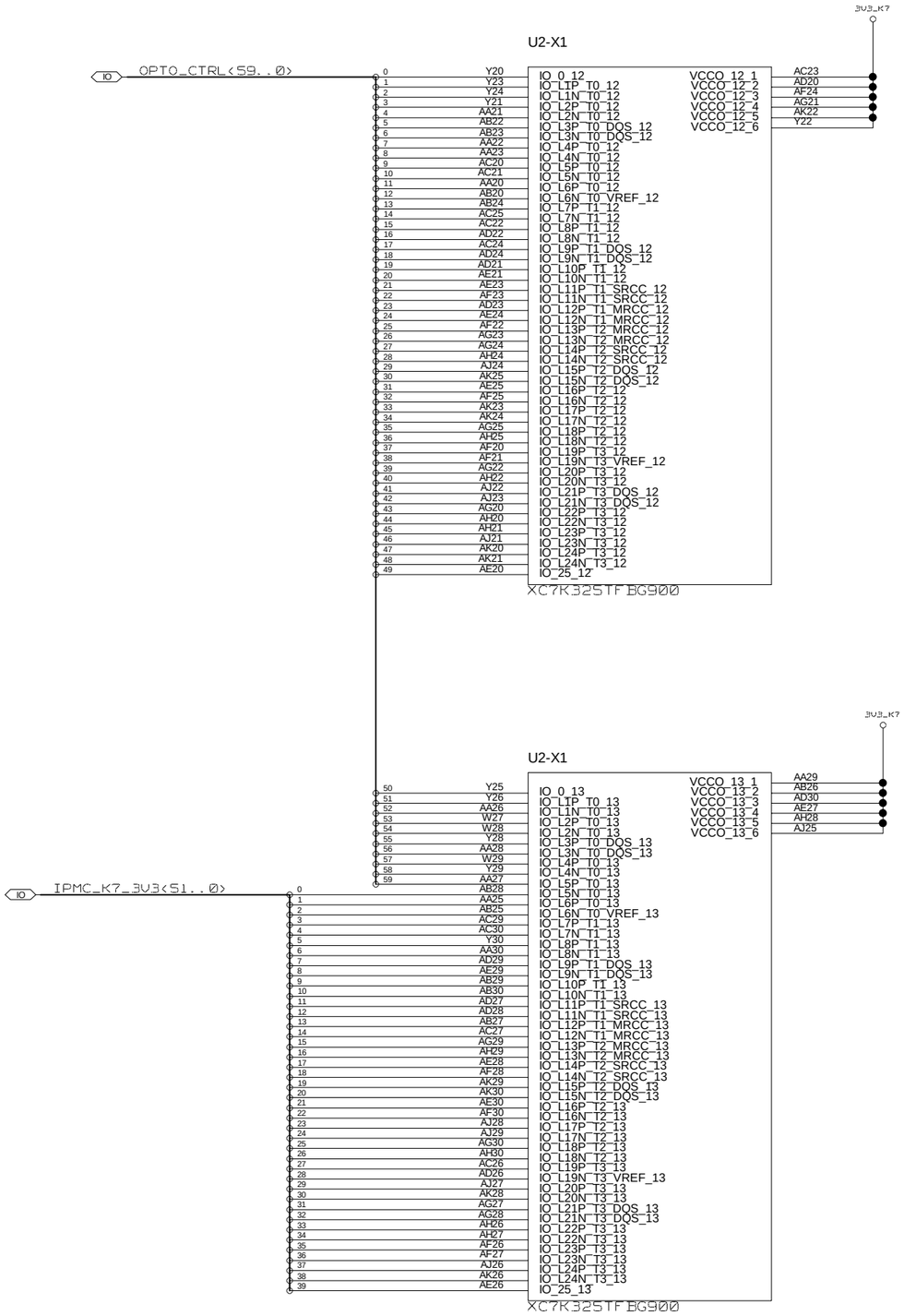
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.





UNIVERSITY OF MAINZ		DRAWING TITLE: CONTROL	
BLOCK: CONTROL KINTEX7 CONTROL	SIZE: C	REV.	DRAWING NO.
	SCALE		SHEET OF

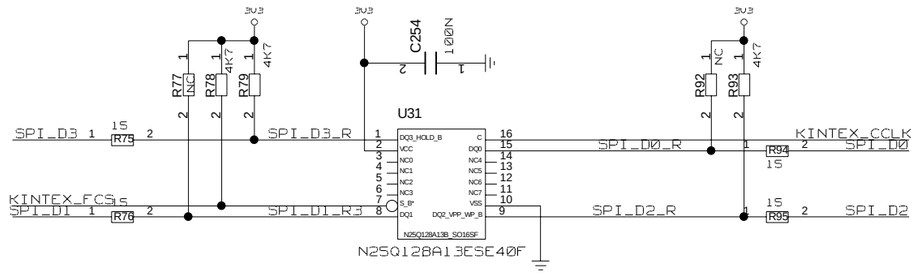
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



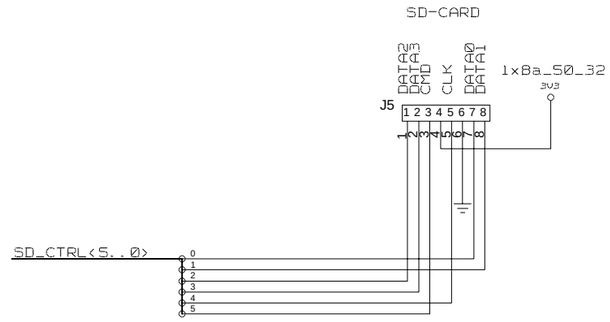
UNIVERSITY OF MAINZ		DRAWING TITLE: CONTROL AVAGO, SFP(DAQ, ROI, VME)	
BLOCK: CONTROL KINTEX7 CONTROL		SIZE: C	REV. / DRAWING NO.
		SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

BANK14 VCCO ABHAENGIG VON SPI SPANNUNG

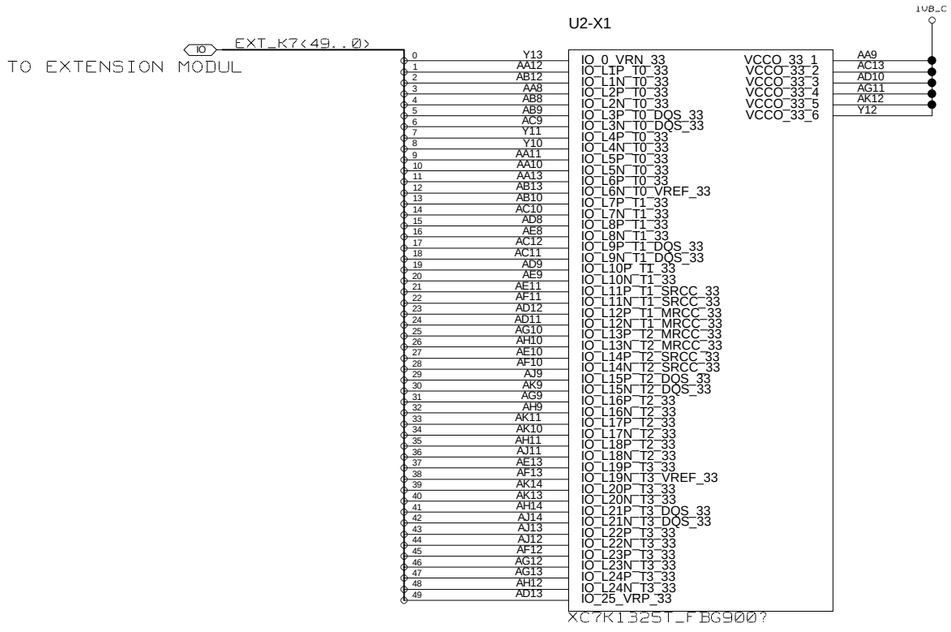


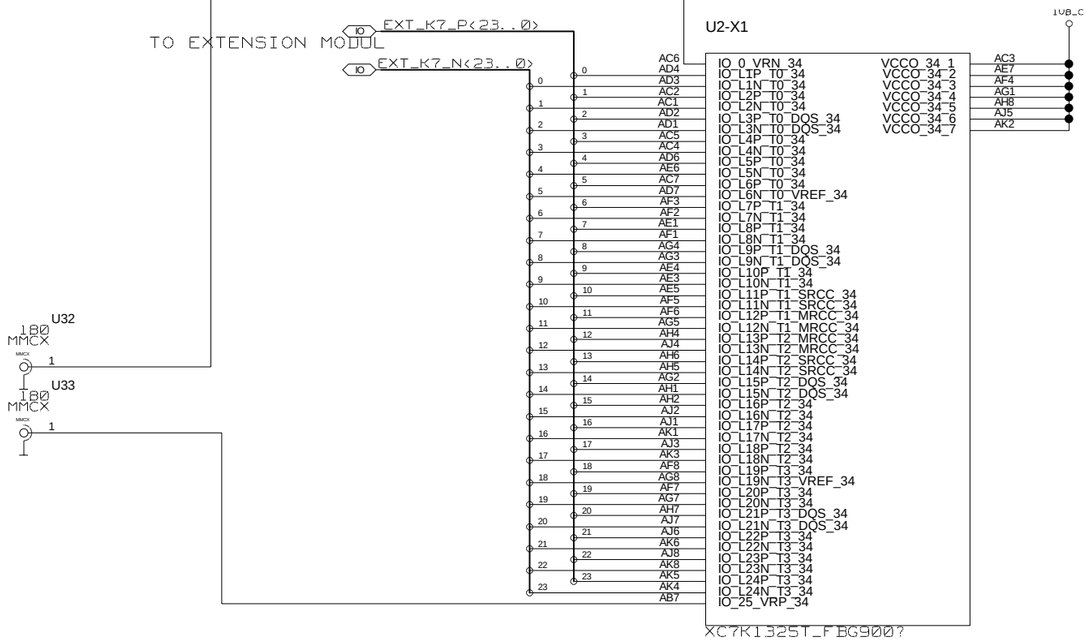
QSPI



UNIVERSITY OF MAINZ	DRAWING TITLE: SD, JITTERCLEANER, TTC, QSPI CONTROL	
BLOCK: CONTROL KINTEX7 CONTROL	SIZE C	REV. / DRAWING NO.
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.





UNIVERSITY OF MAINZ		DRAWING TITLE: CONTROL EXTENSIONMODUL	
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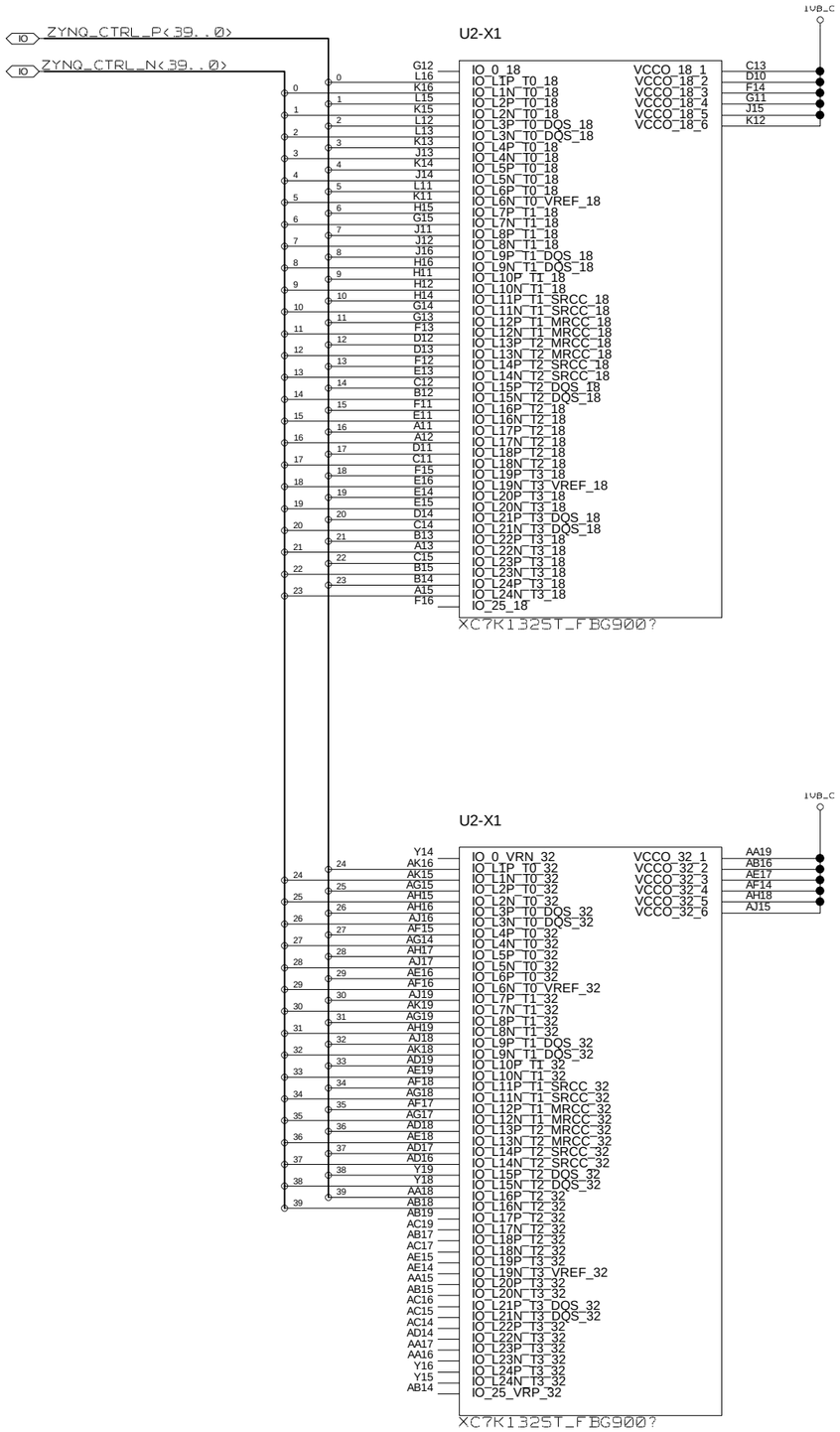
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: ZYNQ_CONTROL	
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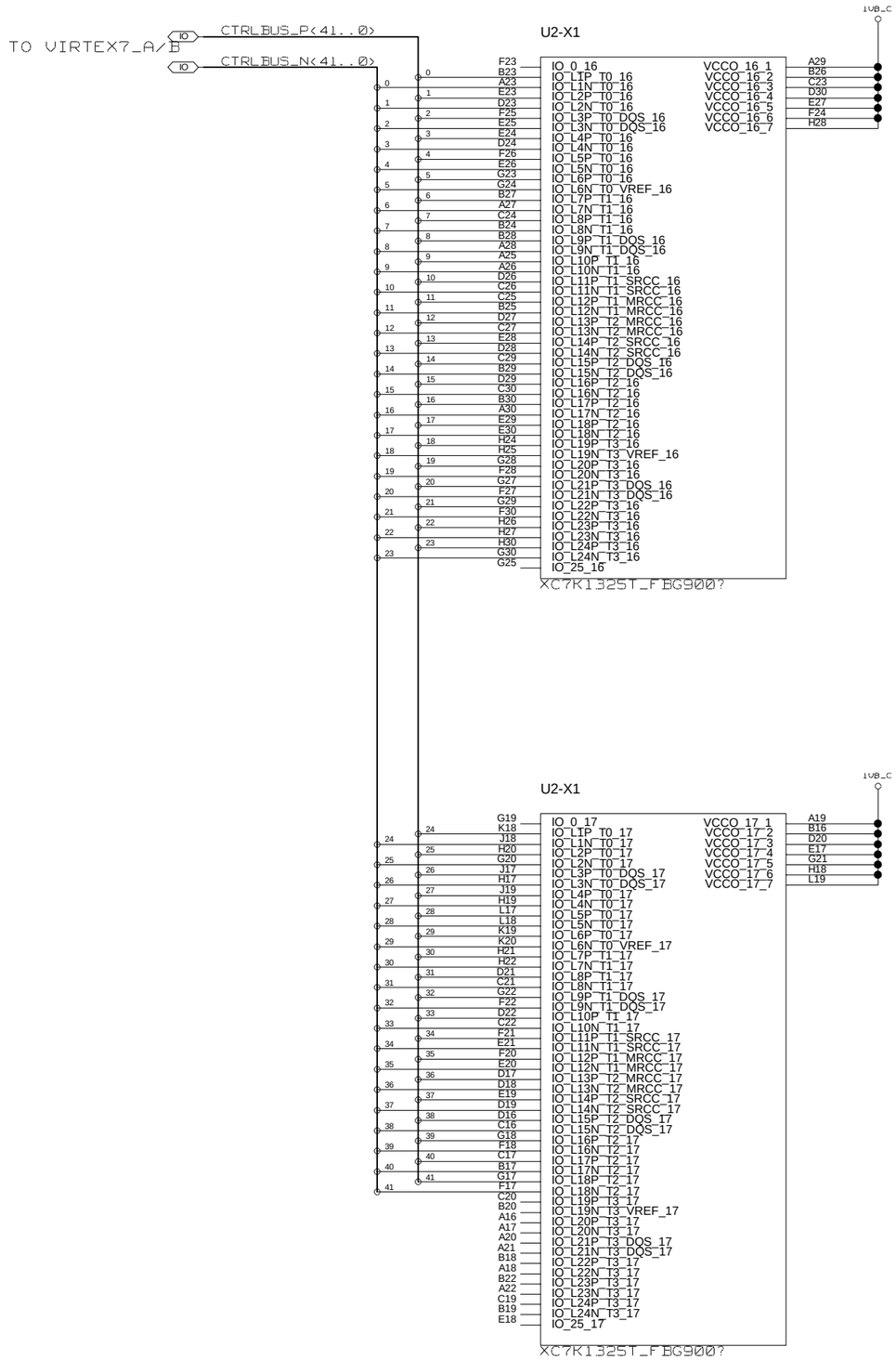
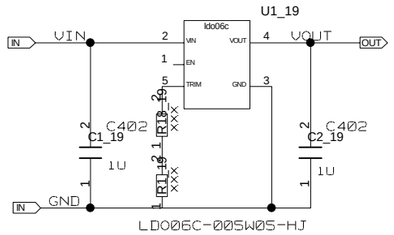
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: CONTROL BUS KINTEX7 ---> VIRTEX7	
BLOCK: CONTROL KINTEX7 CONTROL	SIZE C	REV. / DRAWING NO.
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE	LD006C_POWERSUPPLY	
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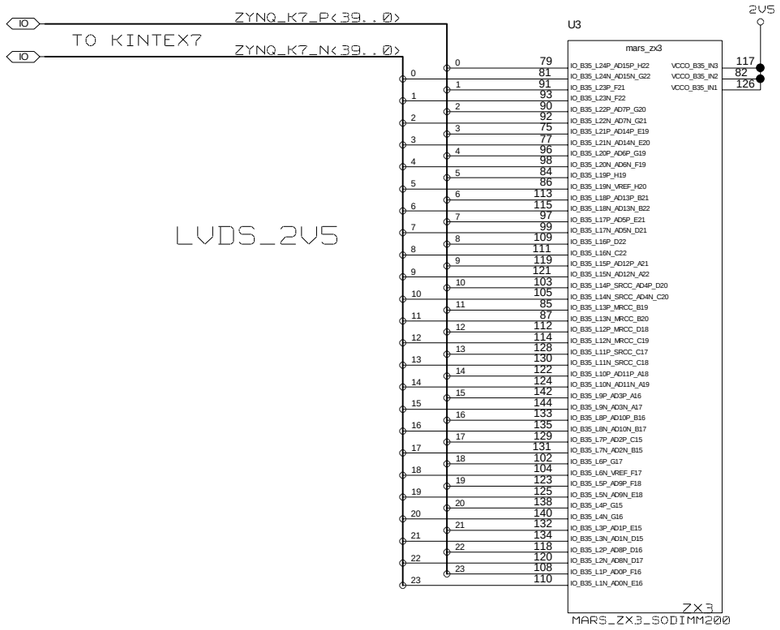
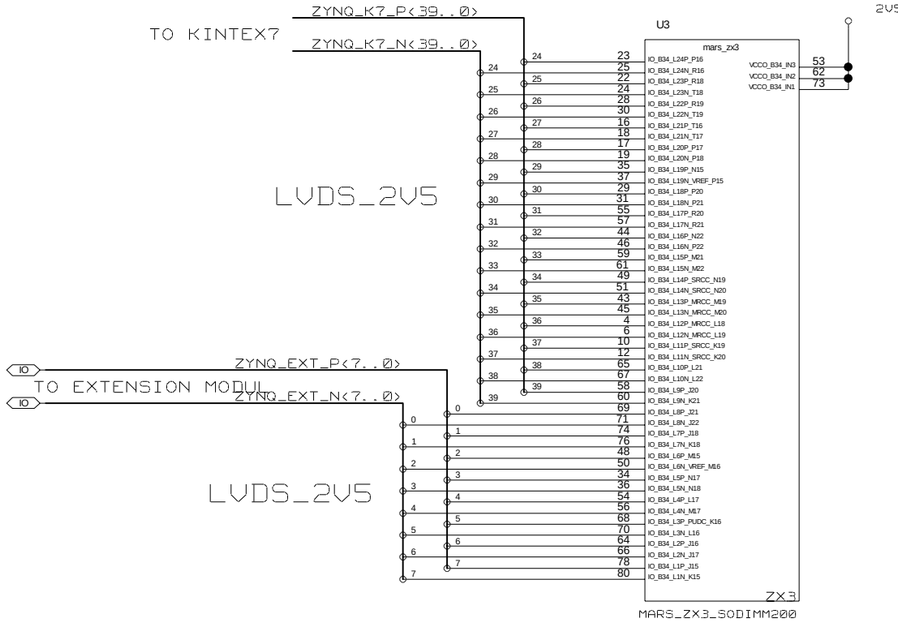
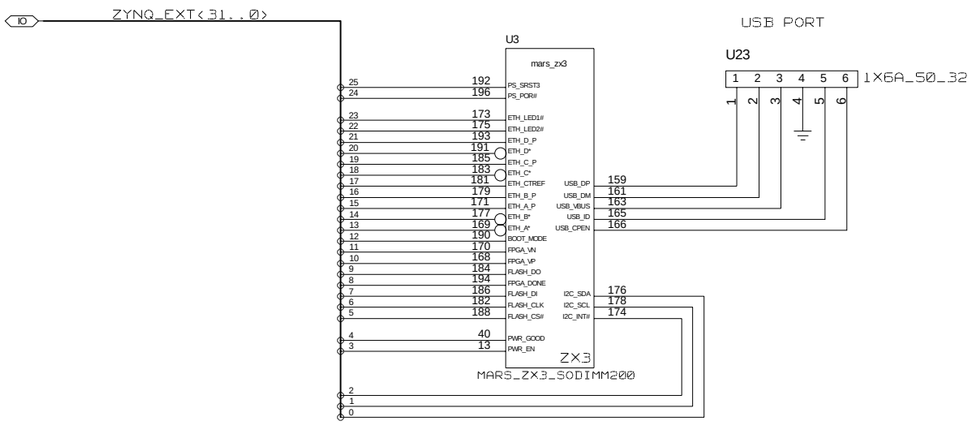
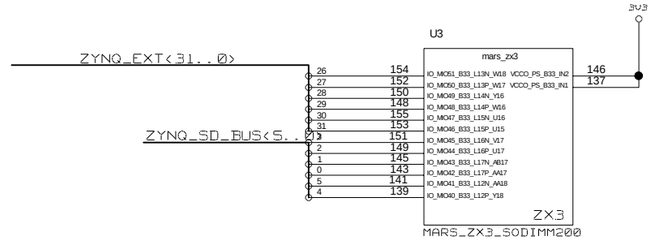
	SCALE		SHEET OF

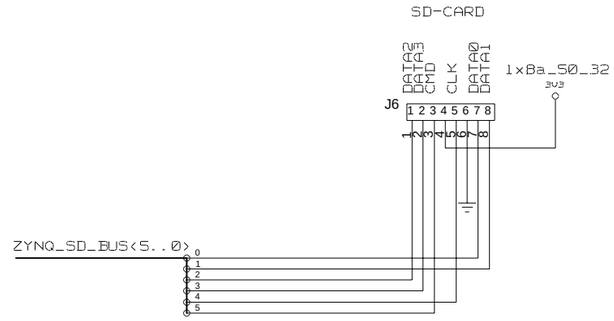
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

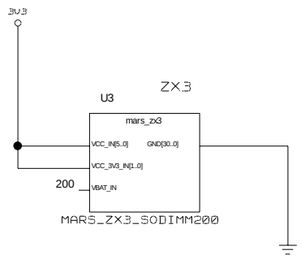


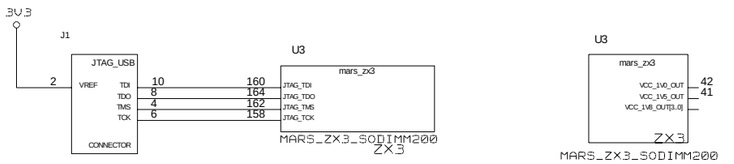












UNIVERSITY OF MAINZ

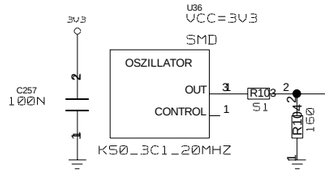
BLOCK: CONTROL
ZYNQ_MARS_ZX3

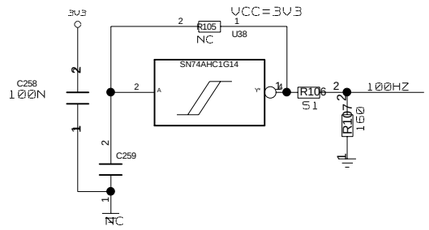
DRAWING TITLE

MARS_ZX3

SIZE	REV.	DRAWING NO.
C		
SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.





UNIVERSITY OF MAINZ	DRAWING TITLE: CPLD		
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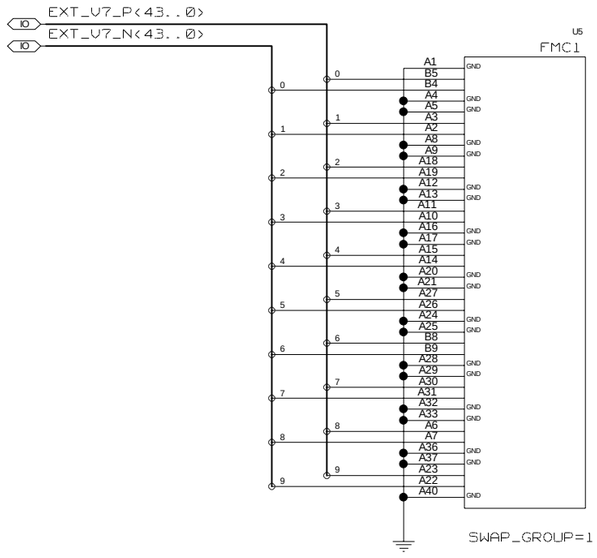
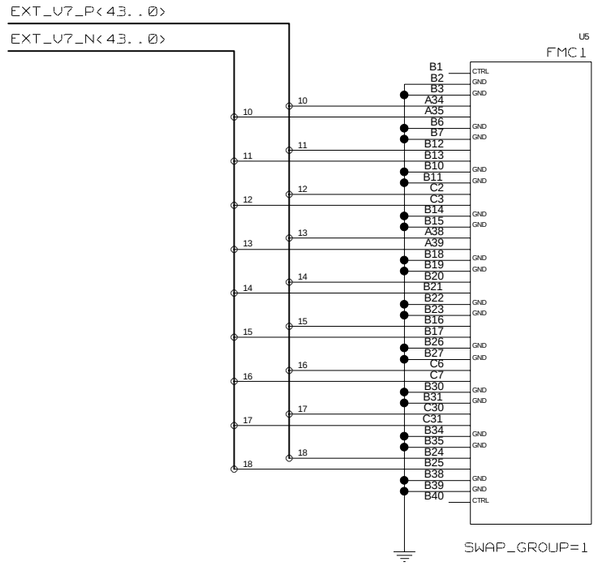
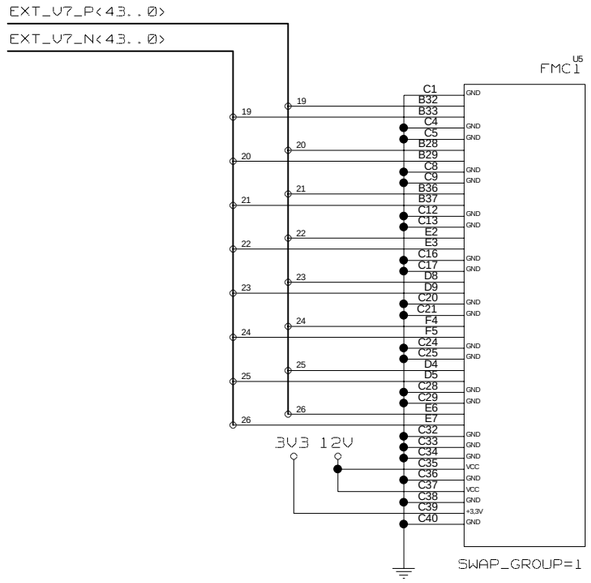
	SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.







UNIVERSITY OF MAINZ	DRAWING TITLE: EXTENSION MODUL	
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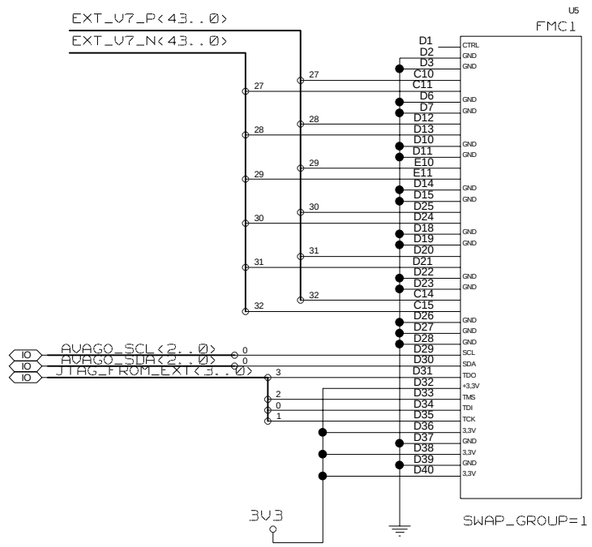
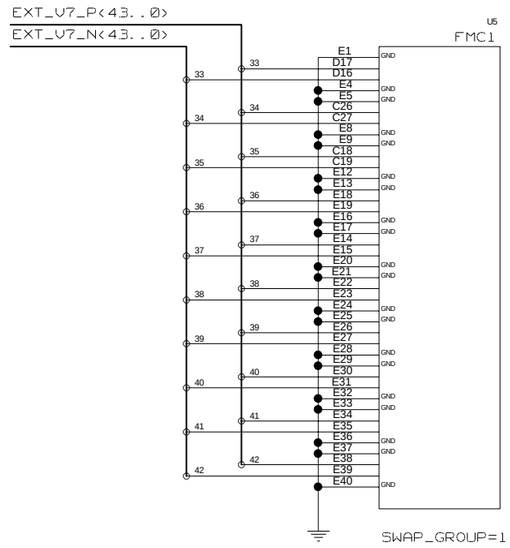
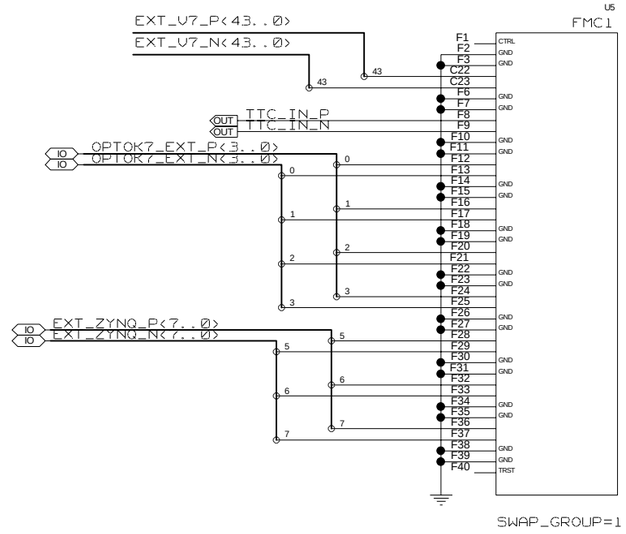
	SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.







UNIVERSITY OF MAINZ		DRAWING TITLE: EXTENSION MODUL	
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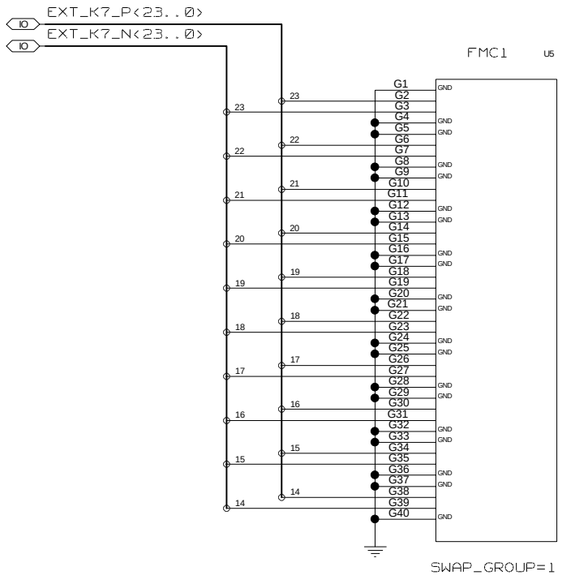
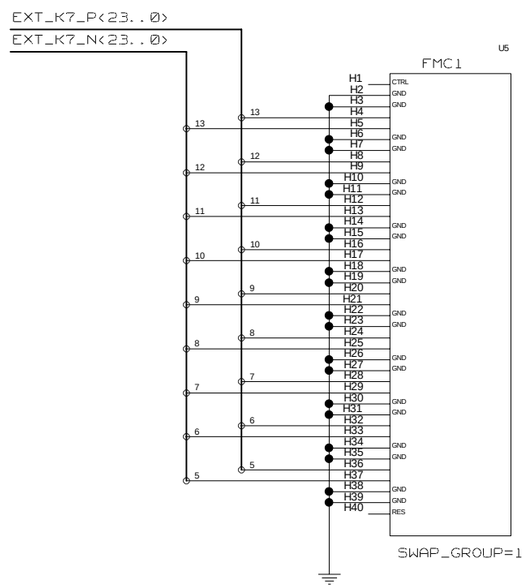
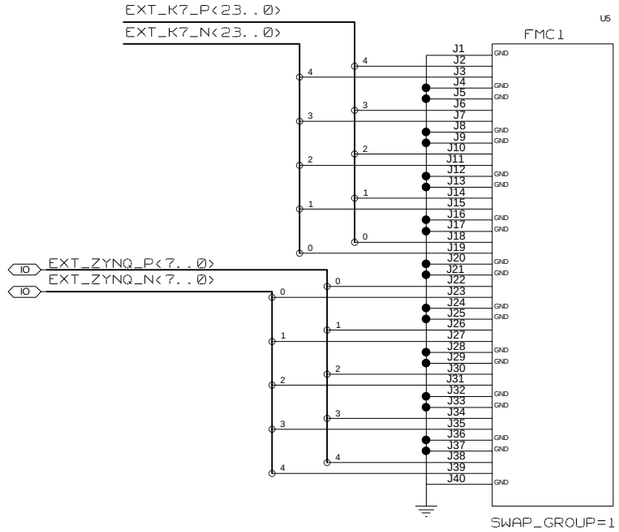
ZONE	LTR	DESCRIPTION	DATE	APPR.







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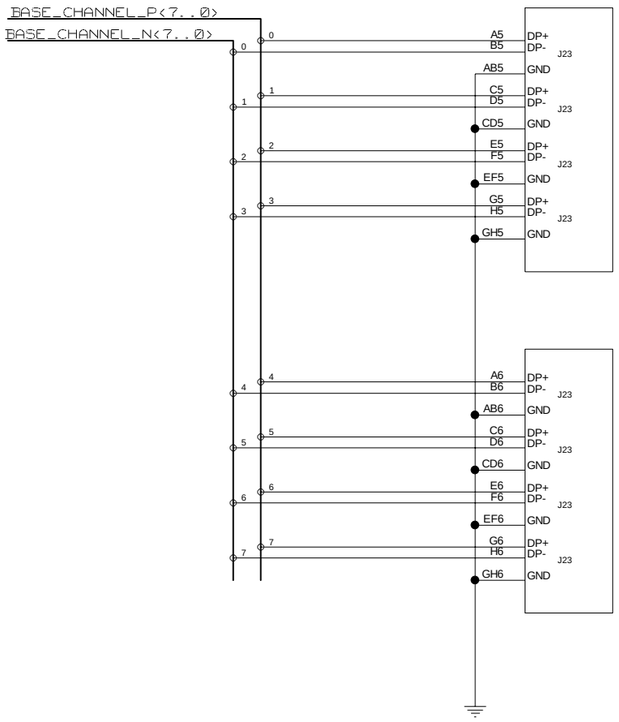
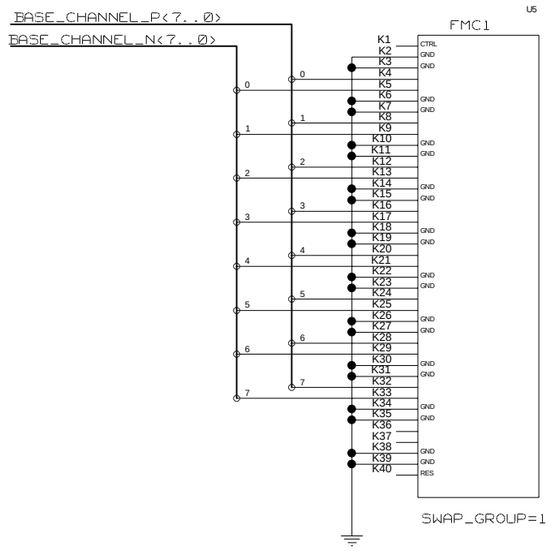
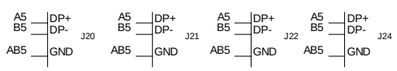
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

BACKPLANE







UNIVERSITY OF MAINZ	DRAWING TITLE: EXTENSION MODUL		
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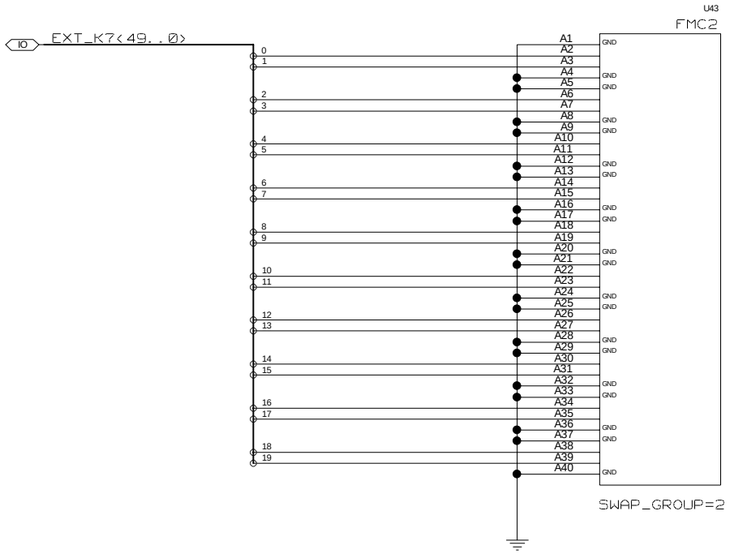
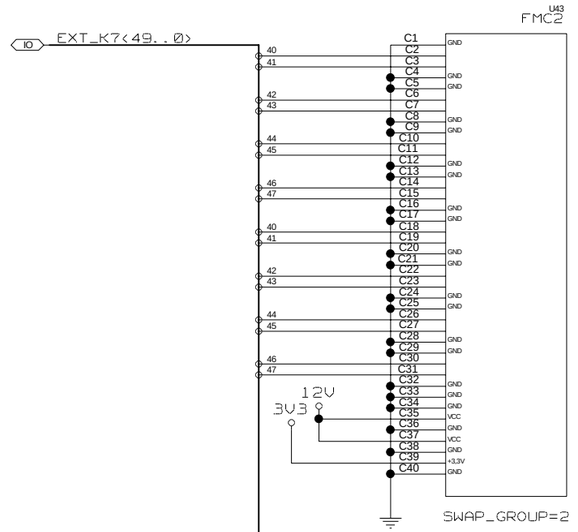
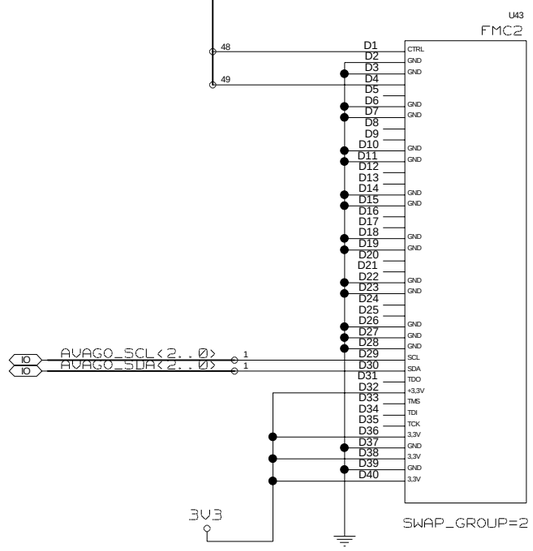
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.







UNIVERSITY OF MAINZ	DRAWING TITLE: EXTENSION MODUL		
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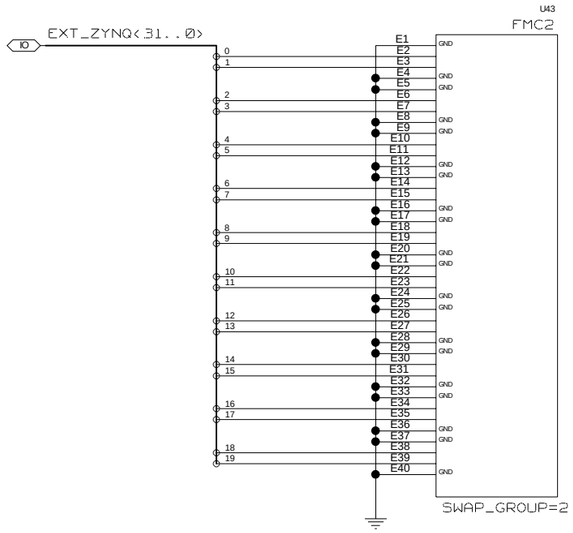
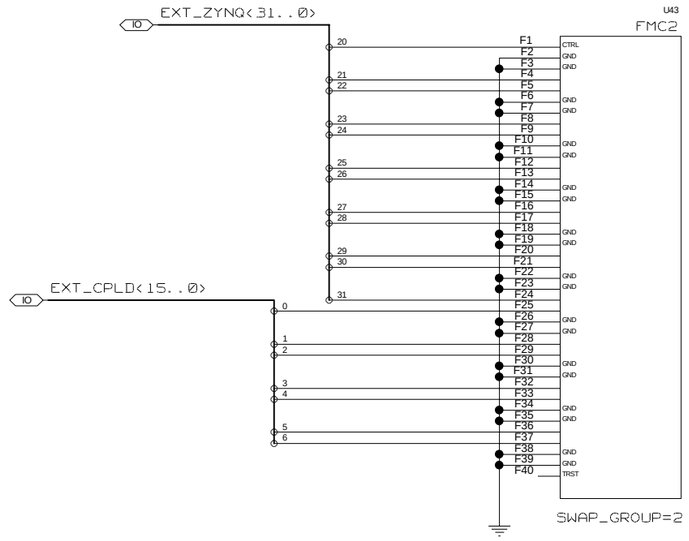
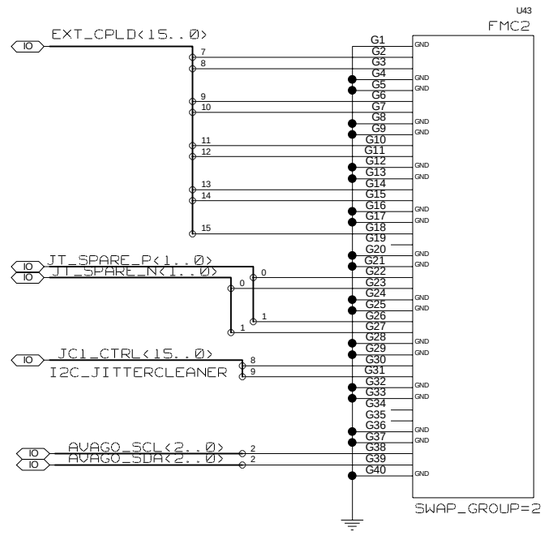
	SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.







UNIVERSITY OF MAINZ	DRAWING TITLE: EXTENSION MODUL		
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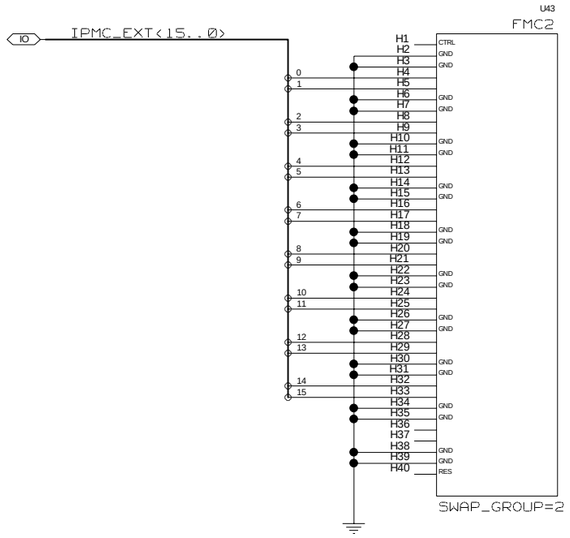
	SCALE		SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ		DRAWING TITLE: EXTENSION MODUL	
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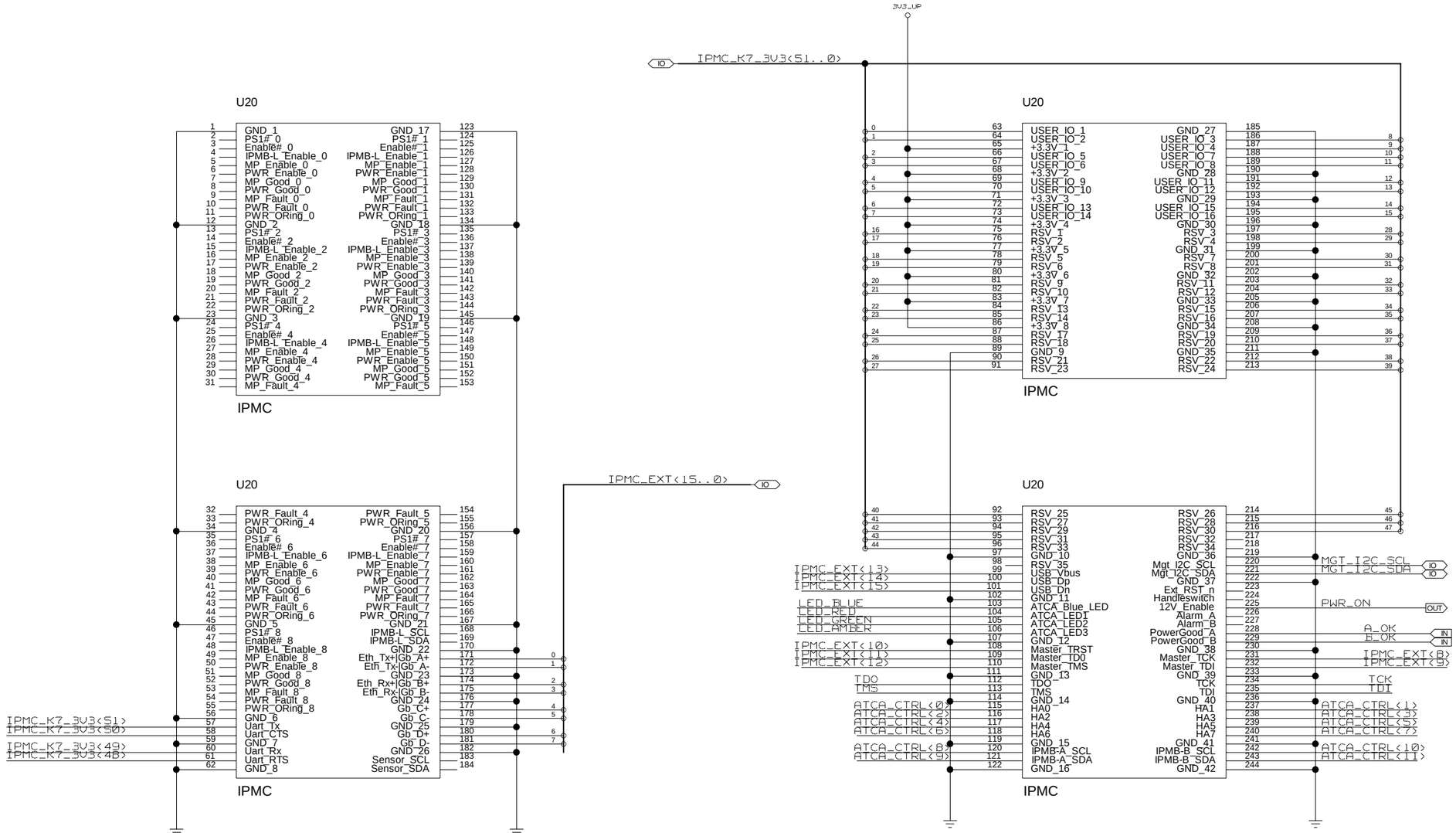
		SCALE	SHEET OF

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



UNIVERSITY OF MAINZ	DRAWING TITLE: ATCA CONTROL
BLOCK: CONTROL IPMC	SIZE: C REV. DRAWING NO. SCALE SHEET OF