

NOTE: PLEASE REVIEW THE ML410 BOM FOR ITEMS DESIGNATED AS "NOSTUFF".

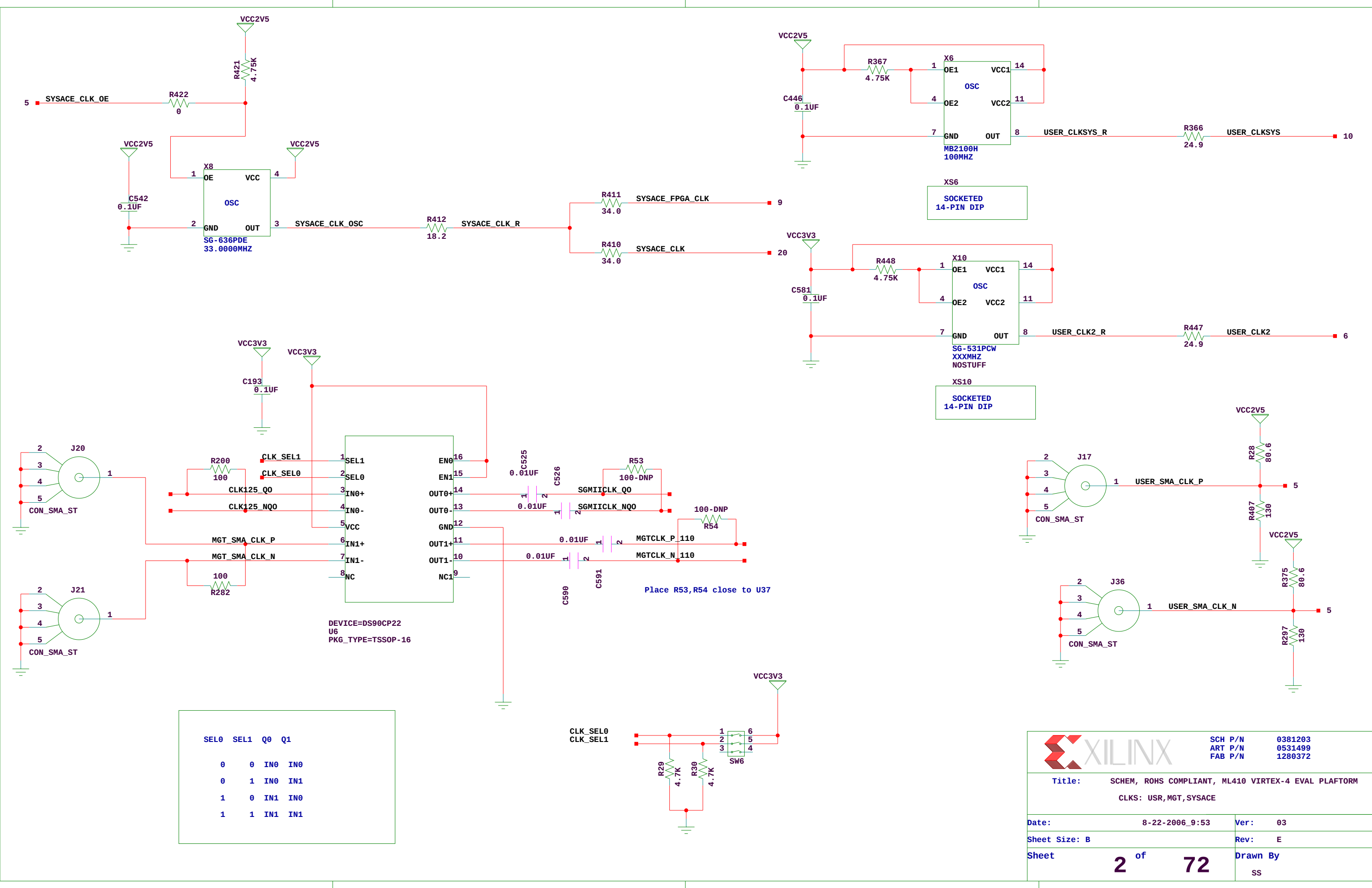
NOSTUFF ITEMS ARE NOT POPULATED ON THE PCB.

THE ML410 BOM CONTAINS THE MOST ACCURATE INFORMATION ABOUT

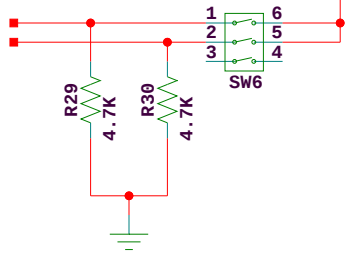
NOSTUFF DISCRETES AND COMPONENTS.

XILINX PART NUMBERS	
SCHEMATICS	0381203
PCB ARTWORK	0531499
PCB FABRICATION	1280372

		SCH P/N	0381203
		ART P/N	0531499
		FAB P/N	1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLAFTORM TABLE OF CONTENTS			
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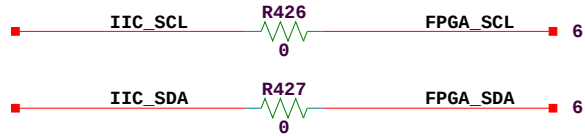
SEL0	SEL1	Q0	Q1
0	0	IN0	IN0
0	1	IN0	IN1
1	0	IN1	IN0
1	1	IN1	IN1



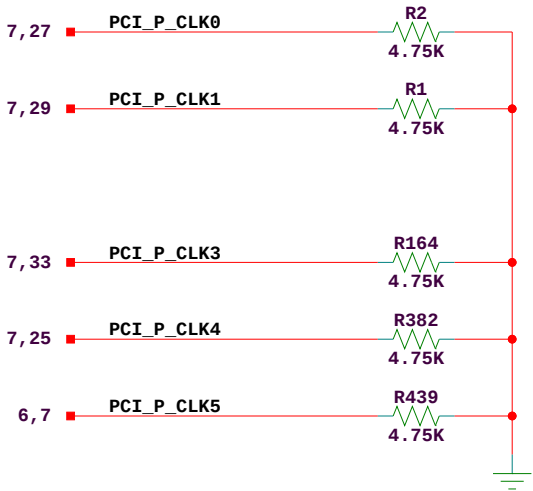
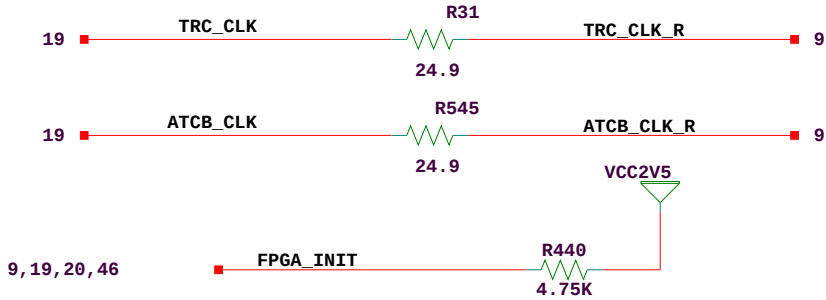
SCH P/N 0381203
ART P/N 0531499
FAB P/N 1280372

Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLATFOrm
CLKS: USR,MGT,SYSACE

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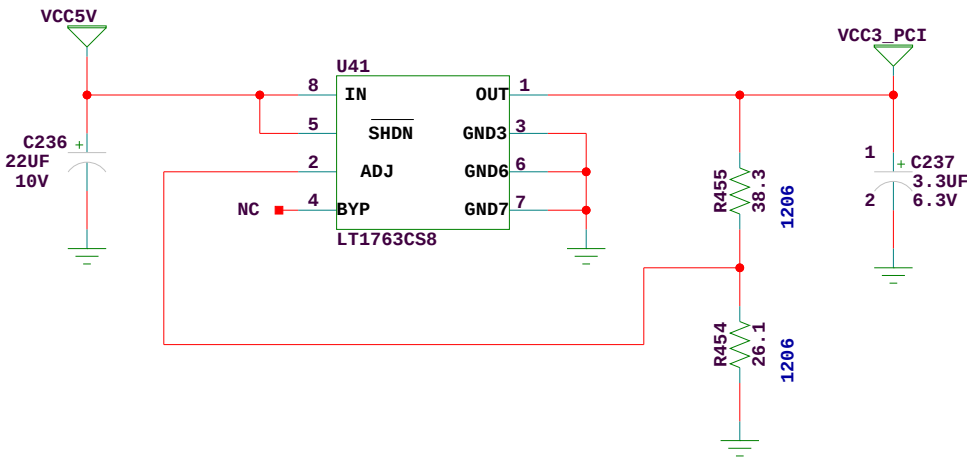
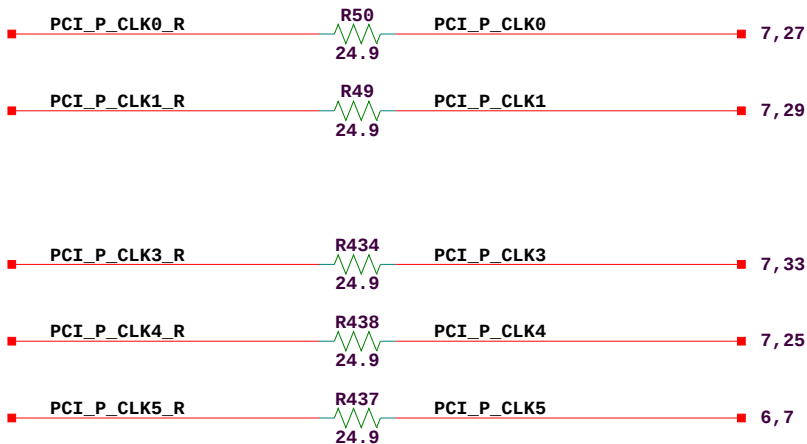


NOTE: TRC_CLK RESISTOR ALLOWS CLOCK TERMINATION
TO BE ADJUSTED INDEPENDENTLY OF OTHER I/O.



NOTE: THE PCI SPEC RECOMMENDS THAT
CLOCKS BE PULLED LOW WHEN THE
BUS IS NOT ACTIVELY CLOCKED.

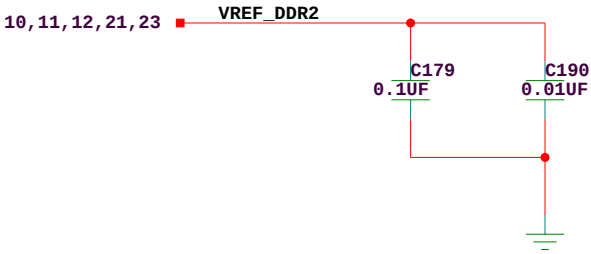
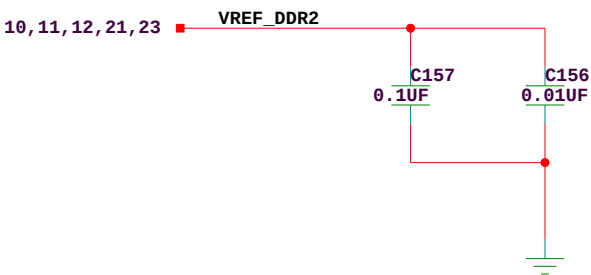
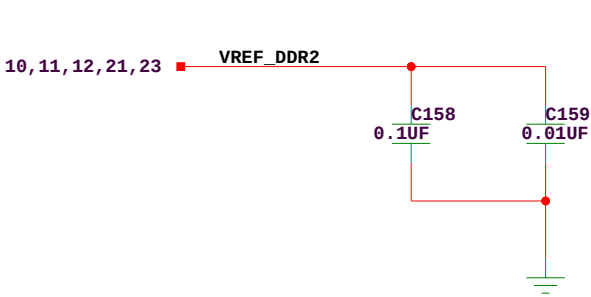
NOTE: PCI_CLK RESISTORS ALLOW CLOCK TERMINATION
TO BE ADJUSTED INDEPENDENTLY OF OTHER I/O.



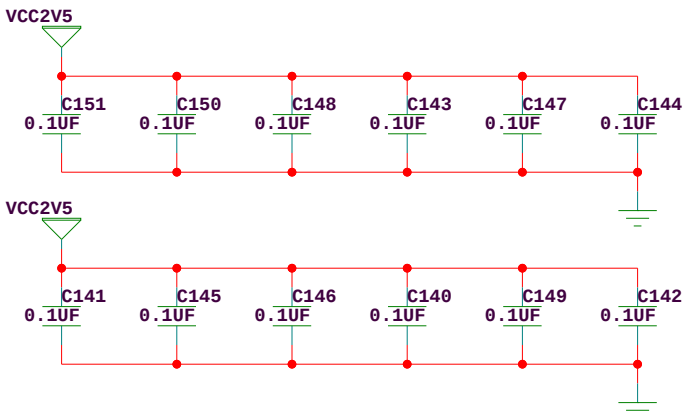
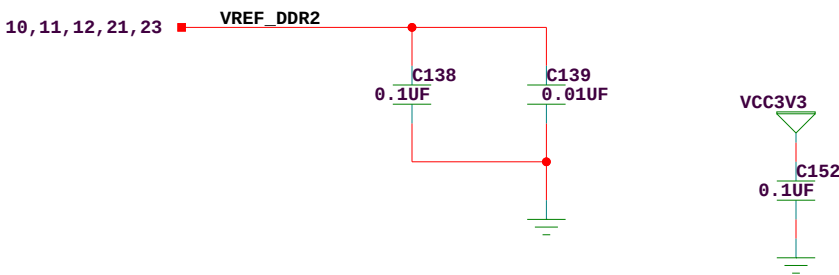
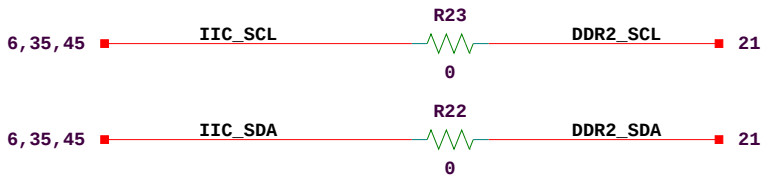
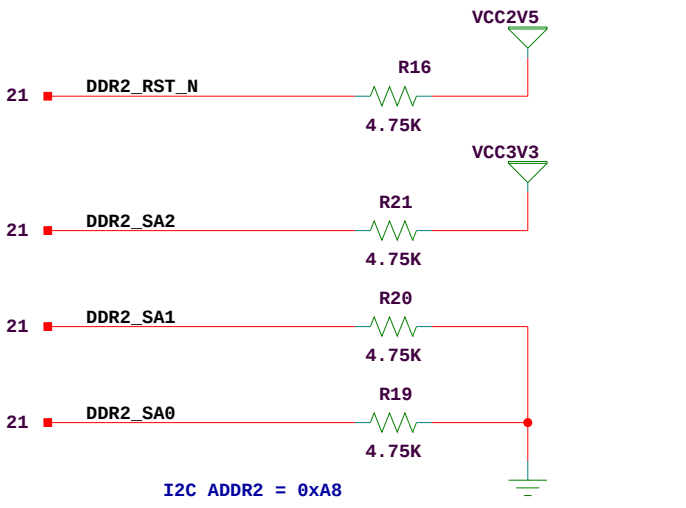
NOTE: THE COMPONENT VALUES FOR THIS REGULATOR ARE TAKEN
FROM XAPP653. THIS DESIGN IS INTENDED TO SINK CURRENT
THROUGH THE 1206 RESISTORS WHEN THE CLAMP DIODES ON
THE FPGA ARE CONDUCTING DURING OVERSHOOT. THIS IS WHY
THE VALUES ARE UNUSUAL RELATIVE TO THE LT1763 DATASHEET.



		SCH P/N	0381203
		ART P/N	0531499
		FAB P/N	1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLATFORM PCI_SUPPLY			
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NOTE: THE PINOUT OF THE DDR2 DQ AND DQS SIGNALS IS INTENDED TO ALLOW THE USE OF LOCAL CLOCKING RESOURCES AS DESCRIBED IN XAPP609.





SCH P/N0381203

ART P/N0531499

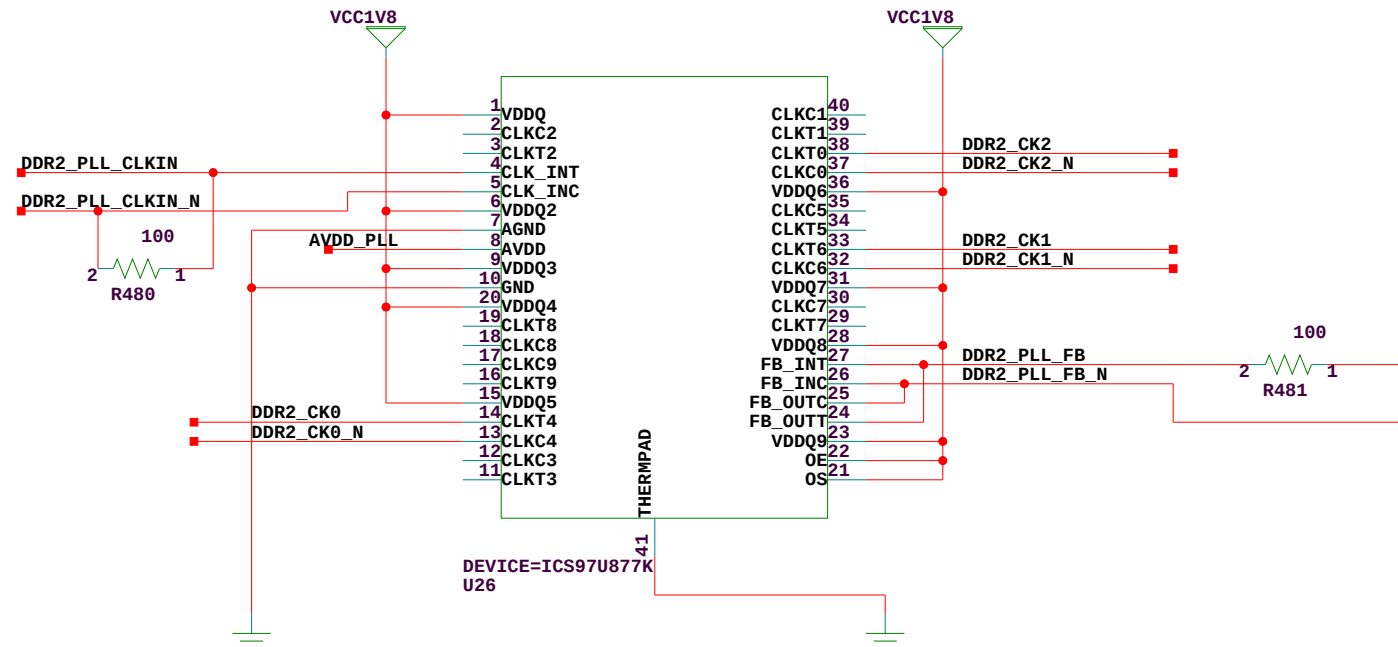
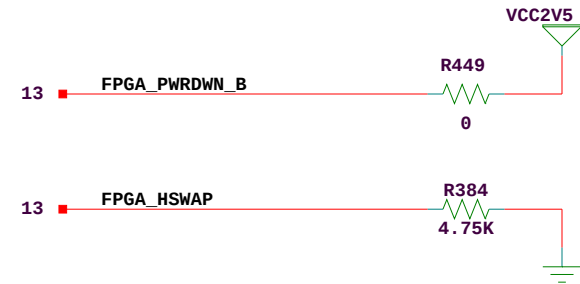
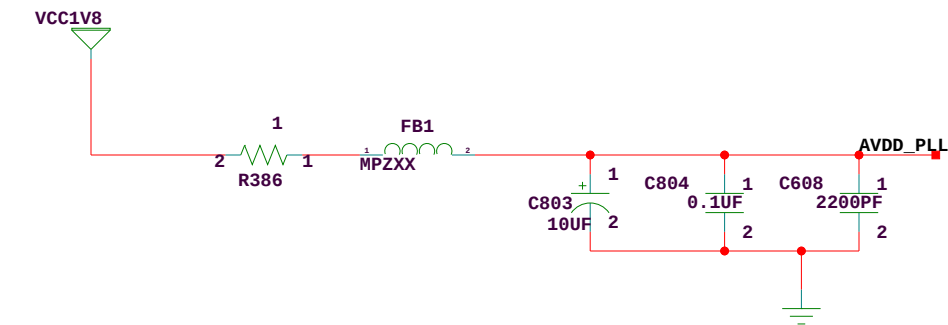
FAB P/N1280372

Title:

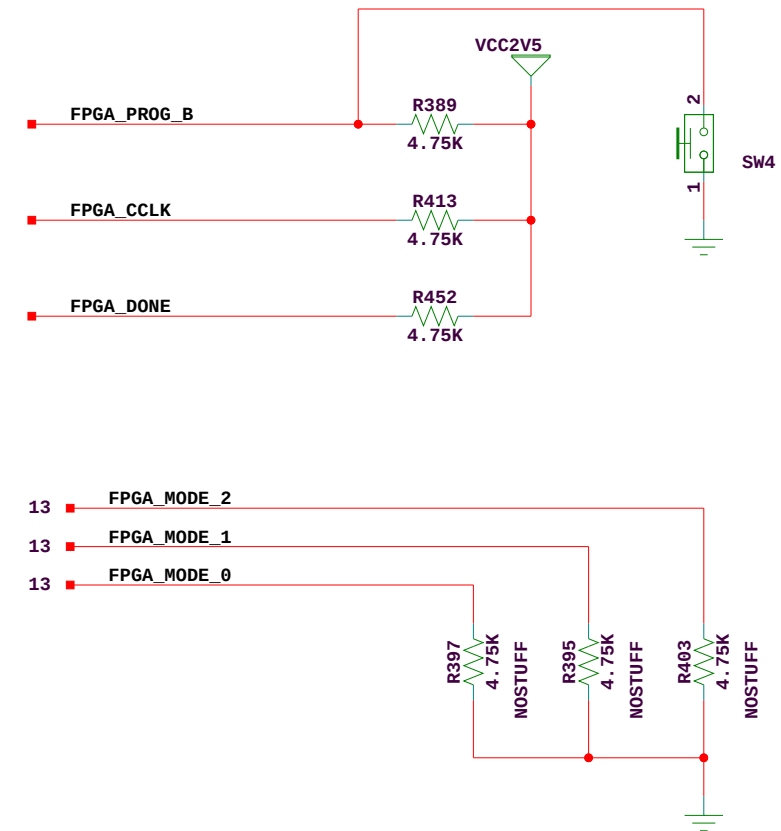
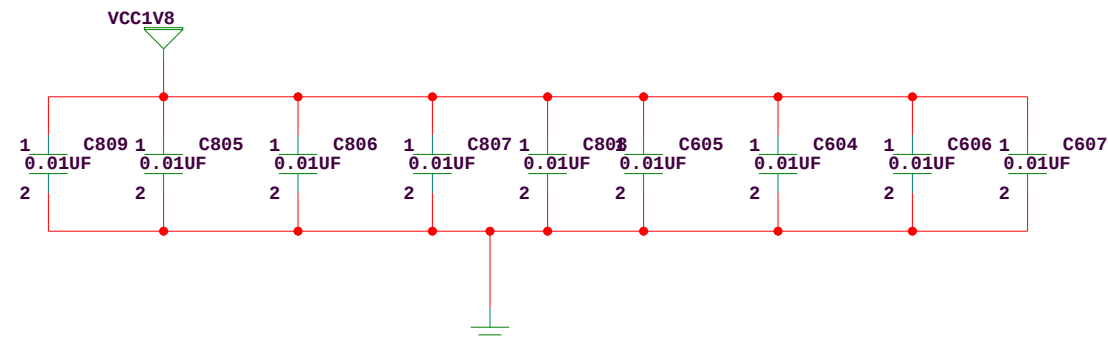
SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLAFTRM

DDR2 DECOUPLING

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All DDR2_CK* to be length matched
DDR2_PLL_FB* to be length matched to DDR2_CK*



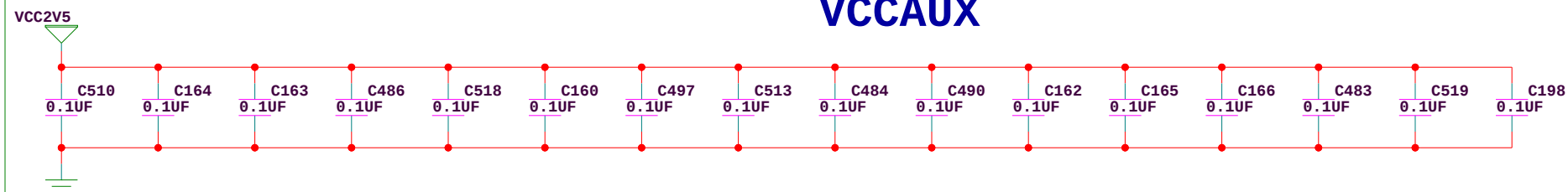
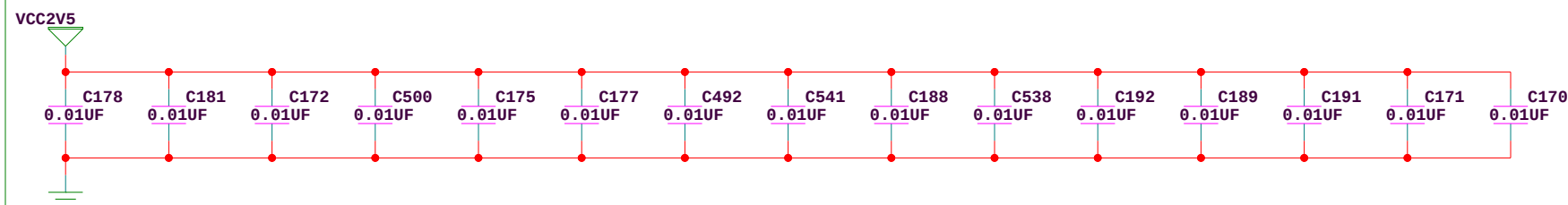
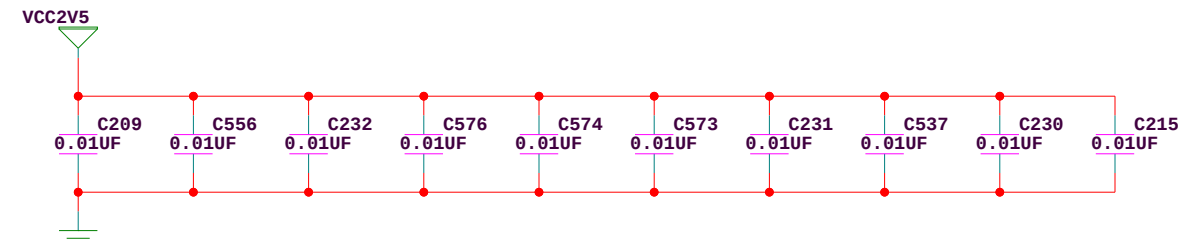
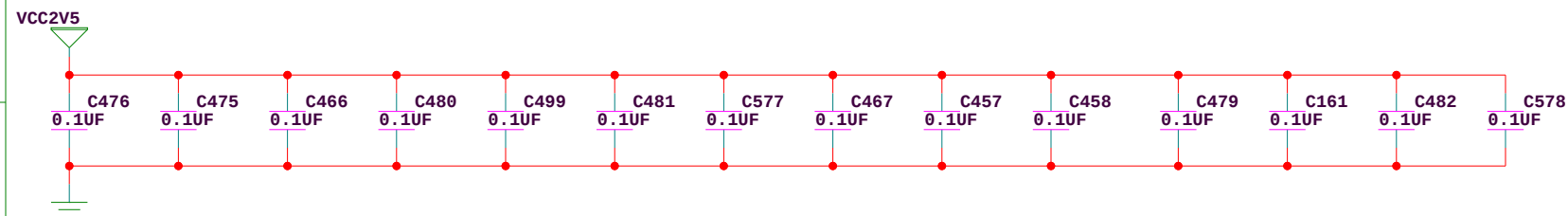
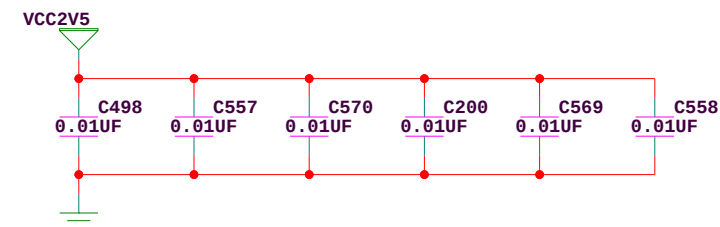
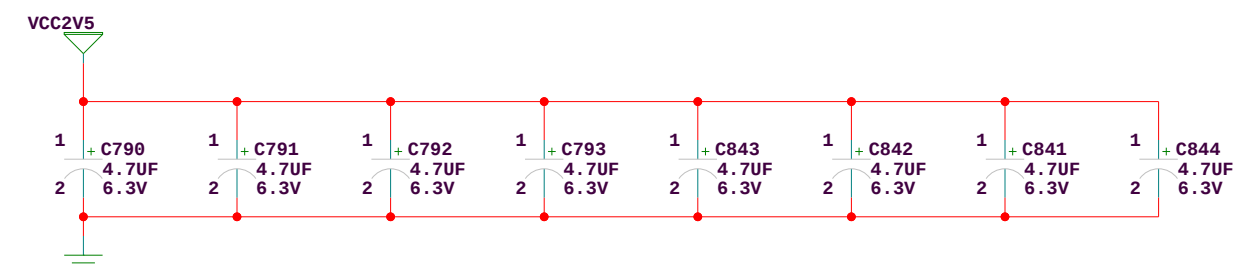
NOTE: MODE BITS HAVE INTERNAL PULLUPS AND DEFAULT
TO SLAVE-SERIAL MODE. THERE MAY BE SOME
CONFLCITS BETWEEN THE JTAG MODES AND ICAP
HOWEVER SLAVE-SERIAL MODE IS KNOWN TO WORK.



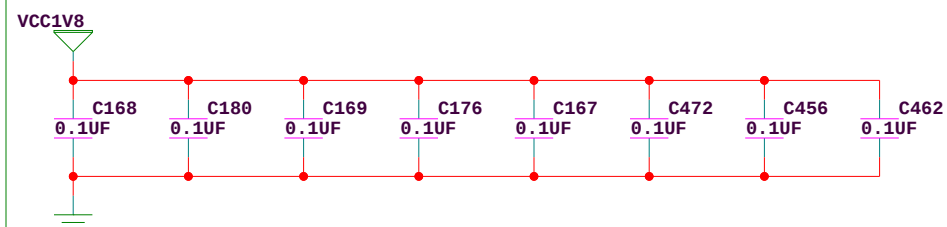
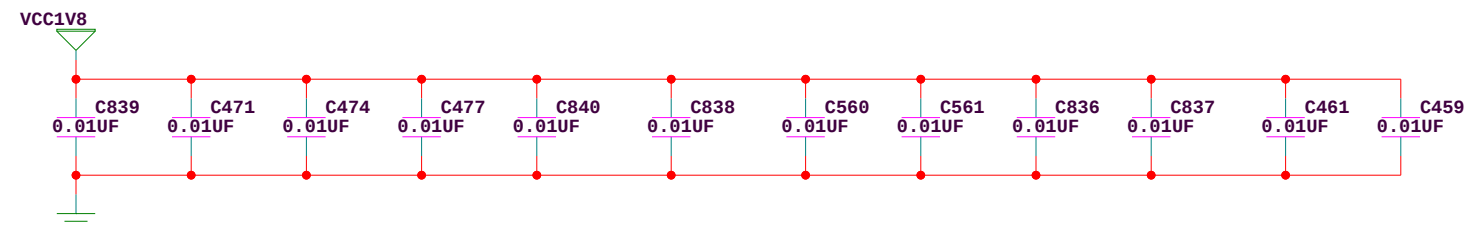
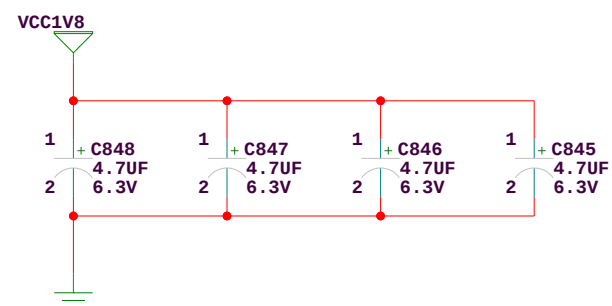
SCH P/N 0381203
ART P/N 0531499
FAB P/N 1280372

Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLATFOrm
FPGA CONFIG AND MISC I/O

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**VCCAUX**

BANK 1, 2, 3, 4, 5, 7, 8, 9, 11



SCH P/N	0381203
ART P/N	0531499
FAB P/N	1280372

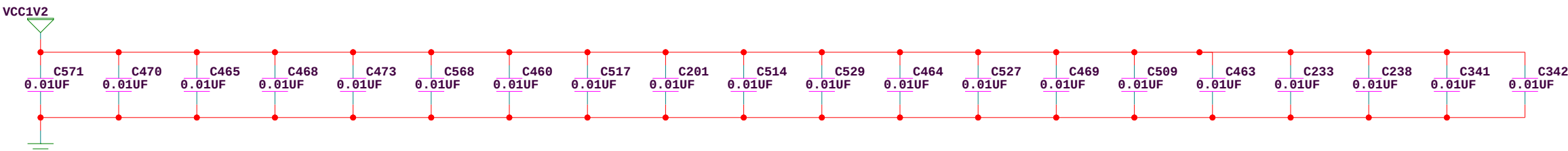
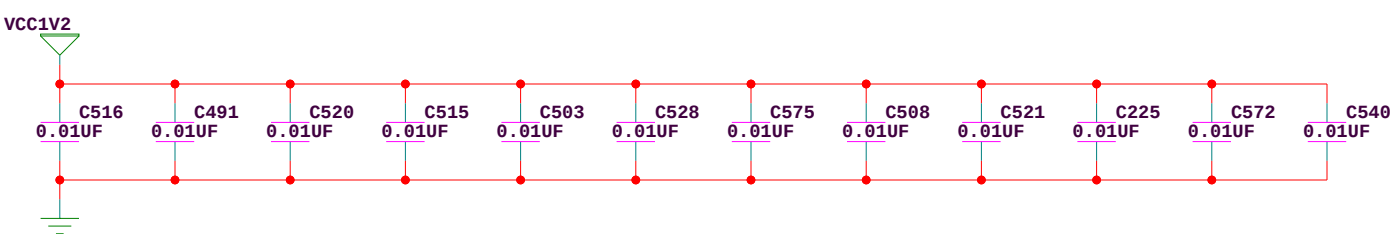
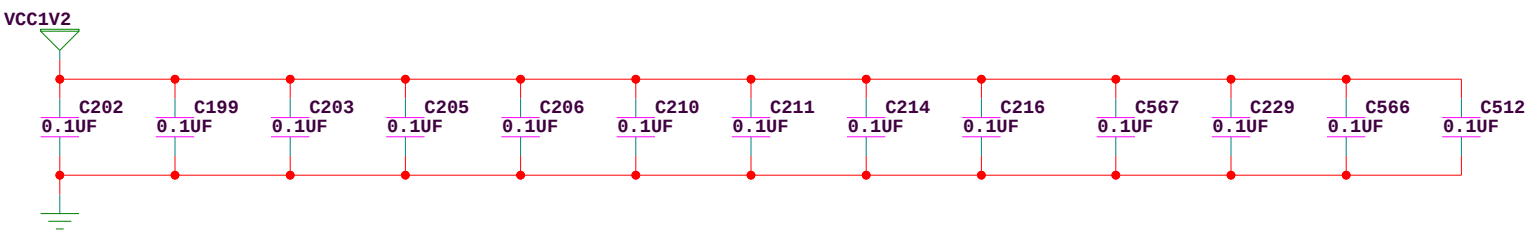
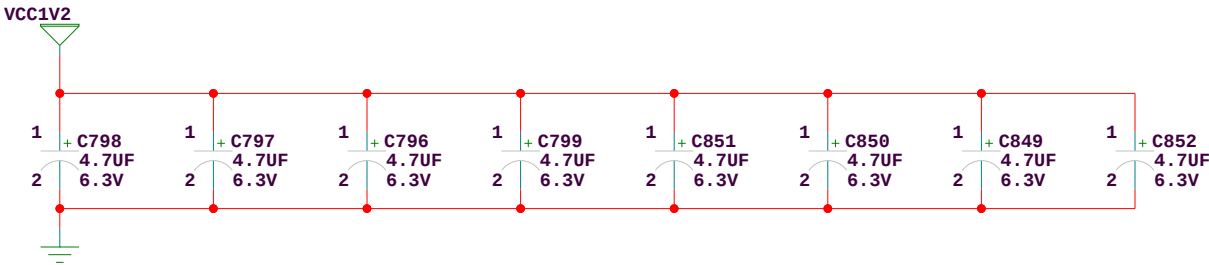
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLAFORM
FPGA DECOUPLING

Date:	8-22-2006_9:53	Ver:	03
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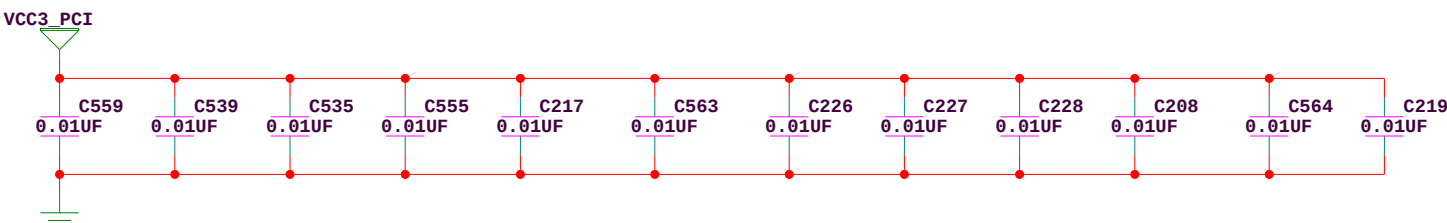
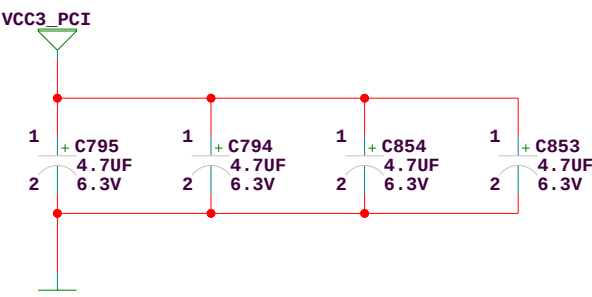
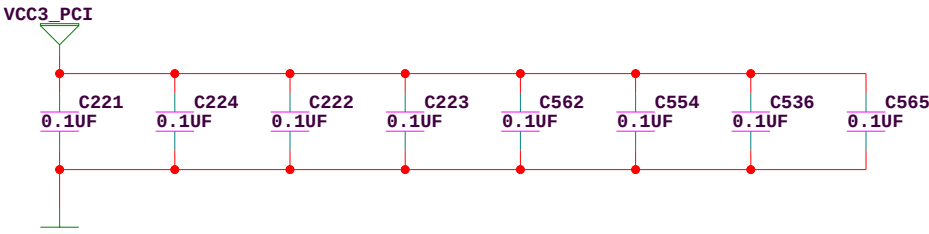
Sheet Size: B	Rev: E
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Sheet	6 of 72	Drawn By
		SS

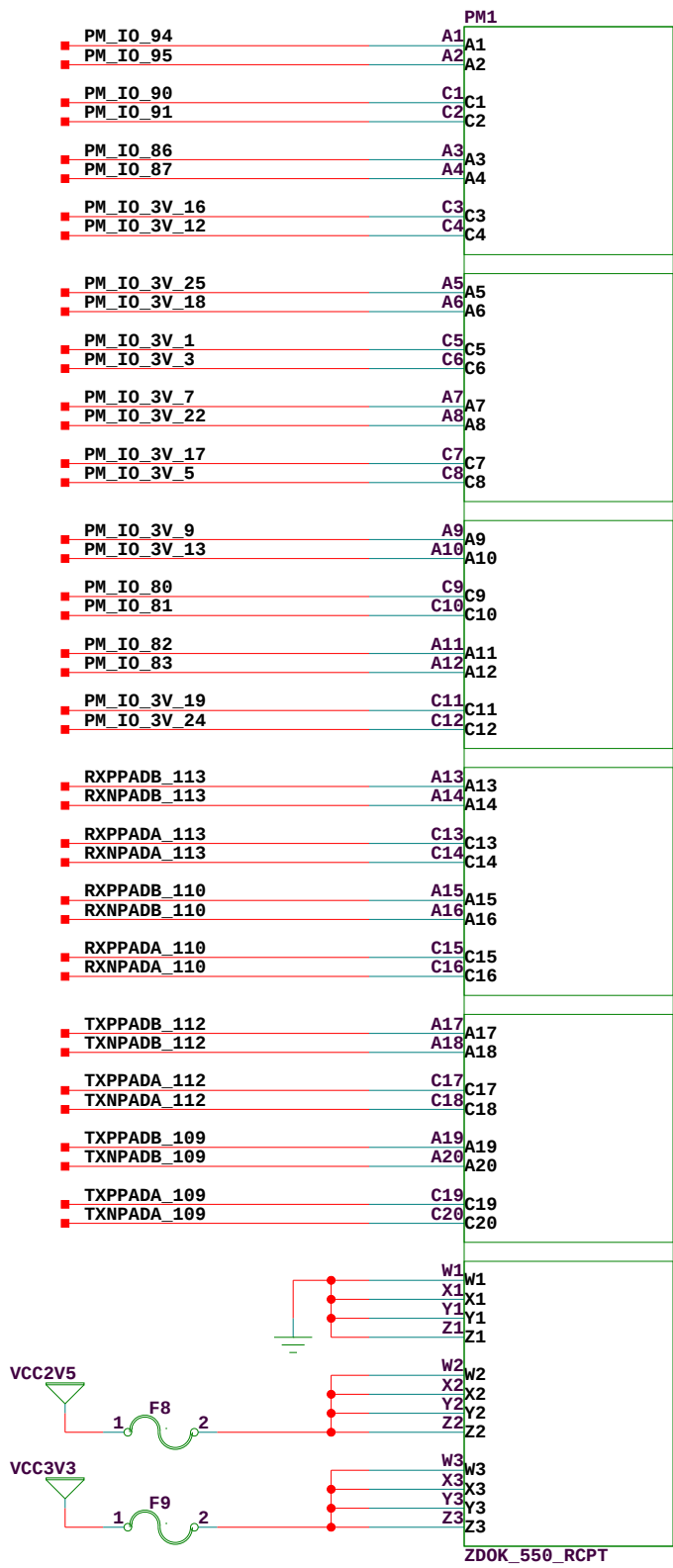
VCORE



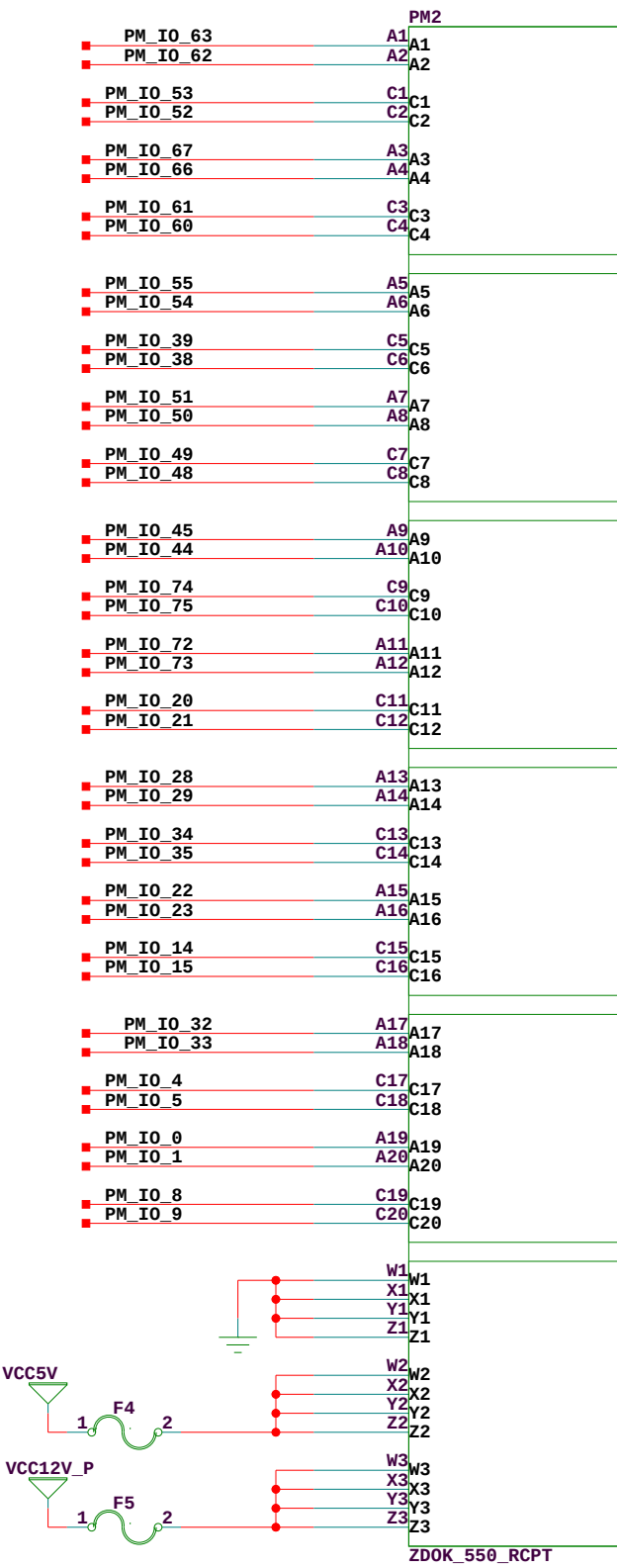
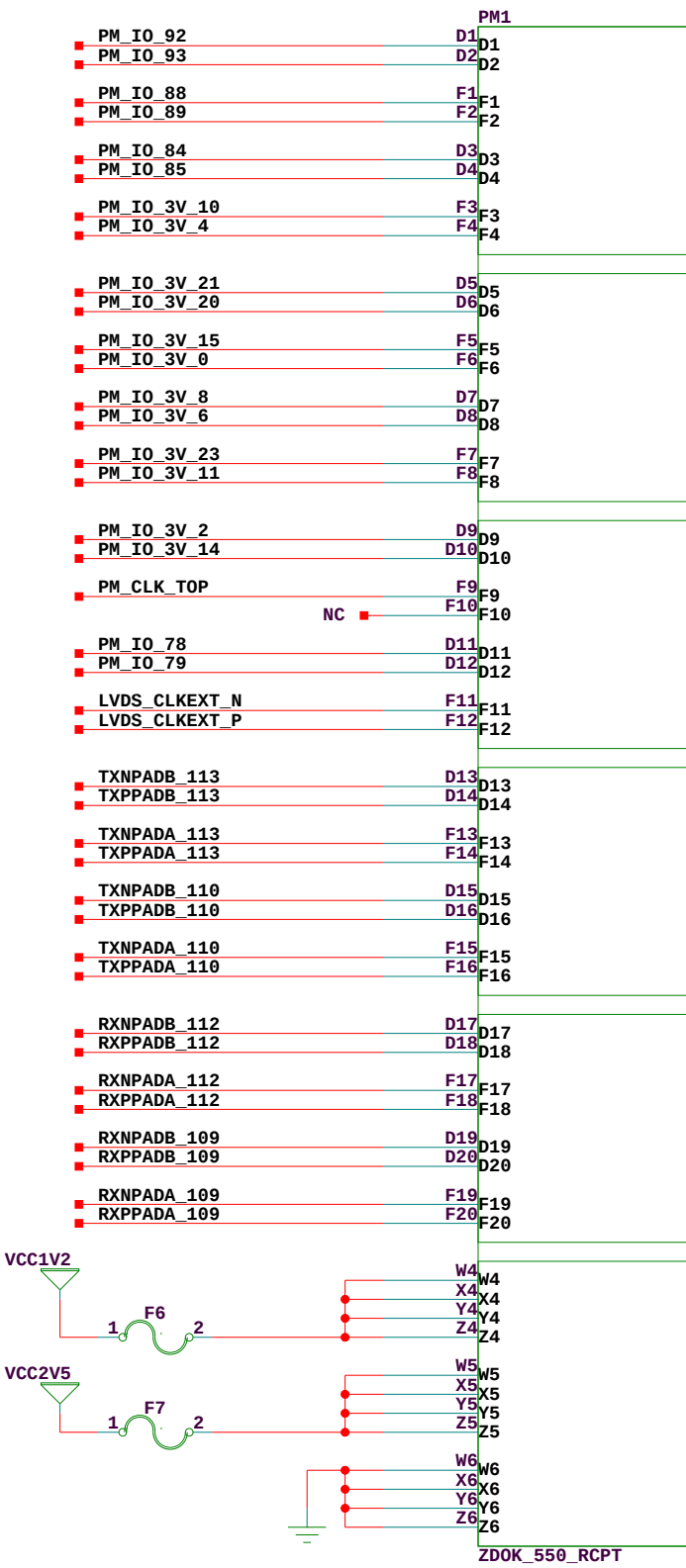
BANK 6,10,12



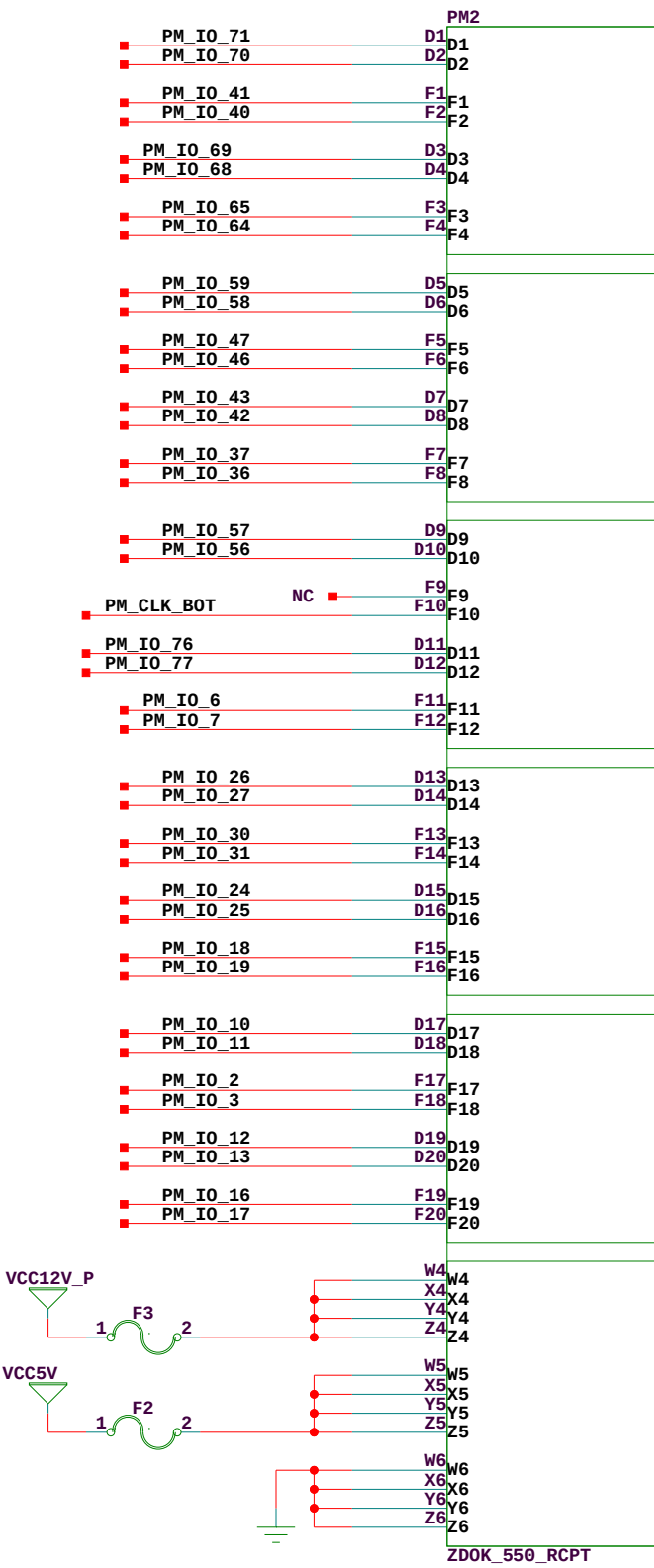
		SCH P/N	0381203
		ART P/N	0531499
		FAB P/N	1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLAFTORM FPGA DECOUPLING			
Date:	8-22-2006_9:53	Ver:	03
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GND; B1, B2, B3, B4, B5
GND; B6, B7, B8, B9, B10
GND; B11, B12, B13, B14, B15
GND; B16, B17, B18, B19, B20
GND; E1, E2, E3, E4, E5
GND; E6, E7, E8, E9, E10
GND; E11, E12, E13, E14, E15
GND; E16, E17, E18, E19, E20



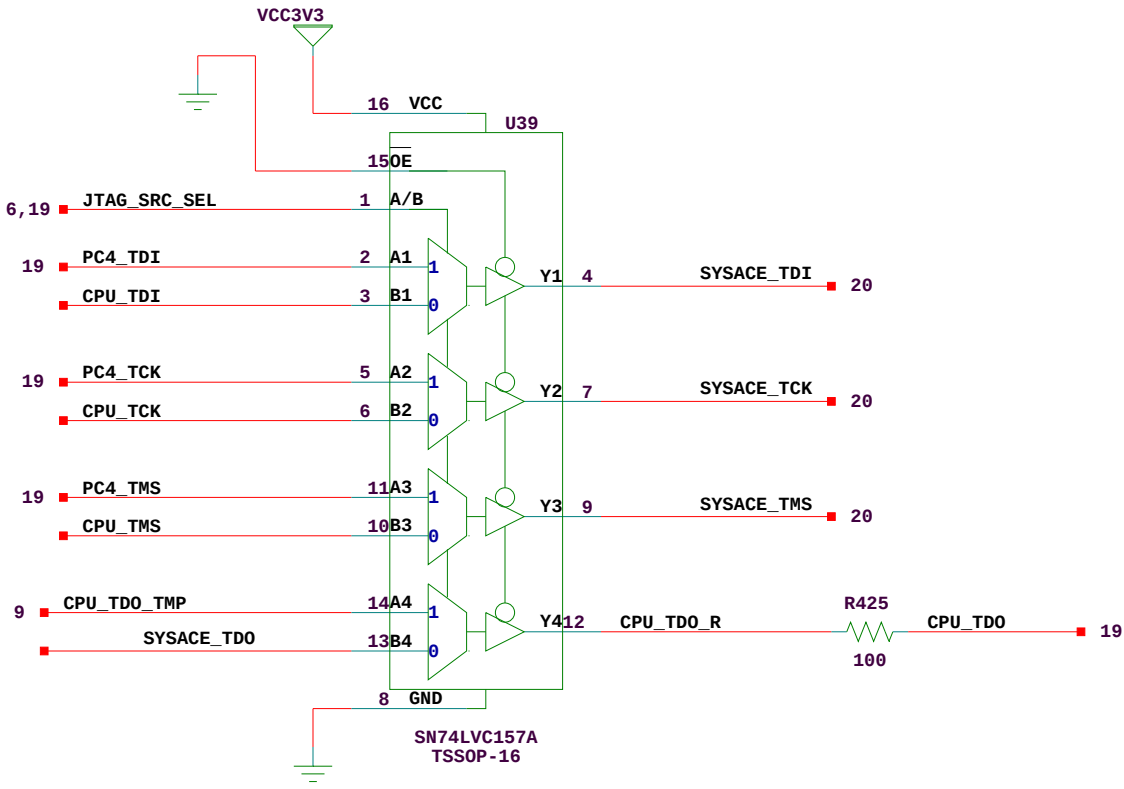
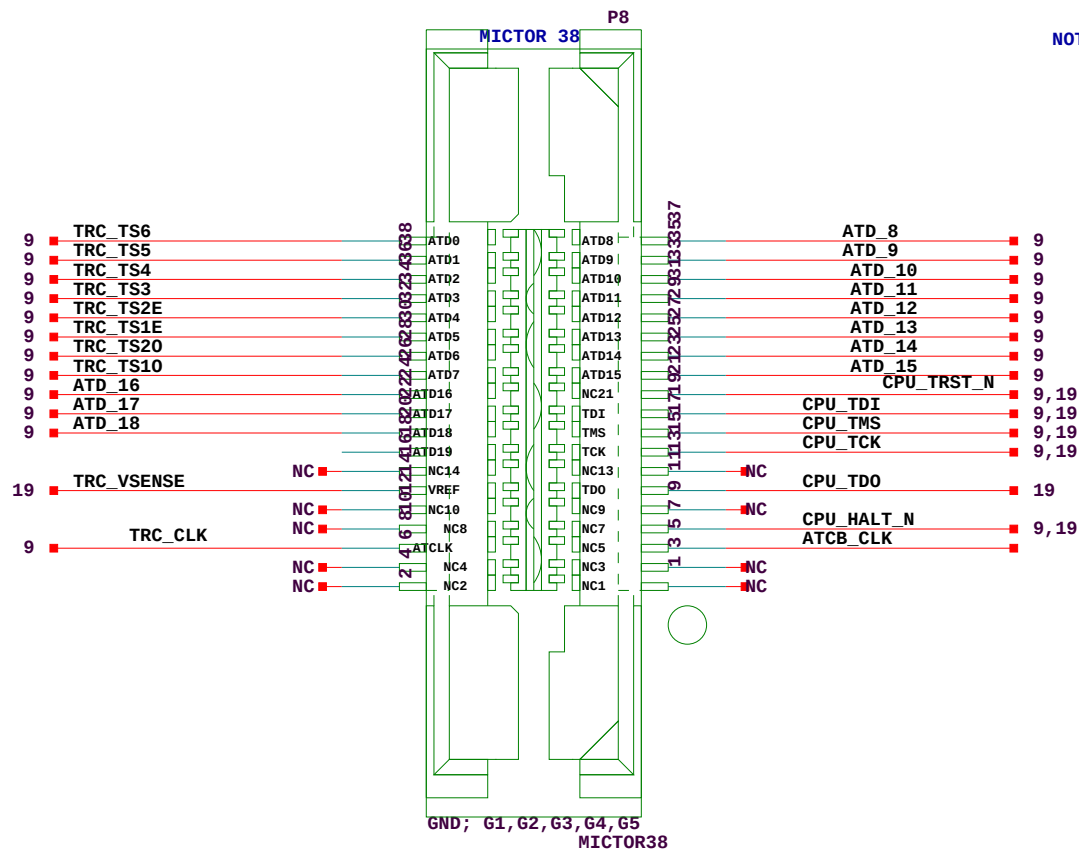
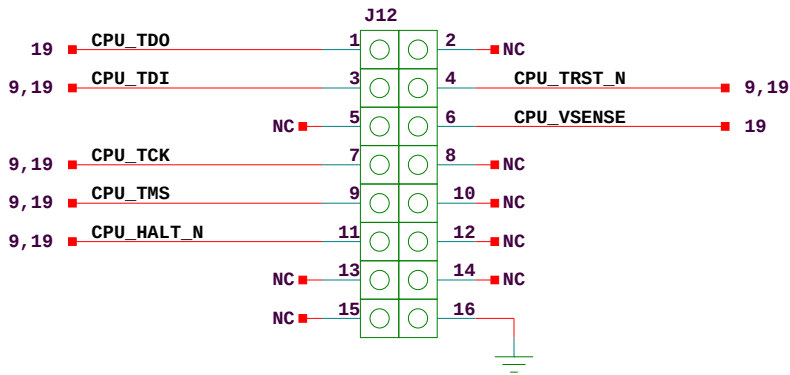
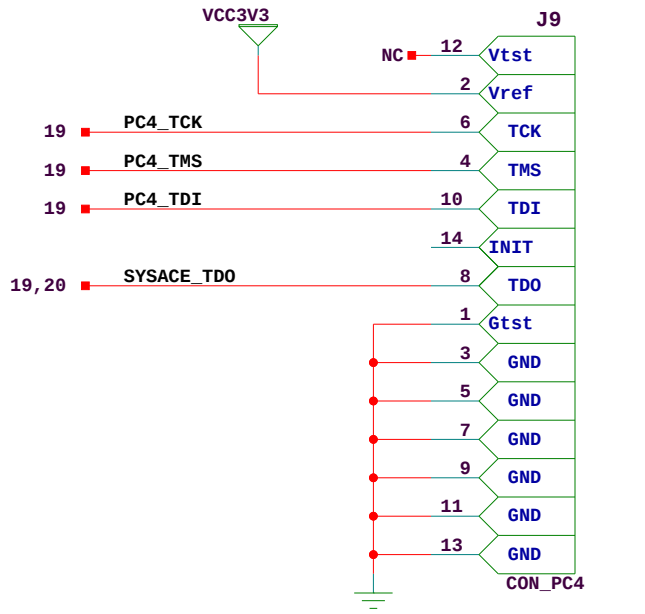
GND; B1, B2, B3, B4, B5
GND; B6, B7, B8, B9, B10
GND; B11, B12, B13, B14, B15
GND; B16, B17, B18, B19, B20
GND; E1, E2, E3, E4, E5
GND; E6, E7, E8, E9, E10
GND; E11, E12, E13, E14, E15
GND; E16, E17, E18, E19, E20



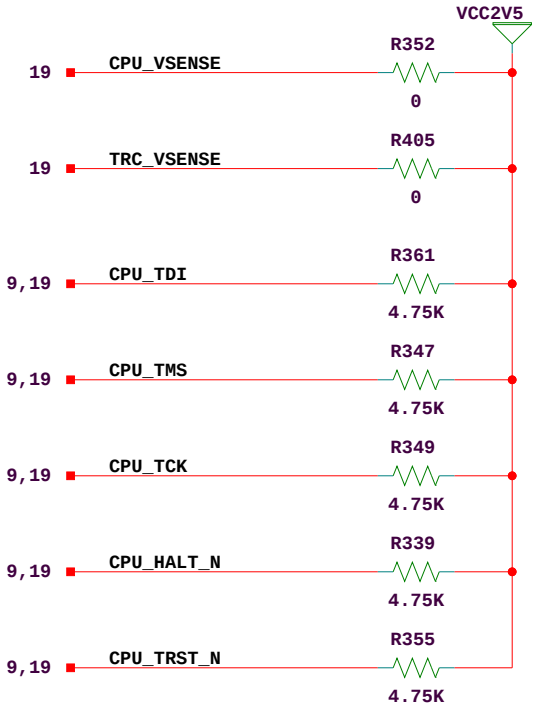
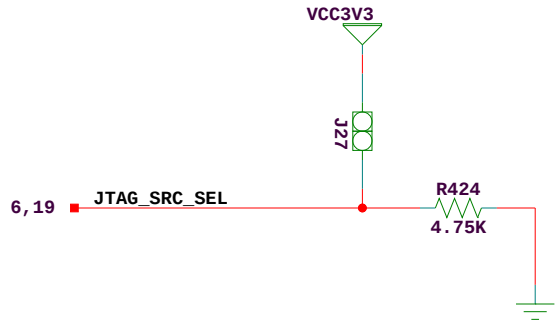
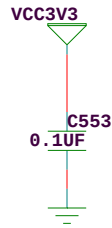
SCH P/N 0381203
ART P/N 0531499
FAB P/N 1280372

Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLAFRTORM
PERSONALITY MODULE CONNECTORS

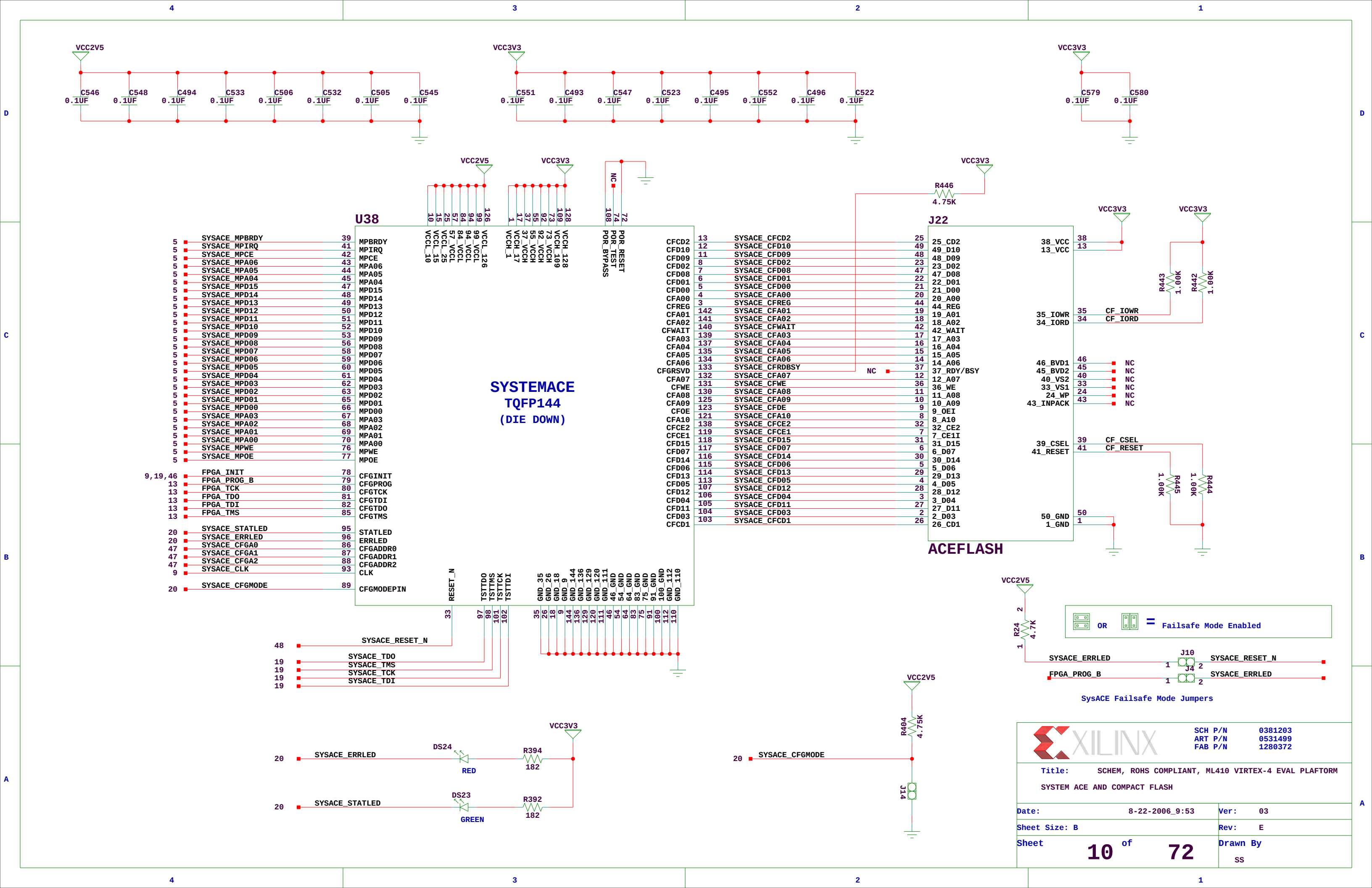
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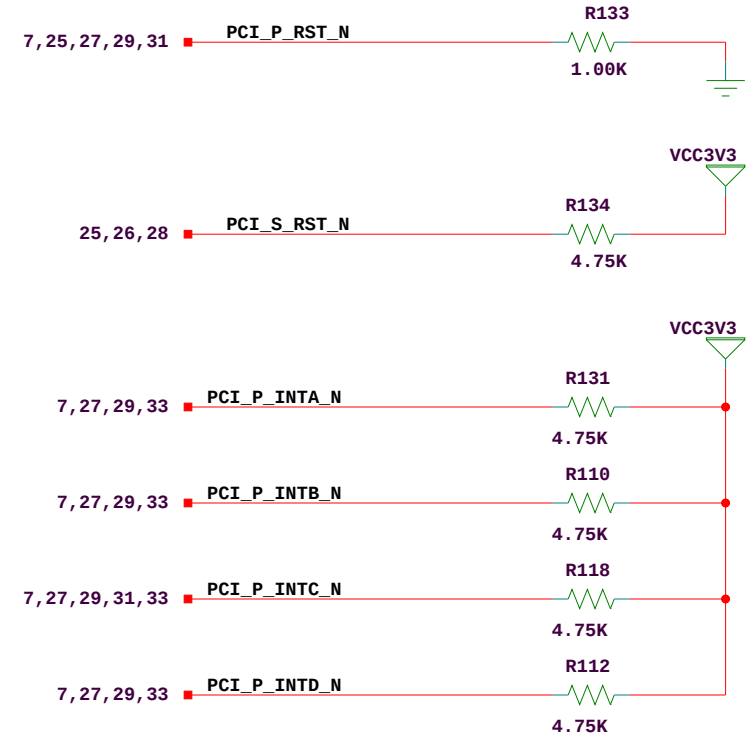
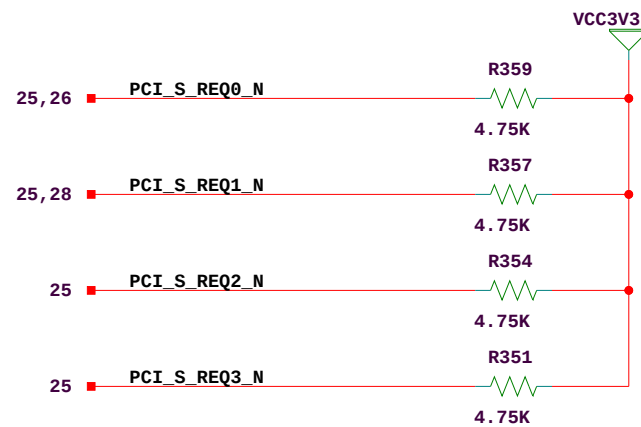
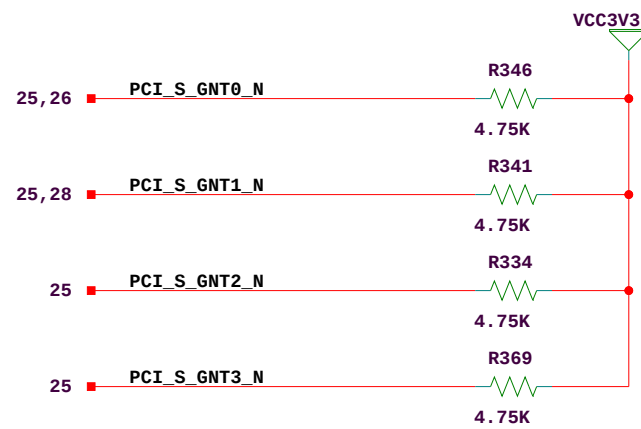
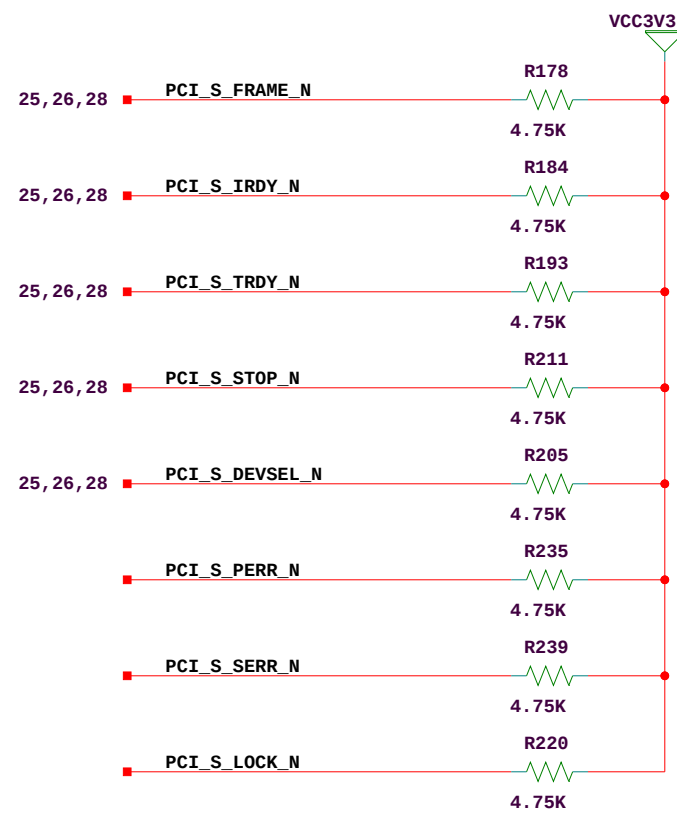
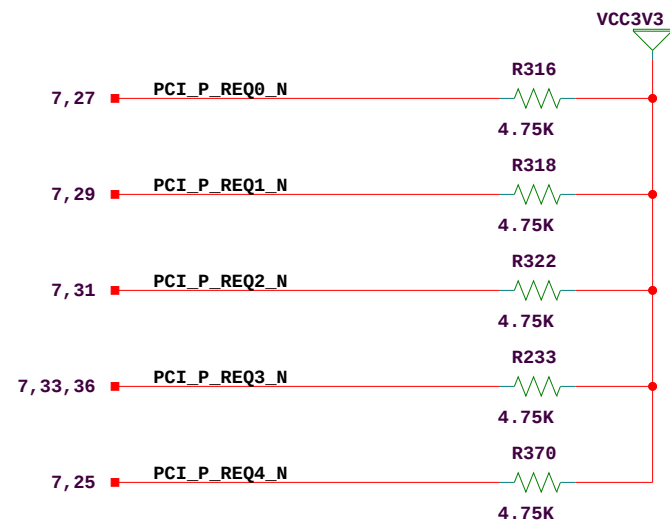
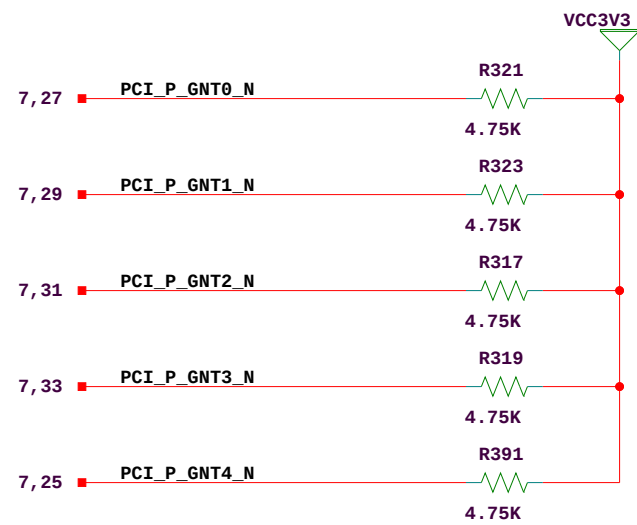
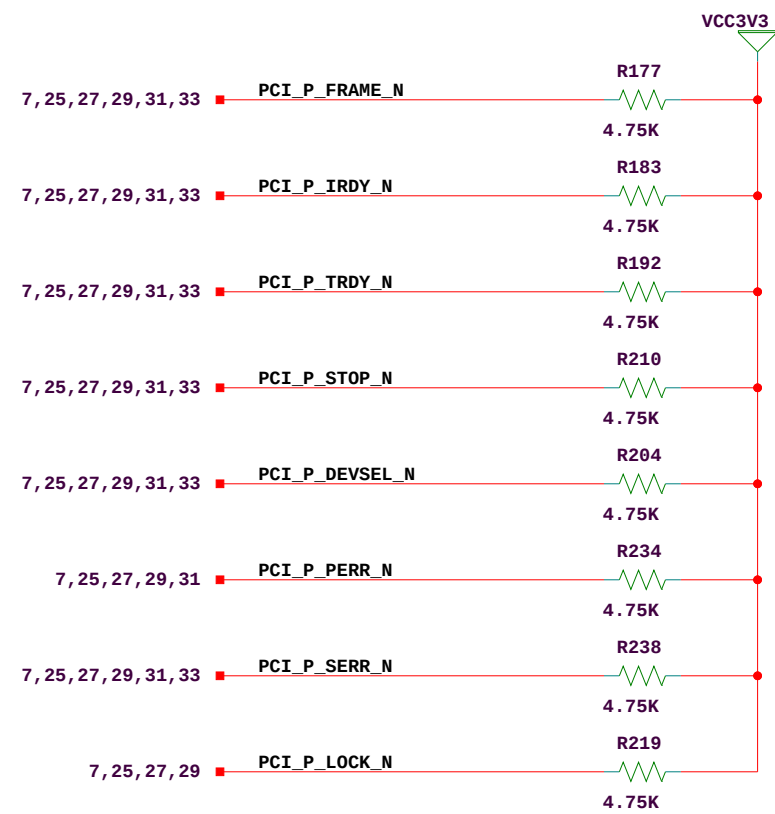
NOTE: THIS MUX INTRODUCES AN IMPLICIT 2.5V TO 3.3V LEVEL-SHIFT FOR THE CPU JTAG SIGNALS. THE SERIES RESISTOR ON CPU_TDO IS INTENDED TO PROVIDE PROTECTION FOR A 2.5V JTAG PROBE.



	SCH P/N	0381203
	ART P/N	0531499
	FAB P/N	1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLATFOrm		
JTAG, DEBUG, TRACE CONNECTORS		
Date:	8-22-2006_9:53	Ver: 03
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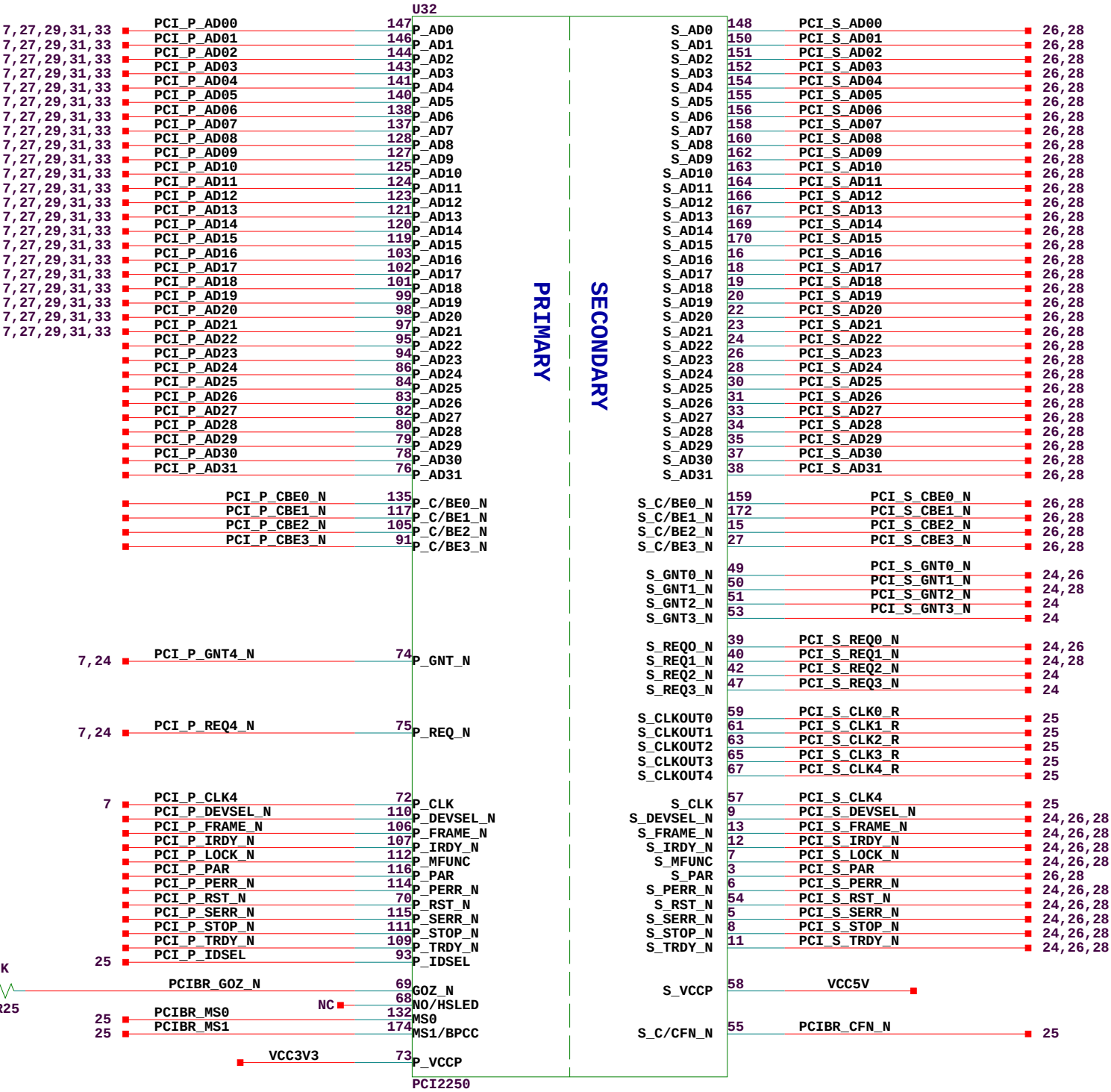




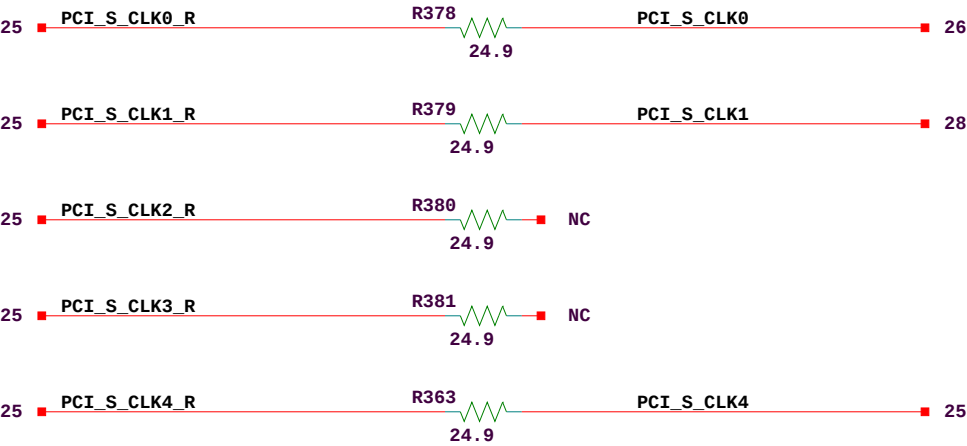
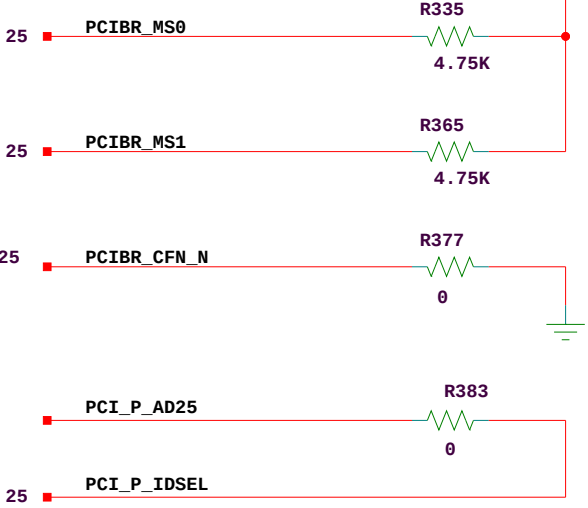
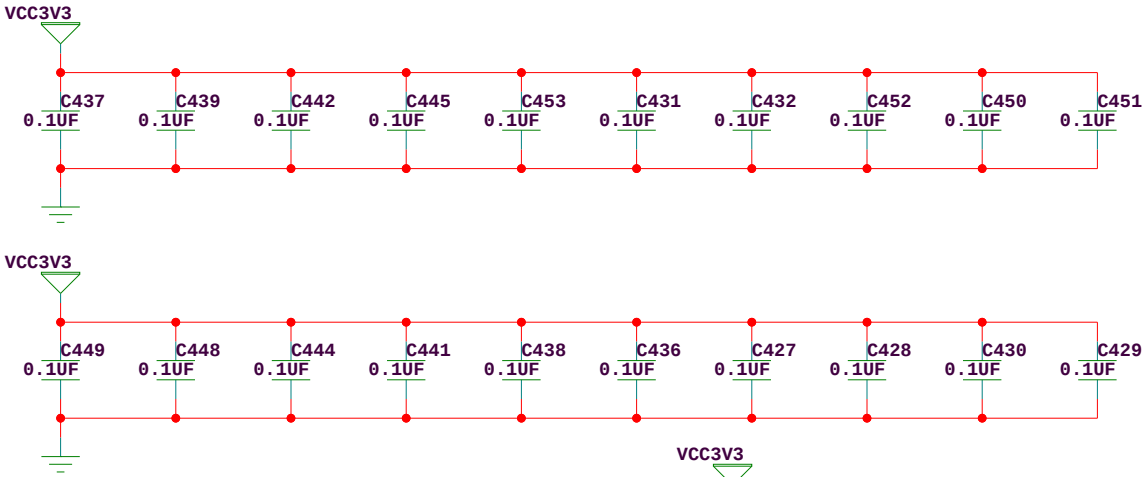


		SCH P/N 0381203 ART P/N 0531499 FAB P/N 1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLAFTORM PCI BUS PULLUPS		
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PCI-PCI BRIDGE
PCI2250_PGF



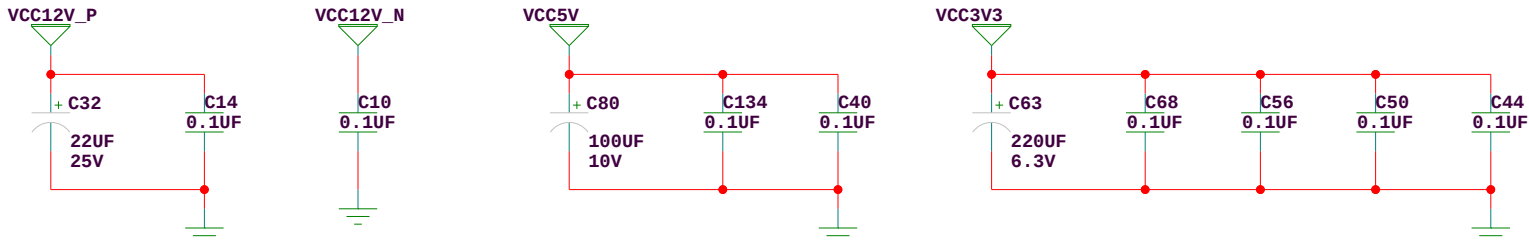
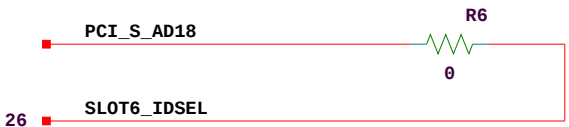
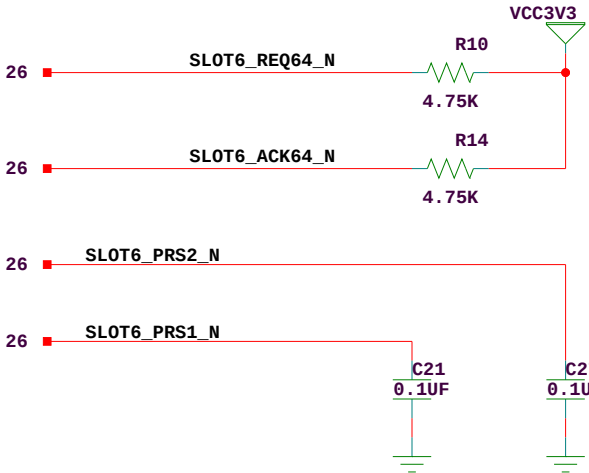
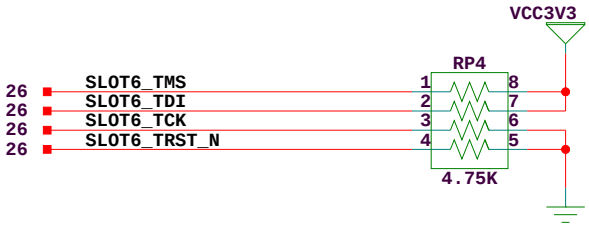
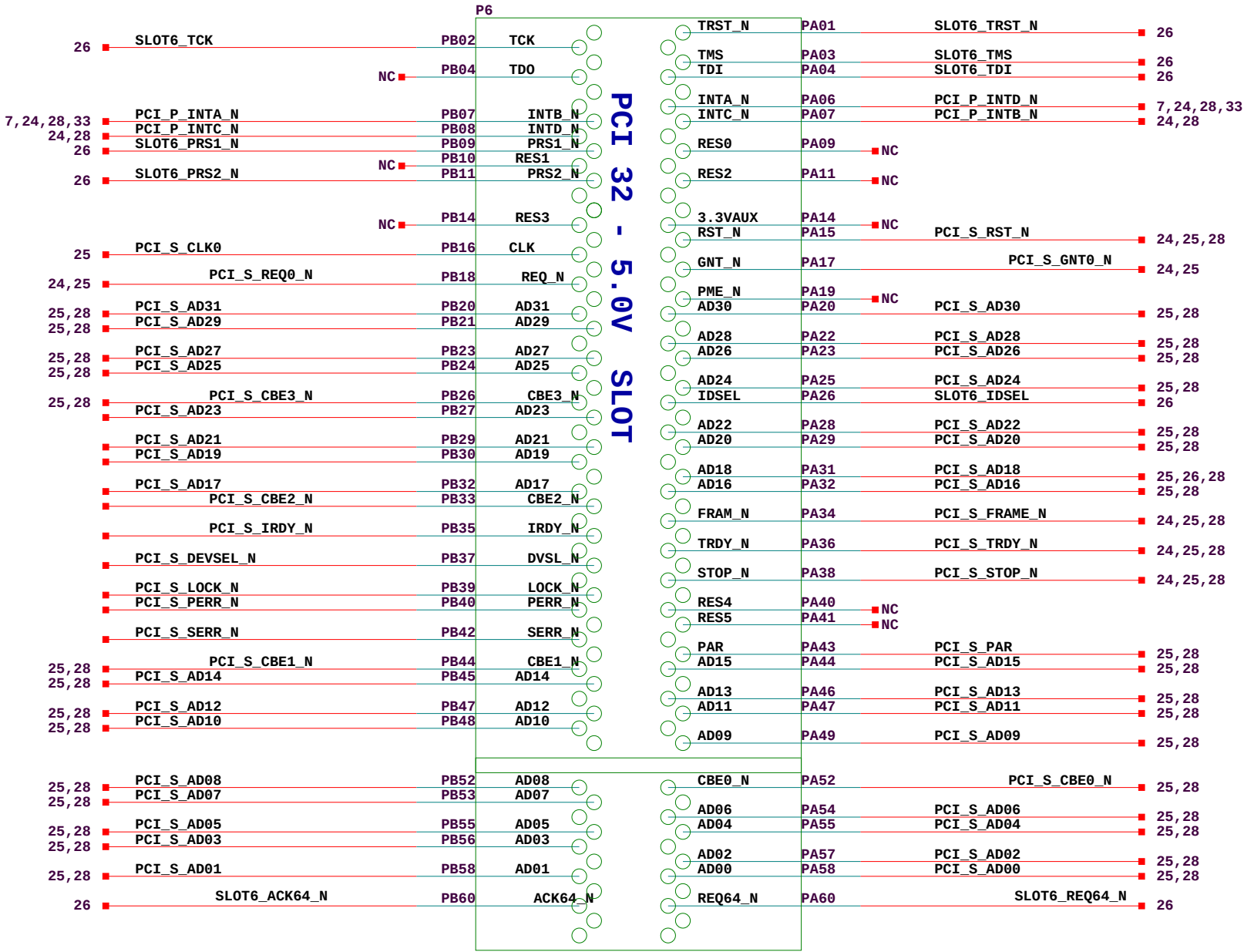
VCC3V3;10,17,25,32,44,52,62,66,81,88,100
VCC3V3;108,118,126,139,145,153,161,168,176
GND;1,14,21,29,36,45,56,60,64,71,77,89
GND;96,104,113,122,130,133,142,149,157,165,171
NC=2,4,41,43,46,48,85,87,90,92,129,131,134,136,173,175



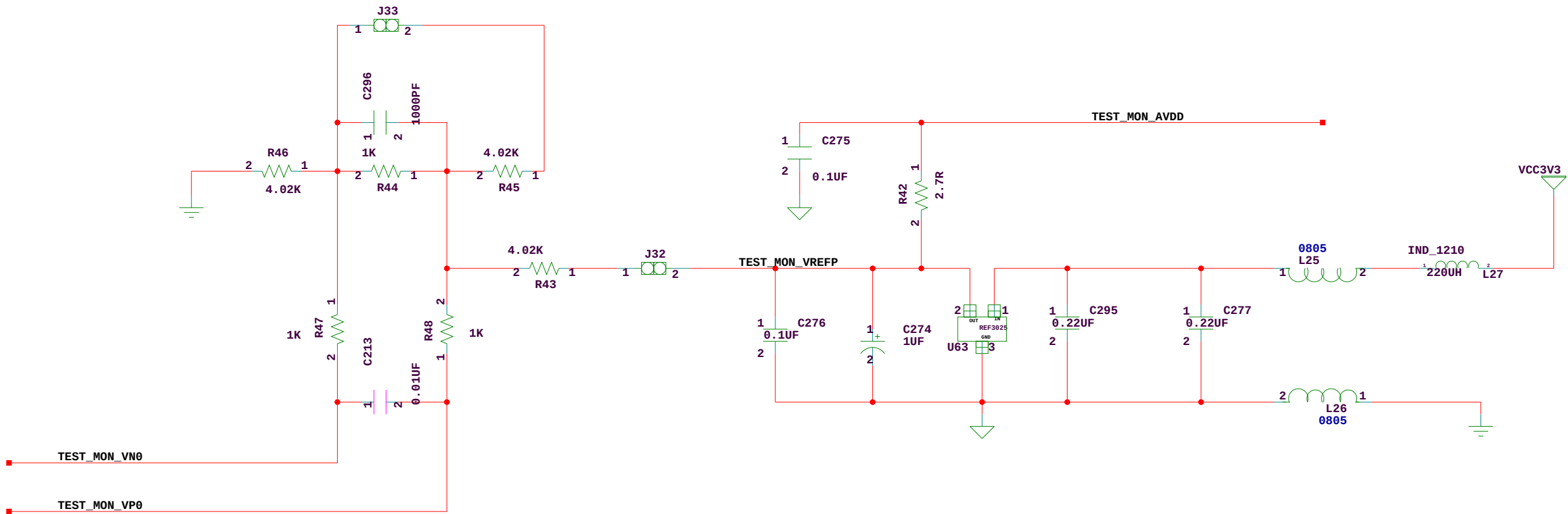
SCH P/N 0381203
ART P/N 0531499
FAB P/N 1280372

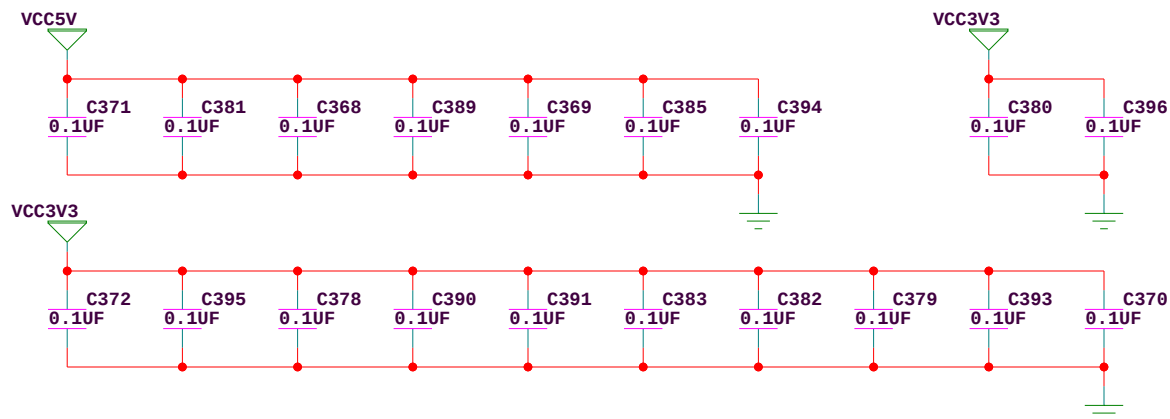
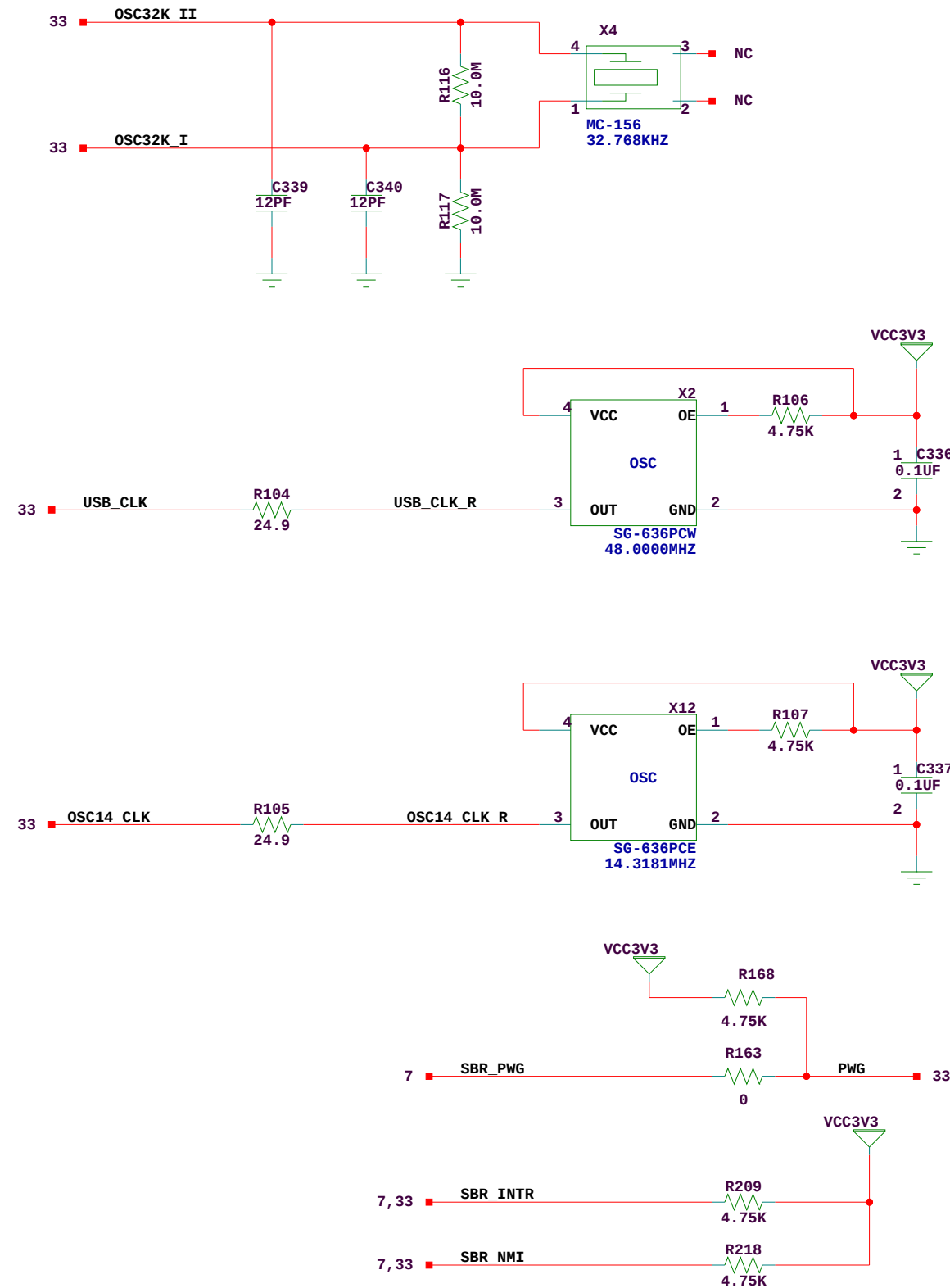
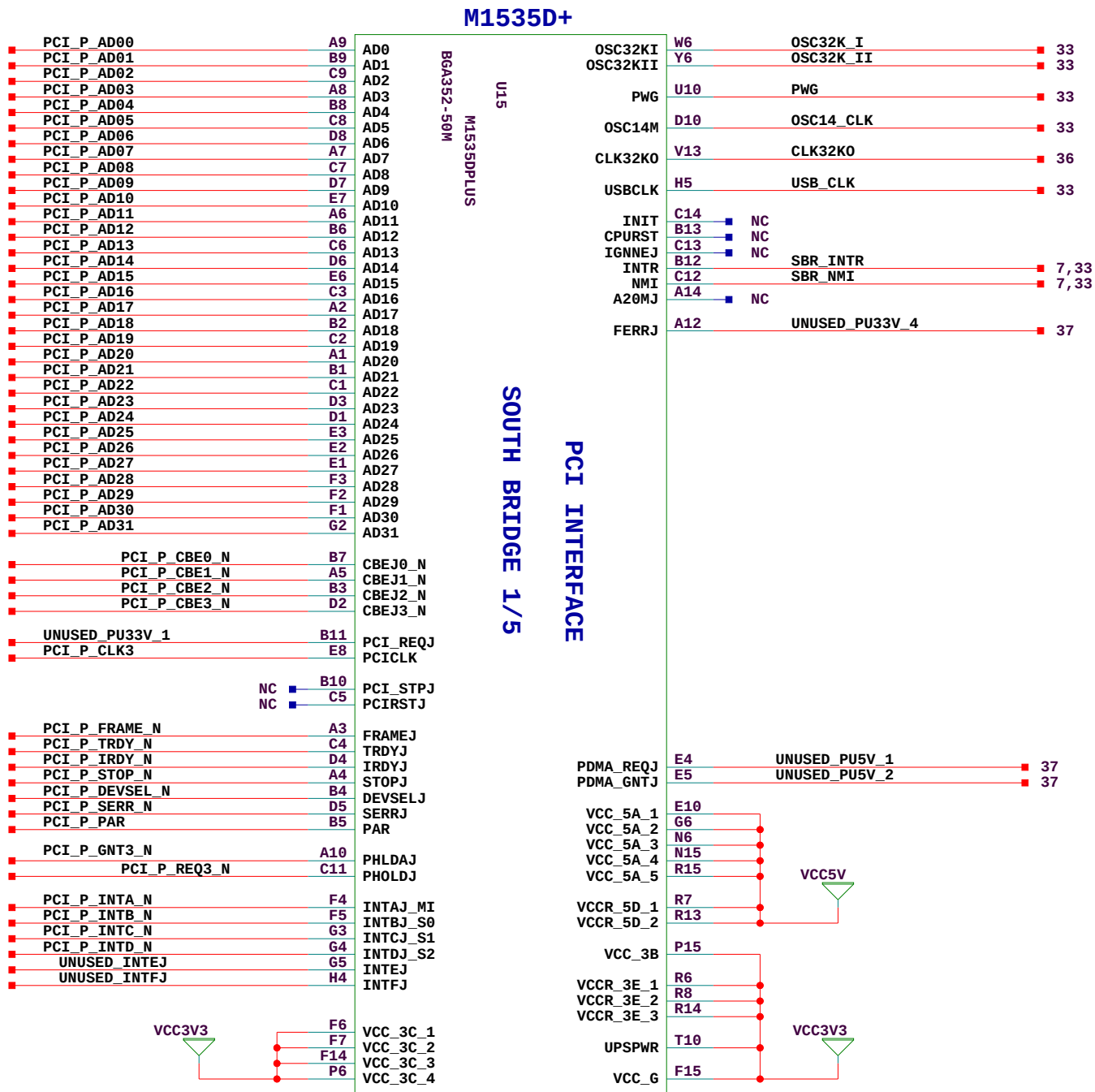
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLAFORM
PCI-PCI BRIDGE

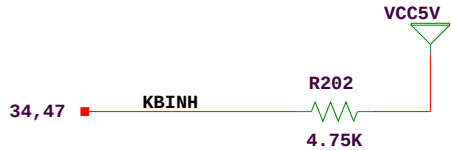
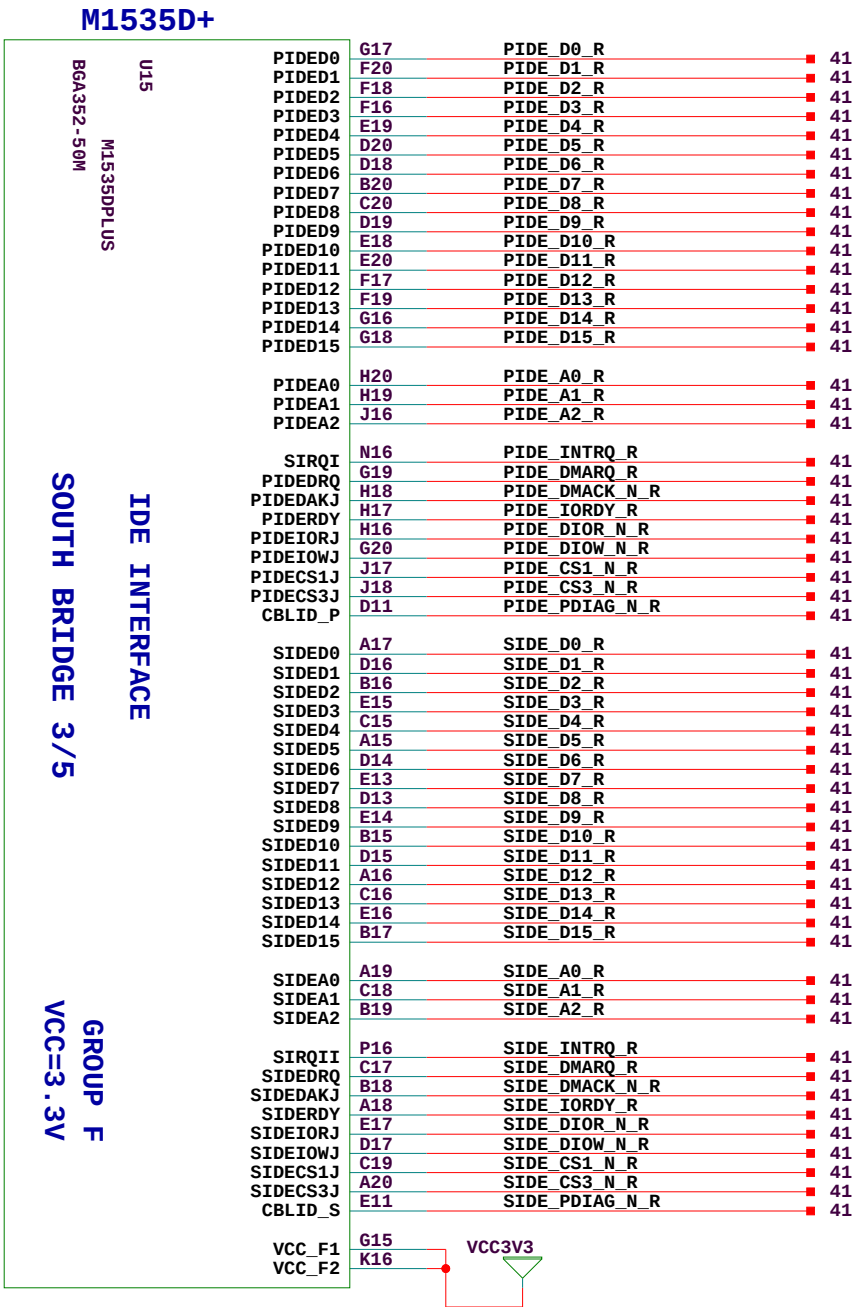
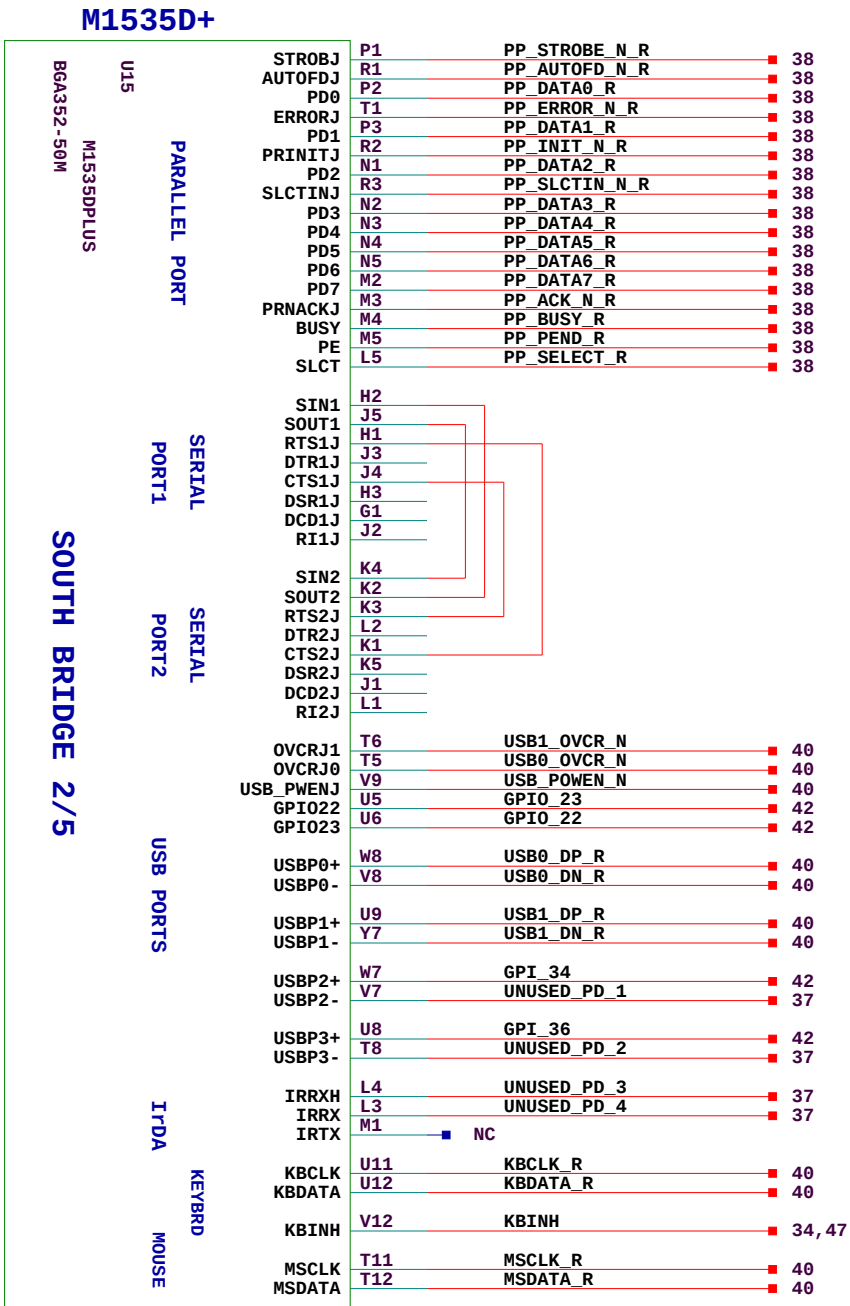
Date: 8-22-2006_9:53 Ver: 03
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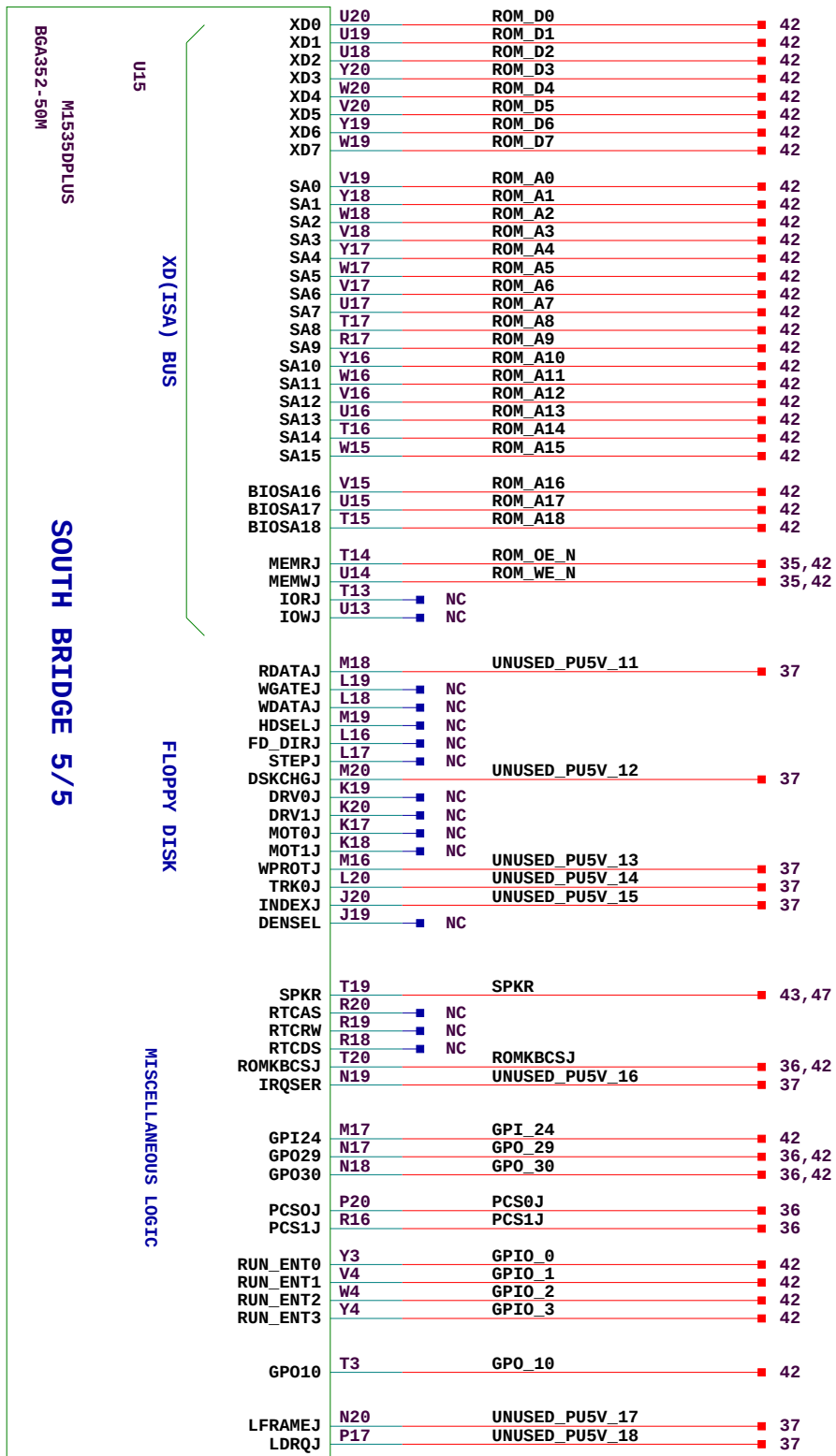
		SCH P/N	0381203
		ART P/N	0531499
		FAB P/N	1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLAFTORM			
PCI SLOT 6, 5.0V, SECONDARY BUS			
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M1535D+



SCH P/N 0381203
ART P/N 0531499
FAB P/N 1280372

Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLAFORM
PCI SOUTH BRIDGE, PART 4-5

Date:	8-22-2006_9:53	Ver:	03
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Sheet Size: B	Rev: E
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Sheet	21	of	72	Drawn By	SS
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D

C

B

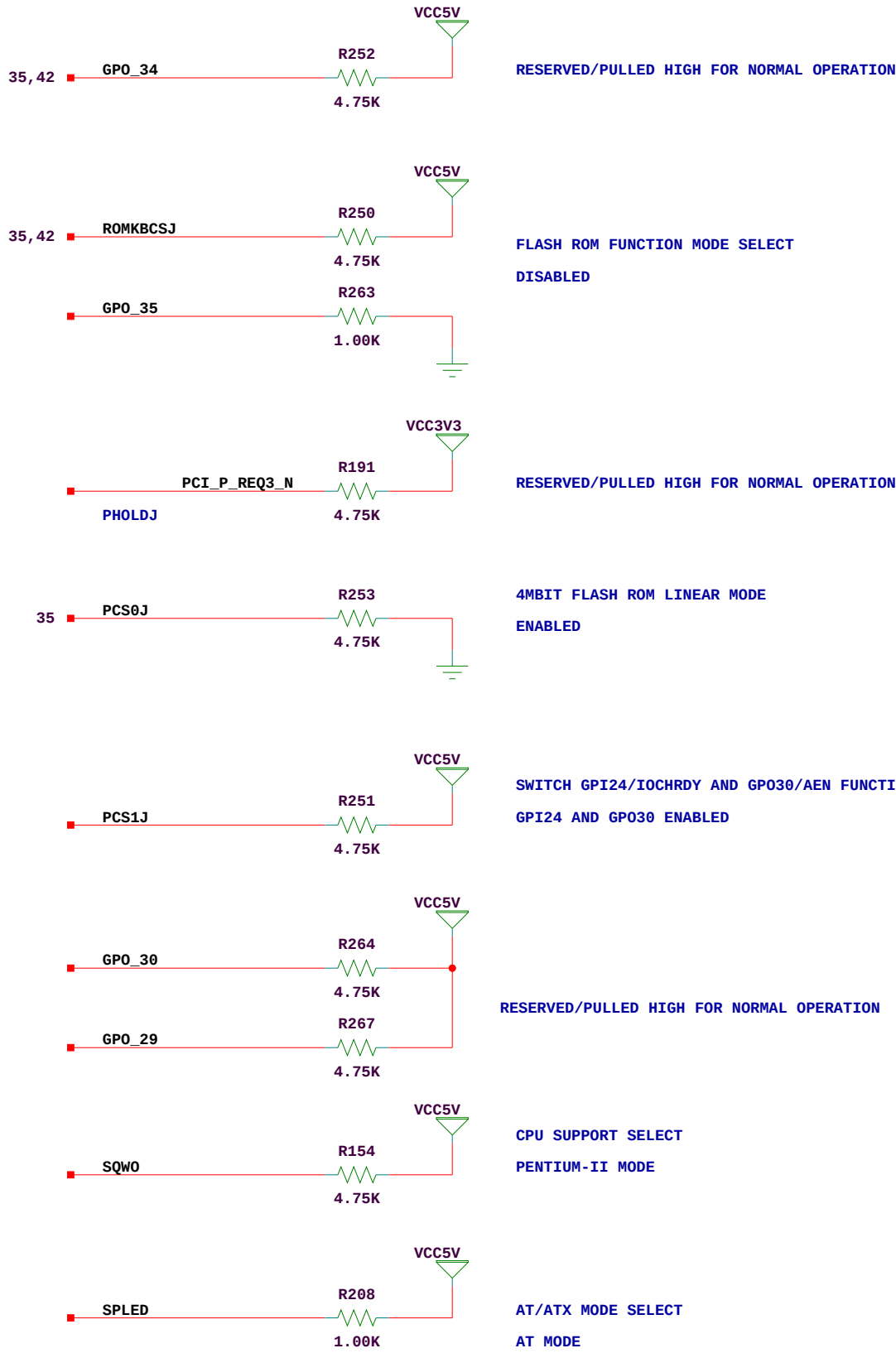
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D

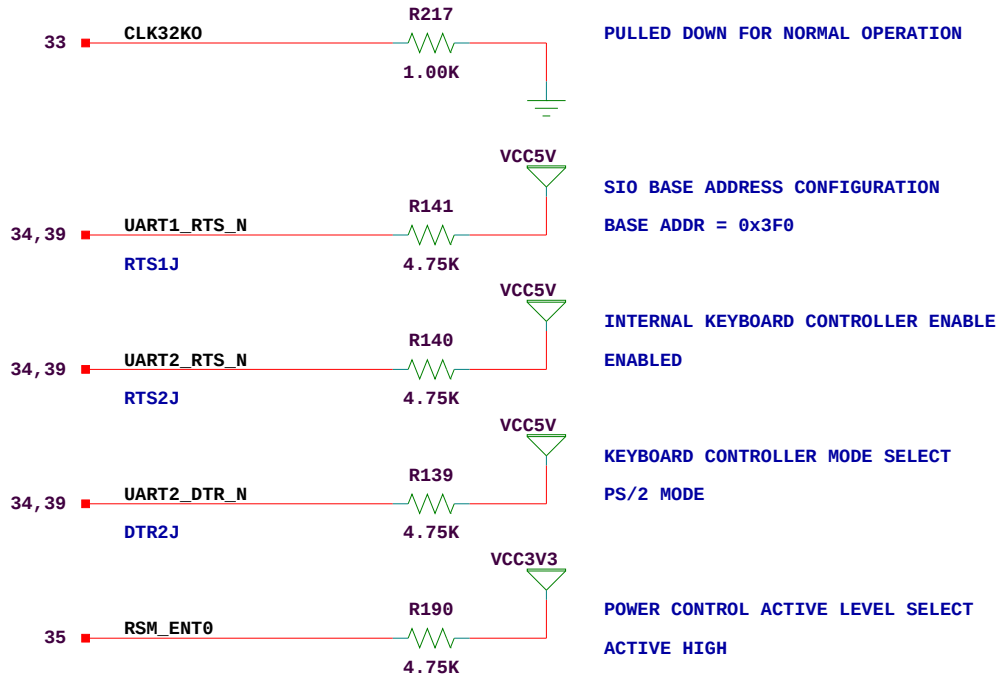
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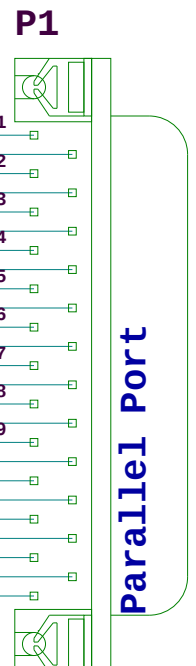
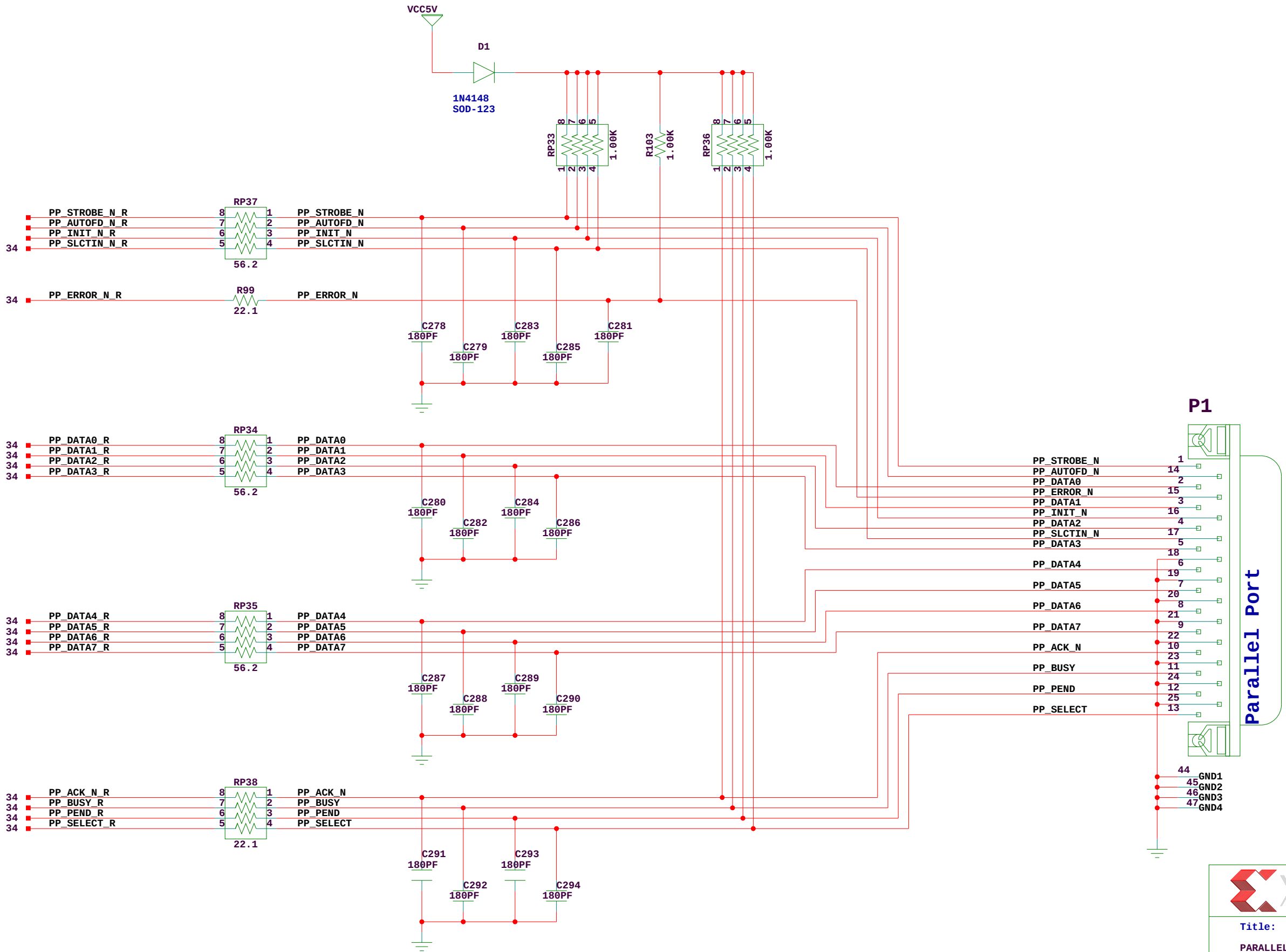
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NOTE: AT MODE IS USED HERE TO DISABLE THE SOFT-POWER
FUNCTIONALITY OF THE SOUTH BRIDGE



		SCH P/N	0381203
		ART P/N	0531499
		FAB P/N	1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLAFTORM PCI SOUTH BRIDGE, CONFIG RESISTORS			
Date:	8-22-2006_9:53	Ver:	03
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SCH P/N0381203

ART P/N0531499

FAB P/N1280372

Title:

SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLATFOMR

PARALLEL PORT INTERFACE

Date:	8-22-2006_9:53	Ver:	03
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D

C

B

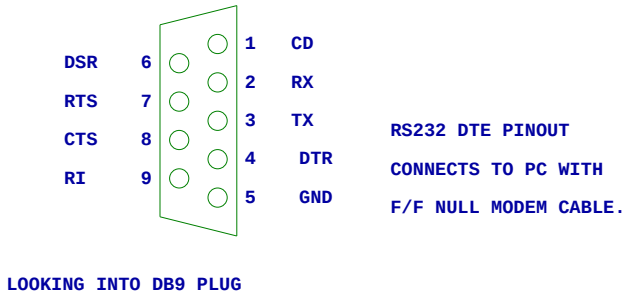
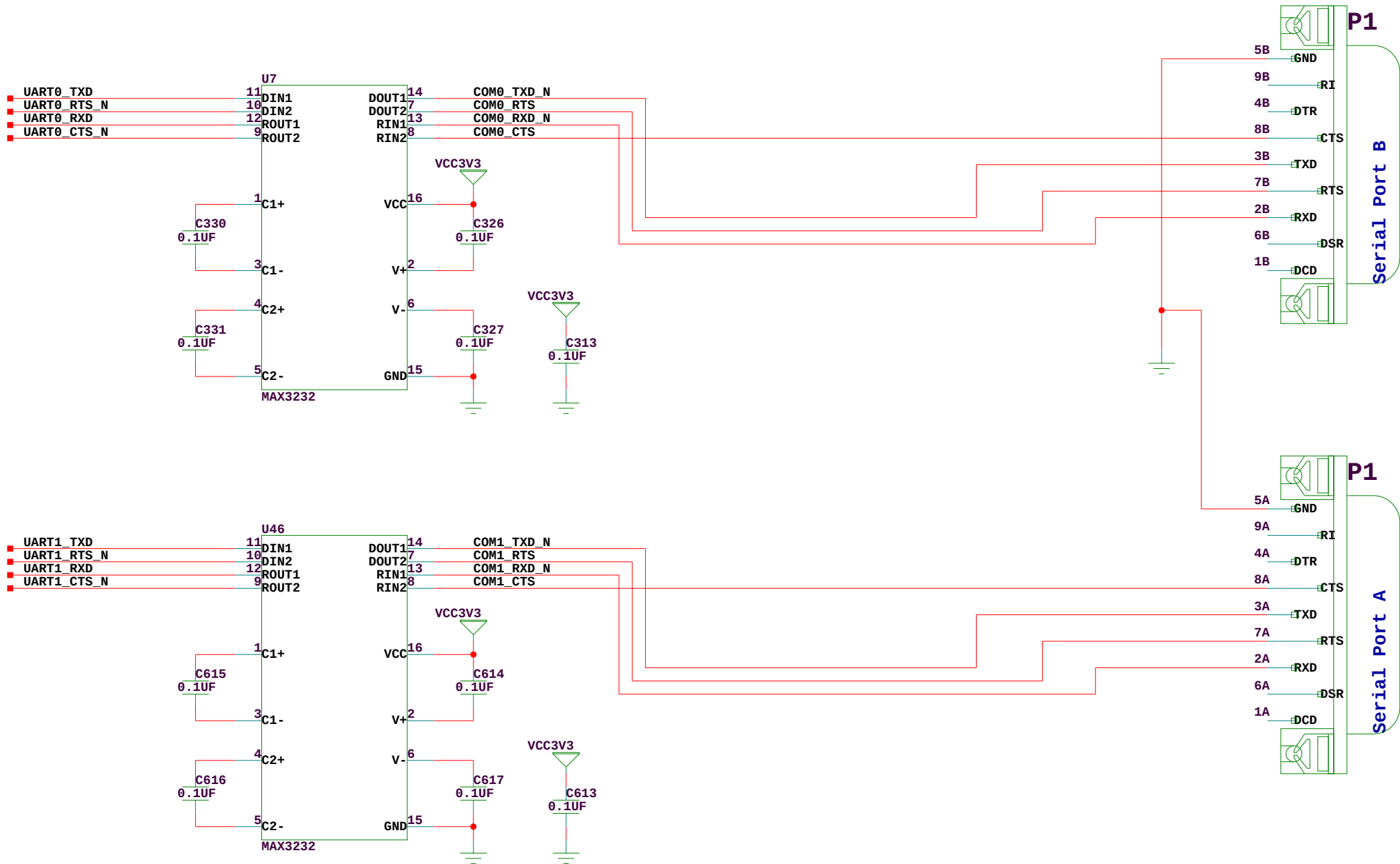
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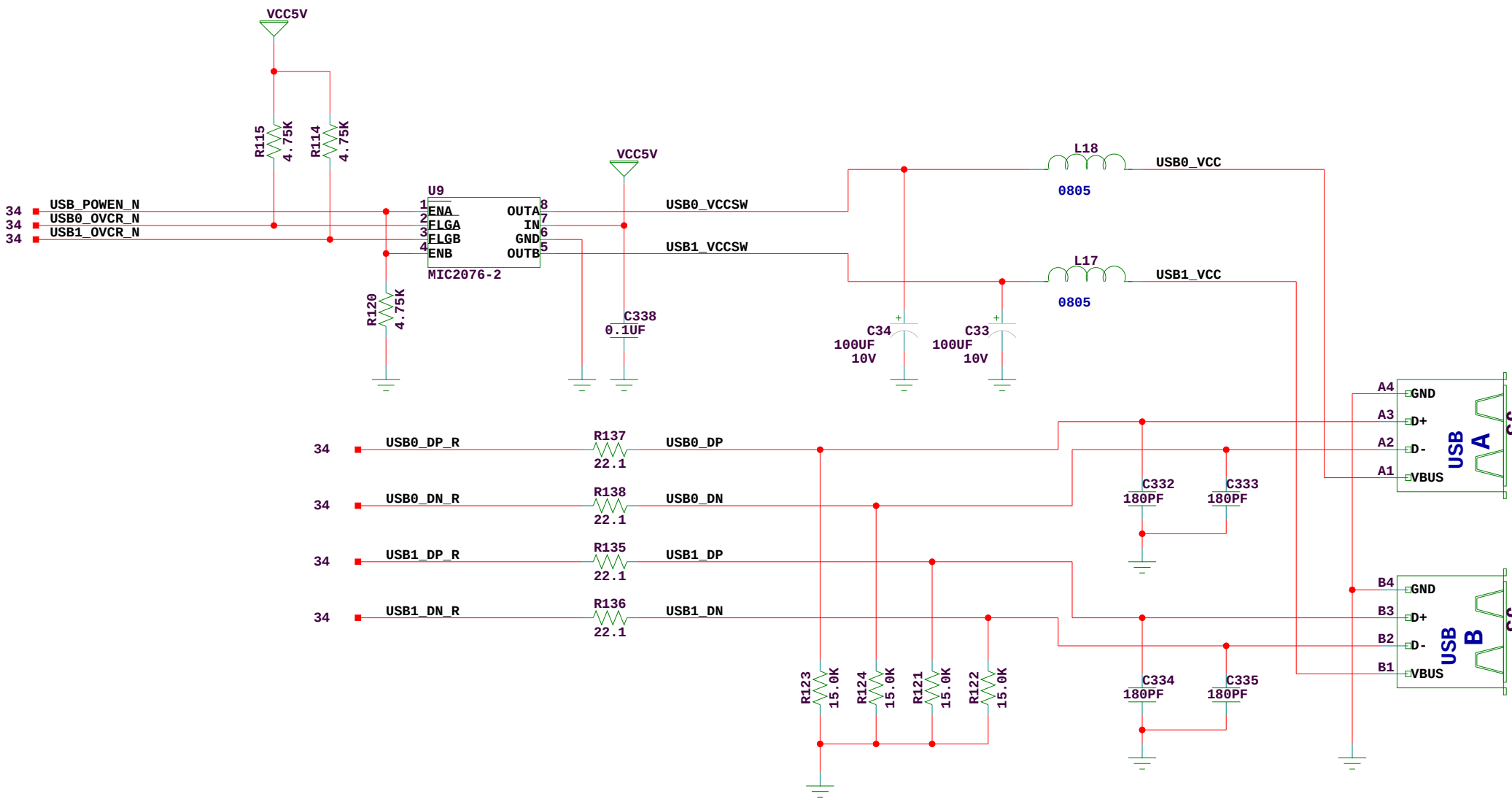
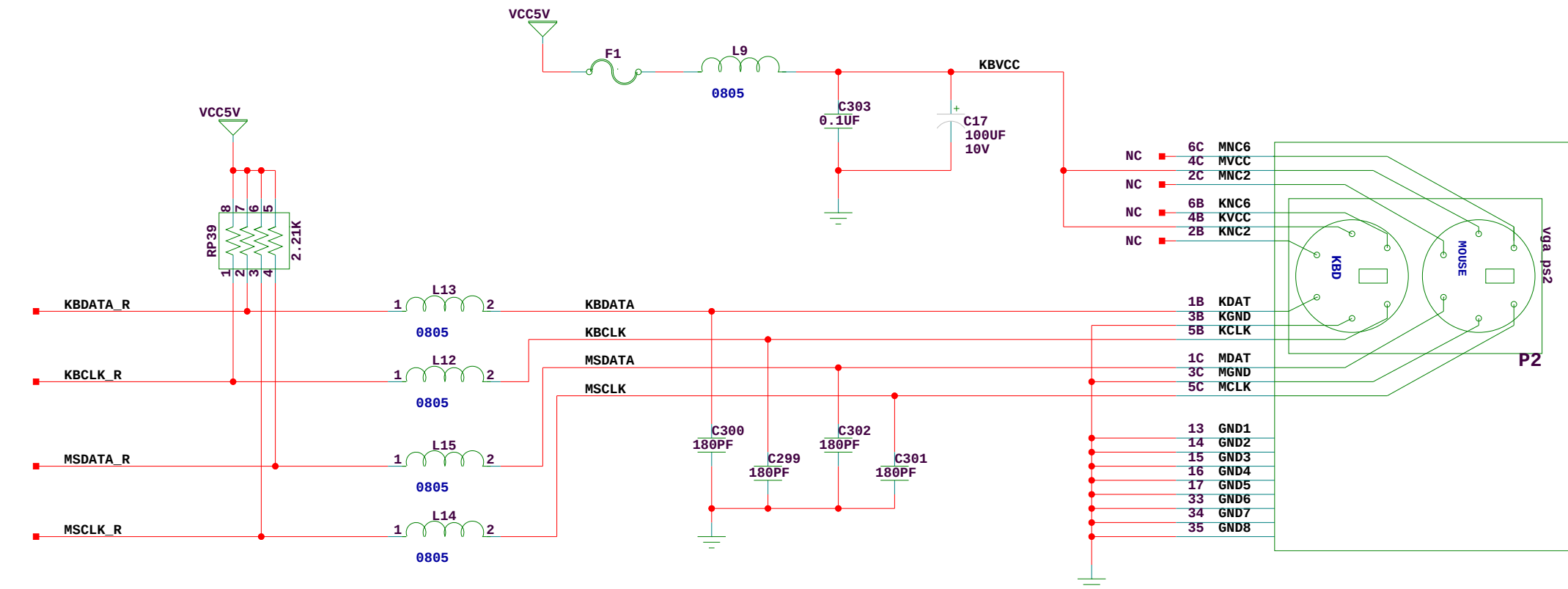
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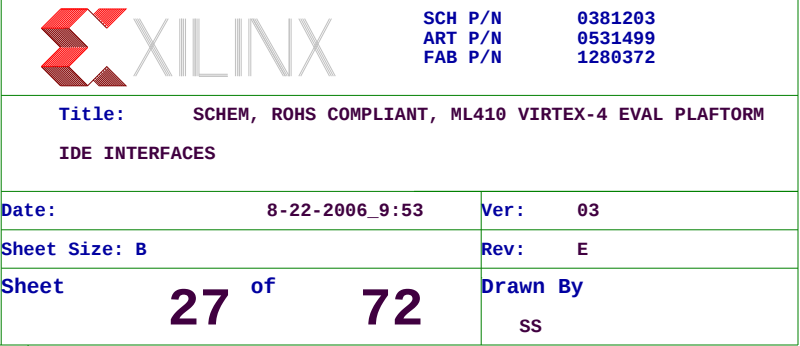
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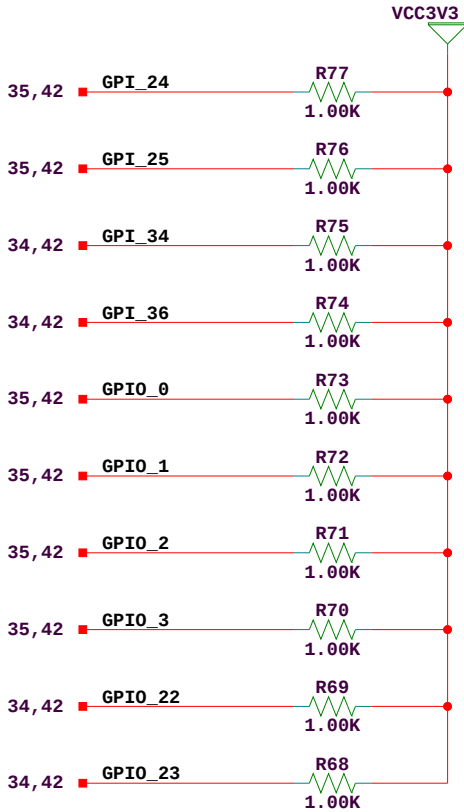
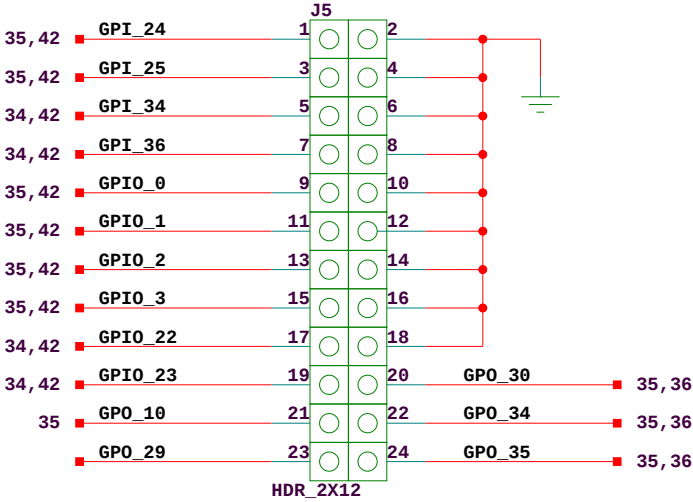
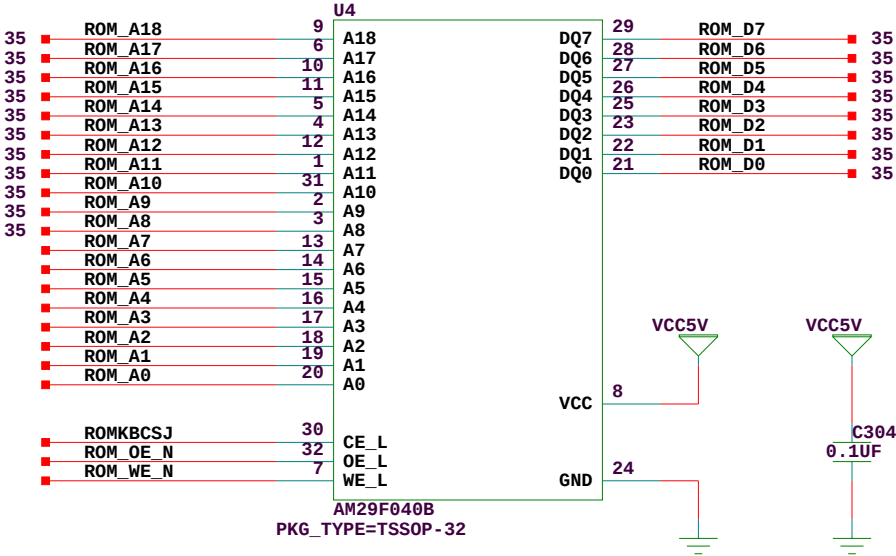


		SCH P/N	0381203
		ART P/N	0531499
		FAB P/N	1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLAFORM RS232 SERIAL PORT INTERFACE			
Date:	8-22-2006_9:53	Ver:	03
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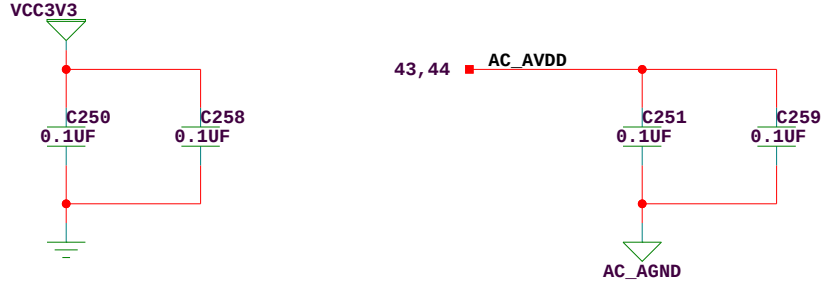
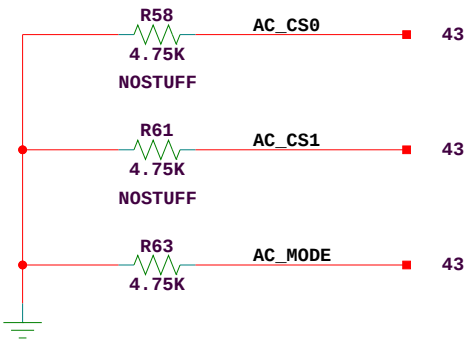
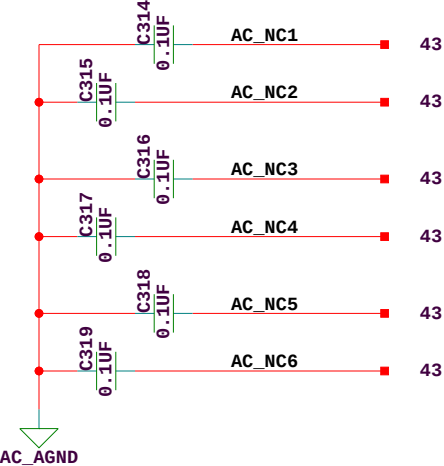
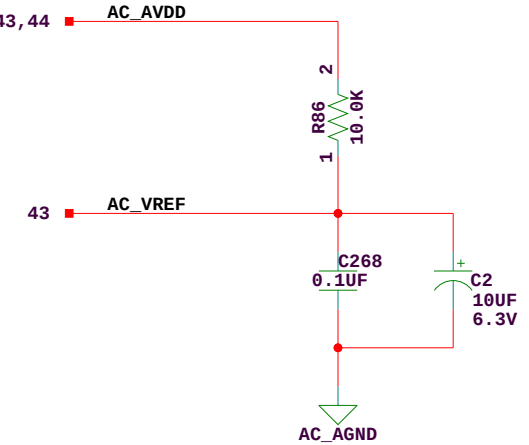
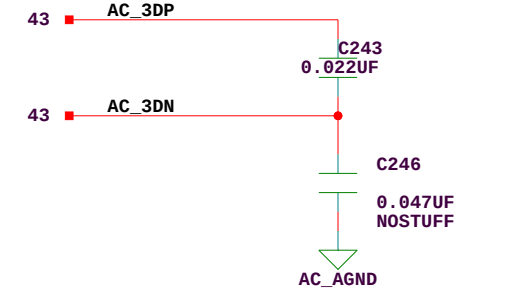
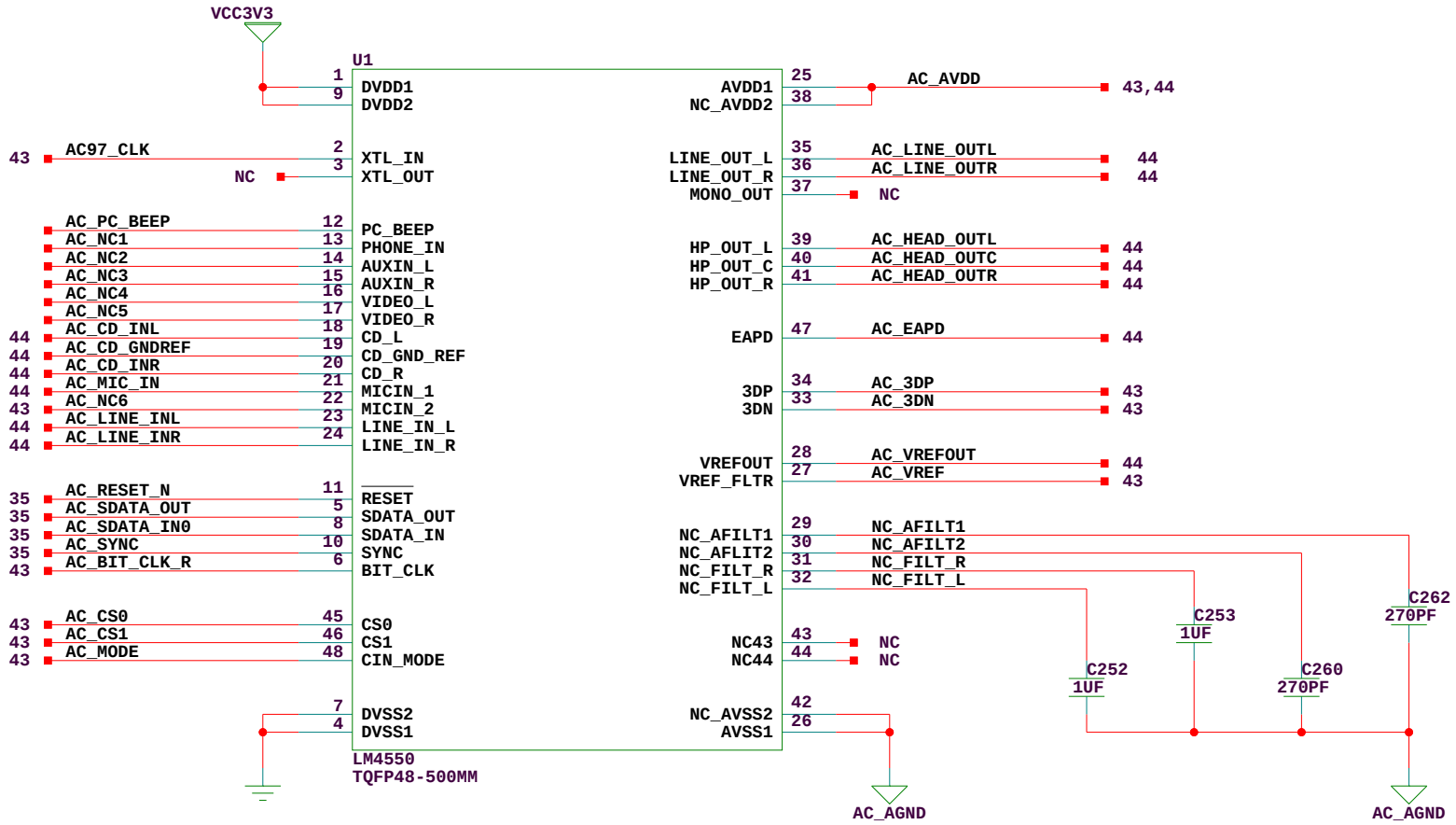
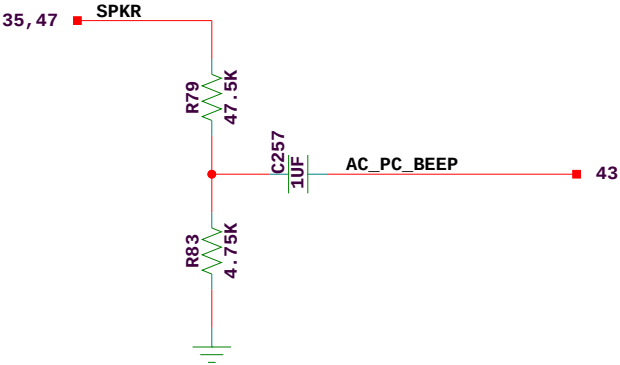
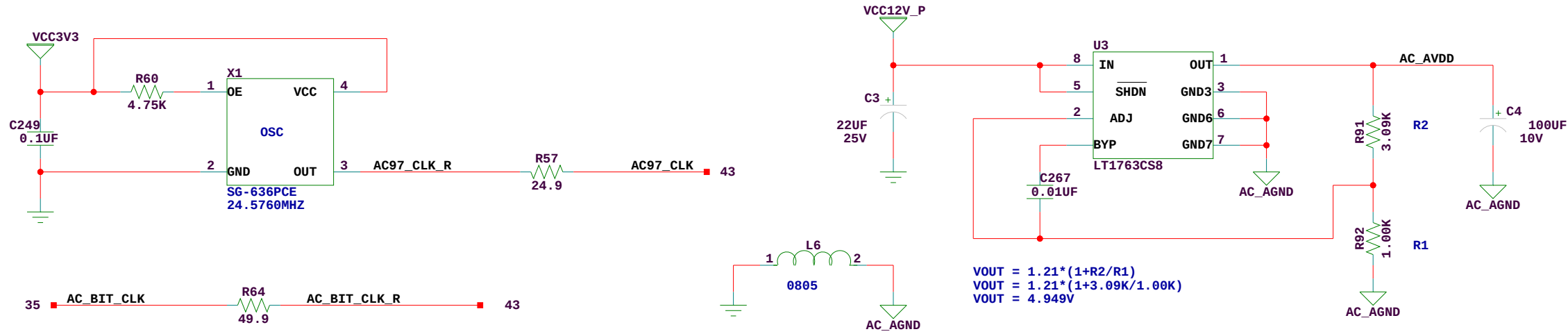


SOUTH BRIDGE
GPIO HEADER

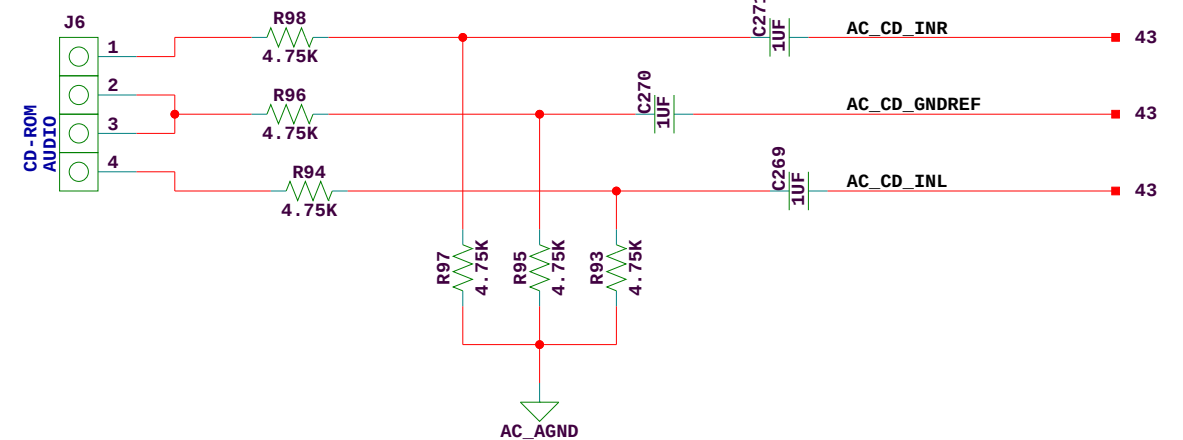
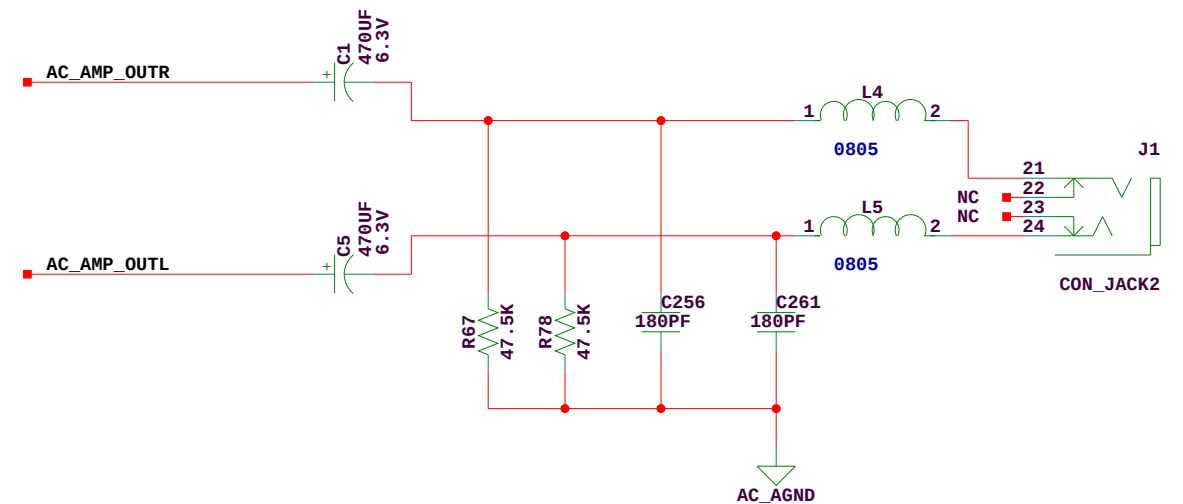
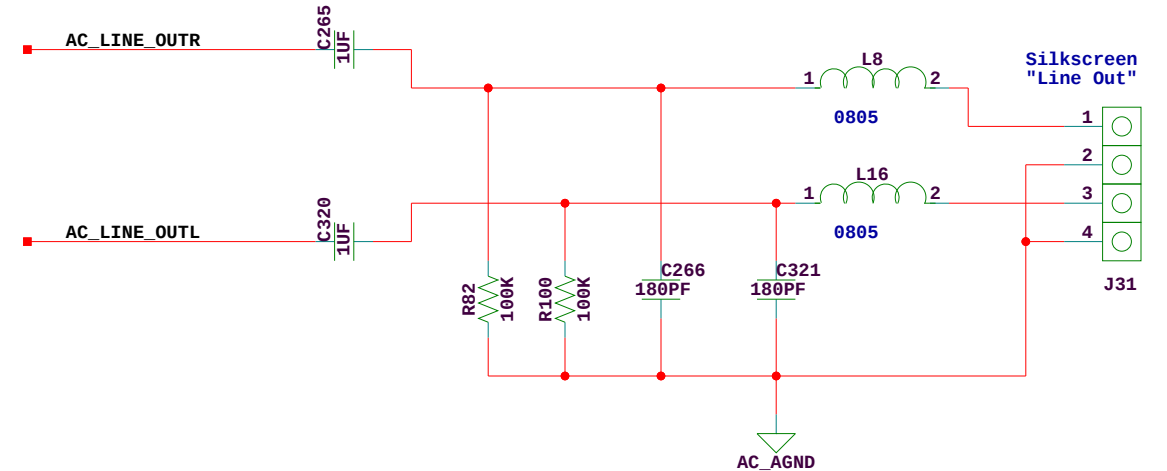
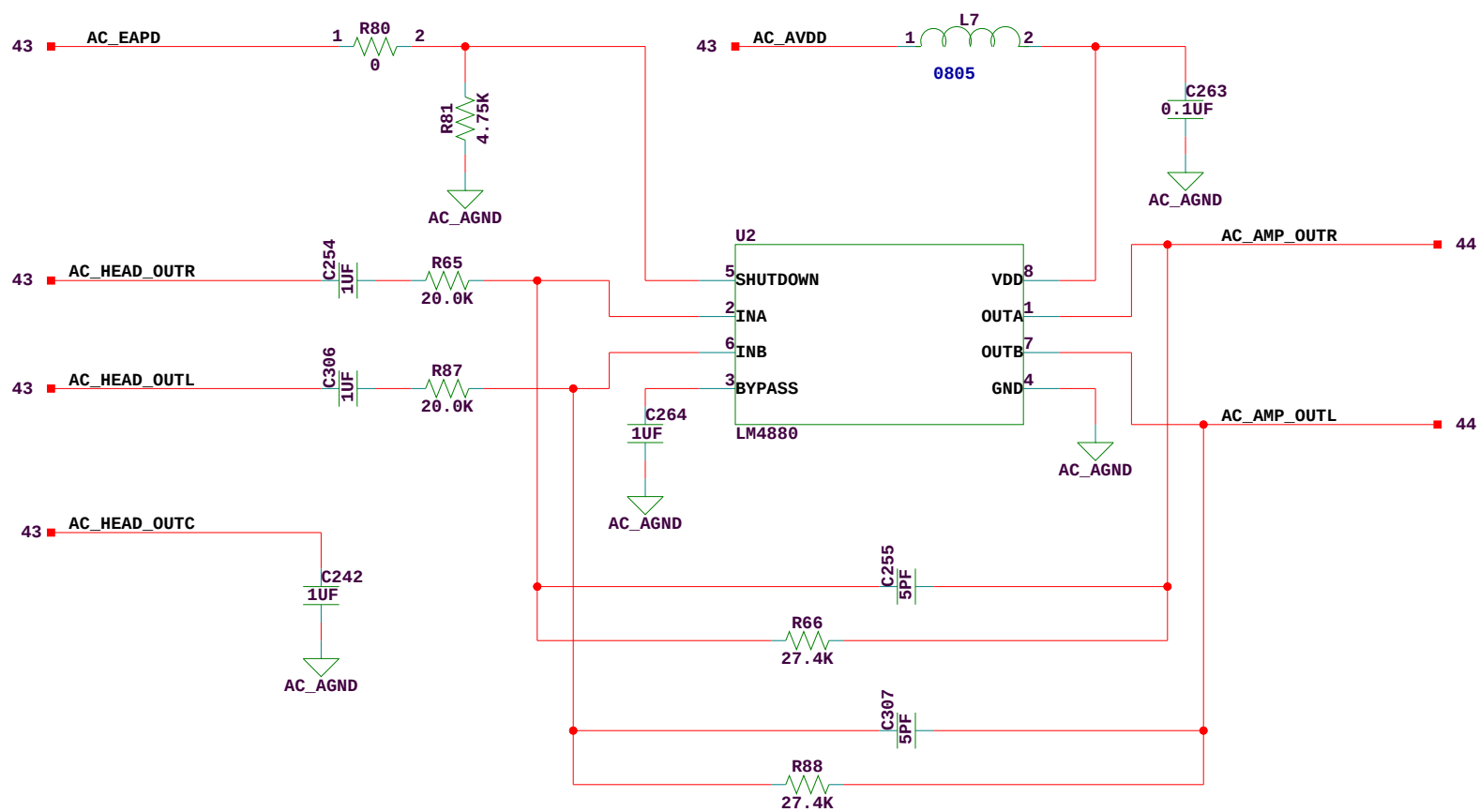
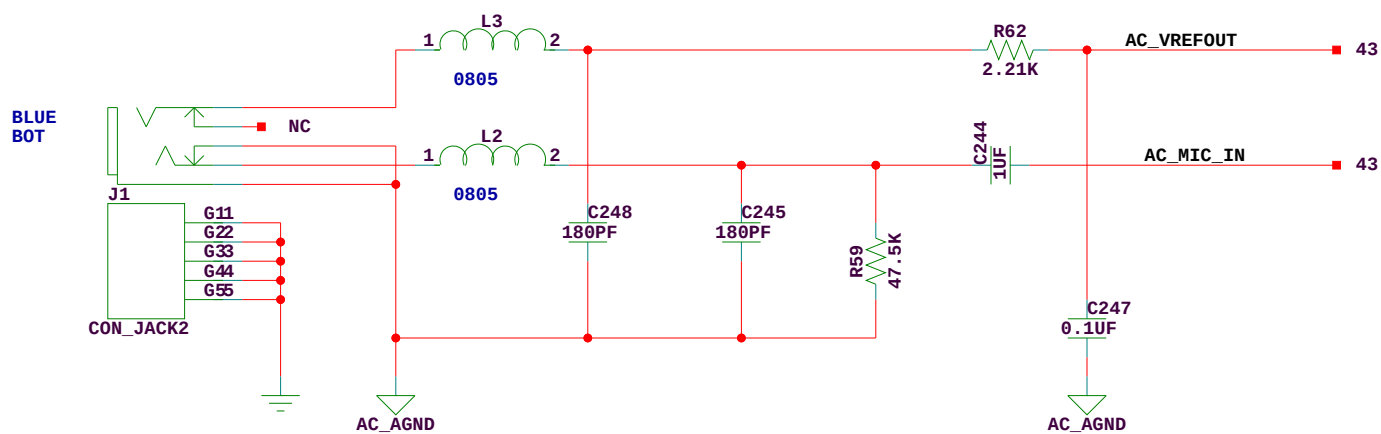
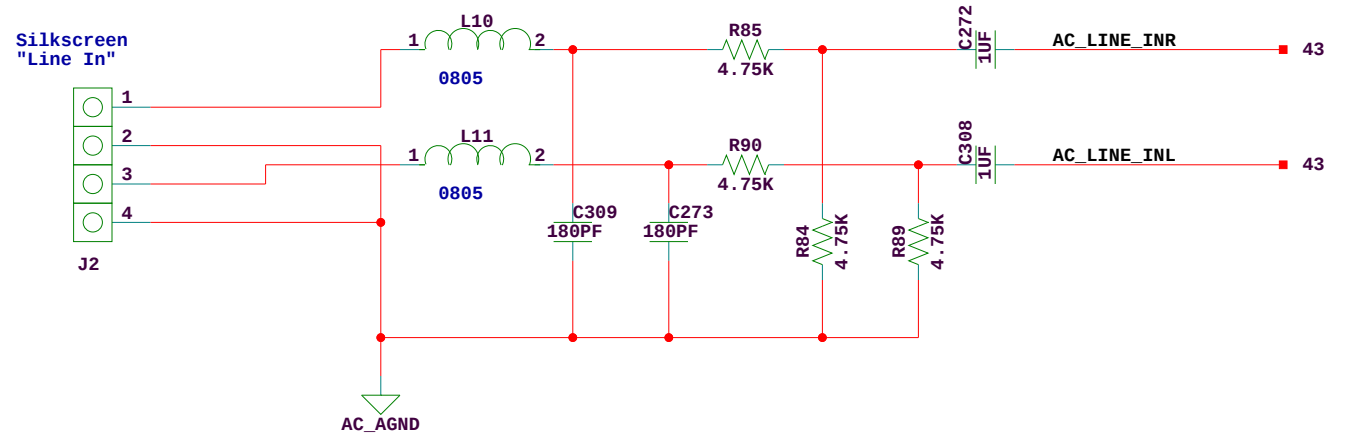


Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLATFOrm
SOUTH BRIDGE ROM AND GPIO

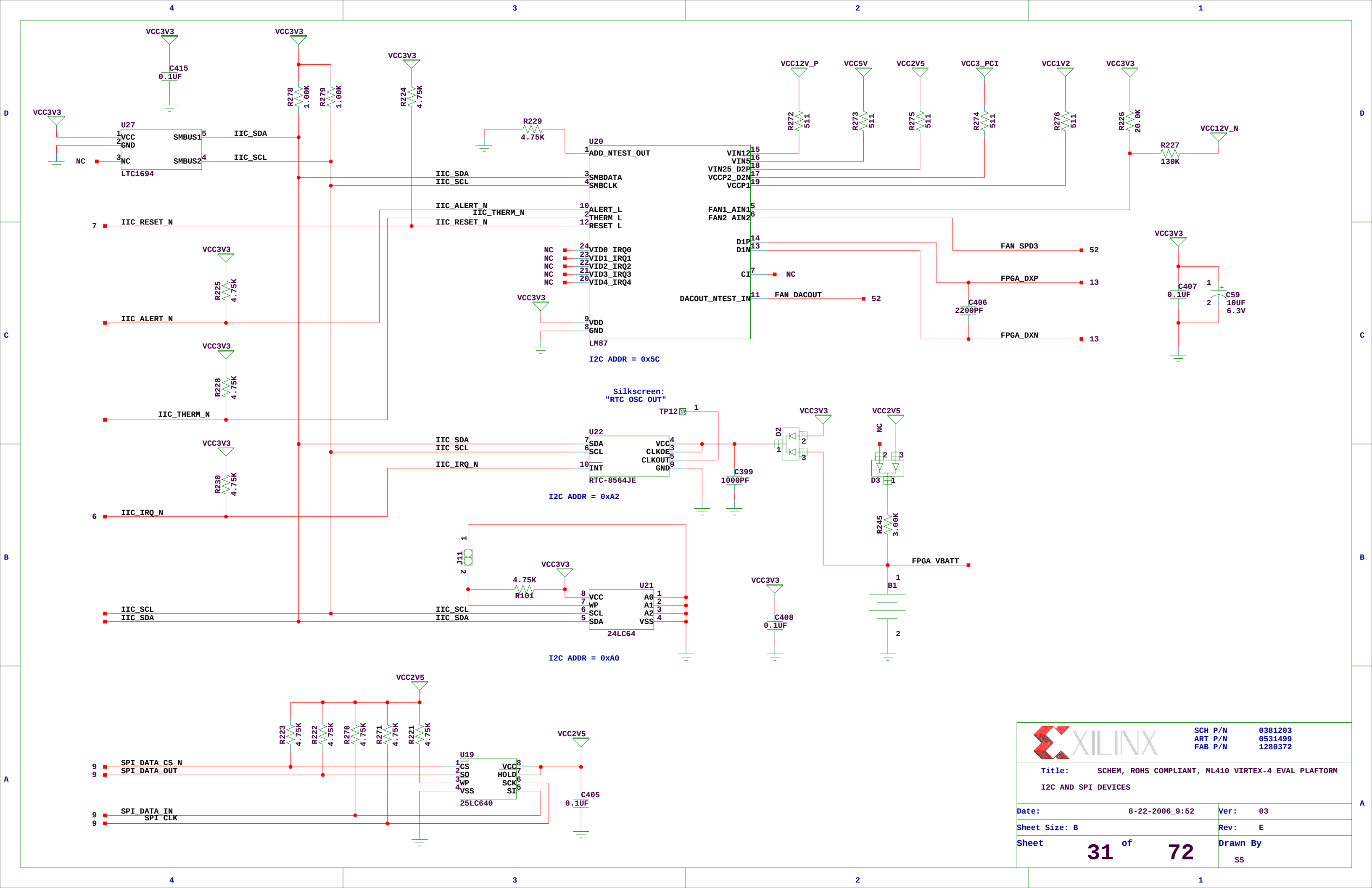
Date:	8-22-2006_9:53	Ver:	03
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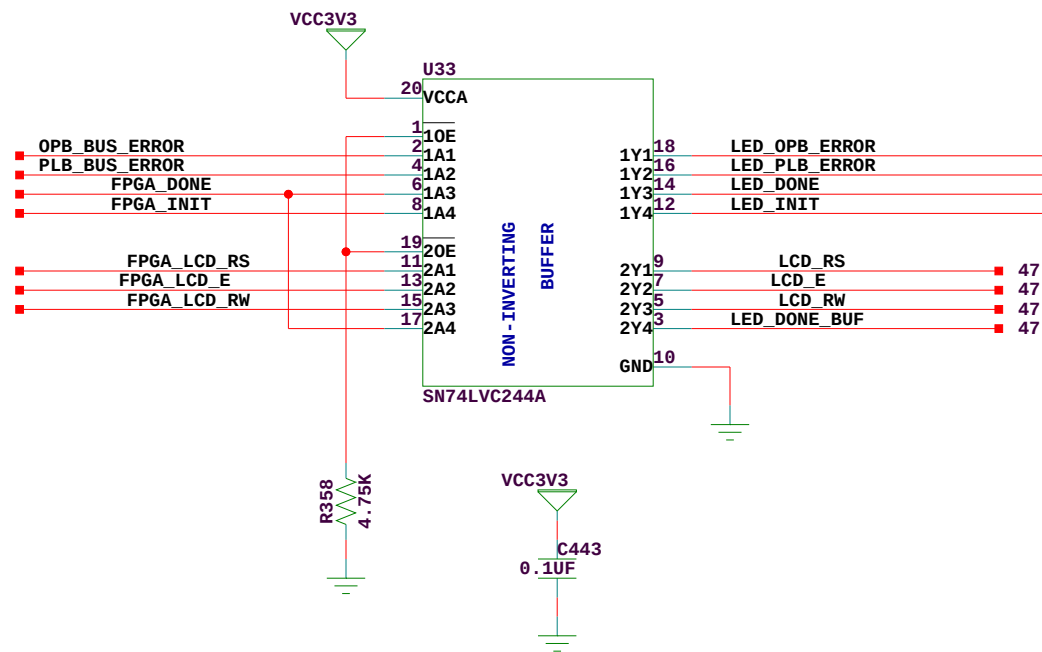
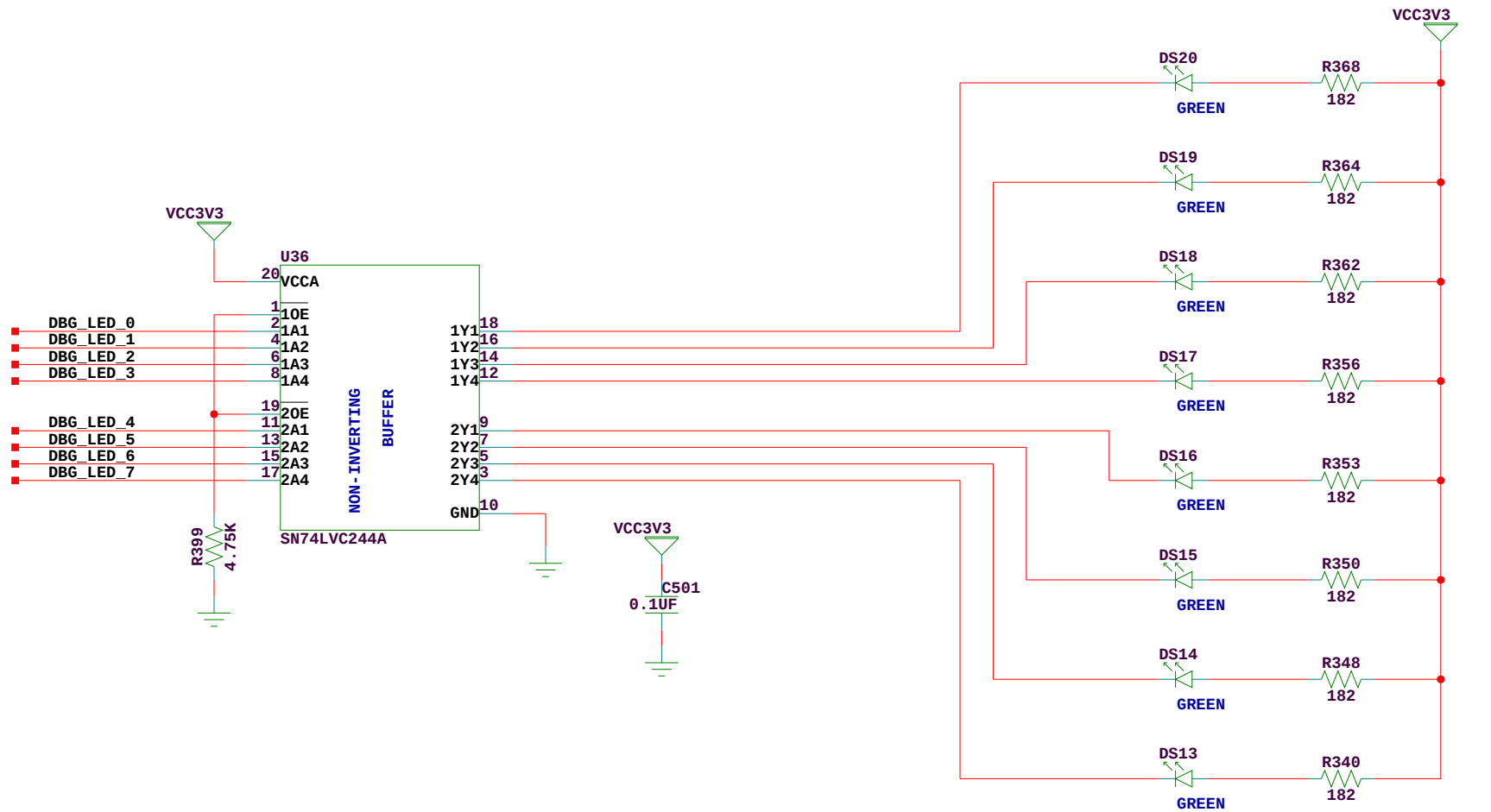
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		ART P/N	0531499
		FAB P/N	1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLATFOrm			
AC97 CODEC			
Date:	8-22-2006_9:52	Ver:	03
Sheet Size:	B	Rev:	E
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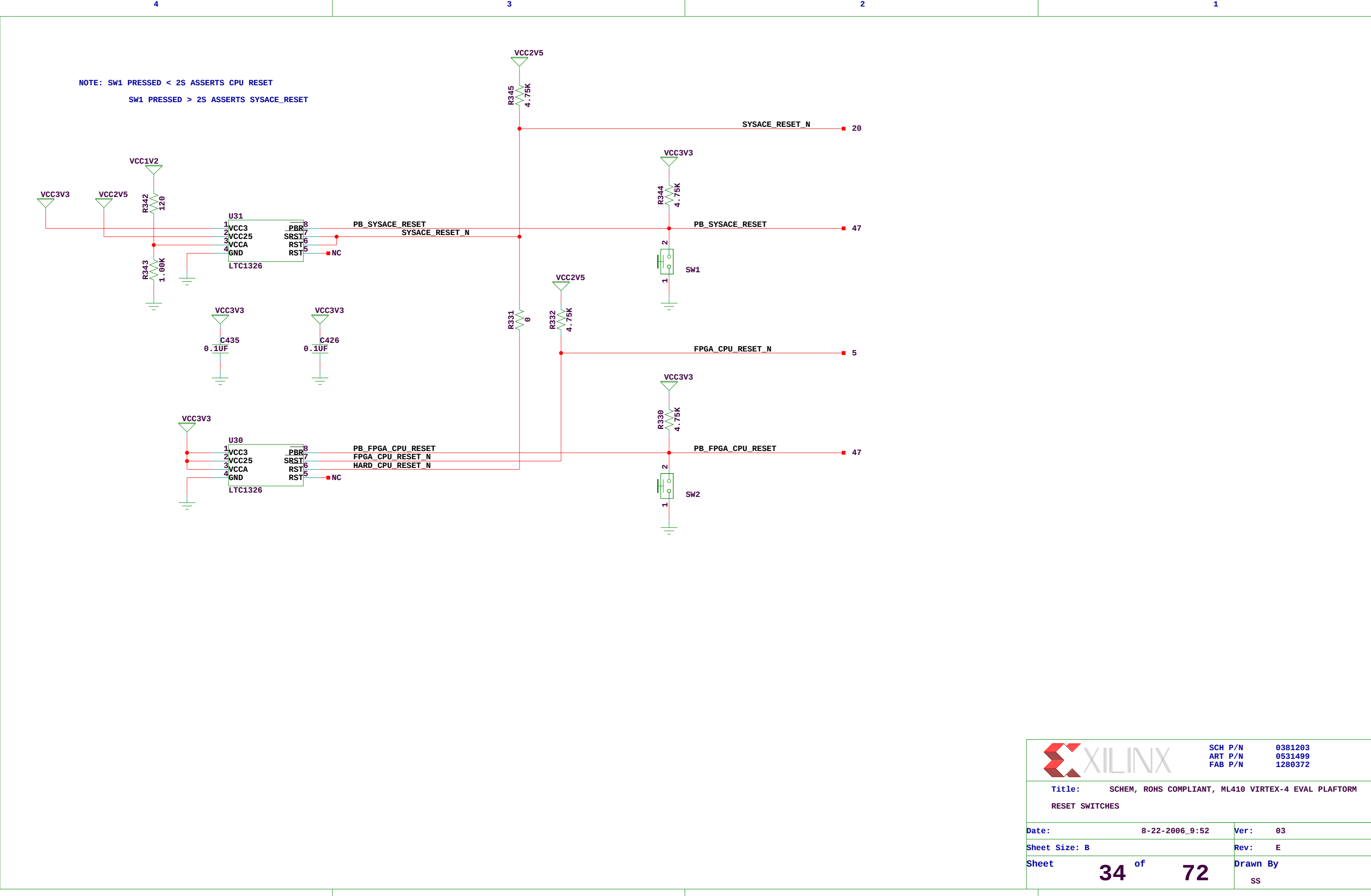
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Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLAFORM AC97 CONNECTORS		
Date: 8-22-2006_9:52	Ver: 03	
Sheet Size: B	Rev: E	
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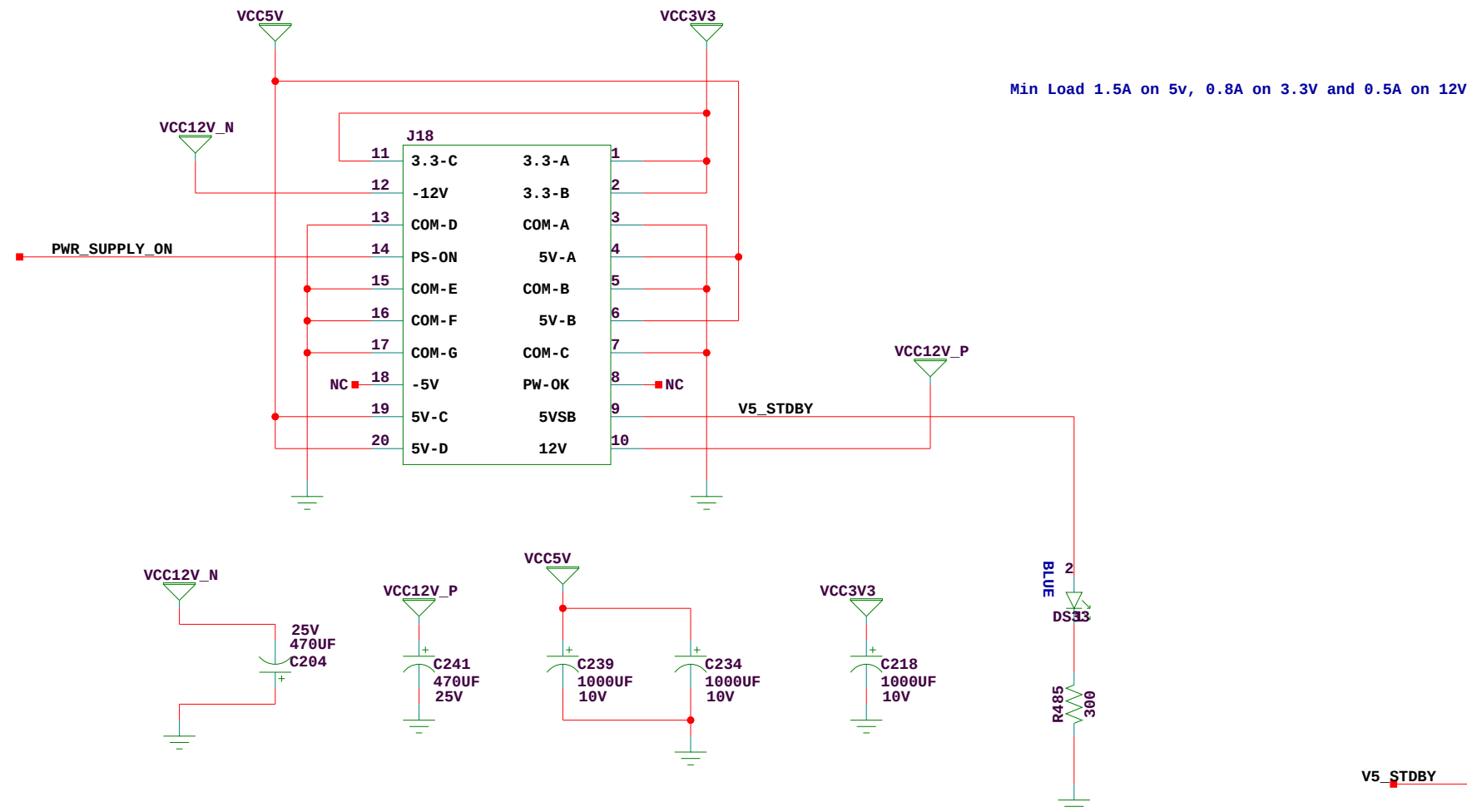


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		ART P/N	0531499
		FAB P/N	1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLAFORM			
I2C AND SPI DEVICES			
Date:	8-22-2006_9:52	Ver:	03
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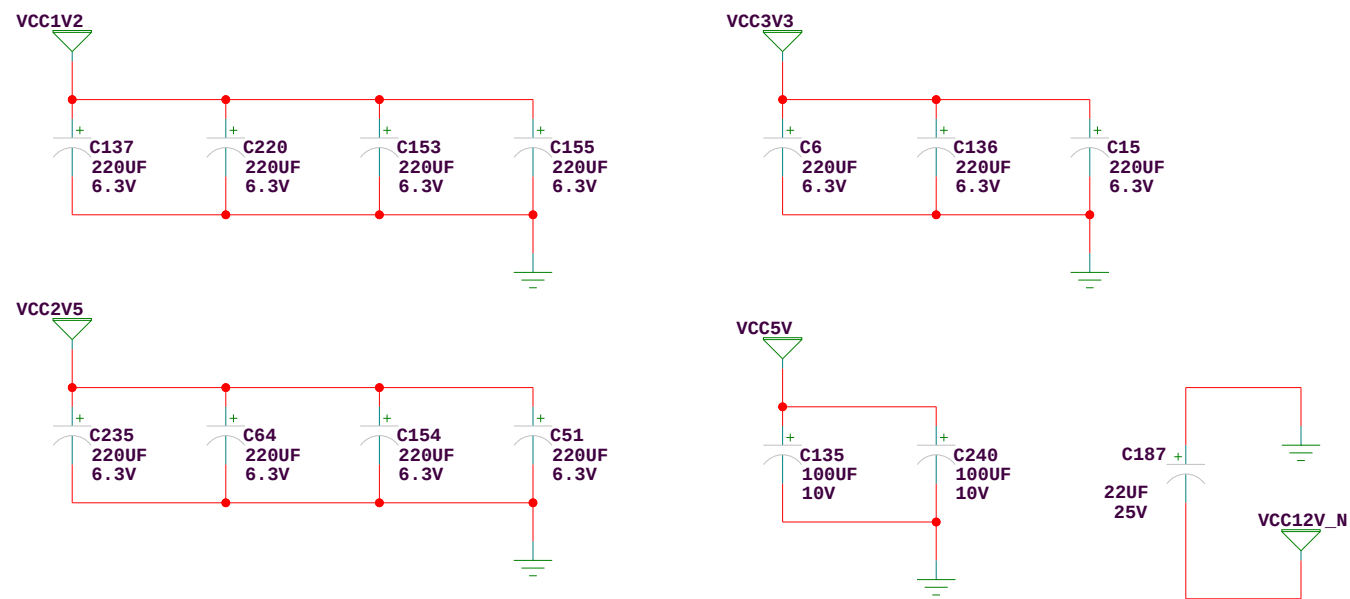


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		ART P/N	0531499
		FAB P/N	1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLAFTRM DEBUG AND STATUS LEDS			
Date:	8-22-2006_9:52	Ver:	03
Sheet Size: B		Rev:	E
Sheet	32 of 72	Drawn By	SS

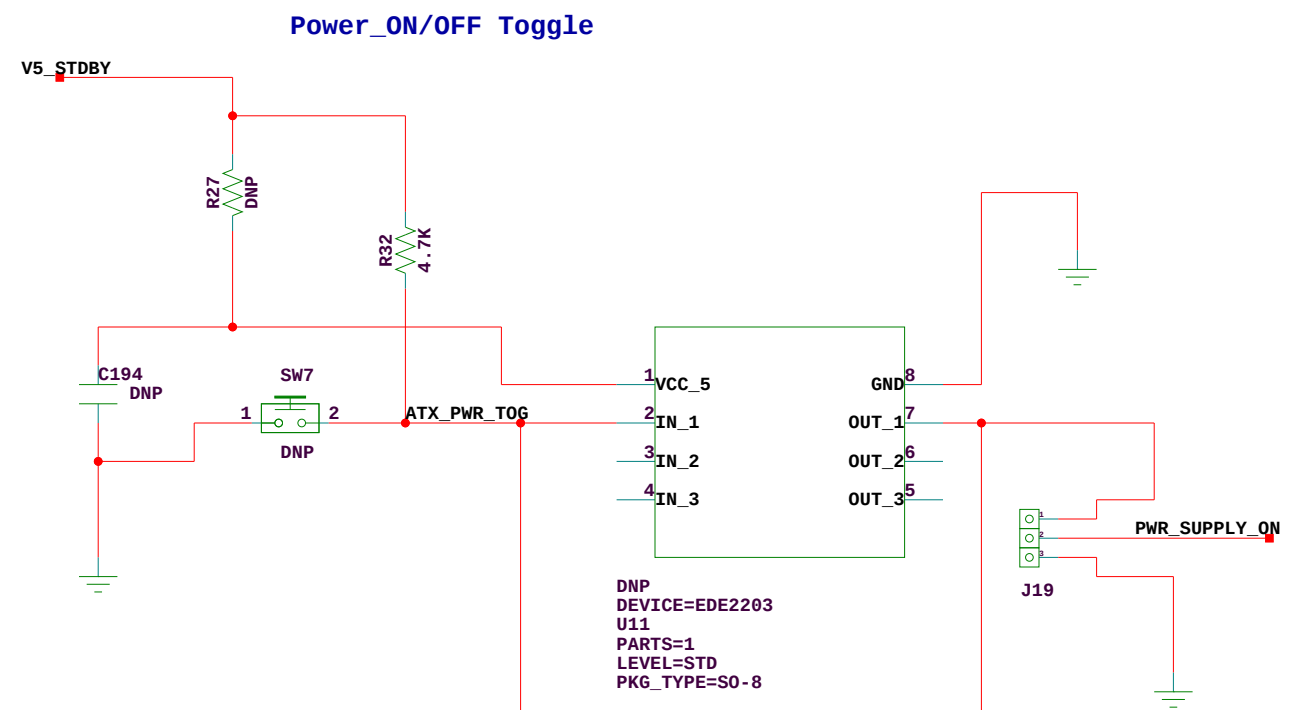




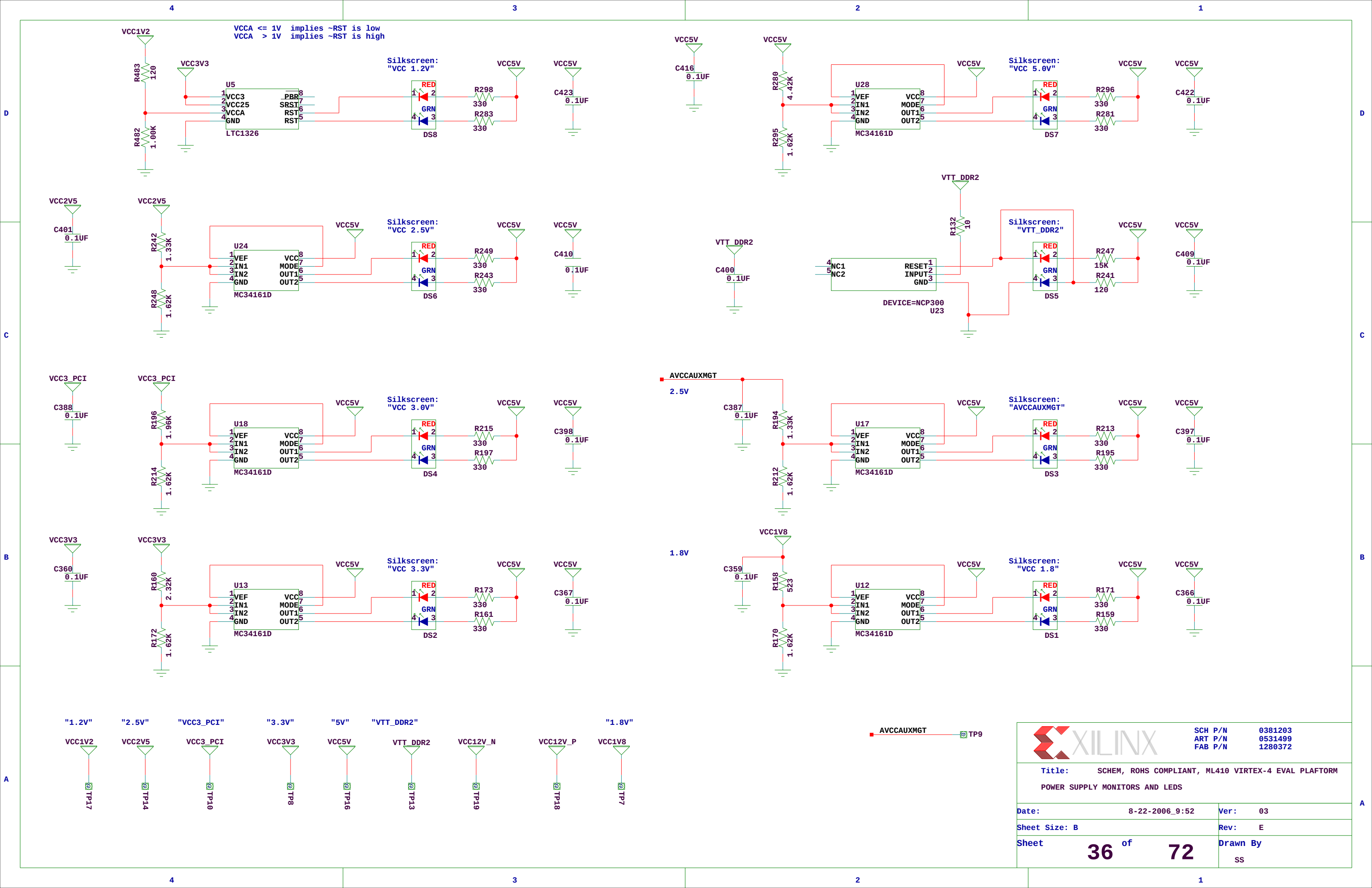
ATX Power Connector



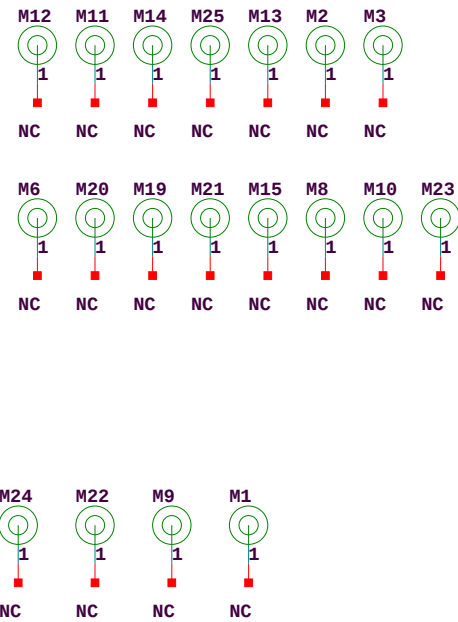
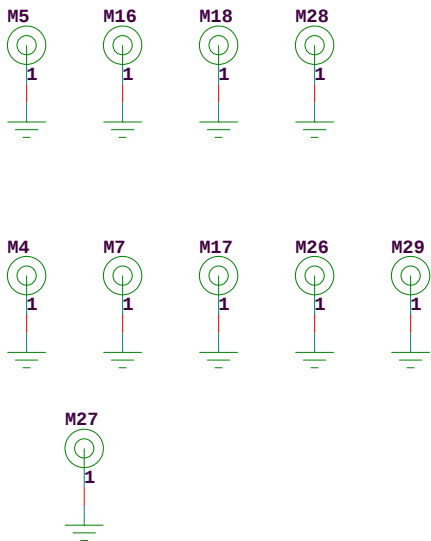
BULK CAPS DISTRIBUTED AROUND BOARD.



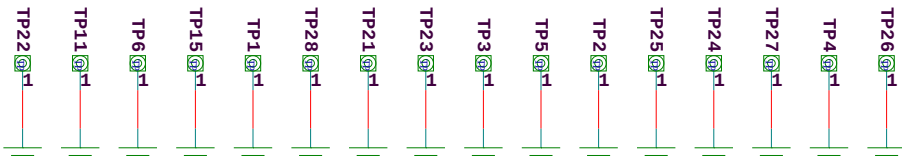
	SCH P/N	0381203
	ART P/N	0531499
	FAB P/N	1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLATFOM ATX CONNECTOR, PWR TOGGLE AND HEADER		
Date:	8-22-2006_9:52	Ver: 03
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Mounting holes for ATX Form Factor

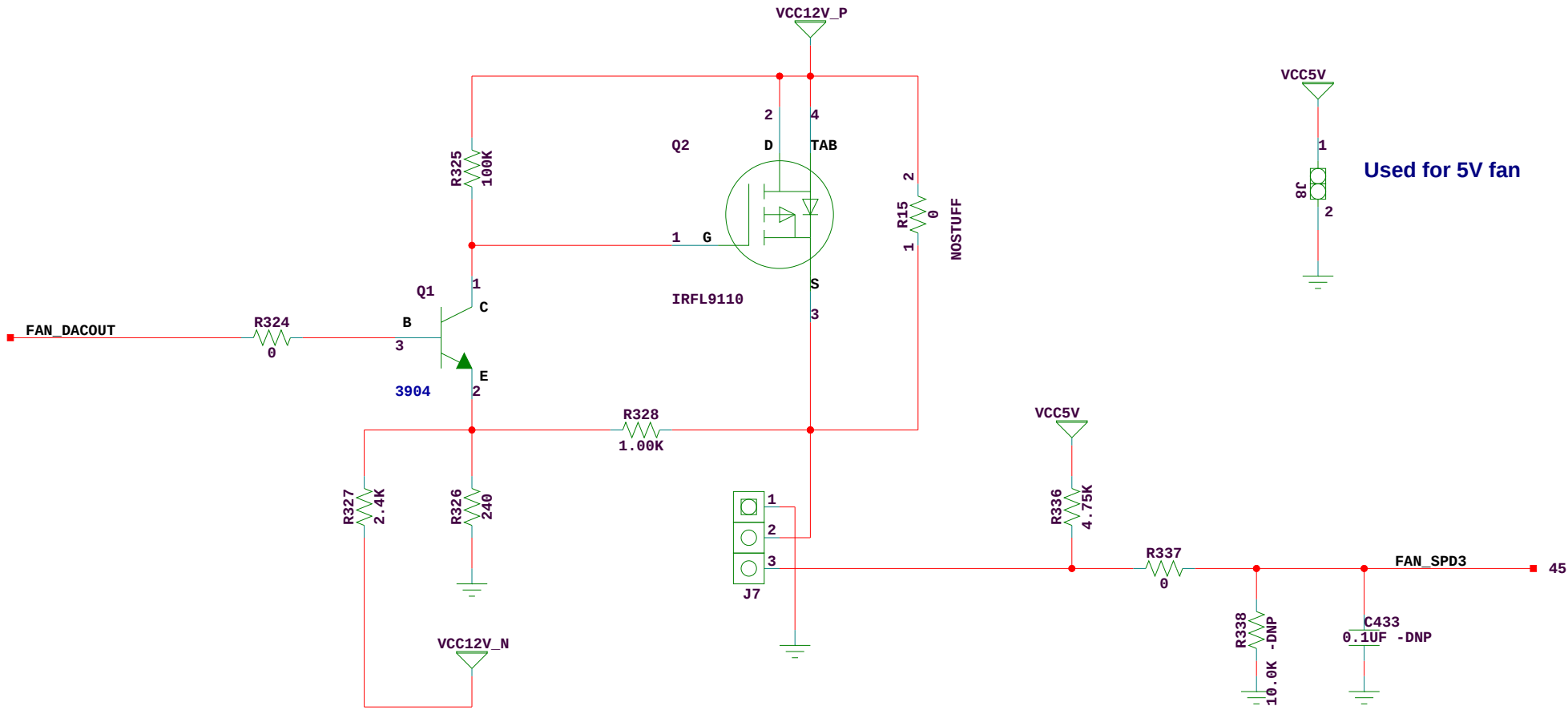


Spread out on the board.



Silkscreen:
"GND"

	SCH P/N	0381203
	ART P/N	0531499
	FAB P/N	1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLAFTORM ATX MOUNTING HOLES AND TEST POINTS		
Date:	8-22-2006_9:52	Ver: 03
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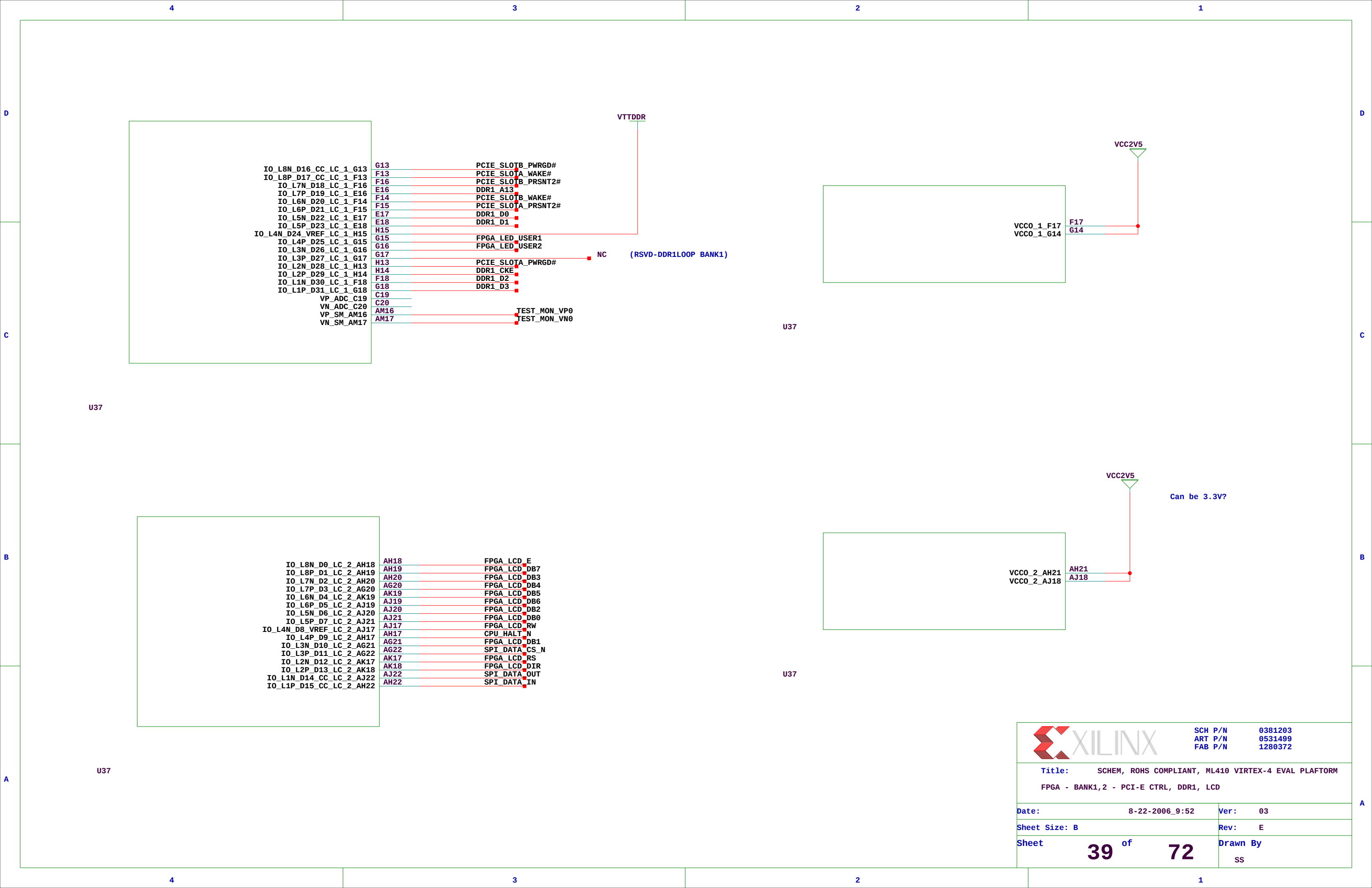
SCH P/N 0381203
ART P/N 0531499
FAB P/N 1280372

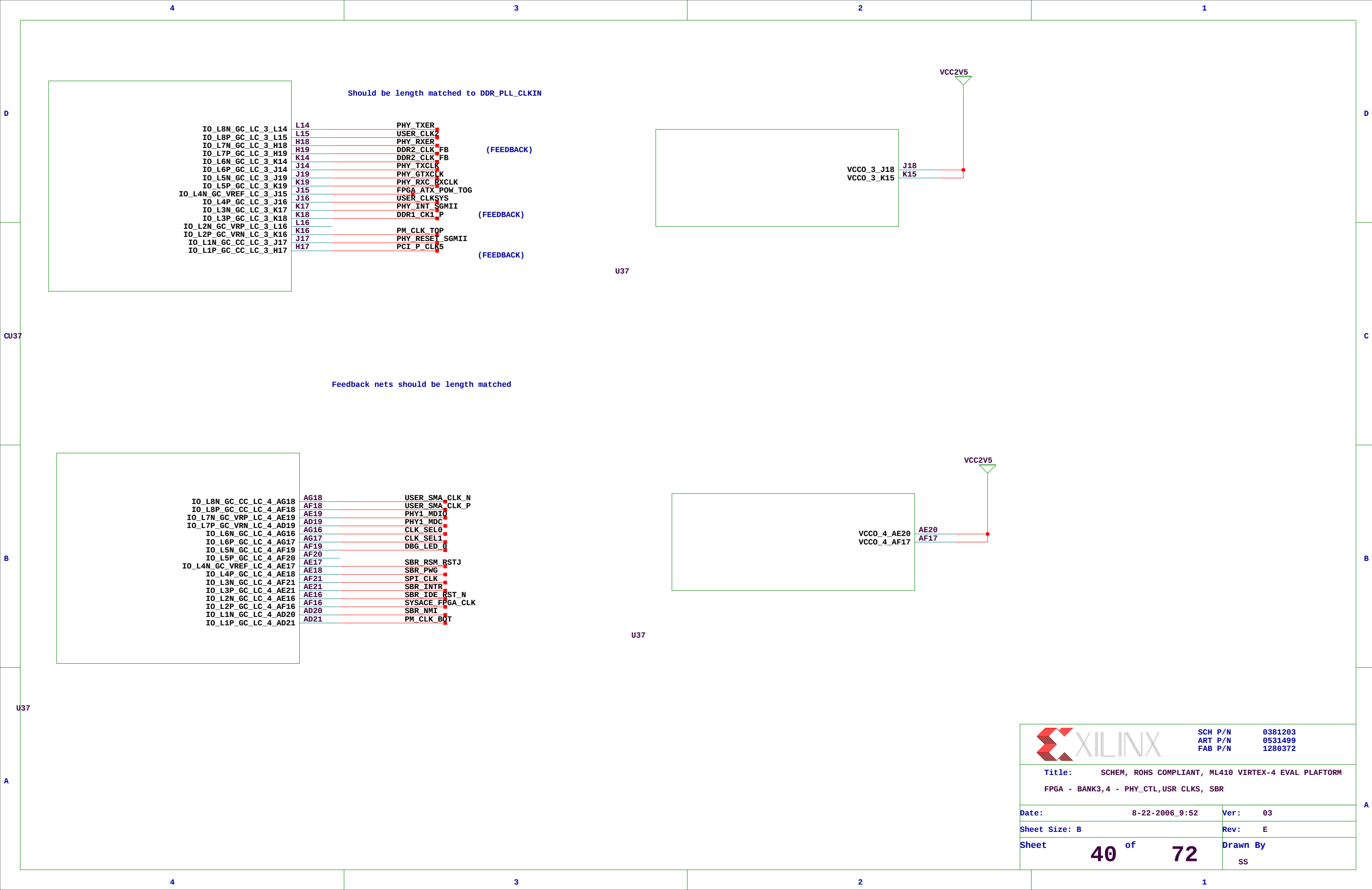
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLAFORM
FPGA FAN SWITCH AND TACH

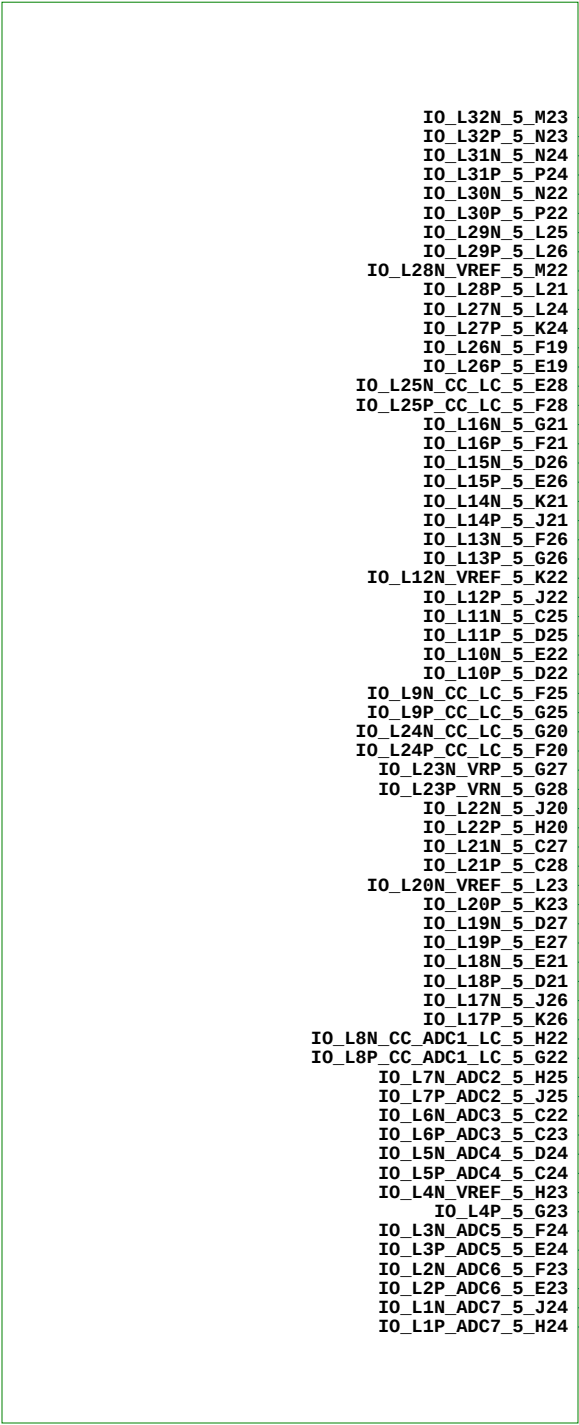
Date: 8-22-2006_9:52 Ver: 03

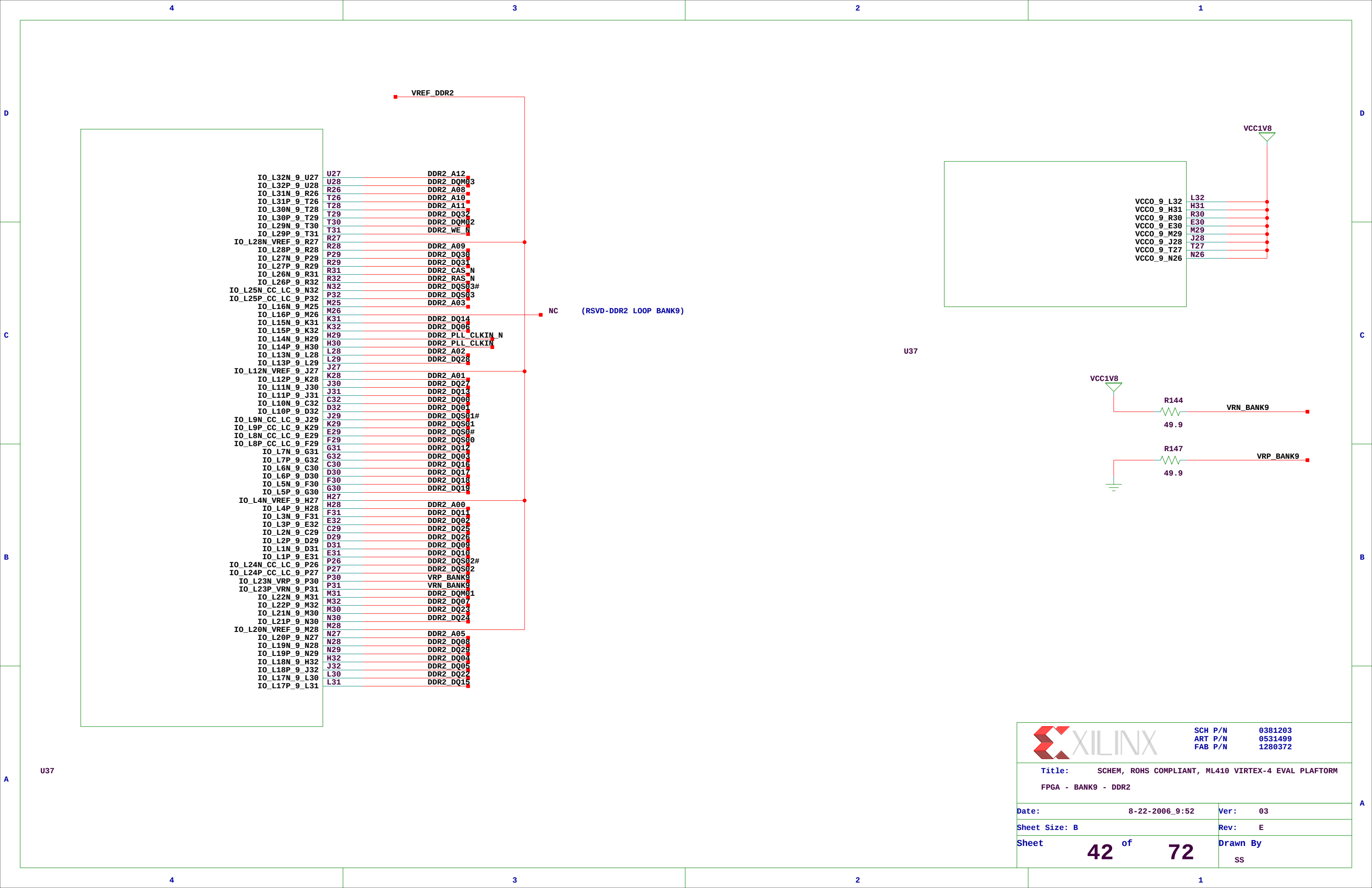
Sheet Size: B Rev: E

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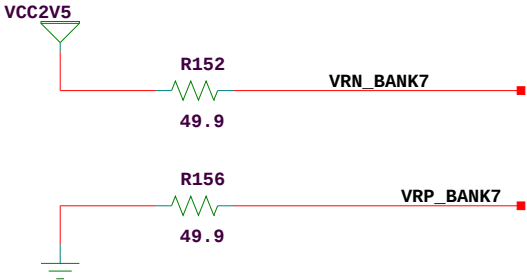






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IO_L16P_7_AK23	AK23	PM_IO_48
IO_L15N_7_AL28	AL28	PM_IO_31
IO_L15P_7_AK28	AK28	PM_IO_30
IO_L14N_7_AL23	AL23	PM_IO_51
IO_L14P_7_AM23	AM23	PM_IO_50
IO_L13N_7_AM27	AM27	PM_IO_33
IO_L13P_7_AM28	AM28	PM_IO_32
IO_L12N_VREF_7_AD22	AD22	PM_IO_21
IO_L12P_7_AE22	AE22	PM_IO_20
IO_L11N_7_AH28	AH28	PM_IO_9
IO_L11P_7_AH29	AH29	PM_IO_8
IO_L10N_7_AM21	AM21	PM_IO_53
IO_L10P_7_AM22	AM22	PM_IO_52
IO_L9N_CC_LC_7_AK29	AK29	CPU_TDI
IO_L9P_CC_LC_7_AJ29	AJ29	ATD_10
IO_L8N_CC_LC_7_AK21	AK21	ATD_15
IO_L8P_CC_LC_7_AL21	AL21	ATD_12
IO_L7N_7_AL29	AL29	PM_IO_5
IO_L7P_7_AM30	AM30	PM_IO_4
IO_L6N_7_AL20	AL20	PM_IO_57
IO_L6P_7_AM20	AM20	PM_IO_56
IO_L5N_7_AL30	AL30	PM_IO_3
IO_L5P_7_AL31	AL31	PM_IO_2
IO_L4N_VREF_7_AC22	AC22	PM_IO_19
IO_L4P_7_AC23	AC23	PM_IO_18
IO_L3N_7_AM31	AM31	PM_IO_1
IO_L3P_7_AM32	AM32	PM_IO_0
IO_L2N_7_AL18	AL18	PM_IO_59
IO_L2P_7_AL19	AL19	PM_IO_58
IO_L1N_7_AK31	AK31	PM_IO_75
IO_L1P_7_AK32	AK32	PM_IO_74
IO_L24N_CC_LC_7_AH24	AH24	ATD_14
IO_L24P_CC_LC_7_AJ24	AJ24	ATD_11
IO_L23N_VRP_7_AK26	AK26	VRP_BANK7
IO_L23P_VRN_7_AK27	AK27	VRN_BANK7
IO_L22N_7_AK24	AK24	PM_IO_47
IO_L22P_7_AL24	AL24	PM_IO_46
IO_L21N_7_AE26	AE26	PM_IO_15
IO_L21P_7_AE27	AE27	PM_IO_14
IO_L20N_VREF_7_AE23	AE23	PM_IO_23
IO_L20P_7_AF23	AF23	PM_IO_22
IO_L19N_7_AF28	AF28	PM_IO_13
IO_L19P_7_AE28	AE28	PM_IO_12
IO_L18N_7_AG23	AG23	PM_IO_43
IO_L18P_7_AH23	AH23	PM_IO_42
IO_L17N_7_AG27	AG27	PM_IO_11
IO_L17P_7_AG28	AG28	PM_IO_10
IO_L32N_SM1_7_AJ25	AJ25	PM_IO_39
IO_L32P_SM1_7_AJ26	AJ26	PM_IO_38
IO_L31N_SM2_7_AF24	AF24	PM_IO_25
IO_L31P_SM2_7_AF25	AF25	PM_IO_24
IO_L30N_SM3_7_AM26	AM26	PM_IO_35
IO_L30P_SM3_7_AL26	AL26	PM_IO_34
IO_L29N_SM4_7_AH25	AH25	PM_IO_41
IO_L29P_SM4_7_AG25	AG25	PM_IO_40
IO_L28N_VREF_7_AE24	AE24	PM_IO_17
IO_L28P_7_AD24	AD24	PM_IO_16
IO_L27N_SM5_7_AG26	AG26	PM_IO_27
IO_L27P_SM5_7_AF26	AF26	PM_IO_26
IO_L26N_SM6_7_AM25	AM25	PM_IO_37
IO_L26P_SM6_7_AL25	AL25	PM_IO_36
IO_L25N_CC_SM7_LC_7_AJ27	AJ27	CPU_TCK
IO_L25P_CC_SM7_LC_7_AH27	AH27	CPU_TRST_N

VCC0_7_AL32	AL32
VCC0_7_AM29	AM29
VCC0_7_AJ28	AJ28
VCC0_7_AF27	AF27
VCC0_7_AK25	AK25
VCC0_7_AG24	AG24
VCC0_7_AD23	AD23
VCC0_7_AL22	AL22
VCC0_7_AM19	AM19



SCH P/N 0381203
ART P/N 0531499
FAB P/N 1280372

Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLATFOrm
FPGA - BANK7- PM_IO_*

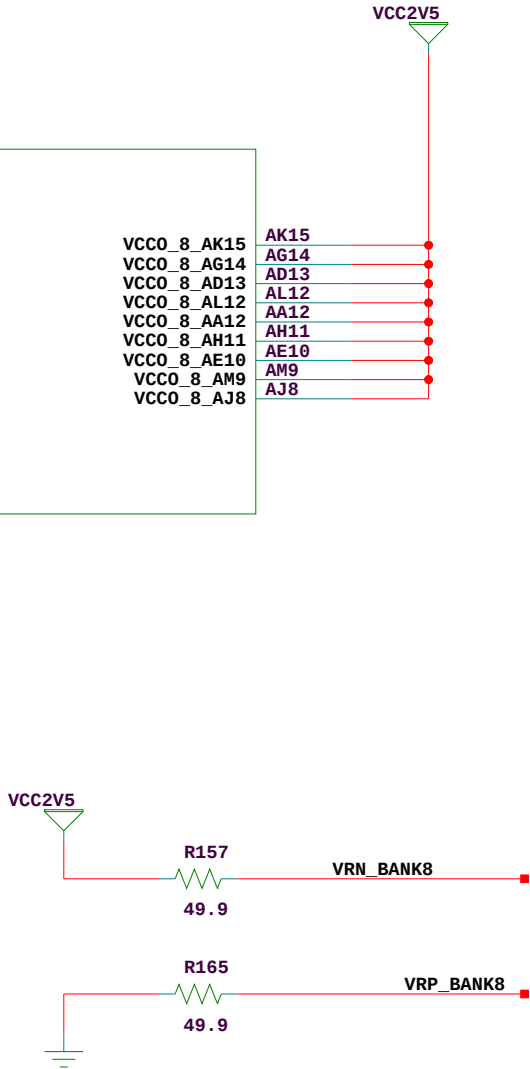
Date: 8-22-2006_9:52 Ver: 03

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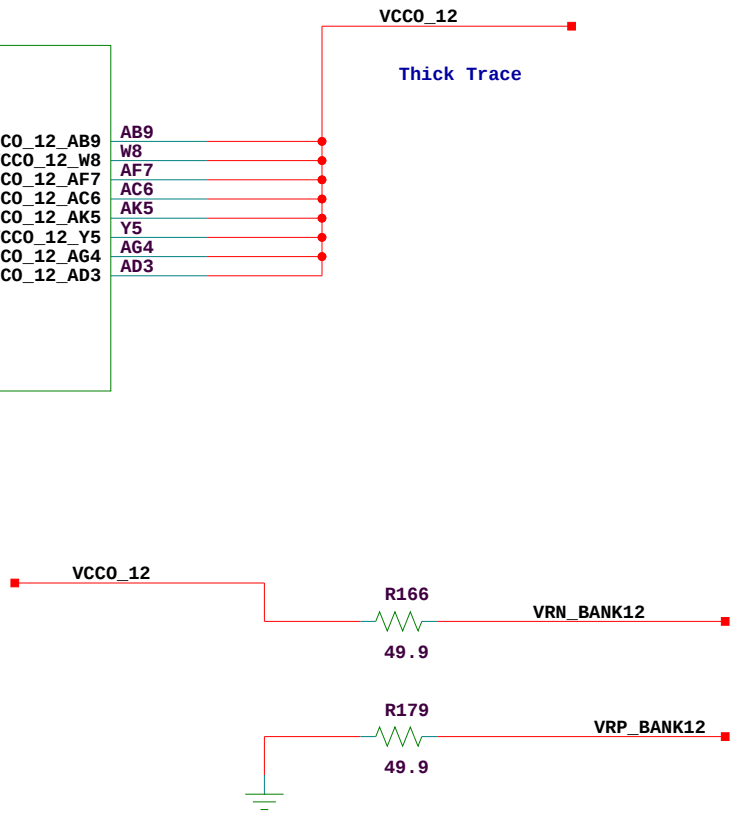
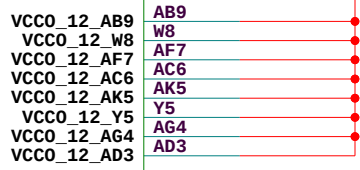
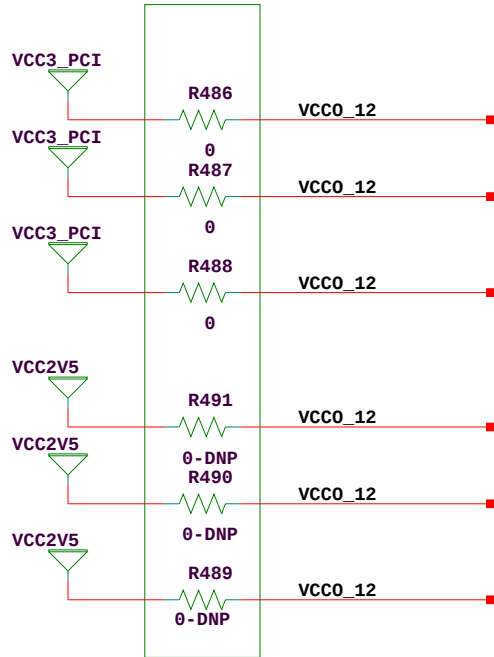
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IO_L16P_8_AL10	AL10	PM_IO_6
IO_L15N_8_AF13	AF13	PM_IO_61
IO_L15P_8_AE13	AE13	PM_IO_60
IO_L14N_8_AH9	AH9	PM_IO_55
IO_L14P_8_AJ9	AJ9	PM_IO_54
IO_L13N_8_AF14	AF14	PM_IO_85
IO_L13P_8_AE14	AE14	PM_IO_84
IO_L12N_VREF_8_AD9	AD9	PLB_BUS_ERROR
IO_L12P_8_AD10	AD10	OPB_BUS_ERROR
IO_L11N_8_AE11	AE11	PM_IO_73
IO_L11P_8_AD11	AD11	PM_IO_72
IO_L10N_8_AK9	AK9	PM_IO_95
IO_L10P_8_AL9	AL9	PM_IO_94
IO_L9N_CC_LC_8_AE12	AE12	TRC_TS6
IO_L9P_CC_LC_8_AD12	AD12	TRC_TS5
IO_L8N_CC_LC_8_AK8	AK8	TRC_CLK_R
IO_L8P_CC_LC_8_AL8	AL8	ATCB_CLK_R
IO_L7N_8_AC13	AC13	PM_IO_87
IO_L7P_8_AD14	AD14	PM_IO_86
IO_L6N_8_AM7	AM7	CPU_TMS
IO_L6P_8_AM8	AM8	CPU_TDO_TEMP
IO_L5N_8_AB12	AB12	PM_IO_93
IO_L5P_8_AC12	AC12	PM_IO_92
IO_L4N_VREF_8_AH7	AH7	TRC_TS10
IO_L4P_8_AH8	AH8	TRC_TS1E
IO_L3N_8_AA13	AA13	PM_IO_89
IO_L3P_8_AB13	AB13	PM_IO_88
IO_L2N_8_AJ7	AJ7	ATD_8
IO_L2P_8_AK7	AK7	ATD_16
IO_L1N_8_AA11	AA11	PM_IO_91
IO_L1P_8_AB11	AB11	PM_IO_90
IO_L24N_CC_LC_8_AK11	AK11	ATD_13
IO_L24P_CC_LC_8_AJ11	AJ11	ATD_17
IO_L23N_VRP_8_AJ14	AJ14	VRP_BANK8
IO_L23P_VRN_8_AH14	AH14	VRN_BANK8
IO_L22N_8_AM11	AM11	PM_IO_45
IO_L22P_8_AL11	AL11	PM_IO_44
IO_L21N_8_AJ15	AJ15	PM_IO_79
IO_L21P_8_AH15	AH15	PM_IO_78
IO_L20N_VREF_8_AG10	AG10	TRC_TS20
IO_L20P_8_AF10	AF10	TRC_TS4
IO_L19N_8_AK16	AK16	PM_IO_77
IO_L19P_8_AJ16	AJ16	PM_IO_76
IO_L18N_8_AJ10	AJ10	PM_IO_63
IO_L18P_8_AH10	AH10	PM_IO_62
IO_L17N_8_AG15	AG15	PM_IO_81
IO_L17P_8_AF15	AF15	PM_IO_80
IO_L32N_8_AL13	AL13	PM_IO_65
IO_L32P_8_AK13	AK13	PM_IO_64
IO_L31N_8_AL14	AL14	PM_IO_83
IO_L31P_8_AK14	AK14	PM_IO_82
IO_L30N_8_AM12	AM12	PM_IO_67
IO_L30P_8_AM13	AM13	PM_IO_66
IO_L29N_8_AH12	AH12	PM_IO_71
IO_L29P_8_AG12	AG12	PM_IO_70
IO_L28N_VREF_8_AE9	AE9	PM_IO_29
IO_L28P_8_AF9	AF9	PM_IO_28
IO_L27N_8_AG11	AG11	TRC_TS2E
IO_L27P_8_AF11	AF11	TRC_TS3
IO_L26N_8_AK12	AK12	PM_IO_69
IO_L26P_8_AJ12	AJ12	PM_IO_68
IO_L25N_CC_LC_8_AH13	AH13	ATD_18
IO_L25P_CC_LC_8_AG13	AG13	ATD_9

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	SCH P/N	0381203
	ART P/N	0531499
	FAB P/N	1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLATFOrm		
FPGA - BANK8 - PM_IO,MICTOR, CPU_DEBUG		
Date:	8-22-2006_9:52	Ver: 03
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Sheet	45 of 72	Drawn By SS

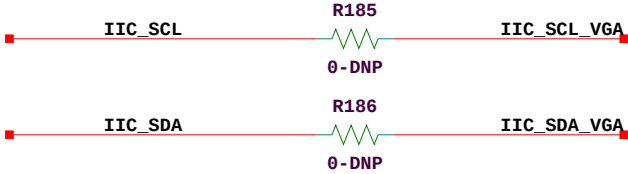
IO_L32N_12_AH5	AH5	SYSACE_MPD03
IO_L32P_12_AJ5	AJ5	SYSACE_MPD07
IO_L31N_12_AC9	AC9	DBG_LED_6
IO_L31P_12_AC10	AC10	DBG_LED_7
IO_L30N_12_AG5	AG5	SYSACE_MPD01
IO_L30P_12_AG6	AG6	SYSACE_MPD00
IO_L29N_12_AL6	AL6	SYSACE_MPD12
IO_L29P_12_AM6	AM6	SYSACE_MPD1RQ
IO_L28N_VREF_12_AD6	AD6	DBG_LED_2
IO_L28P_12_AD7	AD7	DBG_LED_3
IO_L27N_12_AG7	AG7	PM_IO_3V_17
IO_L27P_12_AG8	AG8	PM_IO_3V_5
IO_L26N_12_AL3	AL3	PM_IO_3V_9
IO_L26P_12_AM3	AM3	PM_IO_3V_13
IO_L25N_CC_LC_12_AJ6	AJ6	SYSACE_MPD06
IO_L25P_CC_LC_12_AK6	AK6	SYSACE_MPD09
IO_L16N_12_AD4	AD4	SYSACE_CLK_OE
IO_L16P_12_AD5	AD5	DBG_LED_1
IO_L15N_12_AE6	AE6	SYSACE_MPA00
IO_L15P_12_AF6	AF6	SYSACE_MPA03
IO_L14N_12_AC3	AC3	PM_IO_3V_16
IO_L14P_12_AC4	AC4	PM_IO_3V_12
IO_L13N_12_AA8	AA8	PM_IO_3V_25
IO_L13P_12_AA9	AA9	PM_IO_3V_18
IO_L12N_VREF_12_Y9	Y9	PM_IO_3V_1
IO_L12P_12_W9	W9	PM_IO_3V_3
IO_L11N_12_AF3	AF3	SYSACE_MPA06
IO_L11P_12_AG3	AG3	SYSACE_MPD02
IO_L10N_12_Y6	Y6	PM_IO_3V_7
IO_L10P_12_AA6	AA6	PM_IO_3V_22
IO_L9N_CC_LC_12_AB6	AB6	SYSACE_MPCE
IO_L9P_CC_LC_12_AB7	AB7	SYSACE_MPBRDY
IO_L8N_CC_LC_12_AA3	AA3	SYSACE_MPD15
IO_L8P_CC_LC_12_AB3	AB3	SYSACE_MPWE
IO_L7N_12_AB5	AB5	PM_IO_3V_19
IO_L7P_12_AC5	AC5	PM_IO_3V_24
IO_L6N_12_Y3	Y3	PM_IO_3V_10
IO_L6P_12_Y4	Y4	PM_IO_3V_4
IO_L5N_12_Y7	Y7	PM_IO_3V_21
IO_L5P_12_Y8	Y8	PM_IO_3V_20
IO_L4N_VREF_12_W6	W6	PM_IO_3V_15
IO_L4P_12_W7	W7	PM_IO_3V_0
IO_L3N_12_AA4	AA4	PM_IO_3V_8
IO_L3P_12_AA5	AA5	PM_IO_3V_6
IO_L2N_12_V7	V7	PM_IO_3V_23
IO_L2P_12_V8	V8	PM_IO_3V_11
IO_L1N_12_W4	W4	PM_IO_3V_2
IO_L1P_12_W5	W5	PM_IO_3V_14
IO_L24N_CC_LC_12_AH3	AH3	SYSACE_MPD05
IO_L24P_CC_LC_12_AH4	AH4	SYSACE_MPD04
IO_L23N_VRP_12_AE7	AE7	VRP_BANK12
IO_L23P_VRN_12_AF8	AF8	VRN_BANK12
IO_L22N_12_AF4	AF4	SYSACE_MPA05
IO_L22P_12_AF5	AF5	SYSACE_MPA04
IO_L21N_12_AK4	AK4	SYSACE_MPD10
IO_L21P_12_AL4	AL4	SYSACE_MPD14
IO_L20N_VREF_12_AB8	AB8	DBG_LED_4
IO_L20P_12_AC7	AC7	DBG_LED_5
IO_L19N_12_AL5	AL5	SYSACE_MPD13
IO_L19P_12_AM5	AM5	SYSACE_MPOE
IO_L18N_12_AE3	AE3	SYSACE_MPA02
IO_L18P_12_AE4	AE4	SYSACE_MPA01
IO_L17N_12_AK3	AK3	SYSACE_MPD11
IO_L17P_12_AJ4	AJ4	SYSACE_MPD08



	SCH P/N	0381203
	ART P/N	0531499
	FAB P/N	1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLATFOrm		
FPGA - BANK12 - SYSACE, PM_IO_3,DBG_LED		
Date:	8-22-2006_9:52	Ver: 03
Sheet Size: B		Rev: E
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IO_L32N_10_U6	U6	PCI_P_CLK3_R
IO_L32P_10_U7	U7	PCI_P_CLK3_R
IO_L31N_10_T10	T10	IIC_SDA_VGA
IO_L31P_10_T11	T11	PCI_P_CLK1_R
IO_L30N_10_V3	V3	PCI_P_GNT3_N
IO_L30P_10_V4	V4	PCI_P_INT0_N
IO_L29N_10_R9	R9	PCI_P_REQ4_N
IO_L29P_10_T9	T9	PCI_P_REQ3_N
IO_L28N_VREF_10_R7	R7	PCI_P_REQ1_N
IO_L28P_10_R8	R8	PCI_P_INT8_N
IO_L27N_10_T8	T8	PCI_P_REQ2_N
IO_L27P_10_U8	U8	PCI_P_GNT2_N
IO_L26N_10_T3	T3	PCI_P_REQ0_N
IO_L26P_10_U3	U3	PCI_P_CLK4_R
IO_L25N_CC_LC_10_U5	U5	PCI_P_CLK5_R
IO_L25P_CC_LC_10_V5	V5	PCI_P_CLK0_R
IO_L16N_10_N3	N3	PCI_P_AD06
IO_L16P_10_M3	M3	PCI_P_TRDY_N
IO_L15N_10_M5	M5	PCI_P_CBE0_N
IO_L15P_10_M6	M6	PCI_P_PERR_N
IO_L14N_10_L3	L3	PCI_P_AD27
IO_L14P_10_L4	L4	PCI_P_AD00
IO_L13N_10_L5	L5	PCI_P_AD01
IO_L13P_10_L6	L6	PCI_P_CBE1_N
IO_L12N_VREF_10_N7	N7	PCI_FPGA_IDSEL
IO_L12P_10_N8	N8	PCI_P_FRAME_N
IO_L11N_10_N9	N9	PCI_P_AD18
IO_L11P_10_N10	N10	PCI_P_AD19
IO_L10N_10_K3	K3	PCI_P_AD20
IO_L10P_10_K4	K4	PCI_P_AD21
IO_L9N_CC_LC_10_K6	K6	PCI_P_AD28
IO_L9P_CC_LC_10_J6	J6	PCI_P_AD22
IO_L8N_CC_LC_10_J4	J4	PCI_P_AD14
IO_L8P_CC_LC_10_J5	J5	PCI_P_AD15
IO_L7N_10_F3	F3	PCI_P_AD09
IO_L7P_10_F4	F4	PCI_P_AD03
IO_L6N_10_H3	H3	PCI_P_AD02
IO_L6P_10_G3	G3	PCI_P_AD11
IO_L5N_10_G5	G5	PCI_P_AD08
IO_L5P_10_F5	F5	PCI_P_AD10
IO_L4N_VREF_10_M7	M7	PCI_P_SERR_N
IO_L4P_10_M8	M8	PCI_P_AD24
IO_L3N_10_M10	M10	PCI_P_AD25
IO_L3P_10_L10	L10	PCI_P_AD13
IO_L2N_10_H4	H4	PCI_P_AD16
IO_L2P_10_H5	H5	PCI_P_AD17
IO_L1N_10_L8	L8	PCI_P_PAR
IO_L1P_10_L9	L9	PCI_P_AD12
IO_L24N_CC_LC_10_R6	R6	PCI_P_CBE3_N
IO_L24P_CC_LC_10_T6	T6	PCI_P_GNT4_N
IO_L23N_VRP_10_R11	R11	PCI_P_RST_N
IO_L23P_VRN_10_P11	P11	PCI_P_STOP_N
IO_L22N_10_P6	P6	PCI_P_AD30
IO_L22P_10_P7	P7	PCI_P_AD31
IO_L21N_10_T4	T4	PCI_P_GNT0_N
IO_L21P_10_T5	T5	PCI_P_GNT1_N
IO_L20N_VREF_10_R3	R3	PCI_P_DEVSEL_N
IO_L20P_10_R4	R4	PCI_P_CBE2_N
IO_L19N_10_P9	P9	PCI_P_INTC_N
IO_L19P_10_P10	P10	IIC_SCL_VGA
IO_L18N_10_P4	P4	PCI_P_LOCK_N
IO_L18P_10_P5	P5	PCI_P_INTA_N
IO_L17N_10_N4	N4	PCI_P_AD07
IO_L17P_10_N5	N5	PCI_P_IRDY_N

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VCC0_10_R10	R10
VCC0_10_M9	M9
VCC0_10_T7	T7
VCC0_10_N6	N6
VCC0_10_K5	K5
VCC0_10_U4	U4
VCC0_10_G4	G4
VCC0_10_P3	P3

VCC3_PCI



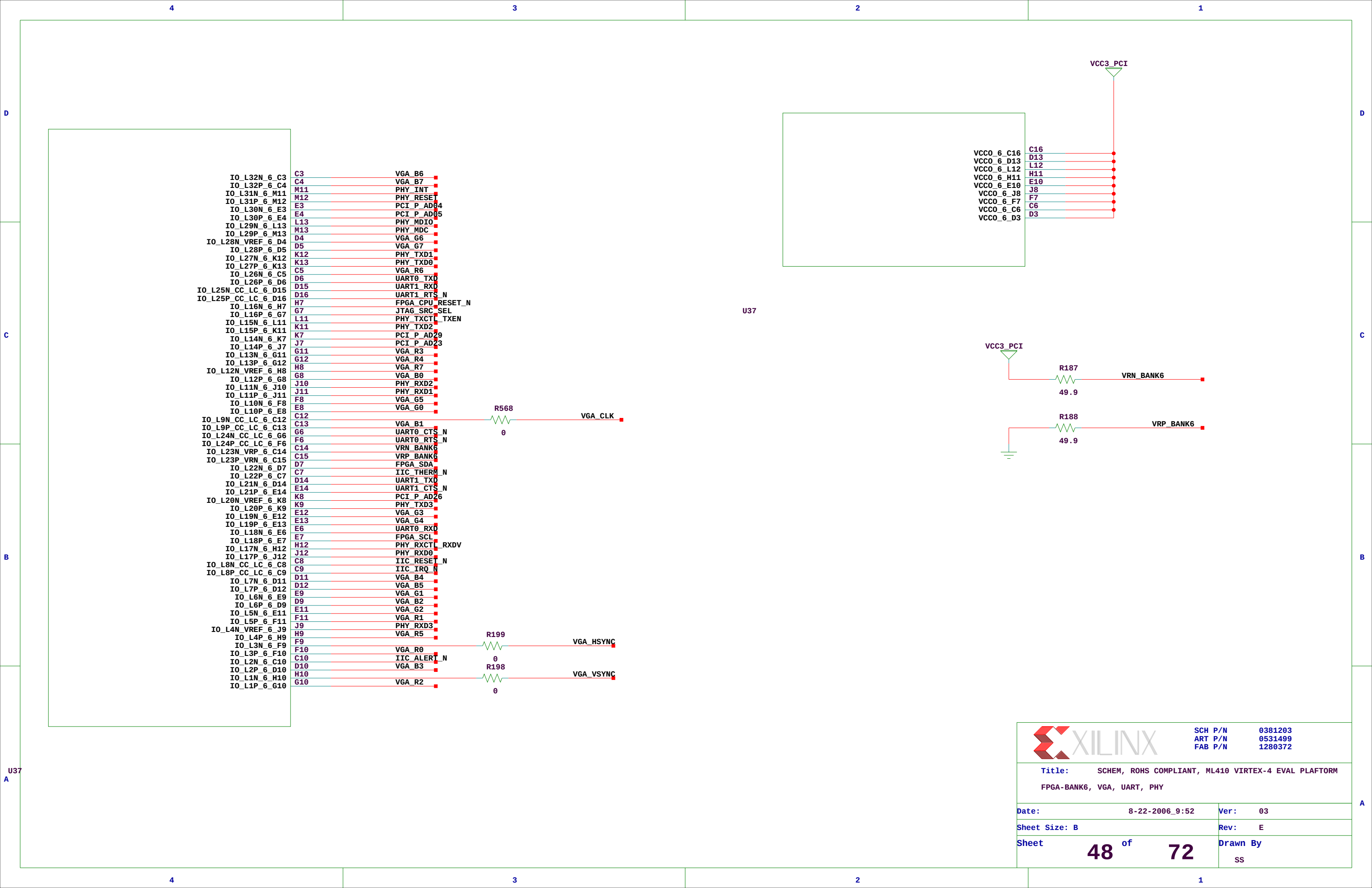
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ART P/N 0531499
FAB P/N 1280372

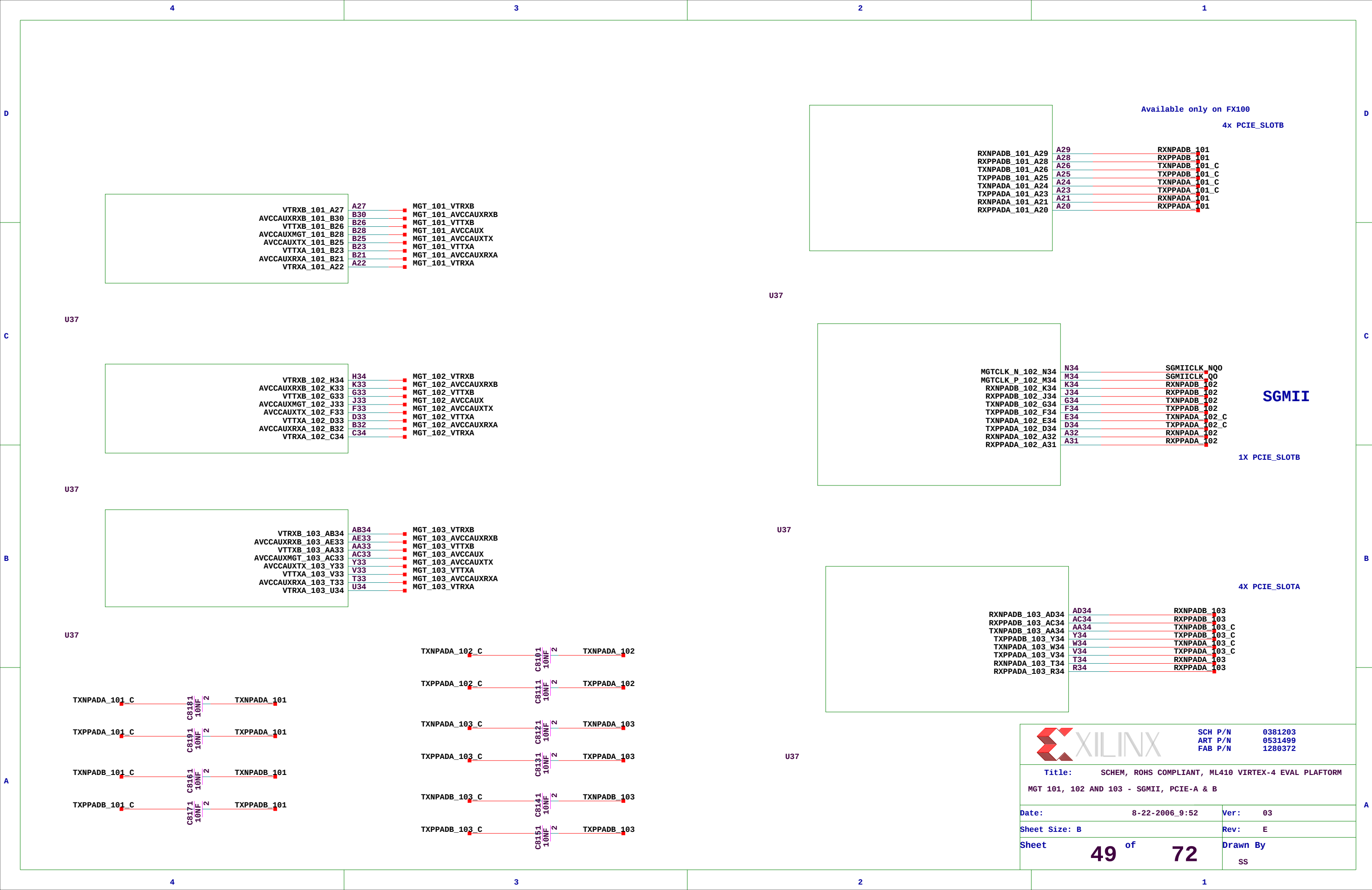
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FPGA - BANK10 - PCI

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MGTVREF_105_AN27
RTERM_105_AN29

AN27 MGTVREF_105
AN29 MGT_RTERM_105

VTRXB_105_AN33
AVCCAUXRXB_105_AN31
VTTXB_105_AM33
AVCCAUXMGT_105_AN32
AVCCAUXTX_105_AL33
VTTXA_105_AJ33
AVCCAUXRXA_105_AG33
VTRXA_105_AH34

AN33 MGT_105_VTRXB
AN31 MGT_105_AVCCAUXRXB
AM33 MGT_105_VTTXB
AN32 MGT_105_AVCCAUX
AL33 MGT_105_AVCCAUXTX
AJ33 MGT_105_VTTXA
AG33 MGT_105_AVCCAUXRXA
AH34 MGT_105_VTRXA

MGTCLK_N_105_AP28
MGTCLK_P_105_AP29
RXNPADB_105_AP31
RXPPADB_105_AP32
TXNPADB_105_AM34
TXPPADB_105_AL34
TXNPADA_105_AK34
TXPPADA_105_AJ34
RXNPADA_105_AG34
RXPPADA_105_AF34

AP28 SATACLK_N00
AP29 SATACLK_P00
AP31 RXNPADB_105
AP32 RXPPADB_105
AM34 TXNPADB_105_C
AL34 TXPPADB_105_C
AK34 TXNPADA_105_C
AJ34 TXPPADA_105_C
AG34 RXNPADA_105
AF34 RXPPADA_105

SATA Clock

4X PCIE_SLOTA

RXNPADB_106_AP17
RXPPADB_106_AP18
TXNPADB_106_AP20
TXPPADB_106_AP21
TXNPADA_106_AP22
TXPPADA_106_AP23
RXNPADA_106_AP25
RXPPADA_106_AP26

AP17 RXNPADB_106
AP18 RXPPADB_106
AP20 TXNPADB_106
AP21 TXPPADB_106
AP22 TXNPADA_106
AP23 TXPPADA_106
AP25 RXNPADA_106
AP26 RXPPADA_106

SATA

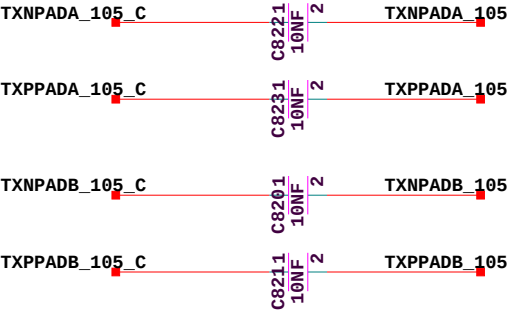
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AVCCAUXMGT_106_AN18
AVCCAUXTX_106_AN22
VTTXA_106_AN23
AVCCAUXRXA_106_AN25
VTRXA_106_AP24

AP19 MGT_106_VTRXB
AN17 MGT_106_AVCCAUXRXB
AN20 MGT_106_VTTXB
AN18 MGT_106_AVCCAUX
AN22 MGT_106_AVCCAUXTX
AN23 MGT_106_VTTXA
AN25 MGT_106_AVCCAUXRXA
AP24 MGT_106_VTRXA

RXNPADB_109_AP15
RXPPADB_109_AP14
TXNPADB_109_AP12
TXPPADB_109_AP11
TXNPADA_109_AP10
TXPPADA_109_AP9
RXNPADA_109_AP7
RXPPADA_109_AP6

AP15 RXNPADB_109
AP14 RXPPADB_109
AP12 TXNPADB_109
AP11 TXPPADB_109
AP10 TXNPADA_109
AP9 TXPPADA_109
AP7 RXNPADA_109
AP6 RXPPADA_109

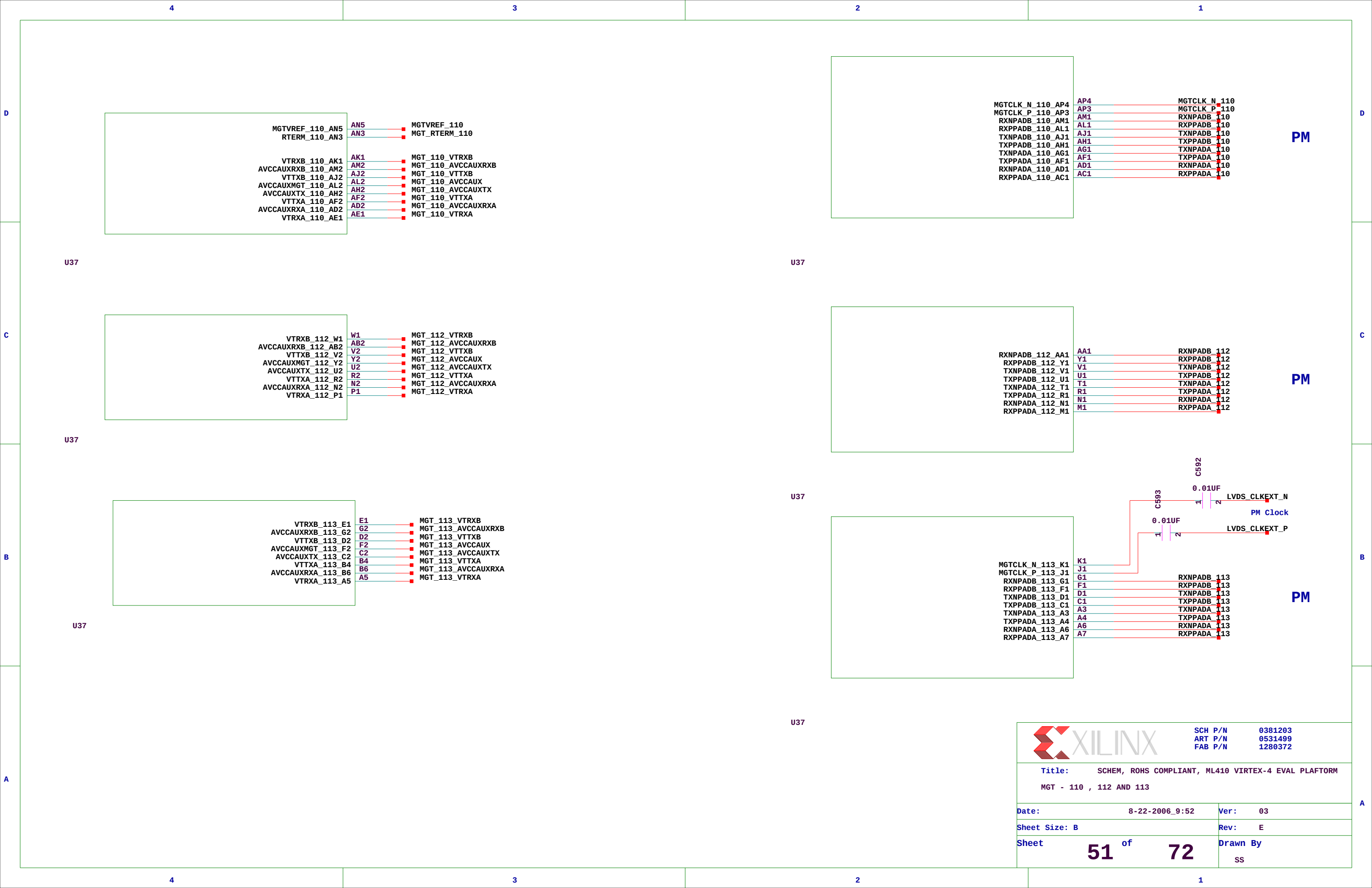
PM



SCH P/N 0381203
ART P/N 0531499
FAB P/N 1280372

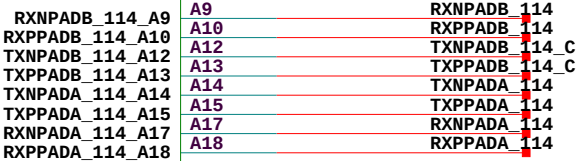
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MGT 105, 106 AND 109 - PM, SATA+CLK, PCIE

Date:	8-22-2006_9:52	Ver:	03
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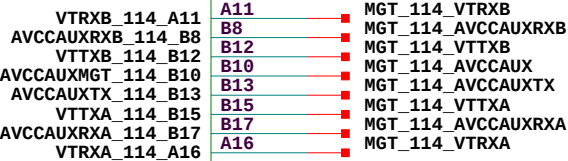


Available only on FX100

4x PCIE_SLOTB

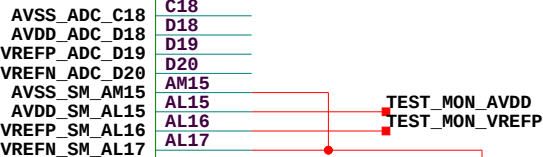
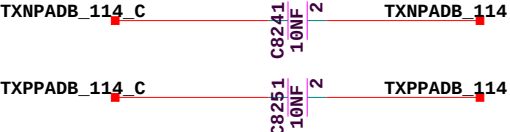
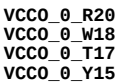


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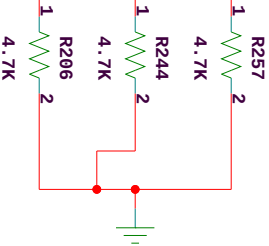
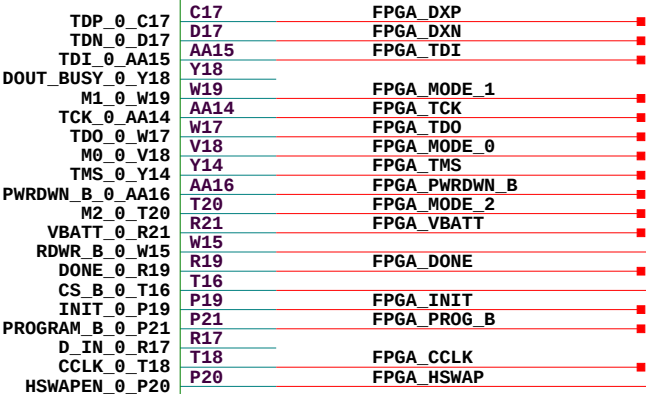
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Should be routed differentially



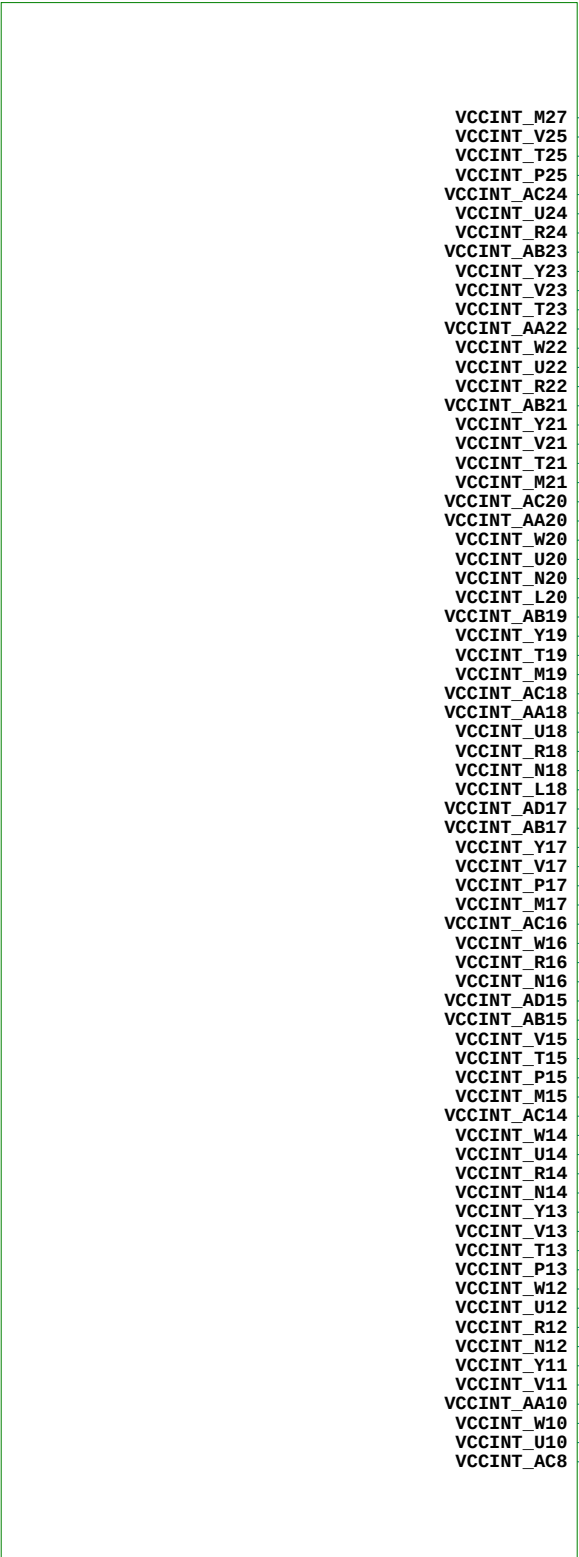
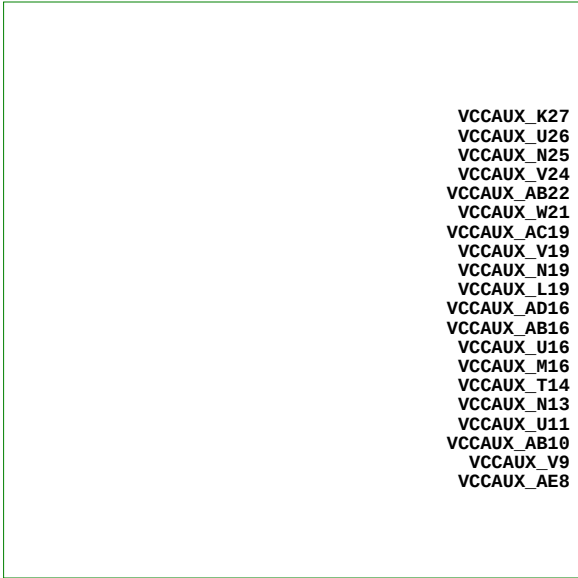
FPGA_VBATT



SCH P/N 0381203
ART P/N 0531499
FAB P/N 1280372

Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLATFOrm
MGT_114, VCCO_0, CONFIG,MISC

Date:	8-22-2006_9:52	Ver:	03
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SCH P/N 0381203
ART P/N 0531499
FAB P/N 1280372

Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLATFOrm
FPGA CORE AND VCCAUX PINS

Date:	8-22-2006_9:52	Ver:	03
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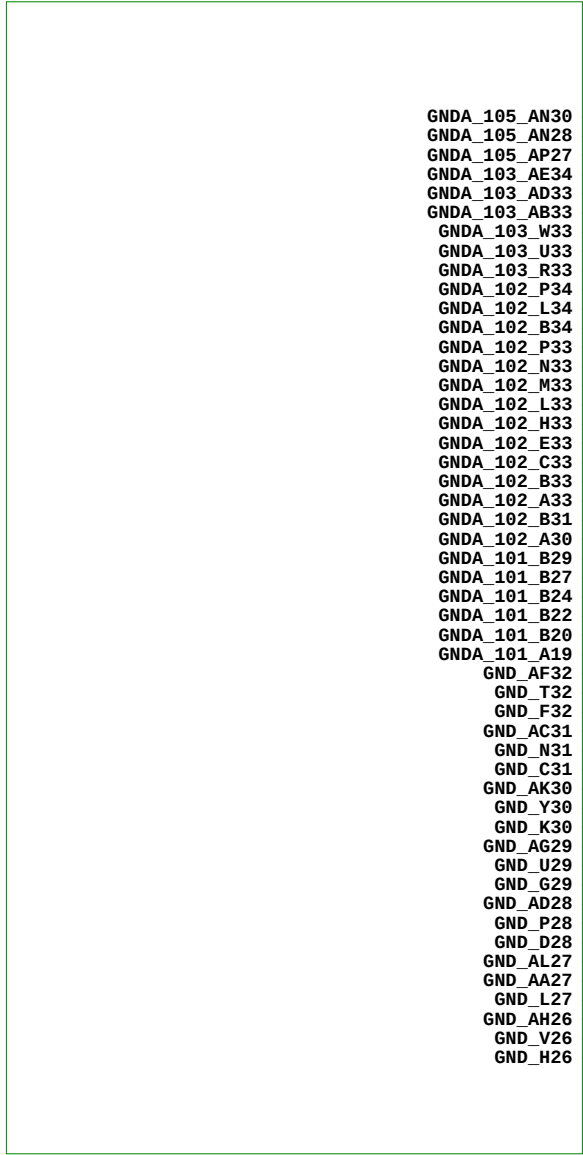
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FAB P/N 1280372

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FPGA GROUND PINS

Date: 8-22-2006_9:52 Ver: 03

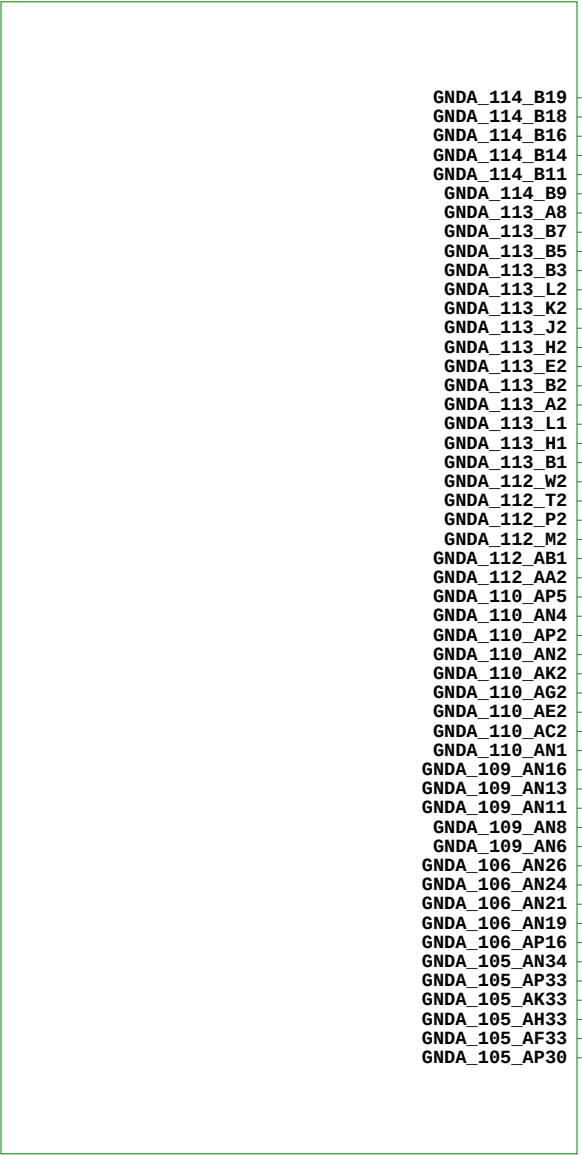
Sheet Size: B Rev: E

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GNDA_105_AN30
GNDA_105_AN28
GNDA_105_AP27
GNDA_103_AE34
GNDA_103_AD33
GNDA_103_AB33
GNDA_103_W33
GNDA_103_U33
GNDA_103_R33
GNDA_102_P34
GNDA_102_L34
GNDA_102_B34
GNDA_102_P33
GNDA_102_N33
GNDA_102_M33
GNDA_102_L33
GNDA_102_H33
GNDA_102_E33
GNDA_102_C33
GNDA_102_B33
GNDA_102_A33
GNDA_102_B31
GNDA_102_A30
GNDA_101_B29
GNDA_101_B27
GNDA_101_B24
GNDA_101_B22
GNDA_101_B20
GNDA_101_A19
GND_AF32
GND_T32
GND_F32
GND_AC31
GND_N31
GND_C31
GND_AK30
GND_Y30
GND_K30
GND_AG29
GND_U29
GND_G29
GND_AD28
GND_P28
GND_D28
GND_AL27
GND_AA27
GND_L27
GND_AH26
GND_V26
GND_H26

AN30
AN28
AP27
AE34
AD33
AB33
W33
U33
R33
P34
L34
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A33
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B27
B24
B22
B20
A19
AF32
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F32
AC31
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AK30
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AD28
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AH26
V26
H26



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GNDA_112_W2
GNDA_112_T2
GNDA_112_P2
GNDA_112_M2
GNDA_112_AB1
GNDA_112_AA2
GNDA_110_AP5
GNDA_110_AN4
GNDA_110_AP2
GNDA_110_AN2
GNDA_110_AK2
GNDA_110_AG2
GNDA_110_AE2
GNDA_110_AC2
GNDA_110_AN1
GNDA_109_AN16
GNDA_109_AN13
GNDA_109_AN11
GNDA_109_AN8
GNDA_109_AN6
GNDA_106_AN26
GNDA_106_AN24
GNDA_106_AN21
GNDA_106_AN19
GNDA_106_AP16
GNDA_105_AN34
GNDA_105_AP33
GNDA_105_AK33
GNDA_105_AH33
GNDA_105_AF33
GNDA_105_AP30

B19
B18
B16
B14
B11
B9
A8
B7
B5
B3
L2
K2
J2
H2
E2
B2
A2
L1
H1
B1
W2
T2
P2
M2
AB1
AA2
AP5
AN4
AP2
AN2
AK2
AG2
AE2
AC2
AN1
AN16
AN13
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AP30



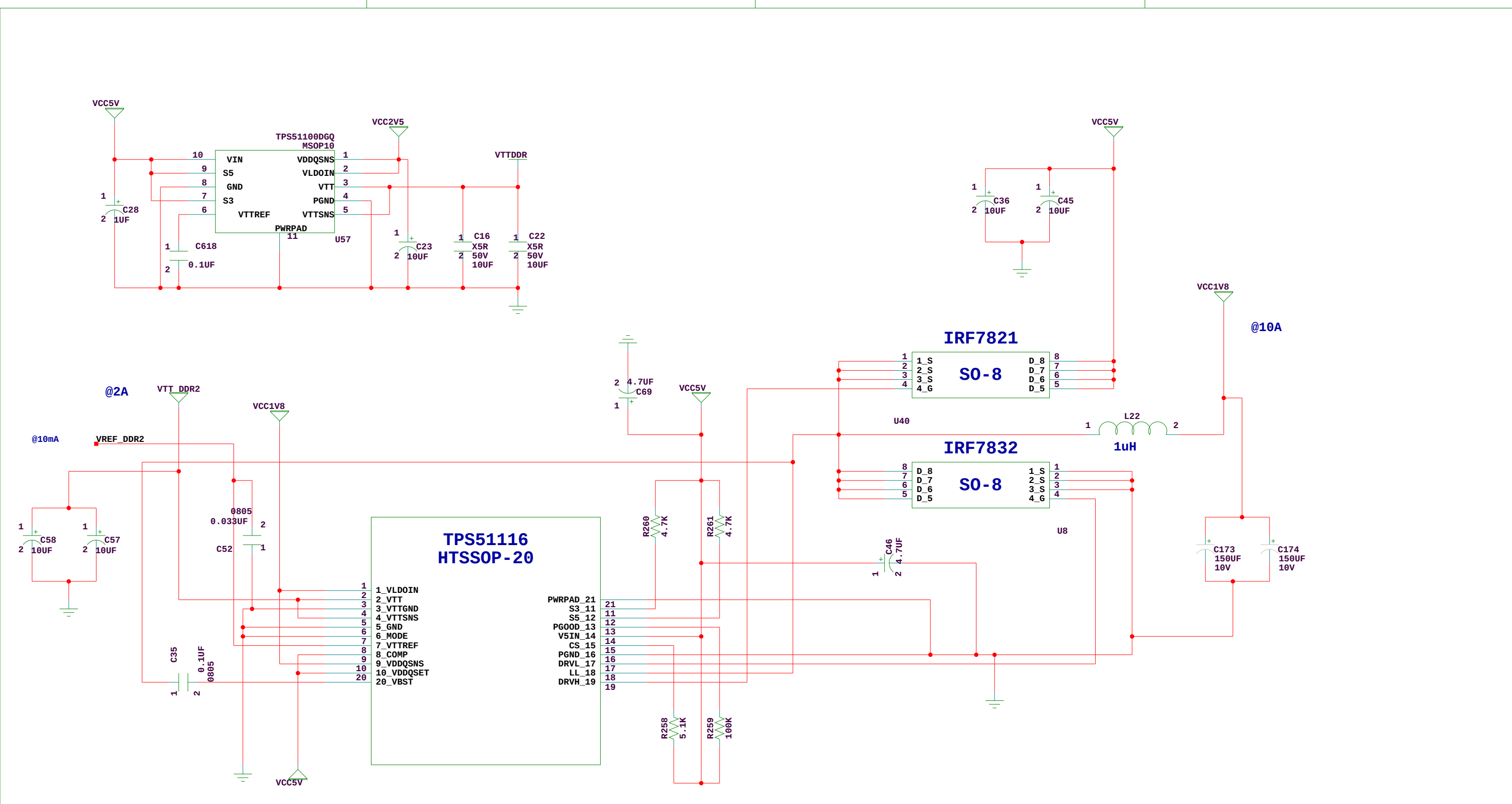
SCH P/N 0381203
ART P/N 0531499
FAB P/N 1280372

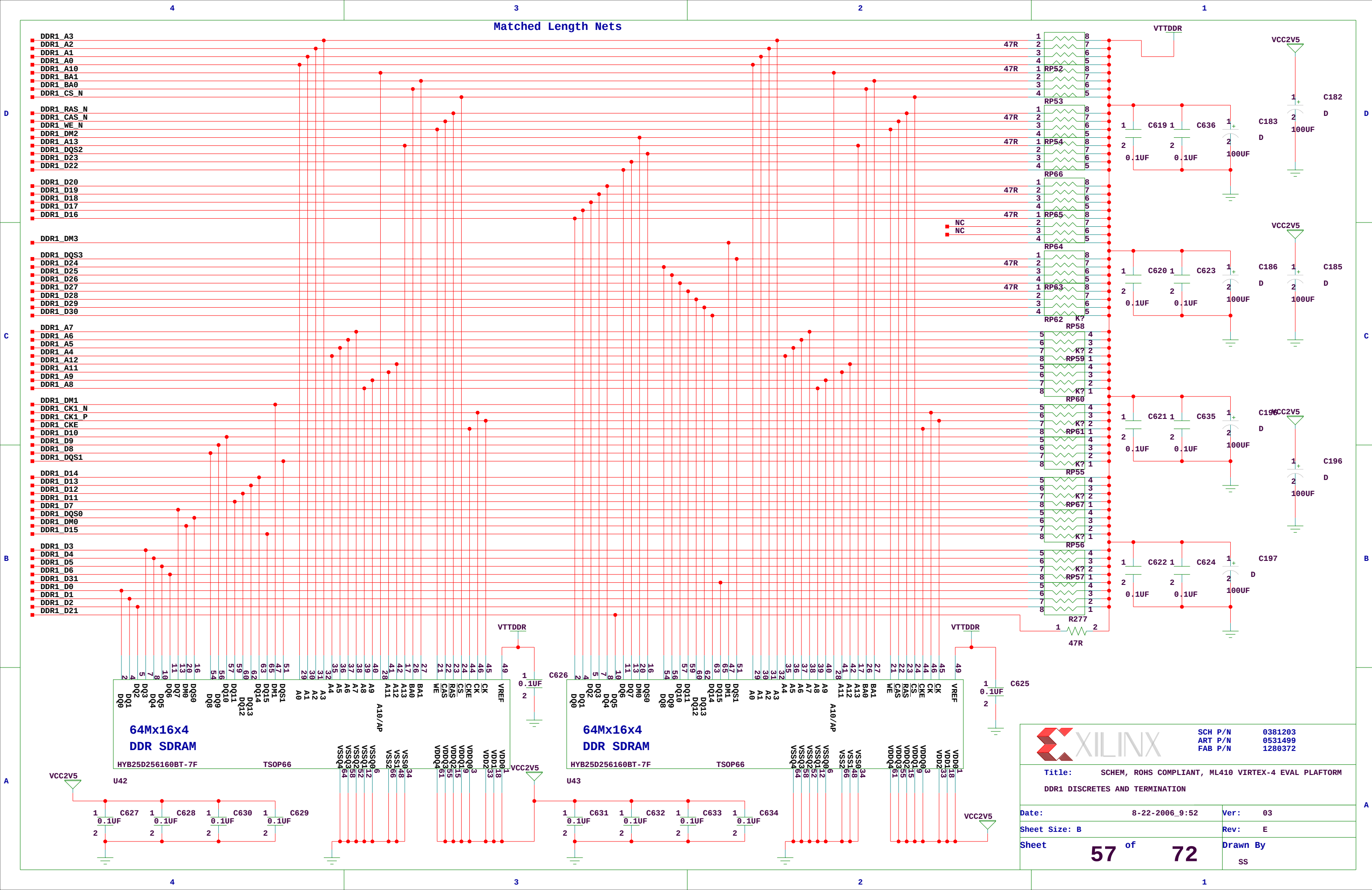
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLAFORM
FPGA GROUND PINS

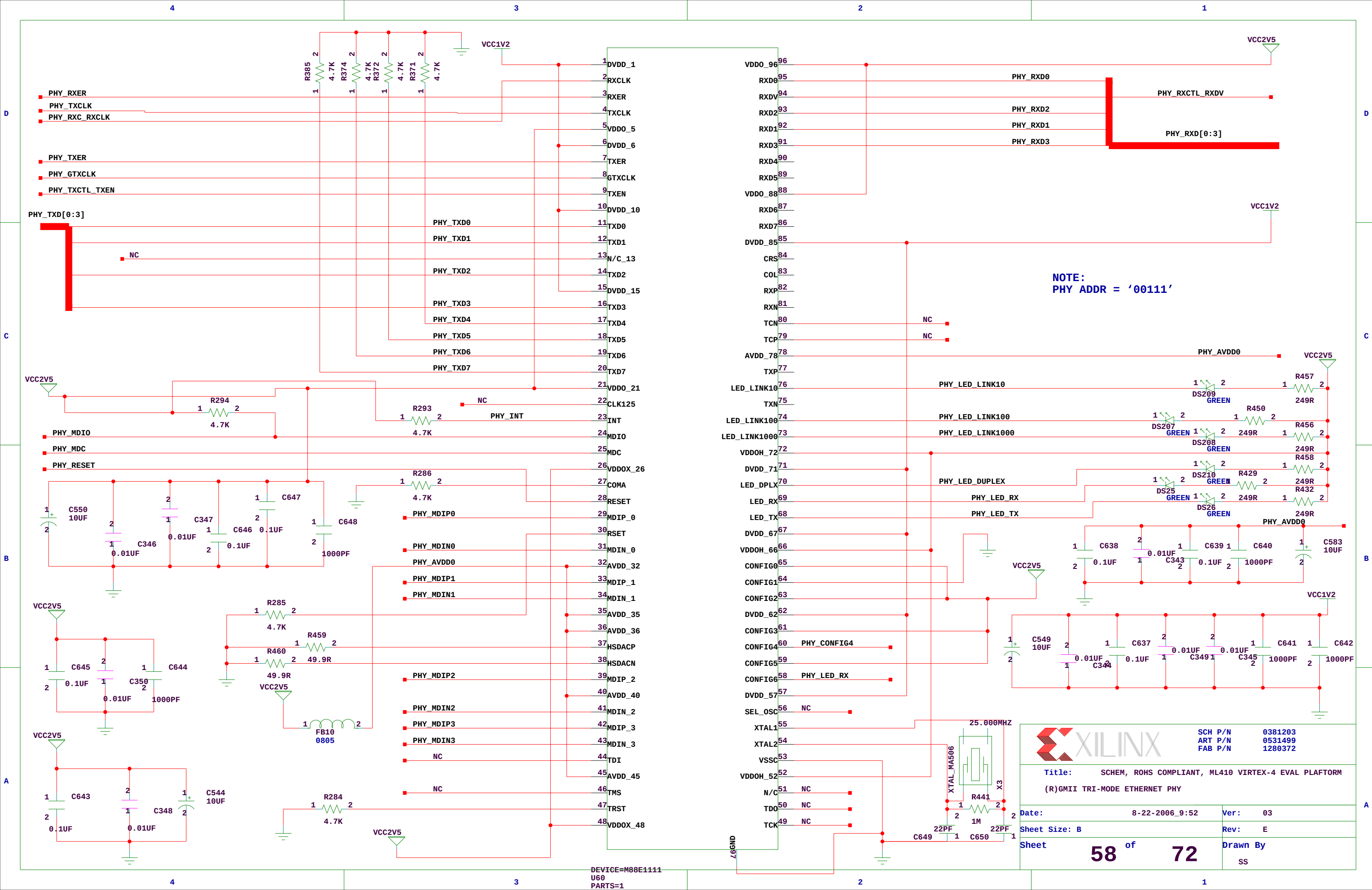
Date: 8-22-2006_9:52 Ver: 03

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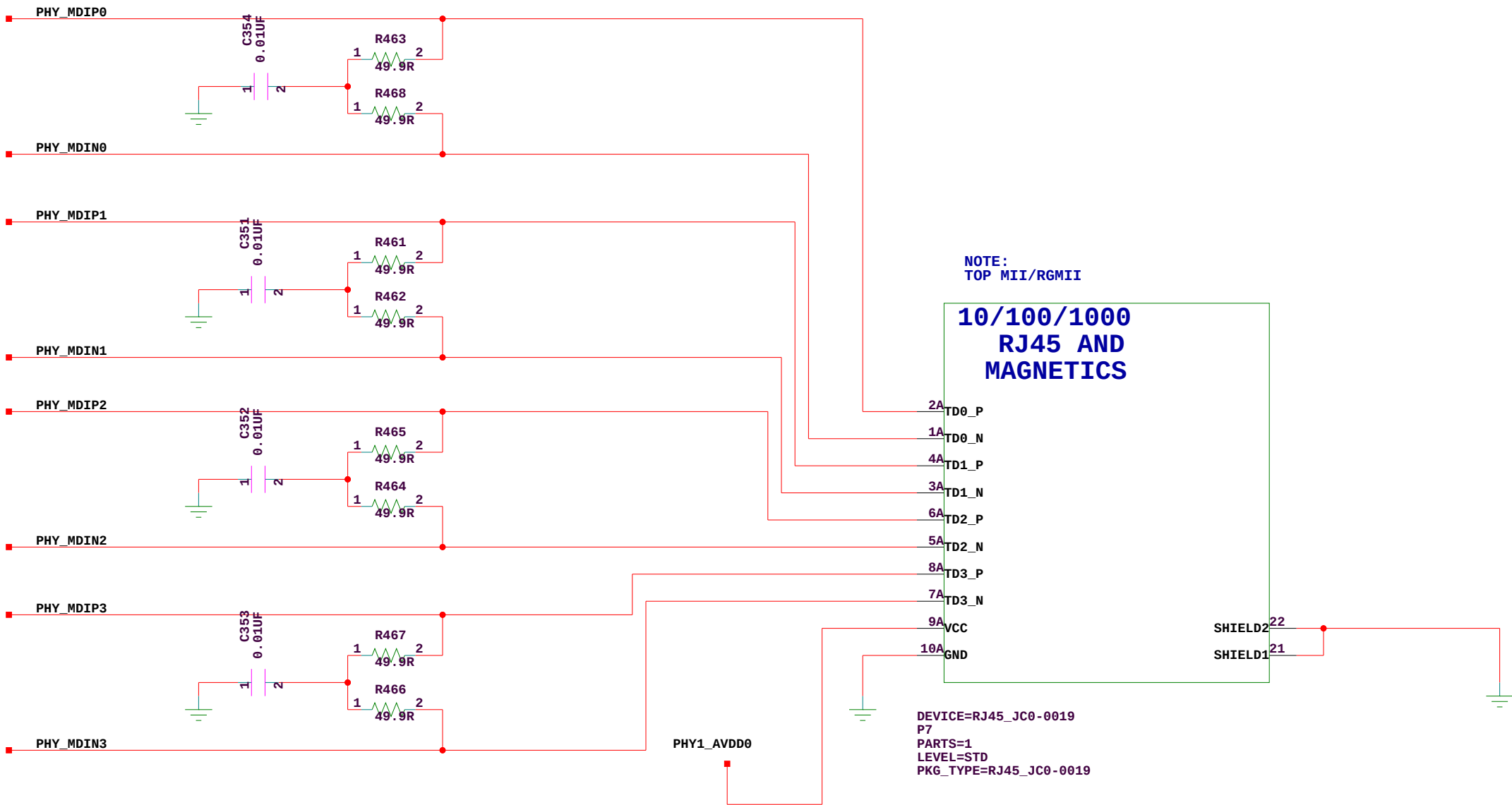
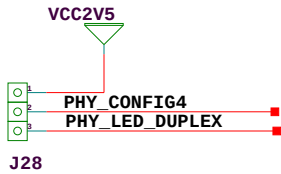
Sheet 55 of 72 Drawn By SS



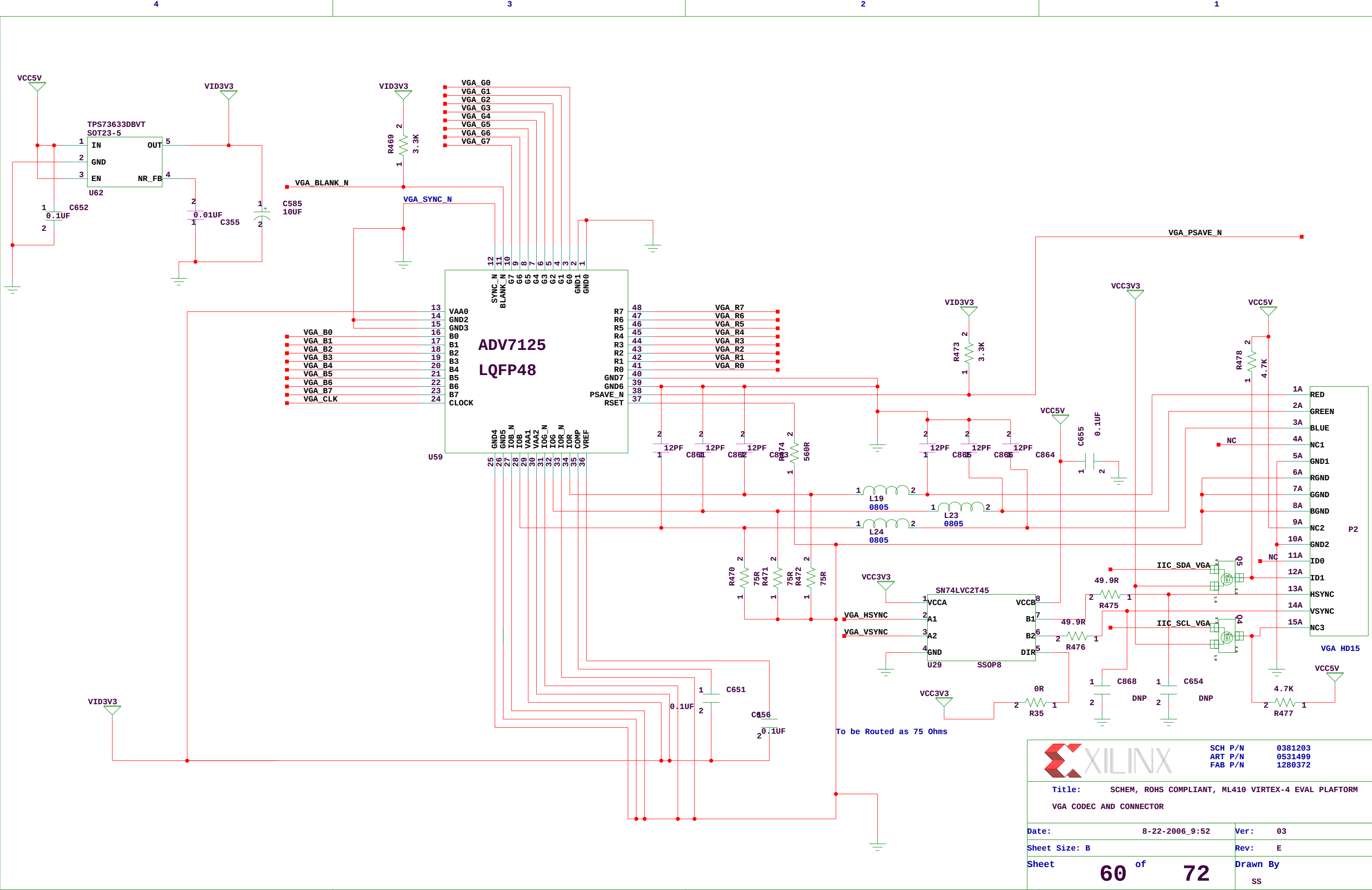




1-2: MII to Cu
2-3: RGMII to Cu

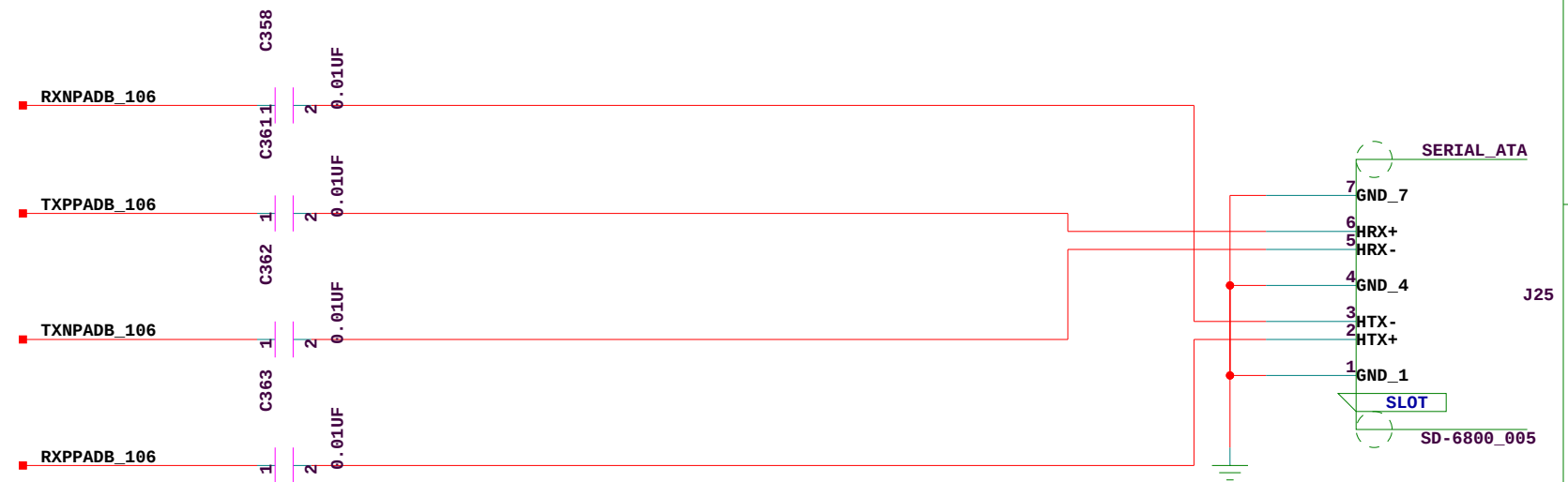


		SCH P/N	0381203
		ART P/N	0531499
		FAB P/N	1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLATFORM (R)GMII RJ-45			
Date:	8-22-2006_9:52	Ver:	03
Sheet Size: B		Rev:	E
Sheet	59 of 72	Drawn By	SS

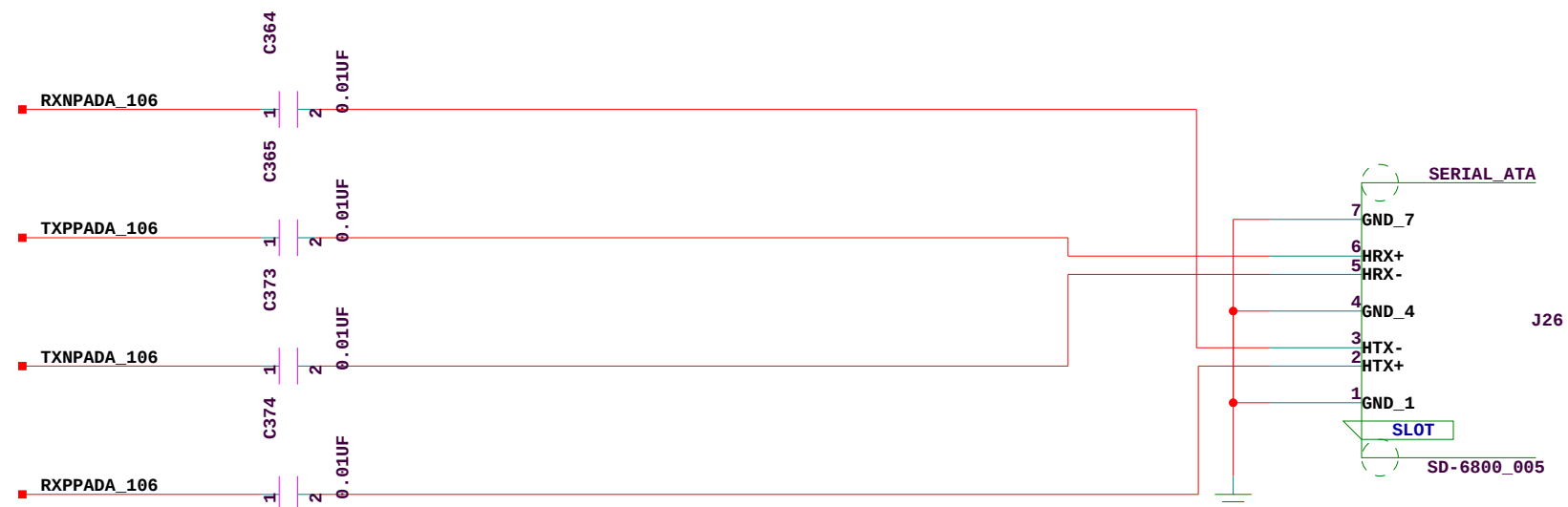


SATA Host 1

MGT 106B



SATA Host 2
MGT 106A



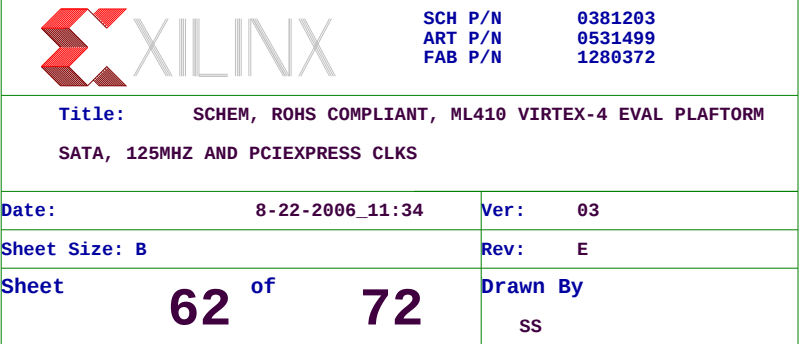
SCH P/N	0381203
ART P/N	0531499
FAB P/N	1280372

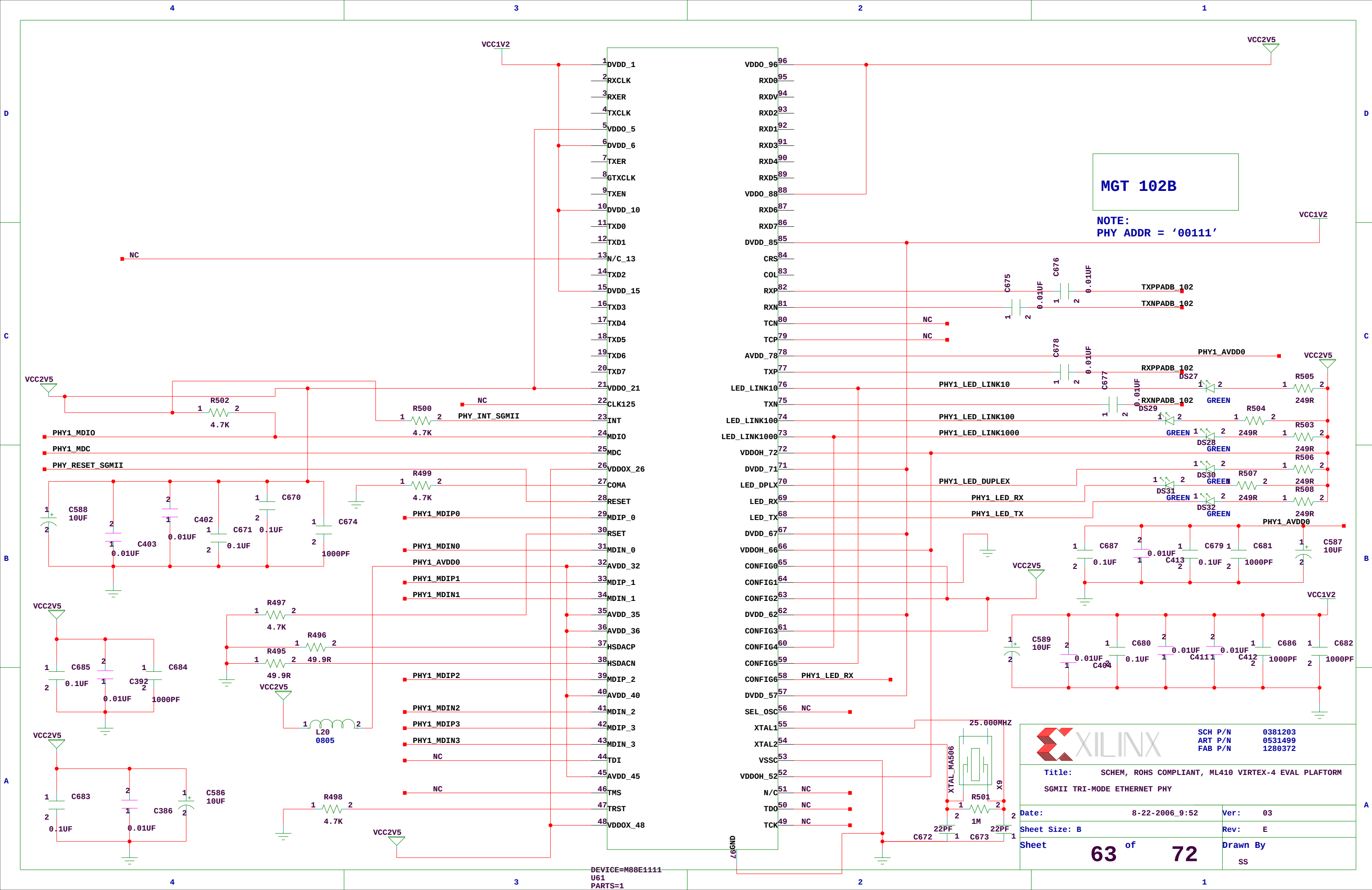
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SATA INTERFACE

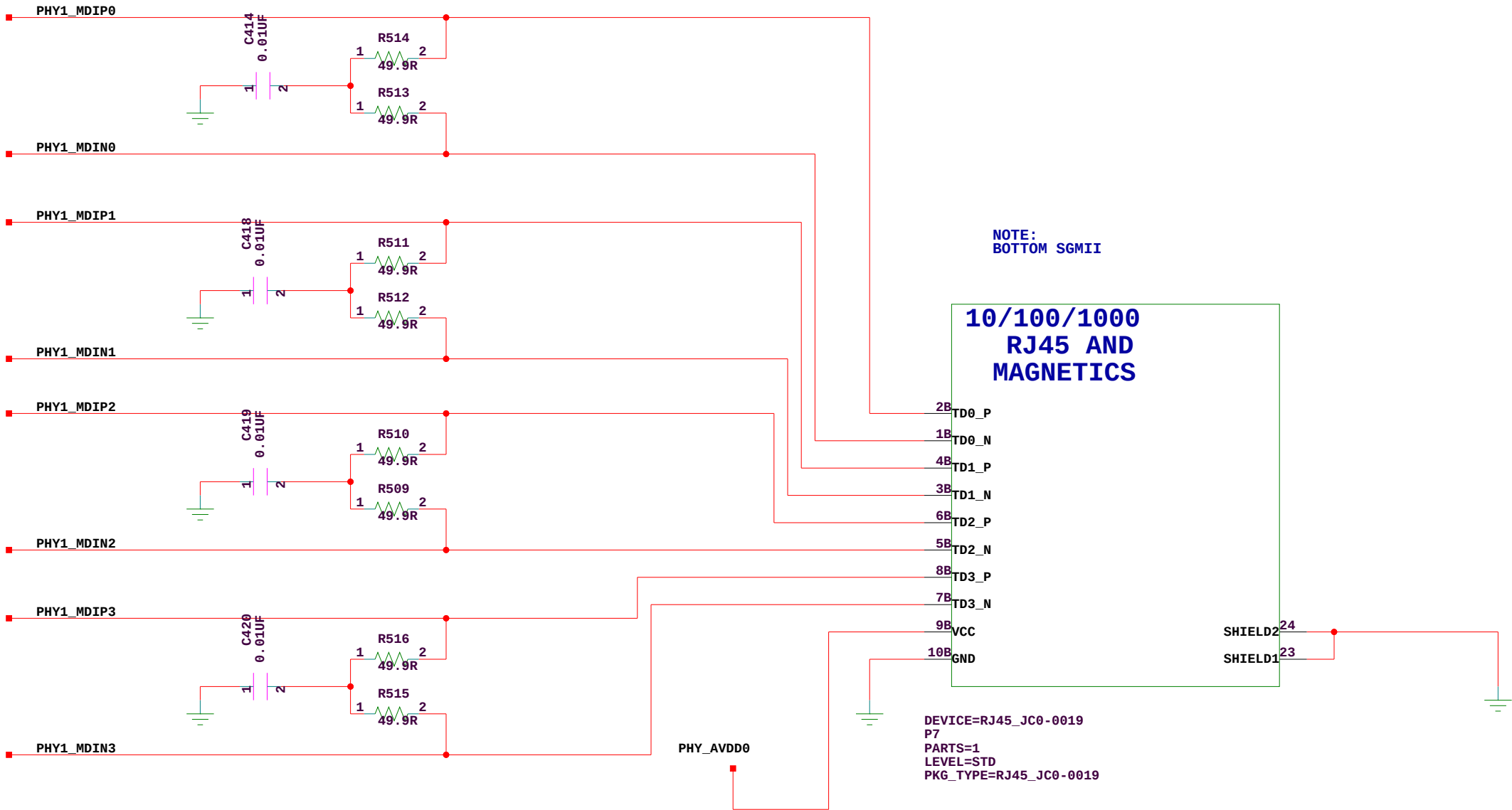
Date:	8-22-2006_9:52	Ver:	03
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Sheet	61	of	72	Drawn By
				SS







NOTE:
BOTTOM SGMII

10/100/1000
RJ45 AND
MAGNETICS

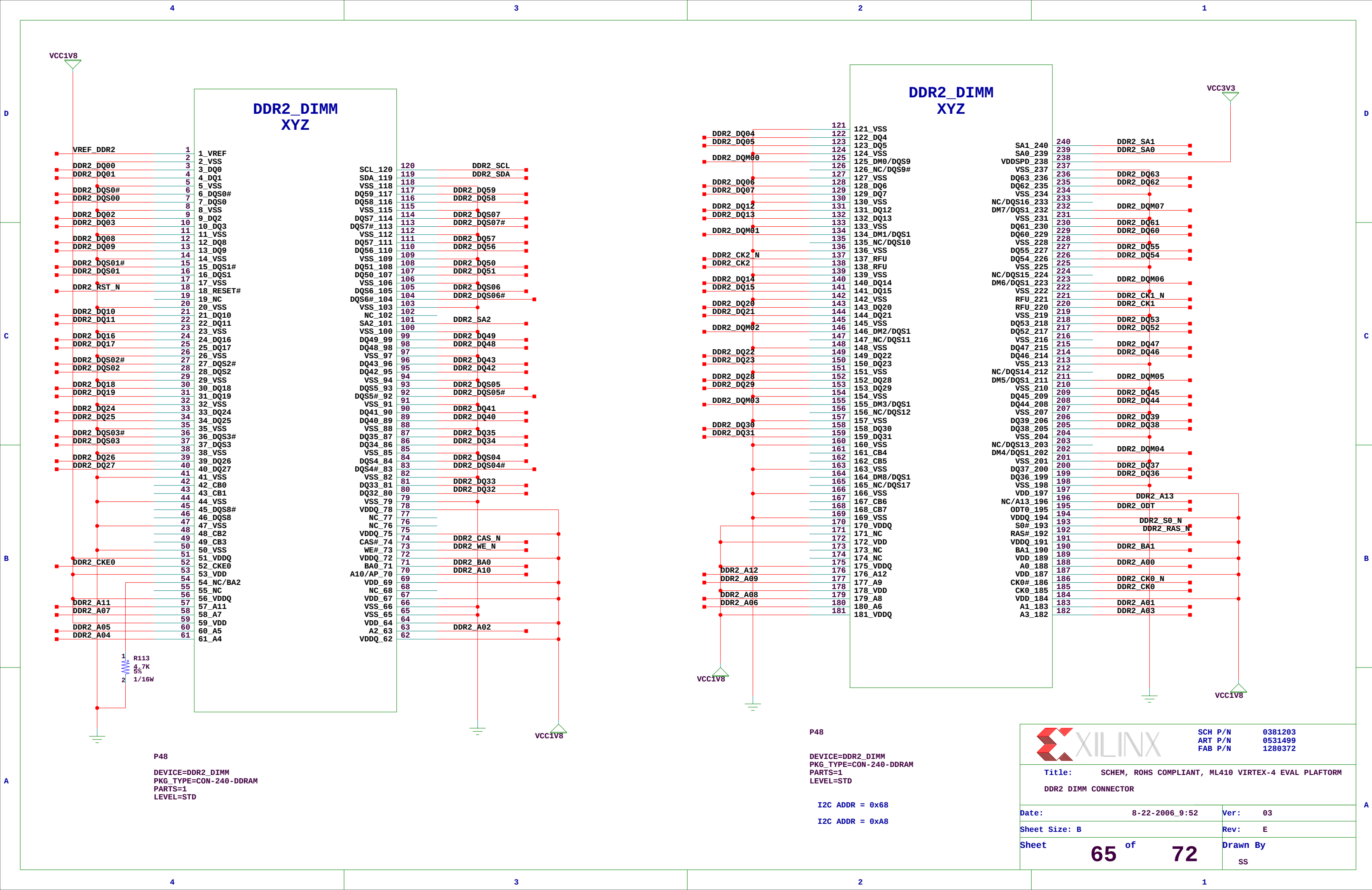
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P7
PARTS=1
LEVEL=STD
PKG_TYPE=RJ45_JC0-0019



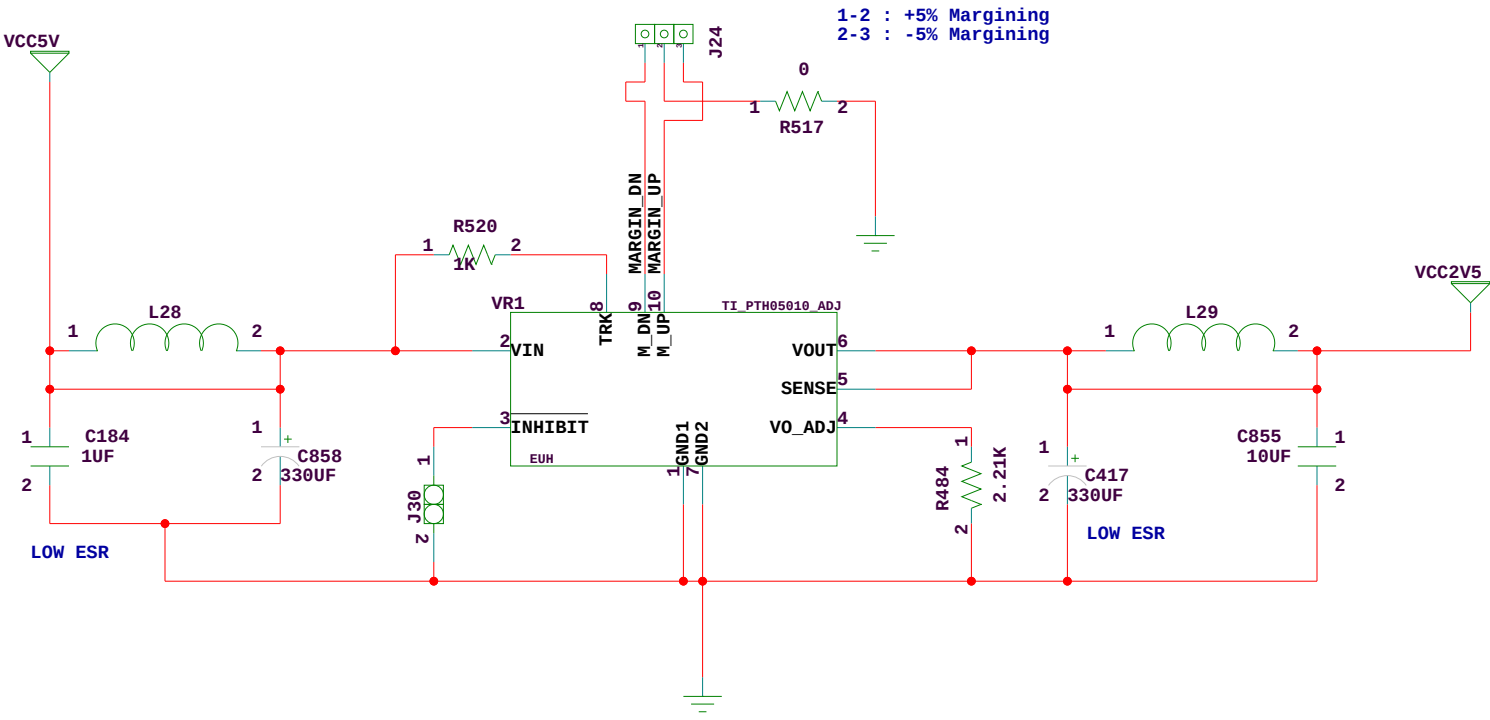
SCH P/N 0381203
ART P/N 0531499
FAB P/N 1280372

Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLATFOrm
SGMII RJ-45

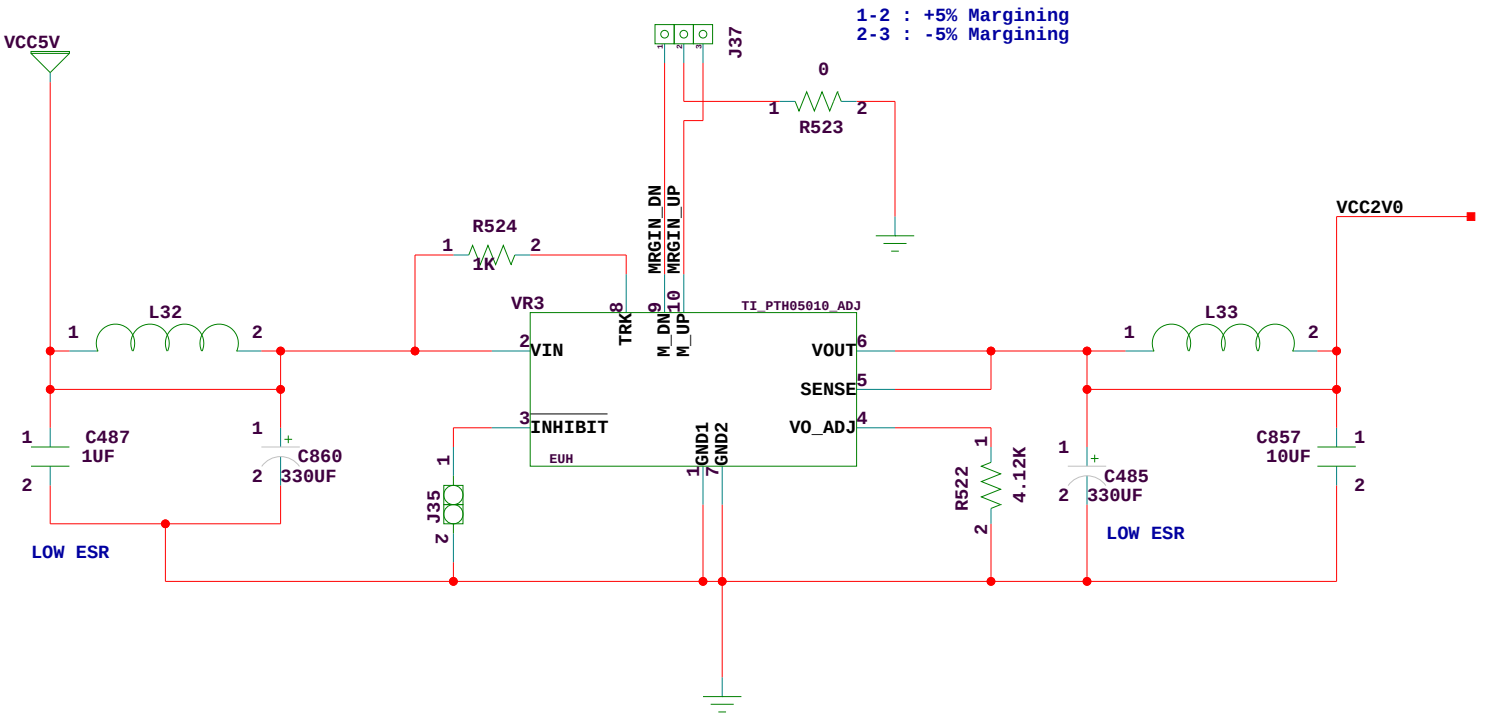
Date:	8-22-2006_9:52	Ver:	03
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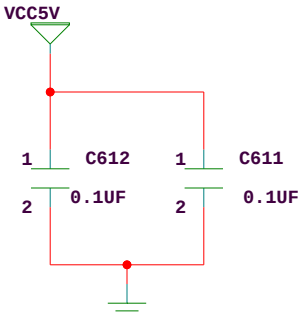
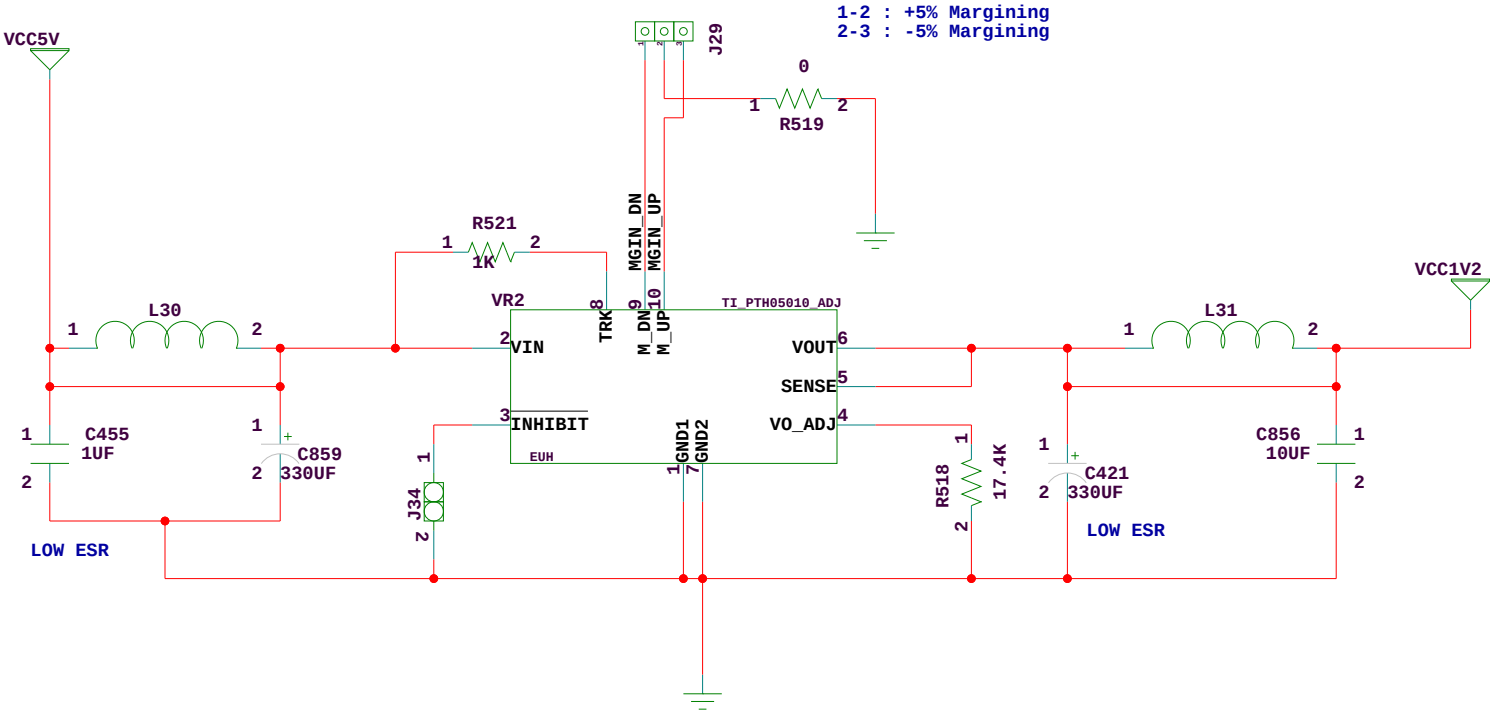
2.5V Supply @15A



2.0V Supply @15A



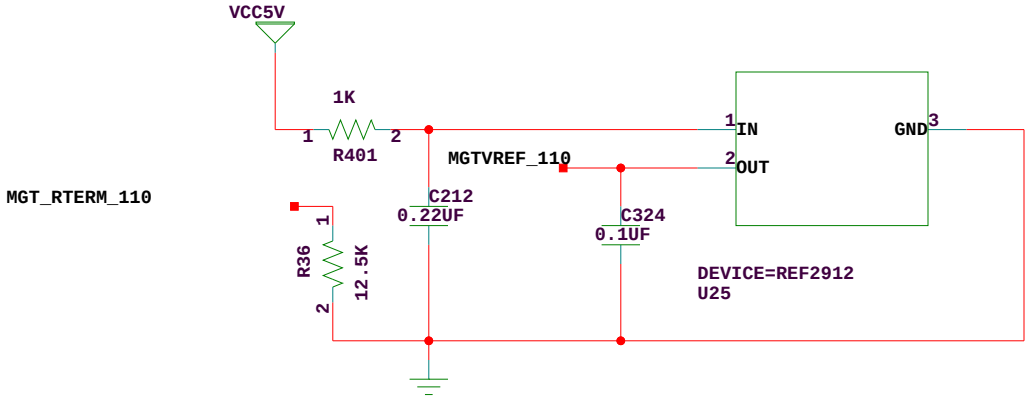
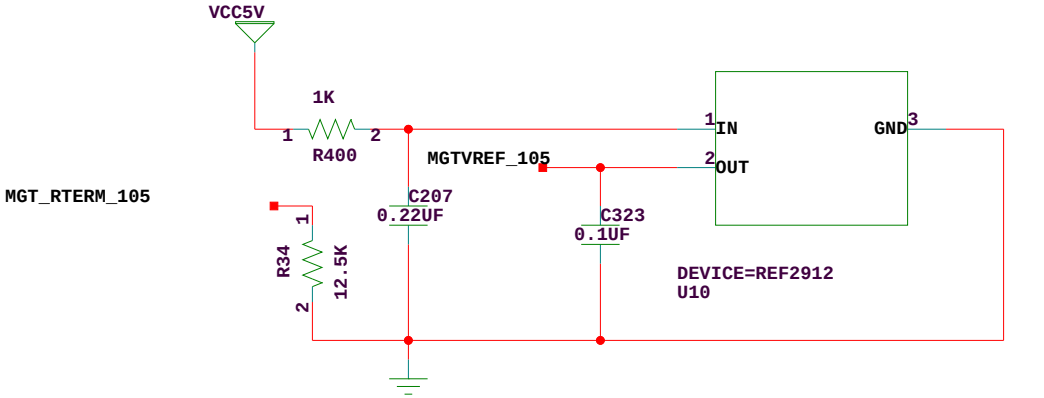
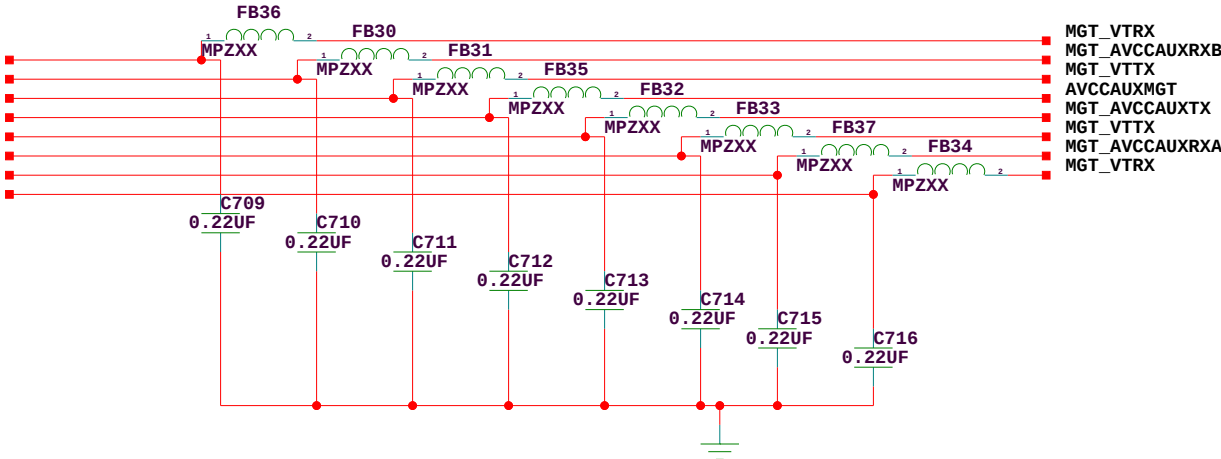
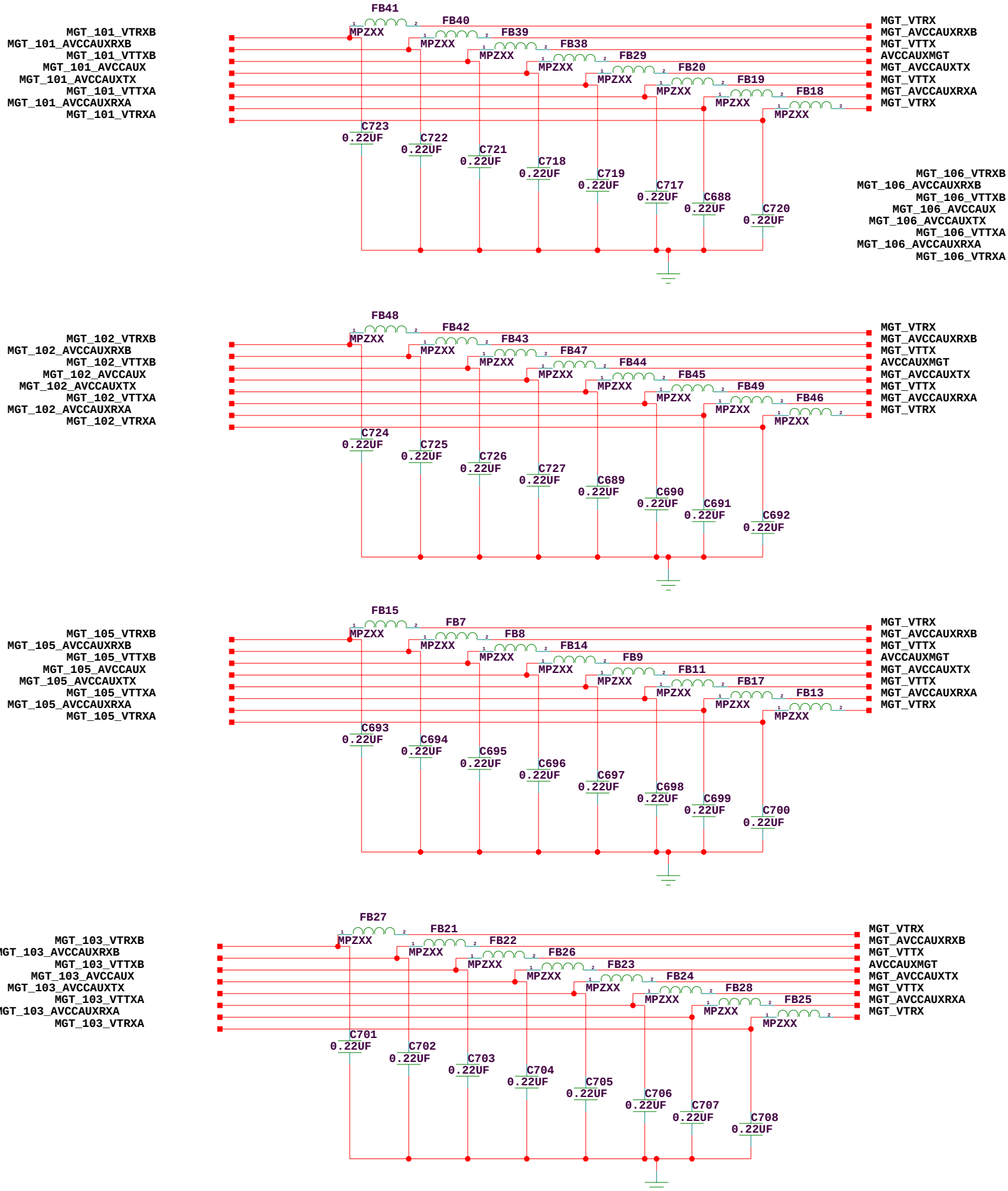
1.2V Supply @15A



$$RSET = 10K * (0.8V / (VOUT - 0.8V) - 2.49K)$$
$$Vout = (8K / (RSET + 2.49K)) + 0.8V$$

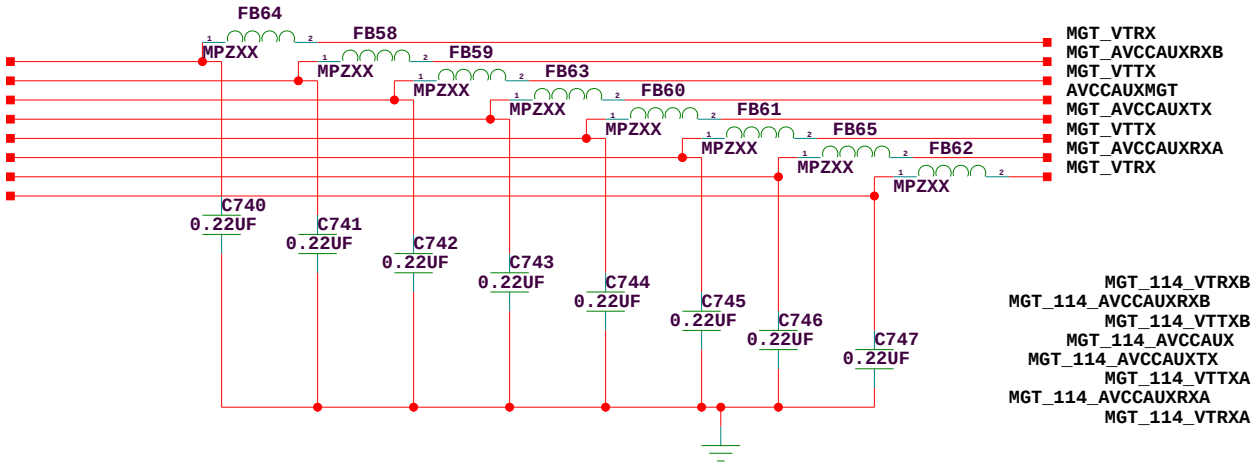
For 2.0V, R29 = 4.176K

	SCH P/N	0381203
	ART P/N	0531499
	FAB P/N	1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLATFOM FPGA CORE AND IO VOLTAGE		
Date:	8-22-2006_9:52	Ver: 03
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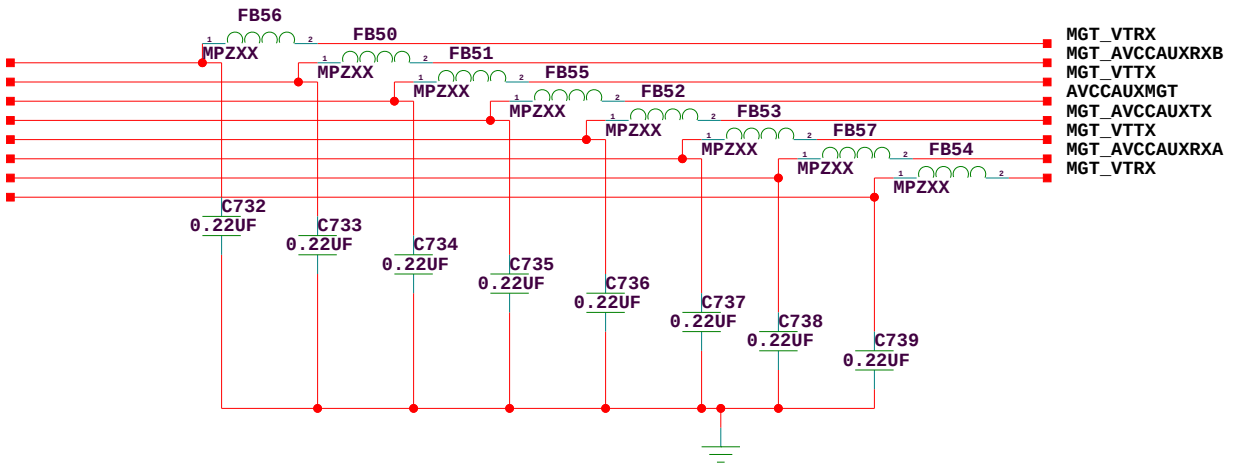


		SCH P/N	0381203
		ART P/N	0531499
		FAB P/N	1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLATFOrm			
MGT POWER FILTER-1, VTERM AND RTERM			
Date:	8-22-2006_9:52	Ver:	03
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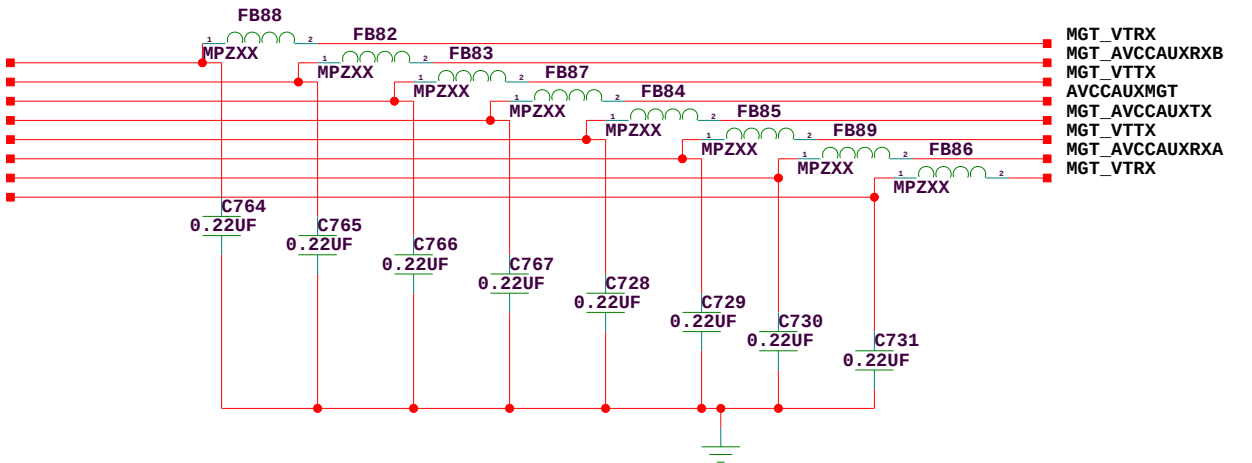
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MGT_109_AVCCAUXRXB
MGT_109_VTTXB
MGT_109_AVCCAUX
MGT_109_AVCCAUTX
MGT_109_VTTXA
MGT_109_AVCCAUXRXA
MGT_109_VTRXA



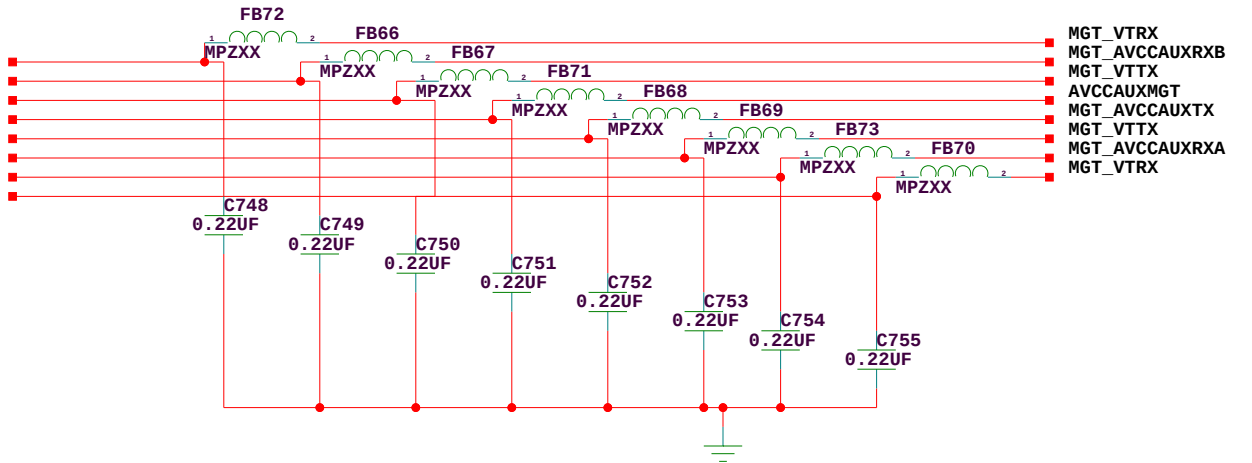
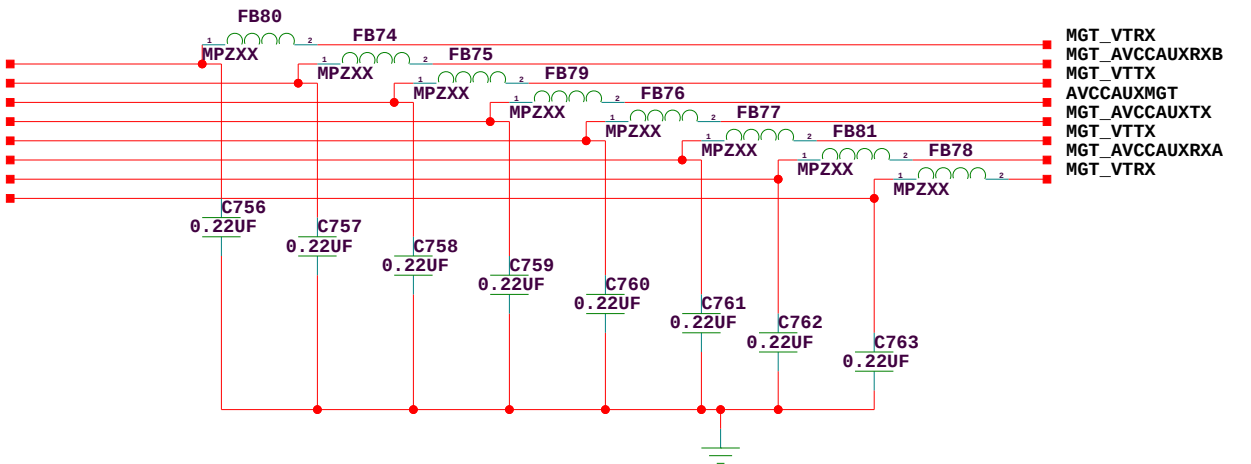
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MGT_112_AVCCAUXRXB
MGT_112_VTTXB
MGT_112_AVCCAUX
MGT_112_AVCCAUTX
MGT_112_VTTXA
MGT_112_AVCCAUXRXA
MGT_112_VTRXA



MGT_110_VTRXB
MGT_110_AVCCAUXRXB
MGT_110_VTTXB
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MGT_110_VTRXA



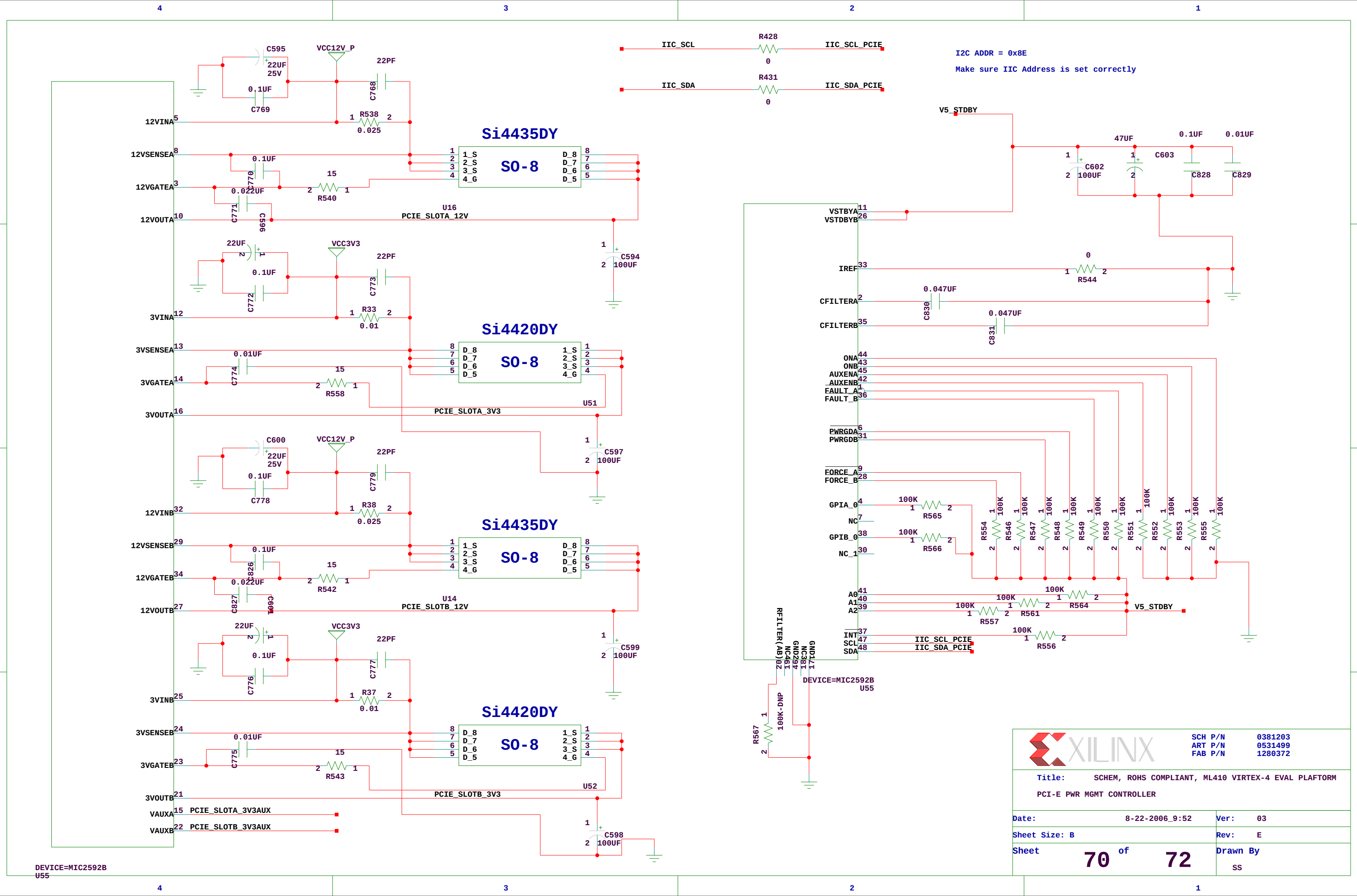
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MGT_113_VTTXB
MGT_113_AVCCAUX
MGT_113_AVCCAUTX
MGT_113_VTTXA
MGT_113_AVCCAUXRXA
MGT_113_VTRXA



SCH P/N 0381203
ART P/N 0531499
FAB P/N 1280372

Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLAFORM
MGT POWER FILTER-2

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		SCH P/N	0381203
		ART P/N	0531499
		FAB P/N	1280372
Title: SCHEM, ROHS COMPLIANT, ML410 VIRTEX-4 EVAL PLATFOM			
PCI-E PWR MGMT CONTROLLER			
Date:	8-22-2006_9:52	Ver:	03
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