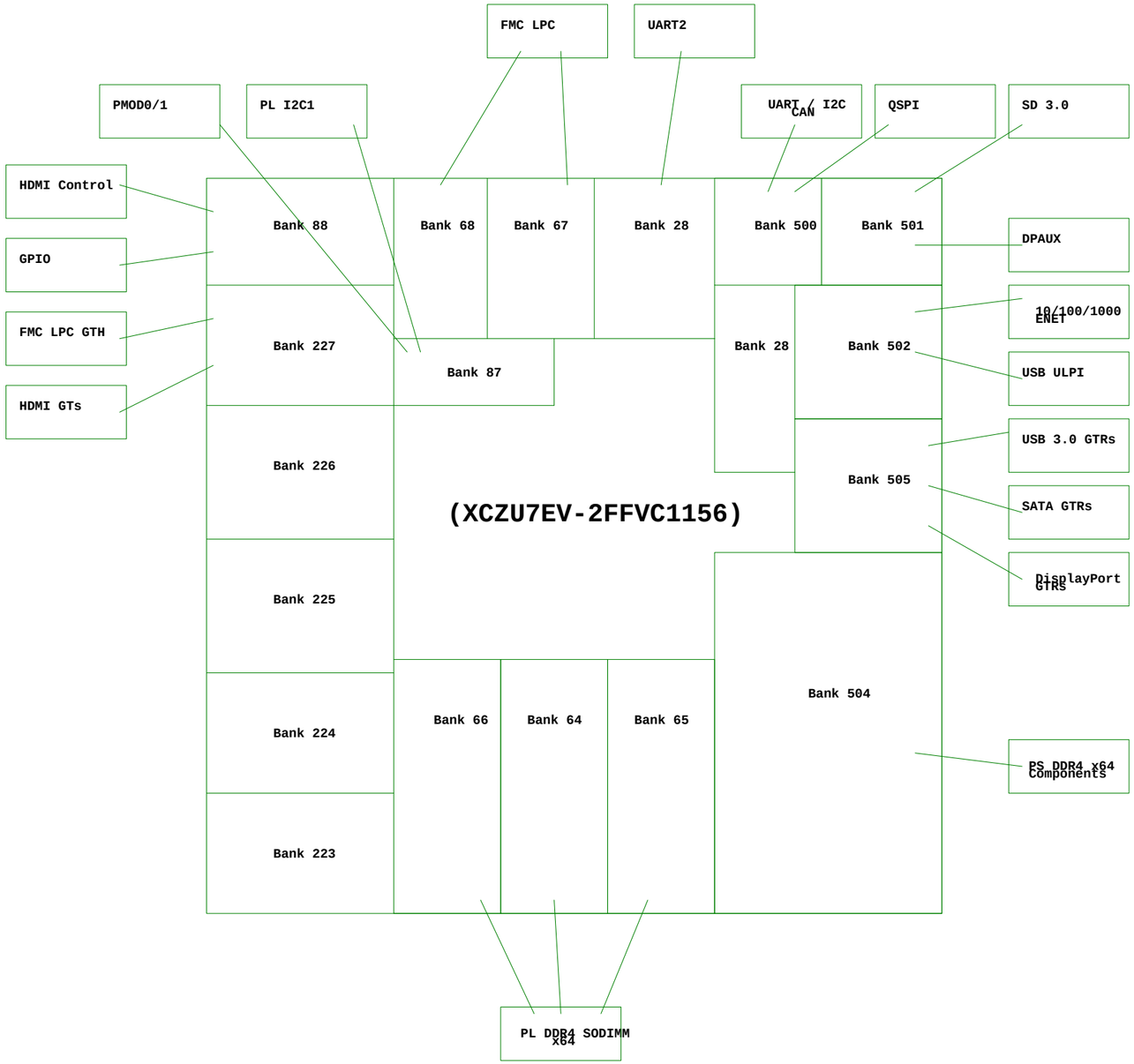
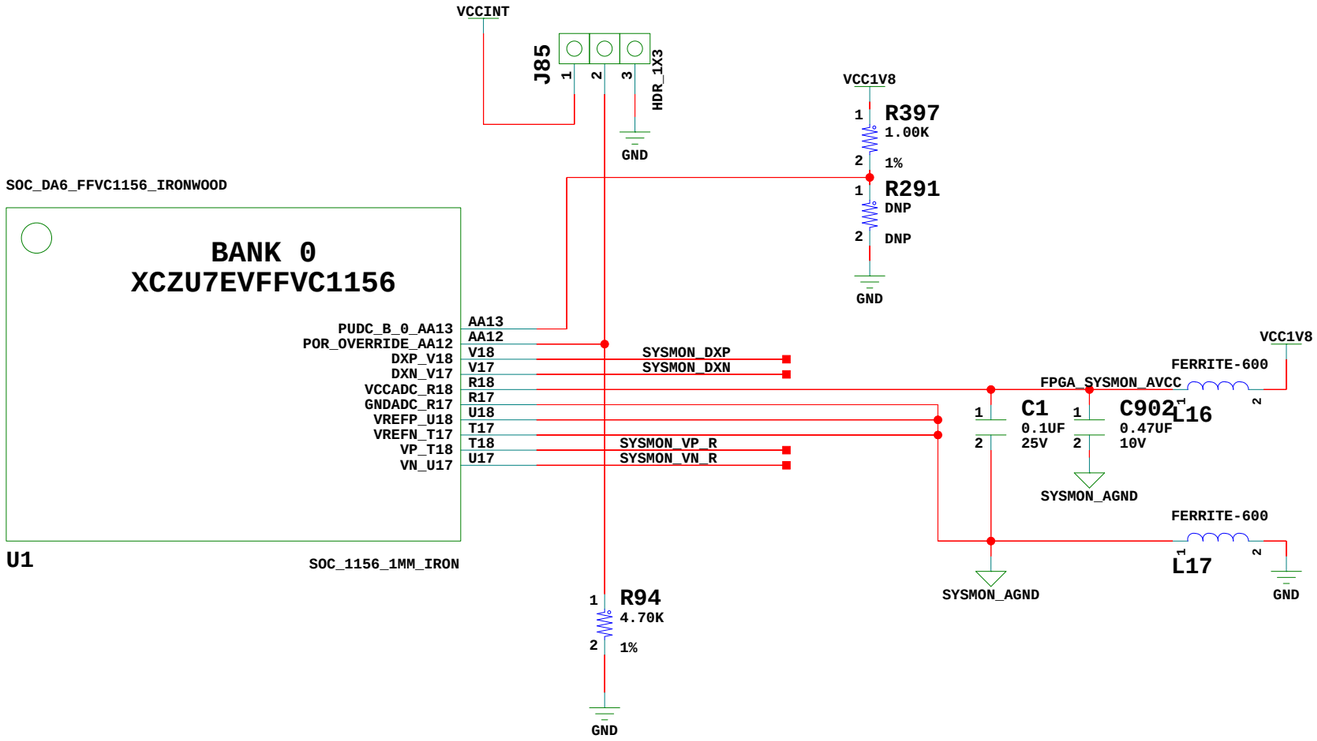
HW-Z1-ZCU104 Evaluation Board (XCZU7EV-2FFVC1156)

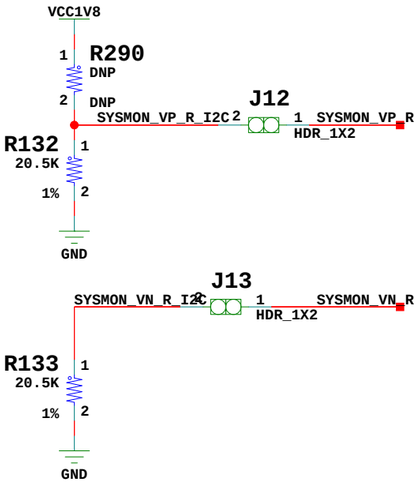
XILINX

TITLE: Title Page SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 1 OF 58	DRAWN BY: BF



TITLE: Block Diagram SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 2 OF 58	DRAWN BY: BF





SYSMON I2C Address jumpers

Zynq Bank 0

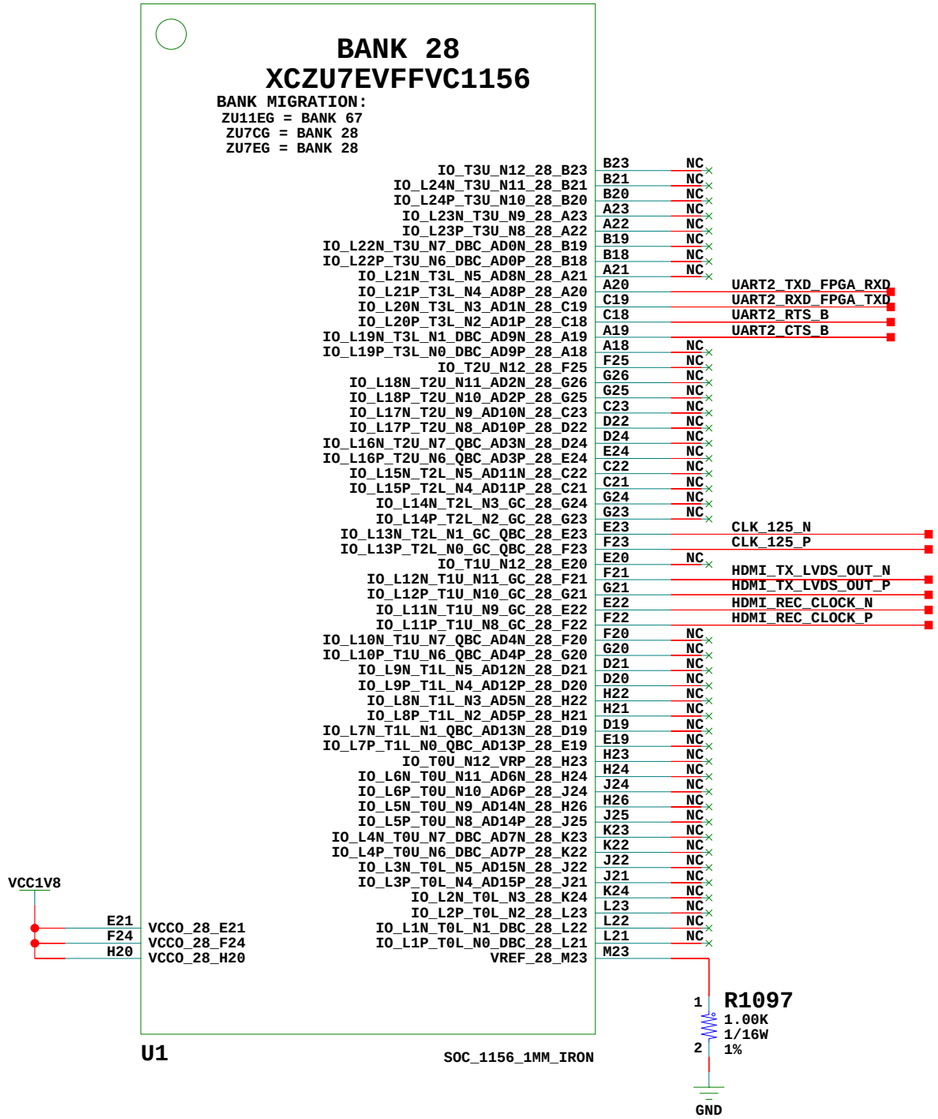
XILINX

TITLE: Zynq Bank 0 SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 3 OF 58	DRAWN BY: BF

SOC_DA6_FFVC1156_IRONWOOD

BANK 28
XCZU7EVFFVC1156

BANK MIGRATION:
ZU11EG = BANK 67
ZU7CG = BANK 28
ZU7EG = BANK 28



Zynq Banks 28

XILINX

TITLE: Zynq Banks 28 SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 4 OF 58	DRAWN BY: BF

SOC_DA6_FFVC1156_IRONWOOD

BANK 64
XCZU7EVFFVC1156

IO_T3U_N12_64_AA17	AA17	NC
IO_L24N_T3U_N11_64_AD16	AD16	DDR4_SODIMM_PARITY
IO_L24P_T3U_N10_64_AD17	AD17	DDR4_SODIMM_CKE0
IO_L23N_T3U_N9_64_AB14	AB14	DDR4_SODIMM_RESET_B
IO_L23P_T3U_N8_64_AA14	AA14	DDR4_SODIMM_CAS_B
IO_L22N_T3U_N7_DBC_AD0N_64_AA15	AA15	DDR4_SODIMM_CS0_B
IO_L22P_T3U_N6_DBC_AD0P_64_AA16	AA16	DDR4_SODIMM_WE_B
IO_L21N_T3L_N5_AD8N_64_AB15	AB15	DDR4_SODIMM_ALERT_B
IO_L21P_T3L_N4_AD8P_64_AB16	AB16	DDR4_SODIMM_BG1
IO_L20N_T3L_N3_AD1N_64_AC16	AC16	DDR4_SODIMM_BG0
IO_L20P_T3L_N2_AD1P_64_AC17	AC17	DDR4_SODIMM_ACT_B
IO_L19N_T3L_N1_DBC_AD9N_64_AE15	AE15	DDR4_SODIMM_ODT0
IO_L19P_T3L_N0_DBC_AD9P_64_AD15	AD15	DDR4_SODIMM_RAS_B
IO_T2U_N12_64_AH16	AH16	DDR4_SODIMM_A0
IO_L18N_T2U_N11_AD2N_64_AG14	AG14	DDR4_SODIMM_A1
IO_L18P_T2U_N10_AD2P_64_AG15	AG15	DDR4_SODIMM_A2
IO_L17N_T2U_N9_AD10N_64_AF15	AF15	DDR4_SODIMM_A3
IO_L17P_T2U_N8_AD10P_64_AF16	AF16	DDR4_SODIMM_A4
IO_L16N_T2U_N7_QBC_AD3N_64_AJ14	AJ14	DDR4_SODIMM_A5
IO_L16P_T2U_N6_QBC_AD3P_64_AH14	AH14	DDR4_SODIMM_A6
IO_L15N_T2L_N5_AD11N_64_AF17	AF17	DDR4_SODIMM_A7
IO_L15P_T2L_N4_AD11P_64_AE17	AE17	NC
IO_L14N_T2L_N3_GC_64_AG18	AG18	DDR4_SODIMM_CK0_C
IO_L14P_T2L_N2_GC_64_AF18	AF18	DDR4_SODIMM_CK0_T
IO_L13N_T2L_N1_GC_QBC_64_AH17	AH17	CLK_300_N
IO_L13P_T2L_N0_GC_QBC_64_AH18	AH18	CLK_300_P
IO_T1U_N12_64_AL17	AL17	DDR4_SODIMM_CS1_B
IO_L12N_T1U_N11_GC_64_AJ15	AJ15	DDR4_SODIMM_CK1_C
IO_L12P_T1U_N10_GC_64_AJ16	AJ16	DDR4_SODIMM_CK1_T
IO_L11N_T1U_N9_GC_64_AK17	AK17	DDR4_SODIMM_A8
IO_L11P_T1U_N8_GC_64_AJ17	AJ17	DDR4_SODIMM_A9
IO_L10N_T1U_N7_QBC_AD4N_64_AK14	AK14	DDR4_SODIMM_A10
IO_L10P_T1U_N6_QBC_AD4P_64_AK15	AK15	DDR4_SODIMM_A11
IO_L9N_T1L_N5_AD12N_64_AL18	AL18	DDR4_SODIMM_A12
IO_L9P_T1L_N4_AD12P_64_AK18	AK18	DDR4_SODIMM_A13
IO_L8N_T1L_N3_AD5N_64_AL15	AL15	DDR4_SODIMM_BA0
IO_L8P_T1L_N2_AD5P_64_AL16	AL16	DDR4_SODIMM_BA1
IO_L7N_T1L_N1_QBC_AD13N_64_AM15	AM15	DDR4_SODIMM_CKE1
IO_L7P_T1L_N0_QBC_AD13P_64_AM16	AM16	DDR4_SODIMM_ODT1
IO_T0U_N12_VRP_64_AP14	AP14	VRP_64
IO_L6N_T0U_N11_AD6N_64_AN16	AN16	DDR4_SODIMM_CS3_B
IO_L6P_T0U_N10_AD6P_64_AN17	AN17	DDR4_SODIMM_CS2_B
IO_L5N_T0U_N9_AD14N_64_AP15	AP15	NC
IO_L5P_T0U_N8_AD14P_64_AP16	AP16	NC
IO_L4N_T0U_N7_DBC_AD7N_64_AN14	AN14	NC
IO_L4P_T0U_N6_DBC_AD7P_64_AM14	AM14	NC
IO_L3N_T0L_N5_AD15N_64_AN18	AN18	NC
IO_L3P_T0L_N4_AD15P_64_AM18	AM18	NC
IO_L2N_T0L_N3_64_AP13	AP13	NC
IO_L2P_T0L_N2_64_AN13	AN13	NC
IO_L1N_T0L_N1_DBC_64_AP17	AP17	NC
IO_L1P_T0L_N0_DBC_64_AP18	AP18	NC
VREF_64_AG16	AG16	

CLK_300_P

R303
100
1/10W
1%

CLK_300_N

VCC1V2

AE16	VCCO_64_AE16
AH15	VCCO_64_AH15
AJ18	VCCO_64_AJ18

R683
1.00K
1/16W
1%

GND

VRP_64

R622
240
1/10W
1%

GND

U1

SOC_1156_1MM_IRON

SOC_DA6_FFVC1156_IRONWOOD

BANK 65
XCZU7EVFFVC1156

IO_T3U_N12_65_AE22	AE22	NC
IO_L24N_T3U_N11_PERSTN0_65_AA20	AA20	DDR4_SODIMM_DQ8
IO_L24P_T3U_N10_PERSTN1_I2C_SDA_65_AA19	AA19	DDR4_SODIMM_DQ9
IO_L23N_T3U_N9_65_AD19	AD19	DDR4_SODIMM_DQ10
IO_L23P_T3U_N8_I2C_SCLK_65_AC18	AC18	DDR4_SODIMM_DQ11
IO_L22N_T3U_N7_DBC_AD0N_65_AB18	AB18	DDR4_SODIMM_DQS1_C
IO_L22P_T3U_N6_DBC_AD0P_65_AA18	AA18	DDR4_SODIMM_DQS1_T
IO_L21N_T3L_N5_AD8N_65_AE20	AE20	DDR4_SODIMM_DQ12
IO_L21P_T3L_N4_AD8P_65_AD20	AD20	DDR4_SODIMM_DQ13
IO_L20N_T3L_N3_AD1N_65_AC19	AC19	DDR4_SODIMM_DQ14
IO_L20P_T3L_N2_AD1P_65_AB19	AB19	DDR4_SODIMM_DQ15
IO_L19N_T3L_N1_DBC_AD9N_65_AE19	AE19	NC
IO_L19P_T3L_N0_DBC_AD9P_65_AE18	AE18	DDR4_SODIMM_DM1_B
IO_T2U_N12_65_AF20	AF20	NC
IO_L18N_T2U_N11_AD2N_65_AE24	AE24	DDR4_SODIMM_DQ0
IO_L18P_T2U_N10_AD2P_65_AE23	AE23	DDR4_SODIMM_DQ1
IO_L17N_T2U_N9_AD10N_65_AF22	AF22	DDR4_SODIMM_DQ2
IO_L17P_T2U_N8_AD10P_65_AF21	AF21	DDR4_SODIMM_DQ3
IO_L16N_T2U_N7_QBC_AD3N_65_AG23	AG23	DDR4_SODIMM_DQS0_C
IO_L16P_T2U_N6_QBC_AD3P_65_AF23	AF23	DDR4_SODIMM_DQS0_T
IO_L15N_T2L_N5_AD11N_65_AG20	AG20	DDR4_SODIMM_DQ4
IO_L15P_T2L_N4_AD11P_65_AG19	AG19	DDR4_SODIMM_DQ5
IO_L14N_T2L_N3_GC_65_AH21	AH21	DDR4_SODIMM_DQ6
IO_L14P_T2L_N2_GC_65_AG21	AG21	DDR4_SODIMM_DQ7
IO_L13N_T2L_N1_GC_QBC_65_AH23	AH23	NC
IO_L13P_T2L_N0_GC_QBC_65_AH22	AH22	DDR4_SODIMM_DM0_B
IO_T1U_N12_65_AH19	AH19	NC
IO_L12N_T1U_N11_GC_65_AJ22	AJ22	DDR4_SODIMM_DQ16
IO_L12P_T1U_N10_GC_65_AJ21	AJ21	DDR4_SODIMM_DQ17
IO_L11N_T1U_N9_GC_65_AK20	AK20	DDR4_SODIMM_DQ18
IO_L11P_T1U_N8_GC_65_AJ20	AJ20	DDR4_SODIMM_DQ19
IO_L10N_T1U_N7_QBC_AD4N_65_AK23	AK23	DDR4_SODIMM_DQS2_C
IO_L10P_T1U_N6_QBC_AD4P_65_AK22	AK22	DDR4_SODIMM_DQS2_T
IO_L9N_T1L_N5_AD12N_65_AK19	AK19	DDR4_SODIMM_DQ20
IO_L9P_T1L_N4_AD12P_65_AJ19	AJ19	DDR4_SODIMM_DQ21
IO_L8N_T1L_N3_AD5N_65_AL23	AL23	DDR4_SODIMM_DQ22
IO_L8P_T1L_N2_AD5P_65_AL22	AL22	DDR4_SODIMM_DQ23
IO_L7N_T1L_N1_QBC_AD13N_65_AL21	AL21	NC
IO_L7P_T1L_N0_QBC_AD13P_65_AL20	AL20	DDR4_SODIMM_DM2_B
IO_T0U_N12_VRP_65_AM20	AM20	VRP_65
IO_L6N_T0U_N11_AD6N_65_AN23	AN23	DDR4_SODIMM_DQ24
IO_L6P_T0U_N10_AD6P_65_AM23	AM23	DDR4_SODIMM_DQ25
IO_L5N_T0U_N9_AD14N_65_AP23	AP23	DDR4_SODIMM_DQ26
IO_L5P_T0U_N8_AD14P_65_AN22	AN22	DDR4_SODIMM_DQ27
IO_L4N_T0U_N7_DBC_AD7N_65_AN21	AN21	DDR4_SODIMM_DQS3_C
IO_L4P_T0U_N6_DBC_AD7P_SMBALERT_65_AM21	AM21	DDR4_SODIMM_DQS3_T
IO_L3N_T0L_N5_AD15N_65_AP22	AP22	DDR4_SODIMM_DQ28
IO_L3P_T0L_N4_AD15P_65_AP21	AP21	DDR4_SODIMM_DQ29
IO_L2N_T0L_N3_65_AN19	AN19	DDR4_SODIMM_DQ30
IO_L2P_T0L_N2_65_AM19	AM19	DDR4_SODIMM_DQ31
IO_L1N_T0L_N1_DBC_65_AP20	AP20	NC
IO_L1P_T0L_N0_DBC_65_AP19	AP19	DDR4_SODIMM_DM3_B
VREF_65_AB20	AB20	

VCC1V2

AF19	VCCO_65_AF19
AG22	VCCO_65_AG22
AK21	VCCO_65_AK21

R681
1.00K
1/16W
1%

GND

VRP_65

R621
240
1/10W
1%

GND

U1

SOC_1156_1MM_IRON

Zynq Banks 64 65

XILINX

TITLE: Zynq Banks 64 65 SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 5 OF 58	DRAWN BY: BF

SOC_DA6_FFVC1156_IRONWOOD

BANK 66
XCZU7EVFFVC1156

IO_T3U_N12_66_AC14	AC14	NC
IO_L24N_T3U_N11_66_AC13	AC13	DDR4_SODIMM_DQ32
IO_L24P_T3U_N10_66_AB13	AB13	DDR4_SODIMM_DQ33
IO_L23N_T3U_N9_66_AF12	AF12	DDR4_SODIMM_DQ34
IO_L23P_T3U_N8_66_AE12	AE12	DDR4_SODIMM_DQ35
IO_L22N_T3U_N7_DBC_AD0N_66_AD12	AD12	DDR4_SODIMM_DQS4_C
IO_L22P_T3U_N6_DBC_AD0P_66_AC12	AC12	DDR4_SODIMM_DQS4_T
IO_L21N_T3L_N5_AD8N_66_AF13	AF13	DDR4_SODIMM_DQ36
IO_L21P_T3L_N4_AD8P_66_AE13	AE13	DDR4_SODIMM_DQ37
IO_L20N_T3L_N3_AD1N_66_AE14	AE14	DDR4_SODIMM_DQ38
IO_L20P_T3L_N2_AD1P_66_AD14	AD14	DDR4_SODIMM_DQ39
IO_L19N_T3L_N1_DBC_AD9N_66_AF10	AF10	NC
IO_L19P_T3L_N0_DBC_AD9P_66_AF11	AF11	DDR4_SODIMM_DM4_B
IO_T2U_N12_66_AH8	AH8	NC
IO_L18N_T2U_N11_AD2N_66_AG8	AG8	DDR4_SODIMM_DQ40
IO_L18P_T2U_N10_AD2P_66_AF8	AF8	DDR4_SODIMM_DQ41
IO_L17N_T2U_N9_AD10N_66_AG10	AG10	DDR4_SODIMM_DQ42
IO_L17P_T2U_N8_AD10P_66_AG11	AG11	DDR4_SODIMM_DQ43
IO_L16N_T2U_N7_QBC_AD3N_66_AH9	AH9	DDR4_SODIMM_DQS5_C
IO_L16P_T2U_N6_QBC_AD3P_66_AG9	AG9	DDR4_SODIMM_DQS5_T
IO_L15N_T2L_N5_AD11N_66_AH13	AH13	DDR4_SODIMM_DQ44
IO_L15P_T2L_N4_AD11P_66_AG13	AG13	DDR4_SODIMM_DQ45
IO_L14N_T2L_N3_GC_66_AJ11	AJ11	DDR4_SODIMM_DQ46
IO_L14P_T2L_N2_GC_66_AH11	AH11	DDR4_SODIMM_DQ47
IO_L13N_T2L_N1_GC_QBC_66_AJ12	AJ12	NC
IO_L13P_T2L_N0_GC_QBC_66_AH12	AH12	DDR4_SODIMM_DM5_B
IO_T1U_N12_66_AM13	AM13	NC
IO_L12N_T1U_N11_GC_66_AK9	AK9	DDR4_SODIMM_DQ48
IO_L12P_T1U_N10_GC_66_AJ9	AJ9	DDR4_SODIMM_DQ49
IO_L11N_T1U_N9_GC_66_AK10	AK10	DDR4_SODIMM_DQ50
IO_L11P_T1U_N8_GC_66_AJ10	AJ10	DDR4_SODIMM_DQ51
IO_L10N_T1U_N7_QBC_AD4N_66_AL8	AL8	DDR4_SODIMM_DQS6_C
IO_L10P_T1U_N6_QBC_AD4P_66_AK8	AK8	DDR4_SODIMM_DQS6_T
IO_L9N_T1L_N5_AD12N_66_AL12	AL12	DDR4_SODIMM_DQ52
IO_L9P_T1L_N4_AD12P_66_AK12	AK12	DDR4_SODIMM_DQ53
IO_L8N_T1L_N3_AD5N_66_AL10	AL10	DDR4_SODIMM_DQ54
IO_L8P_T1L_N2_AD5P_66_AL11	AL11	DDR4_SODIMM_DQ55
IO_L7N_T1L_N1_QBC_AD13N_66_AL13	AL13	NC
IO_L7P_T1L_N0_QBC_AD13P_66_AK13	AK13	DDR4_SODIMM_DM6_B
IO_T0U_N12_VRP_66_AP8	AP8	VRP_66
IO_L6N_T0U_N11_AD6N_66_AM8	AM8	DDR4_SODIMM_DQ56
IO_L6P_T0U_N10_AD6P_66_AM9	AM9	DDR4_SODIMM_DQ57
IO_L5N_T0U_N9_AD14N_66_AM10	AM10	DDR4_SODIMM_DQ58
IO_L5P_T0U_N8_AD14P_66_AM11	AM11	DDR4_SODIMM_DQ59
IO_L4N_T0U_N7_DBC_AD7N_66_AN8	AN8	DDR4_SODIMM_DQS7_C
IO_L4P_T0U_N6_DBC_AD7P_66_AN9	AN9	DDR4_SODIMM_DQS7_T
IO_L3N_T0L_N5_AD15N_66_AP11	AP11	DDR4_SODIMM_DQ60
IO_L3P_T0L_N4_AD15P_66_AN11	AN11	DDR4_SODIMM_DQ61
IO_L2N_T0L_N3_66_AP9	AP9	DDR4_SODIMM_DQ62
IO_L2P_T0L_N2_66_AP10	AP10	DDR4_SODIMM_DQ63
IO_L1N_T0L_N1_DBC_66_AP12	AP12	NC
IO_L1P_T0L_N0_DBC_66_AN12	AN12	DDR4_SODIMM_DM7_B
VREF_66_AB12	AB12	

VCC1V2

AF9	VCCO_66_AF9	
AG12	VCCO_66_AG12	
AK11	VCCO_66_AK11	

R723: 1.00K, 1/16W, 1%, pins 1 and 2, GND

VRP_66

R968: 240, 1/10W, 1%, pins 1 and 2, GND

U1

SOC_1156_1MM_IRON

SOC_DA6_FFVC1156_IRONWOOD

BANK 67
XCZU7EVFFVC1156

BANK MIGRATION:
ZU11EG = BANK 68
ZU7CG = BANK 67
ZU7EG = BANK 67

IO_T3U_N12_67_J20	J20	NC
IO_L24N_T3U_N11_67_L16	L16	FMC_LPC_LA04_N
IO_L24P_T3U_N10_67_L17	L17	FMC_LPC_LA04_P
IO_L23N_T3U_N9_67_K18	K18	FMC_LPC_LA03_N
IO_L23P_T3U_N8_67_K19	K19	FMC_LPC_LA03_P
IO_L22N_T3U_N7_DBC_AD0N_67_K15	K15	FMC_LPC_LA10_N
IO_L22P_T3U_N6_DBC_AD0P_67_L15	L15	FMC_LPC_LA10_P
IO_L21N_T3L_N5_AD8N_67_J17	J17	FMC_LPC_LA05_N
IO_L21P_T3L_N4_AD8P_67_K17	K17	FMC_LPC_LA05_P
IO_L20N_T3L_N3_AD1N_67_J15	J15	FMC_LPC_LA07_N
IO_L20P_T3L_N2_AD1P_67_J16	J16	FMC_LPC_LA07_P
IO_L19N_T3L_N1_DBC_AD9N_67_K20	K20	FMC_LPC_LA02_N
IO_L19P_T3L_N0_DBC_AD9P_67_L20	L20	FMC_LPC_LA02_P
IO_T2U_N12_67_J19	J19	NC
IO_L18N_T2U_N11_AD2N_67_G16	G16	FMC_LPC_LA09_N
IO_L18P_T2U_N10_AD2P_67_H16	H16	FMC_LPC_LA09_P
IO_L17N_T2U_N9_AD10N_67_F18	F18	FMC_LPC_LA12_N
IO_L17P_T2U_N8_AD10P_67_G18	G18	FMC_LPC_LA12_P
IO_L16N_T2U_N7_QBC_AD3N_67_H17	H17	FMC_LPC_LA01_CC_N
IO_L16P_T2U_N6_QBC_AD3P_67_H18	H18	FMC_LPC_LA01_CC_P
IO_L15N_T2L_N5_AD11N_67_G19	G19	FMC_LPC_LA06_N
IO_L15P_T2L_N4_AD11P_67_H19	H19	FMC_LPC_LA06_P
IO_L14N_T2L_N3_GC_67_F15	F15	FMC_LPC_LA13_N
IO_L14P_T2L_N2_GC_67_G15	G15	FMC_LPC_LA13_P
IO_L13N_T2L_N1_GC_QBC_67_F16	F16	FMC_LPC_LA00_CC_N
IO_L13P_T2L_N0_GC_QBC_67_F17	F17	FMC_LPC_LA00_CC_P
IO_T1U_N12_67_E13	E13	NC
IO_L12N_T1U_N11_GC_67_E14	E14	FMC_LPC_CLK0_M2C_N
IO_L12P_T1U_N10_GC_67_E15	E15	FMC_LPC_CLK0_M2C_P
IO_L11N_T1U_N9_GC_67_D14	D14	NC
IO_L11P_T1U_N8_GC_67_D15	D15	NC
IO_L10N_T1U_N7_QBC_AD4N_67_F13	F13	NC
IO_L10P_T1U_N6_QBC_AD4P_67_G14	G14	NC
IO_L9N_T1L_N5_AD12N_67_E17	E17	FMC_LPC_LA08_N
IO_L9P_T1L_N4_AD12P_67_E18	E18	FMC_LPC_LA08_P
IO_L8N_T1L_N3_AD5N_67_C17	C17	FMC_LPC_LA16_N
IO_L8P_T1L_N2_AD5P_67_D17	D17	FMC_LPC_LA16_P
IO_L7N_T1L_N1_QBC_AD13N_67_C16	C16	FMC_LPC_LA15_N
IO_L7P_T1L_N0_QBC_AD13P_67_D16	D16	FMC_LPC_LA15_P
IO_T0U_N12_VRP_67_C14	C14	NC
IO_L6N_T0U_N11_AD6N_67_C12	C12	FMC_LPC_LA14_N
IO_L6P_T0U_N10_AD6P_67_C13	C13	FMC_LPC_LA14_P
IO_L5N_T0U_N9_AD14N_67_A12	A12	FMC_LPC_LA11_N
IO_L5P_T0U_N8_AD14P_67_A13	A13	FMC_LPC_LA11_P
IO_L4N_T0U_N7_DBC_AD7N_67_B13	B13	NC
IO_L4P_T0U_N6_DBC_AD7P_67_B14	B14	NC
IO_L3N_T0L_N5_AD15N_67_A14	A14	NC
IO_L3P_T0L_N4_AD15P_67_A15	A15	NC
IO_L2N_T0L_N3_67_B15	B15	NC
IO_L2P_T0L_N2_67_B16	B16	NC
IO_L1N_T0L_N1_DBC_67_A16	A16	NC
IO_L1P_T0L_N0_DBC_67_A17	A17	NC
VREF_67_L18	L18	

FMC_LPC_VREF_A_M2C

R967: DNP, DNP, DNP, pins 1 and 2

C1061: DNP, DNP, pins 1 and 2, GND

VADJ_FMC

D13	VCCO_67_D13	
E16	VCCO_67_E16	
H15	VCCO_67_H15	

U1

SOC_1156_1MM_IRON

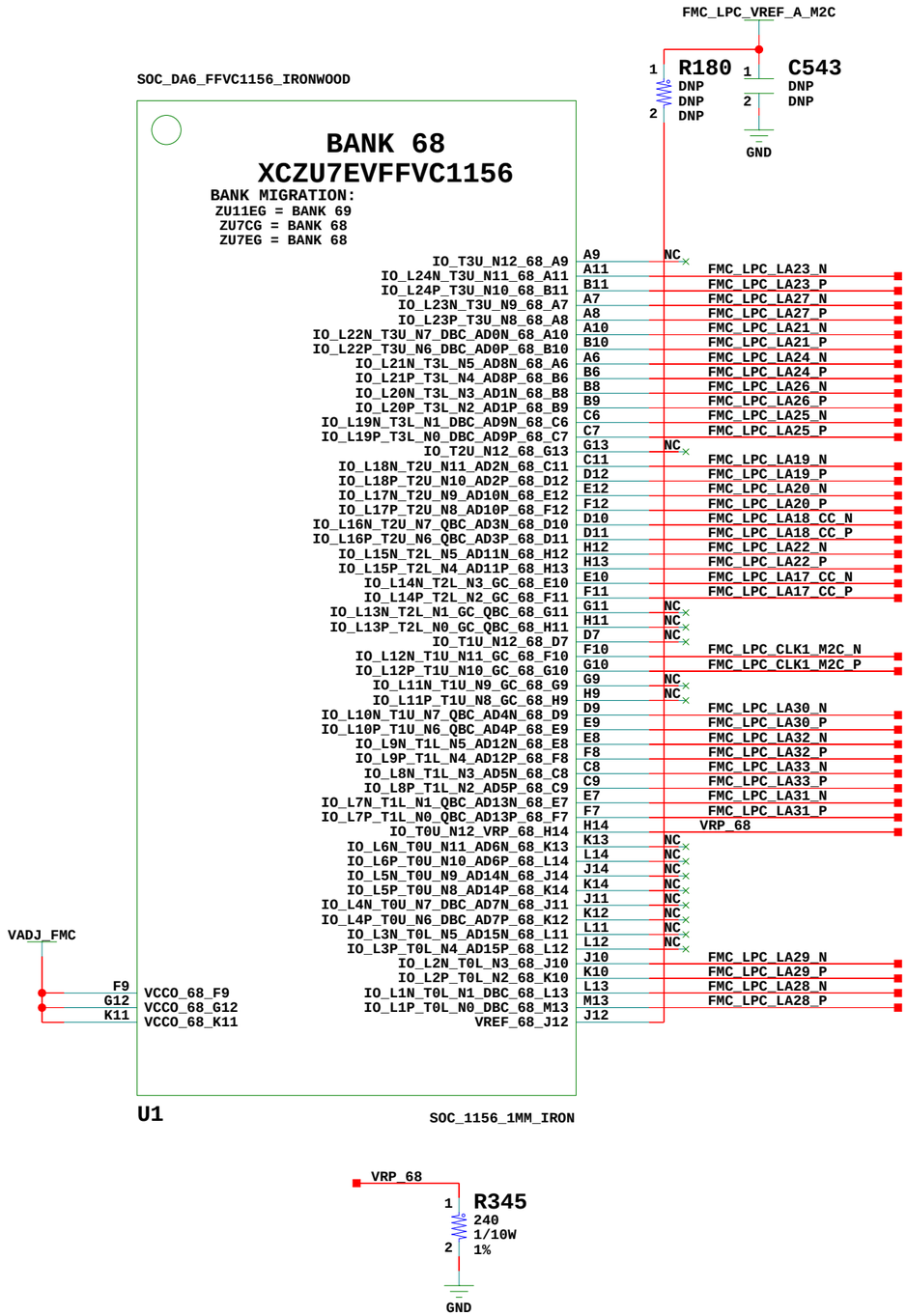
Zynq Banks 66 67

XILINX

TITLE: Zynq Banks 66 67
SCHEM, ROHS COMPLIANT
HW-Z1-ZCU104_REV1_0

ASSY P/N: 0432057
PCB P/N: 1280961
SCH P/N: 0381794
TEST P/N: TSS0189

DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 6 OF 58	DRAWN BY: BF



Zynq Banks 68

TITLE: Zynq Banks 68 SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 7 OF 58	DRAWN BY: BF

SOC_DA6_FFVC1156_IRONWOOD

BANK 87
XCZU7EVFFVC1156

BANK MIGRATION:
ZU11EG = BANK 88-HD
ZU7CG = BANK 87-HD
ZU7EG = BANK 87-HD

VCC3V3

J8 VCCO_87_J8
N10 VCCO_87_N10

IO_L12N_AD0N_87_G8	G8	PMOD0_0
IO_L12P_AD0P_87_H8	H8	PMOD0_1
IO_L11N_AD1N_87_G7	G7	PMOD0_2
IO_L11P_AD1P_87_H7	H7	PMOD0_3
IO_L10N_AD2N_87_G6	G6	PMOD0_4
IO_L10P_AD2P_87_H6	H6	PMOD0_5
IO_L9N_AD3N_87_J6	J6	PMOD0_6
IO_L9P_AD3P_87_J7	J7	PMOD0_7
IO_L8N_HDGC_AD4N_87_J9	J9	PMOD1_0
IO_L8P_HDGC_AD4P_87_K9	K9	PMOD1_1
IO_L7N_HDGC_AD5N_87_K8	K8	PMOD1_2
IO_L7P_HDGC_AD5P_87_L8	L8	PMOD1_3
IO_L6N_HDGC_AD6N_87_L10	L10	PMOD1_4
IO_L6P_HDGC_AD6P_87_M10	M10	PMOD1_5
IO_L5N_HDGC_AD7N_87_M8	M8	PMOD1_6
IO_L5P_HDGC_AD7P_87_M9	M9	PMOD1_7
IO_L4N_AD8N_87_M11	M11	CPU_RESET
IO_L4P_AD8P_87_N11	N11	HDMI_8T49N241_LOL
IO_L3N_AD9N_87_M12	M12	HDMI_8T49N241_RST
IO_L3P_AD9P_87_N13	N13	HDMI_TX_LS_OE
IO_L2N_AD10N_87_N8	N8	HDMI_TX_CT_HPD
IO_L2P_AD10P_87_N9	N9	NC
IO_L1N_AD11N_87_N12	N12	PL_I2C1_SCL_LS
IO_L1P_AD11P_87_P12	P12	PL_I2C1_SDA_LS

U1

SOC_1156_1MM_IRON

SOC_DA6_FFVC1156_IRONWOOD

BANK 88
XCZU7EVFFVC1156

BANK MIGRATION:
ZU11EG = BANK 89-HD
ZU7CG = BANK 88-HD
ZU7EG = BANK 88-HD

VCC3V3

D3 VCCO_88_D3
E6 VCCO_88_E6

IO_L12N_AD8N_88_E5	E5	HDMI_RX_PWR_DET
IO_L12P_AD8P_88_F6	F6	HDMI_RX_HPD
IO_L11N_AD9N_88_D5	D5	GPIO_LED_0_LS
IO_L11P_AD9P_88_D6	D6	GPIO_LED_1_LS
IO_L10N_AD10N_88_A5	A5	GPIO_LED_2_LS
IO_L10P_AD10P_88_B5	B5	GPIO_LED_3_LS
IO_L9N_AD11N_88_F4	F4	GPIO_DIP_SW3
IO_L9P_AD11P_88_F5	F5	GPIO_DIP_SW2
IO_L8N_HDGC_88_D4	D4	GPIO_DIP_SW1
IO_L8P_HDGC_88_E4	E4	GPIO_DIP_SW0
IO_L7N_HDGC_88_B4	B4	GPIO_PB_SW0
IO_L7P_HDGC_88_C4	C4	GPIO_PB_SW1
IO_L6N_HDGC_88_B3	B3	GPIO_PB_SW2
IO_L6P_HDGC_88_C3	C3	GPIO_PB_SW3
IO_L5N_HDGC_88_C2	C2	NC
IO_L5P_HDGC_88_D2	D2	HDMI_RX_SNK_SCL
IO_L4N_AD12N_88_E2	E2	HDMI_RX_SNK_SDA
IO_L4P_AD12P_88_E3	E3	HDMI_TX_HPD
IO_L3N_AD13N_88_A2	A2	HDMI_TX_EN
IO_L3P_AD13P_88_A3	A3	HDMI_TX_CEC
IO_L2N_AD14N_88_B1	B1	HDMI_TX_SRC_SCL
IO_L2P_AD14P_88_C1	C1	HDMI_TX_SRC_SDA
IO_L1N_AD15N_88_D1	D1	HDMI_CTL_SCL
IO_L1P_AD15P_88_E1	E1	HDMI_CTL_SDA

U1

SOC_1156_1MM_IRON

VCC3V3

R633 2.00K 1/16W 1% (1–2)
R632 2.00K 1/16W 1% (1–2)
R631 2.00K 1/16W 1% (1–2)
R630 2.00K 1/16W 1% (1–2)

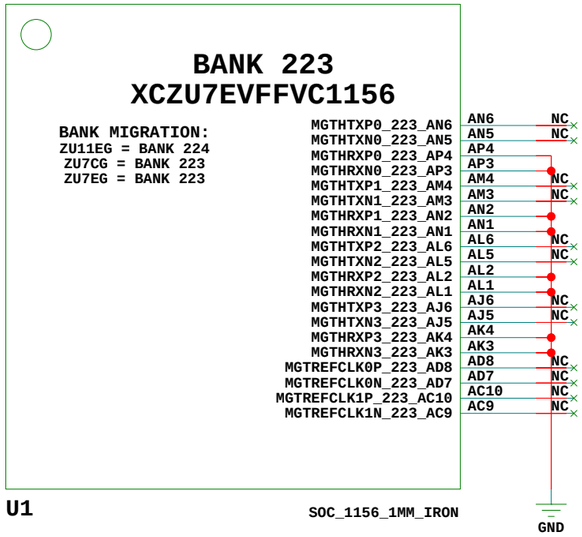
R894 DNP (1–2)
R893 DNP (1–2)

Zynq Banks 87 88

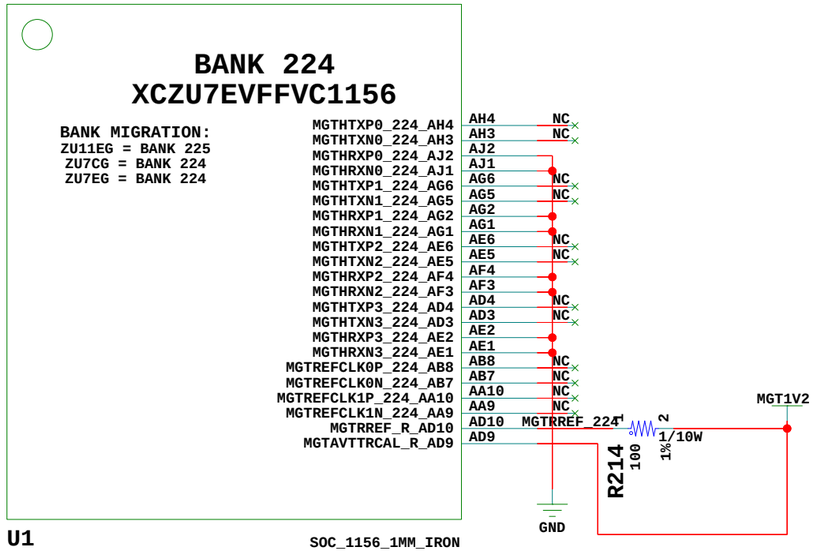
XILINX

TITLE: Zynq Banks 87 88 SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 8 OF 58	DRAWN BY: BF

SOC_DA6_FFVC1156_IRONWOOD



SOC_DA6_FFVC1156_IRONWOOD



Zynq Banks 223 224

XILINX

TITLE: Zynq Banks 223 224 SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 9 OF 58	DRAWN BY: BF

SOC_DA6_FFVC1156_IRONWOOD

BANK 225
XCZU7EVFFVC1156

BANK MIGRATION:
ZU11EG = BANK 226
ZU7CG = BANK 225
ZU7EG = BANK 225

MGTHTXP0_225_AC6	AC6	NC
MGTHTXN0_225_AC5	AC5	NC
MGTHRXP0_225_AC2	AC2	
MGTHRXN0_225_AC1	AC1	
MGTHTXP1_225_AA6	AA6	NC
MGTHTXN1_225_AA5	AA5	NC
MGTHRXP1_225_AB4	AB4	
MGTHRXN1_225_AB3	AB3	
MGTHTXP2_225_Y4	Y4	NC
MGTHTXN2_225_Y3	Y3	NC
MGTHRXP2_225_AA2	AA2	
MGTHRXN2_225_AA1	AA1	
MGTHTXP3_225_W6	W6	NC
MGTHTXN3_225_W5	W5	NC
MGTHRXP3_225_W2	W2	
MGTHRXN3_225_W1	W1	
MGTREFCLK0P_225_Y8	Y8	NC
MGTREFCLK0N_225_Y7	Y7	NC
MGTREFCLK1P_225_W10	W10	NC
MGTREFCLK1N_225_W9	W9	NC

GND

U1 SOC_1156_1MM_IRON

SOC_DA6_FFVC1156_IRONWOOD

BANK 226
XCZU7EVFFVC1156

BANK MIGRATION:
ZU11EG = BANK 227
ZU7CG = BANK 226
ZU7EG = BANK 226

MGTHTXP0_226_U6	U6	NC
MGTHTXN0_226_U5	U5	NC
MGTHRXP0_226_V4	V4	
MGTHRXN0_226_V3	V3	
MGTHTXP1_226_T4	T4	NC
MGTHTXN1_226_T3	T3	NC
MGTHRXP1_226_U2	U2	
MGTHRXN1_226_U1	U1	
MGTHTXP2_226_R6	R6	NC
MGTHTXN2_226_R5	R5	NC
MGTHRXP2_226_R2	R2	
MGTHRXN2_226_R1	R1	
MGTHTXP3_226_N6	N6	FMC_LPC_DP0_C2M_P
MGTHTXN3_226_N5	N5	FMC_LPC_DP0_C2M_N
MGTHRXP3_226_P4	P4	FMC_LPC_DP0_M2C_P
MGTHRXN3_226_P3	P3	FMC_LPC_DP0_M2C_N
MGTREFCLK0P_226_V8	V8	FMC_LPC_GBTCLK0_M2C_C_P
MGTREFCLK0N_226_V7	V7	FMC_LPC_GBTCLK0_M2C_C_N
MGTREFCLK1P_226_U10	U10	HDMI_DRU_CLOCK_C_P
MGTREFCLK1N_226_U9	U9	HDMI_DRU_CLOCK_C_N

GND

U1 SOC_1156_1MM_IRON

C1212 0.01UF 25V
C1213 0.01UF 25V

HDMI_DRU_CLOCK_C_P → HDMI_DRU_CLOCK_P
HDMI_DRU_CLOCK_C_N → HDMI_DRU_CLOCK_N

C169 0.01UF 25V
C170 0.01UF 25V

FMC_LPC_GBTCLK0_M2C_C_P → FMC_LPC_GBTCLK0_M2C_P
FMC_LPC_GBTCLK0_M2C_C_N → FMC_LPC_GBTCLK0_M2C_N

SOC_DA6_FFVC1156_IRONWOOD

BANK 227
XCZU7EVFFVC1156

BANK MIGRATION:
ZU11EG = BANK 228
ZU7CG = BANK 227
ZU7EG = BANK 227

MGTHTXP0_227_M4	M4	HDMI_TX0_P
MGTHTXN0_227_M3	M3	HDMI_TX0_N
MGTHRXP0_227_N2	N2	HDMI_RX0_C_P
MGTHRXN0_227_N1	N1	HDMI_RX0_C_N
MGTHTXP1_227_L6	L6	HDMI_TX1_P
MGTHTXN1_227_L5	L5	HDMI_TX1_N
MGTHRXP1_227_L2	L2	HDMI_RX1_C_P
MGTHRXN1_227_L1	L1	HDMI_RX1_C_N
MGTHTXP2_227_K4	K4	HDMI_TX2_P
MGTHTXN2_227_K3	K3	HDMI_TX2_N
MGTHRXP2_227_J2	J2	HDMI_RX2_C_P
MGTHRXN2_227_J1	J1	HDMI_RX2_C_N
MGTHTXP3_227_H4	H4	NC
MGTHTXN3_227_H3	H3	NC
MGTHRXP3_227_G2	G2	
MGTHRXN3_227_G1	G1	
MGTREFCLK0P_227_T8	T8	HDMI_8T49N241_OUT_C_P
MGTREFCLK0N_227_T7	T7	HDMI_8T49N241_OUT_C_N
MGTREFCLK1P_227_R10	R10	HDMI_RX_CLK_C_P
MGTREFCLK1N_227_R9	R9	HDMI_RX_CLK_C_N

GND

U1 SOC_1156_1MM_IRON

C1210 0.01UF 25V
C1211 0.01UF 25V

HDMI_RX_CLK_C_P → HDMI_RX_CLK_P
HDMI_RX_CLK_C_N → HDMI_RX_CLK_N

C1204 0.1UF 25V
C1205 0.1UF 25V

HDMI_RX0_C_P → HDMI_RX0_P
HDMI_RX0_C_N → HDMI_RX0_N

C1206 0.1UF 25V
C1207 0.1UF 25V

HDMI_RX1_C_P → HDMI_RX1_P
HDMI_RX1_C_N → HDMI_RX1_N

C1208 0.1UF 25V
C1209 0.1UF 25V

HDMI_RX2_C_P → HDMI_RX2_P
HDMI_RX2_C_N → HDMI_RX2_N

Zynq Banks 225 226 227

XILINX

TITLE: Zynq Banks 225 226 227 SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 10 OF 58	DRAWN BY: BF

SOC_DA6_FFVC1156_IRONWOOD

BANK 500
XCZU7EVFFVC1156

PS_MIO25_D29	D29	MIO25_CAN_RX
PS_MIO24_E28	E28	MIO24_CAN_TX
PS_MIO23_B29	B29	NC
PS_MIO22_F28	F28	NC
PS_MIO21_C28	C28	UART1_TXD_MIO21_RXD
PS_MIO20_E29	E29	UART1_RXD_MIO20_TXD
PS_MIO19_B28	B28	UART0_RXD_MIO19_TXD
PS_MIO18_F27	F27	UART0_TXD_MIO18_RXD
PS_MIO17_C29	C29	MIO17_I2C1_SDA
PS_MIO16_A28	A28	MIO16_I2C1_SCL
PS_MIO15_E27	E27	NC
PS_MIO14_A27	A27	NC
PS_MIO13_D27	D27	NC
PS_MIO12_C27	C27	NC
PS_MIO11_B26	B26	NC
PS_MIO10_F26	F26	NC
PS_MIO9_C26	C26	NC
PS_MIO8_D26	D26	NC
PS_MIO7_B25	B25	NC
PS_MIO6_A26	A26	NC
PS_MIO5_D25	D25	MIO5_QSPI_LWR_CS_B
PS_MIO4_A25	A25	MIO4_QSPI_LWR_DQ0
PS_MIO3_E25	E25	MIO3_QSPI_LWR_DQ3
PS_MIO2_B24	B24	MIO2_QSPI_LWR_DQ2
PS_MIO1_C24	C24	MIO1_QSPI_LWR_DQ1
PS_MIO0_A24	A24	MIO0_QSPI_LWR_CLK

VCC1V8

C25	VCCO_PSIO0_500_C25
D28	VCCO_PSIO0_500_D28

U1

SOC_1156_1MM_IRON

SOC_DA6_FFVC1156_IRONWOOD

BANK 501
XCZU7EVFFVC1156

PS_MIO51_F34	F34	MIO51_SDIO_CLK_R
PS_MIO50_F33	F33	MIO50_SDIO_CMD_R
PS_MIO49_F32	F32	MIO49_SDIO_DAT3_R
PS_MIO48_F31	F31	MIO48_SDIO_DAT2_R
PS_MIO47_F30	F30	MIO47_SDIO_DAT1_R
PS_MIO46_E34	E34	MIO46_SDIO_DAT0_R
PS_MIO45_E33	E33	
PS_MIO44_E32	E32	NC
PS_MIO43_E30	E30	NC
PS_MIO42_D34	D34	NC
PS_MIO41_D32	D32	NC
PS_MIO40_D31	D31	NC
PS_MIO39_D30	D30	NC
PS_MIO38_C34	C34	NC
PS_MIO37_C33	C33	NC
PS_MIO36_C32	C32	NC
PS_MIO35_C31	C31	NC
PS_MIO34_B34	B34	NC
PS_MIO33_B33	B33	NC
PS_MIO32_B31	B31	NC
PS_MIO31_B30	B30	NC
PS_MIO30_A33	A33	MIO30_DP_AUX_IN
PS_MIO29_A32	A32	MIO29_DP_OE
PS_MIO28_A31	A31	MIO28_DP_HPD
PS_MIO27_A30	A30	MIO27_DP_AUX_OUT
PS_MIO26_A29	A29	NC

R931 30 R934 30 R935 30 R936 30 R937 30 R938

MIO51_SDIO_CLK	
MIO50_SDIO_CMD	
MIO49_SDIO_DAT3	
MIO48_SDIO_DAT2	
MIO47_SDIO_DAT1	
MIO46_SDIO_DAT0	
MIO45_SDIO_DETECT	

VCC1V8

B32	VCCO_PSIO1_501_B32
E31	VCCO_PSIO1_501_E31

U1

SOC_1156_1MM_IRON

SOC_DA6_FFVC1156_IRONWOOD

BANK 502
XCZU7EVFFVC1156

PS_MIO77_L34	L34	MIO77_ENET_MDIO
PS_MIO76_L33	L33	MIO76_ENET_MDC
PS_MIO75_L30	L30	MIO75_ENET_RX_CTRL
PS_MIO74_L29	L29	MIO74_ENET_RX_D3
PS_MIO73_K34	K34	MIO73_ENET_RX_D2
PS_MIO72_K33	K33	MIO72_ENET_RX_D1
PS_MIO71_K32	K32	MIO71_ENET_RX_D0
PS_MIO70_K31	K31	MIO70_ENET_RX_CLK
PS_MIO69_K30	K30	MIO69_ENET_TX_CTRL
PS_MIO68_K29	K29	MIO68_ENET_TX_D3
PS_MIO67_K28	K28	MIO67_ENET_TX_D2
PS_MIO66_J34	J34	MIO66_ENET_TX_D1
PS_MIO65_J32	J32	MIO65_ENET_TX_D0
PS_MIO64_J31	J31	MIO64_ENET_TX_CLK
PS_MIO63_J30	J30	MIO63_USB_DATA7_R
PS_MIO62_J29	J29	MIO62_USB_DATA6_R
PS_MIO61_H34	H34	MIO61_USB_DATA5_R
PS_MIO60_H33	H33	MIO60_USB_DATA4_R
PS_MIO59_H32	H32	MIO59_USB_DATA3_R
PS_MIO58_H31	H31	MIO58_USB_STP_R
PS_MIO57_H29	H29	MIO57_USB_DATA1_R
PS_MIO56_G34	G34	MIO56_USB_DATA0_R
PS_MIO55_G33	G33	MIO55_USB_NXT
PS_MIO54_G31	G31	MIO54_USB_DATA2_R
PS_MIO53_G30	G30	MIO53_USB_DIR
PS_MIO52_G29	G29	MIO52_USB_CLK

R941 30 R942 30 R943 30 R944 30 R945 30 R946 30 R947 30 R949 30 R948

MIO63_USB_DATA7	
MIO62_USB_DATA6	
MIO61_USB_DATA5	
MIO60_USB_DATA4	
MIO59_USB_DATA3	
MIO58_USB_STP	
MIO57_USB_DATA1	
MIO56_USB_DATA0	
MIO54_USB_DATA2	

VCC1V8

H30	VCCO_PSIO2_502_H30
J33	VCCO_PSIO2_502_J33

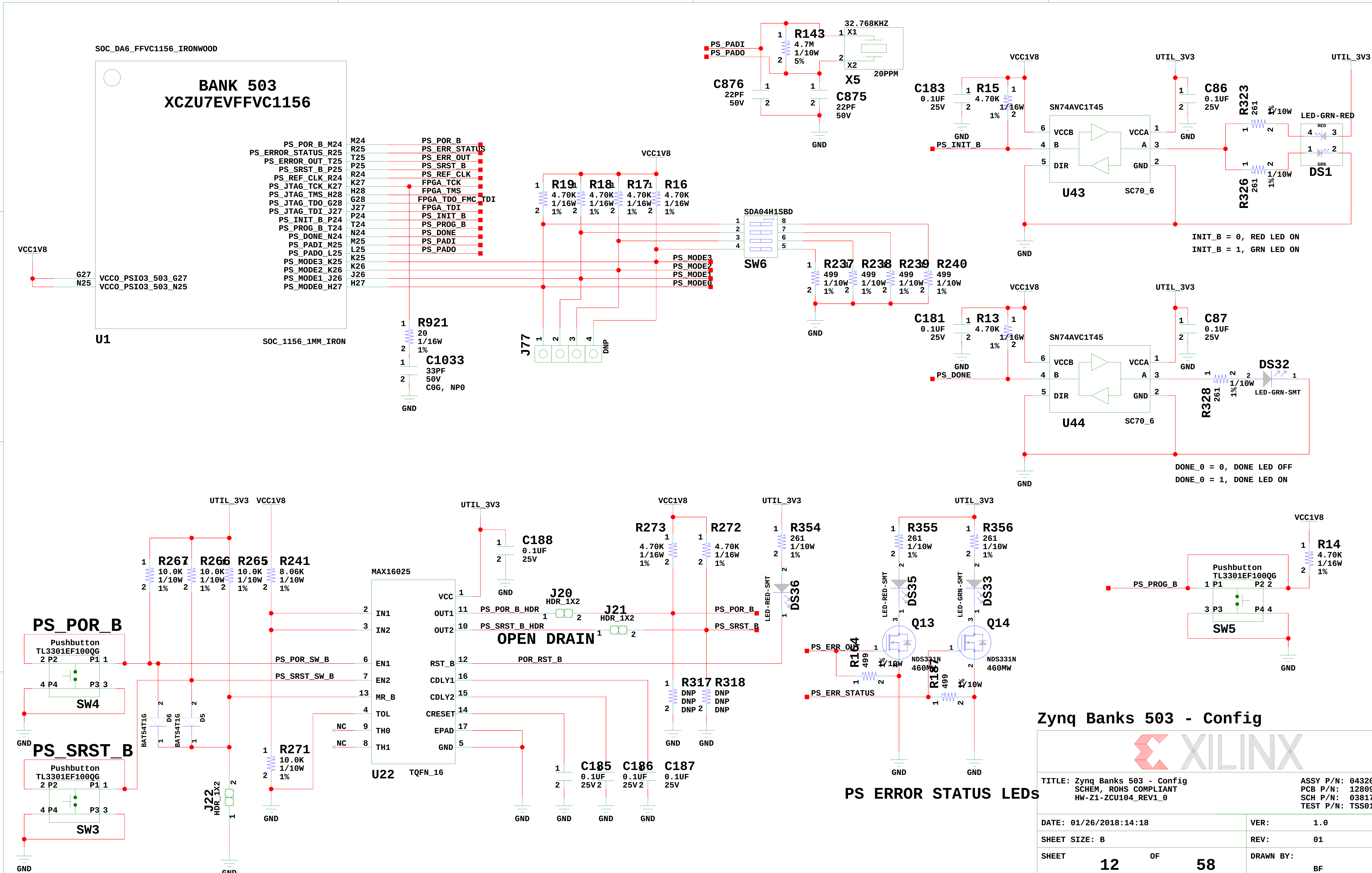
U1

SOC_1156_1MM_IRON

Zynq Banks 500 501 502 - MIO

XILINX

TITLE: Zynq Banks 500 501 502 - MIO SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 11 OF 58	DRAWN BY: BF



BANK 503
XCZU7EVFFVC1156
SOC_DA6_FFVC1156_IRONWOOD
U1
SOC_1156_1MM_IRON
VCC1V8
VCCO_PSIO3_503_G27
VCCO_PSIO3_503_N25
PS_POR_B_M24
PS_ERROR_STATUS_R25
PS_ERROR_OUT_T25
PS_SRST_B_P25
PS_REF_CLK_R24
PS_JTAG_TCK_K27
PS_JTAG_TMS_H28
PS_JTAG_TDO_G28
PS_JTAG_TDI_J27
PS_INIT_B_P24
PS_PROG_B_T24
PS_DONE_N24
PS_PADI_M25
PS_PADO_L25
PS_MODE3_K25
PS_MODE2_K26
PS_MODE1_J26
PS_MODE0_H27
PS_POR_B
PS_ERR_STATUS
PS_ERR_OUT
PS_SRST_B
PS_REF_CLK
FPGA_TCK
FPGA_TMS
FPGA_TDO_FMC_TDI
FPGA_TDI
PS_INIT_B
PS_PROG_B
PS_DONE
PS_PADI
PS_PADO
PS_MODE3
PS_MODE2
PS_MODE1
PS_MODE0
R921 20 1/16W 1%
C1033 33PF 50V C0G, NP0
R19 R18 R17 R16 4.70K 1/16W 1%
J77 DNP
SDA04H1SBD
SW6
R237 R238 R239 R240 499 1/10W 1%
R143 4.7M 1/10W 5%
32.768KHZ X5 20PPM
C876 22PF 50V
C875 22PF 50V
C183 0.1UF 25V
R15 4.70K 1/16W 1%
SN74AVC1T45
U43 SC70_6
C86 0.1UF 25V
R323 261 1/10W 1%
R326 261 1/10W 1%
LED-GRN-RED
DS1
UTIL_3V3
INIT_B = 0, RED LED ON
INIT_B = 1, GRN LED ON
C181 0.1UF 25V
R13 4.70K 1/16W 1%
U44 SC70_6
C87 0.1UF 25V
R328 261 1/10W 1%
DS32 LED-GRN-SMT
DONE_0 = 0, DONE LED OFF
DONE_0 = 1, DONE LED ON
PS_POR_B
Pushbutton TL3301EF100QG
SW4
PS_SRST_B
SW3
R267 R266 R265 10.0K 1/10W 1%
R241 8.06K 1/10W 1%
BAT54T1G D6 D5
J22 HDR_1X2
R271 10.0K 1/10W 1%
MAX16025
U22 TQFN_16
PS_POR_SW_B
PS_SRST_SW_B
C188 0.1UF 25V
J20 HDR_1X2
J21 HDR_1X2
PS_POR_B_HDR
PS_SRST_B_HDR
OPEN DRAIN
POR_RST_B
C185 C186 C187 0.1UF 25V
R273 R272 4.70K 1/16W 1%
R317 R318 DNP
R354 261 1/10W 1%
DS36 LED-RED-SMT
R355 261 1/10W 1%
DS35 LED-RED-SMT
R356 261 1/10W 1%
DS33 LED-GRN-SMT
Q13 Q14 NDS331N 460MW
R164 R167 499 1/10W 1%
PS_ERR_OUT
PS_ERR_STATUS
PS ERROR STATUS LEDs
PS_PROG_B
Pushbutton TL3301EF100QG
SW5
R14 4.70K 1/16W 1%
GND

Zynq Banks 503 - Config

XILINX

TITLE: Zynq Banks 503 - Config
SCHEM, ROHS COMPLIANT
HW-Z1-ZCU104_REV1_0

ASSY P/N: 0432057
PCB P/N: 1280961
SCH P/N: 0381794
TEST P/N: TSS0189

DATE: 01/26/2018:14:18 | VER: 1.0

SHEET SIZE: B | REV: 01

SHEET 12 OF 58 | DRAWN BY: BF

SOC_DA6_FFVC1156_IRONWOOD

BANK 504
XCZU7EVFFVC1156

DDR4_A0	AN34	PS_DDR_A0_AN34	
DDR4_A1	AM34	PS_DDR_A1_AM34	
DDR4_A2	AM33	PS_DDR_A2_AM33	
DDR4_A3	AL34	PS_DDR_A3_AL34	
DDR4_A4	AL33	PS_DDR_A4_AL33	
DDR4_A5	AK33	PS_DDR_A5_AK33	
DDR4_A6	AK30	PS_DDR_A6_AK30	
DDR4_A7	AJ30	PS_DDR_A7_AJ30	
DDR4_A8	AJ31	PS_DDR_A8_AJ31	
DDR4_A9	AH31	PS_DDR_A9_AH31	
DDR4_A10	AG31	PS_DDR_A10_AG31	
DDR4_A11	AF31	PS_DDR_A11_AF31	
DDR4_A12	AG30	PS_DDR_A12_AG30	
DDR4_A13	AF30	PS_DDR_A13_AF30	
DDR4_A14_WE_B	AG29	PS_DDR_A14_AG29	
DDR4_A15_CAS_B	AG28	PS_DDR_A15_AG28	
DDR4_A16_RAS_B	AF28	PS_DDR_A16_AF28	
NC	AF26	PS_DDR_A17_AF26	
DDR4_BA0	AE27	PS_DDR_BA0_AE27	
DDR4_BA1	AE28	PS_DDR_BA1_AE28	
DDR4_ACT_B	AE25	PS_DDR_ACT_N_AE25	
DDR4_ALERT_B	AB26	PS_DDR_ALERT_N_AB26	
DDR4_PAR	AA26	PS_DDR_PARITY_AA26	
DDR4_RESET_B	AD26	PS_DDR_RAM_RST_N_AD26	
DDR4_BG0	AD27	PS_DDR_BG0_AD27	
NC	AF27	PS_DDR_BG1_AF27	
DDR4_CS_B	AP33	PS_DDR_CS_N0_AP33	
NC	AK32	PS_DDR_CS_N1_AK32	
DDR4_CK_T	AL31	PS_DDR_CK0_AL31	
DDR4_CK_C	AN32	PS_DDR_CK_N0_AN32	
NC	AL30	PS_DDR_CK1_AL30	
NC	AL32	PS_DDR_CK_N1_AL32	
DDR4_CKE	AN33	PS_DDR_CKE0_AN33	
NC	AH32	PS_DDR_CKE1_AH32	
DDR4_ODT	AP32	PS_DDR_ODT0_AP32	
NC	AJ32	PS_DDR_ODT1_AJ32	
DDR4_DQS0_T	AN26	PS_DDR_DQS_P0_AN26	
DDR4_DQS0_C	AN27	PS_DDR_DQS_N0_AN27	
DDR4_DQS1_T	AN29	PS_DDR_DQS_P1_AN29	
DDR4_DQS1_C	AP30	PS_DDR_DQS_N1_AP30	
DDR4_DQS2_T	AH26	PS_DDR_DQS_P2_AH26	
DDR4_DQS2_C	AJ26	PS_DDR_DQS_N2_AJ26	
DDR4_DQS3_T	AK28	PS_DDR_DQS_P3_AK28	
DDR4_DQS3_C	AK29	PS_DDR_DQS_N3_AK29	
DDR4_DQS4_T	AD30	PS_DDR_DQS_P4_AD30	
DDR4_DQS4_C	AD31	PS_DDR_DQS_N4_AD31	
DDR4_DQS5_T	Y27	PS_DDR_DQS_P5_Y27	
DDR4_DQS5_C	Y28	PS_DDR_DQS_N5_Y28	
DDR4_DQS6_T	AB33	PS_DDR_DQS_P6_AB33	
DDR4_DQS6_C	AB34	PS_DDR_DQS_N6_AB34	
DDR4_DQS7_T	W31	PS_DDR_DQS_P7_W31	
DDR4_DQS7_C	W32	PS_DDR_DQS_N7_W32	
NC	AG33	PS_DDR_DQS_P8_AG33	
NC	AG34	PS_DDR_DQS_N8_AG34	
DDR4_DM0	AN24	PS_DDR_DM0_AN24	
DDR4_DM1	AM29	PS_DDR_DM1_AM29	
DDR4_DM2	AH24	PS_DDR_DM2_AH24	
DDR4_DM3	AJ29	PS_DDR_DM3_AJ29	
DDR4_DM4	AD29	PS_DDR_DM4_AD29	
DDR4_DM5	Y29	PS_DDR_DM5_Y29	
DDR4_DM6	AC32	PS_DDR_DM6_AC32	
DDR4_DM7	Y32	PS_DDR_DM7_Y32	
NC	AF34	PS_DDR_DM8_AF34	

VCC1V2

AL29	VCCO_PSDDR_504_AL29
AJ33	VCCO_PSDDR_504_AJ33
AJ28	VCCO_PSDDR_504_AJ28
AG32	VCCO_PSDDR_504_AG32
AG27	VCCO_PSDDR_504_AG27
AE31	VCCO_PSDDR_504_AE31
AE26	VCCO_PSDDR_504_AE26

PS_DDR_DQ0_AP27	AP27	DDR4_DQ0	
PS_DDR_DQ1_AP25	AP25	DDR4_DQ1	
PS_DDR_DQ2_AP26	AP26	DDR4_DQ2	
PS_DDR_DQ3_AM26	AM26	DDR4_DQ3	
PS_DDR_DQ4_AP24	AP24	DDR4_DQ4	
PS_DDR_DQ5_AL25	AL25	DDR4_DQ5	
PS_DDR_DQ6_AM25	AM25	DDR4_DQ6	
PS_DDR_DQ7_AM24	AM24	DDR4_DQ7	
PS_DDR_DQ8_AM28	AM28	DDR4_DQ8	
PS_DDR_DQ9_AN28	AN28	DDR4_DQ9	
PS_DDR_DQ10_AP29	AP29	DDR4_DQ10	
PS_DDR_DQ11_AP28	AP28	DDR4_DQ11	
PS_DDR_DQ12_AM31	AM31	DDR4_DQ12	
PS_DDR_DQ13_AP31	AP31	DDR4_DQ13	
PS_DDR_DQ14_AN31	AN31	DDR4_DQ14	
PS_DDR_DQ15_AM30	AM30	DDR4_DQ15	
PS_DDR_DQ16_AF25	AF25	DDR4_DQ16	
PS_DDR_DQ17_AG25	AG25	DDR4_DQ17	
PS_DDR_DQ18_AG26	AG26	DDR4_DQ18	
PS_DDR_DQ19_AJ25	AJ25	DDR4_DQ19	
PS_DDR_DQ20_AG24	AG24	DDR4_DQ20	
PS_DDR_DQ21_AK25	AK25	DDR4_DQ21	
PS_DDR_DQ22_AJ24	AJ24	DDR4_DQ22	
PS_DDR_DQ23_AK24	AK24	DDR4_DQ23	
PS_DDR_DQ24_AH28	AH28	DDR4_DQ24	
PS_DDR_DQ25_AH27	AH27	DDR4_DQ25	
PS_DDR_DQ26_AJ27	AJ27	DDR4_DQ26	
PS_DDR_DQ27_AK27	AK27	DDR4_DQ27	
PS_DDR_DQ28_AL26	AL26	DDR4_DQ28	
PS_DDR_DQ29_AL27	AL27	DDR4_DQ29	
PS_DDR_DQ30_AH29	AH29	DDR4_DQ30	
PS_DDR_DQ31_AL28	AL28	DDR4_DQ31	
PS_DDR_DQ32_AB29	AB29	DDR4_DQ32	
PS_DDR_DQ33_AB30	AB30	DDR4_DQ33	
PS_DDR_DQ34_AC29	AC29	DDR4_DQ34	
PS_DDR_DQ35_AD32	AD32	DDR4_DQ35	
PS_DDR_DQ36_AC31	AC31	DDR4_DQ36	
PS_DDR_DQ37_AE30	AE30	DDR4_DQ37	
PS_DDR_DQ38_AC28	AC28	DDR4_DQ38	
PS_DDR_DQ39_AE29	AE29	DDR4_DQ39	
PS_DDR_DQ40_AC27	AC27	DDR4_DQ40	
PS_DDR_DQ41_AA27	AA27	DDR4_DQ41	
PS_DDR_DQ42_AA28	AA28	DDR4_DQ42	
PS_DDR_DQ43_AB28	AB28	DDR4_DQ43	
PS_DDR_DQ44_W27	W27	DDR4_DQ44	
PS_DDR_DQ45_W29	W29	DDR4_DQ45	
PS_DDR_DQ46_W28	W28	DDR4_DQ46	
PS_DDR_DQ47_V27	V27	DDR4_DQ47	
PS_DDR_DQ48_AA32	AA32	DDR4_DQ48	
PS_DDR_DQ49_AA33	AA33	DDR4_DQ49	
PS_DDR_DQ50_AA34	AA34	DDR4_DQ50	
PS_DDR_DQ51_AE34	AE34	DDR4_DQ51	
PS_DDR_DQ52_AD34	AD34	DDR4_DQ52	
PS_DDR_DQ53_AB31	AB31	DDR4_DQ53	
PS_DDR_DQ54_AC34	AC34	DDR4_DQ54	
PS_DDR_DQ55_AC33	AC33	DDR4_DQ55	
PS_DDR_DQ56_AA30	AA30	DDR4_DQ56	
PS_DDR_DQ57_Y30	Y30	DDR4_DQ57	
PS_DDR_DQ58_AA31	AA31	DDR4_DQ58	
PS_DDR_DQ59_W30	W30	DDR4_DQ59	
PS_DDR_DQ60_Y33	Y33	DDR4_DQ60	
PS_DDR_DQ61_W33	W33	DDR4_DQ61	
PS_DDR_DQ62_W34	W34	DDR4_DQ62	
PS_DDR_DQ63_Y34	Y34	DDR4_DQ63	
PS_DDR_DQ64_AF32	AF32	NC	
PS_DDR_DQ65_AE32	AE32	NC	
PS_DDR_DQ66_AH33	AH33	NC	
PS_DDR_DQ67_AE33	AE33	NC	
PS_DDR_DQ68_AF33	AF33	NC	
PS_DDR_DQ69_AH34	AH34	NC	
PS_DDR_DQ70_AJ34	AJ34	NC	
PS_DDR_DQ71_AK34	AK34	NC	
PS_DDR_ZQ_AC26	AC26	SODIMM_ZQ	

R351
240
1/10W
1%
GND

U1

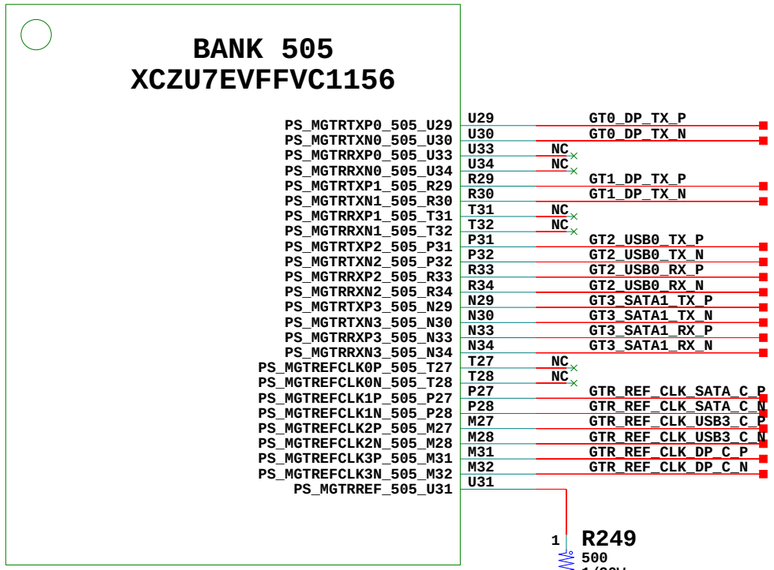
SOC_1156_1MM_IRON

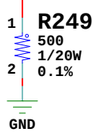
Zynq Banks 504 - Memory

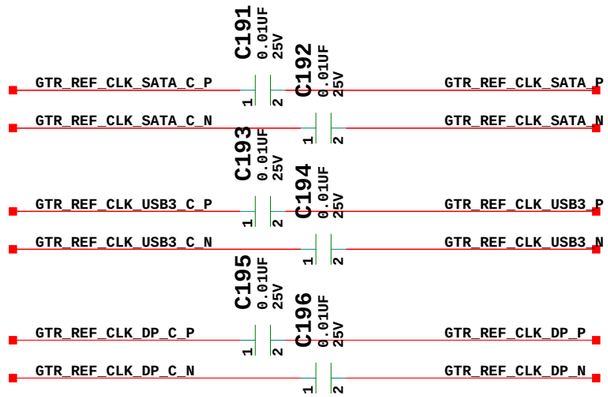
XILINX

TITLE: Zynq Banks 504 - Memory SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 13 OF 58	DRAWN BY: BF

SOC_DA6_FFVC1156_IRONWOOD





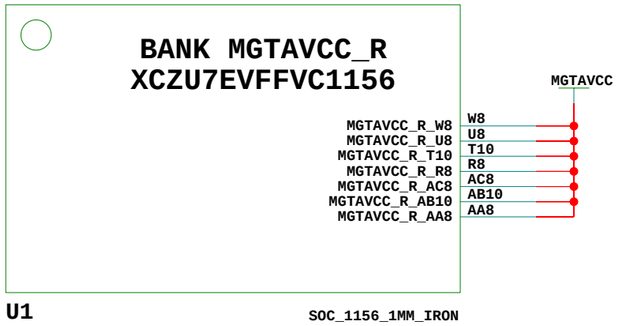


Zynq Banks 505 - GTR

XILINX

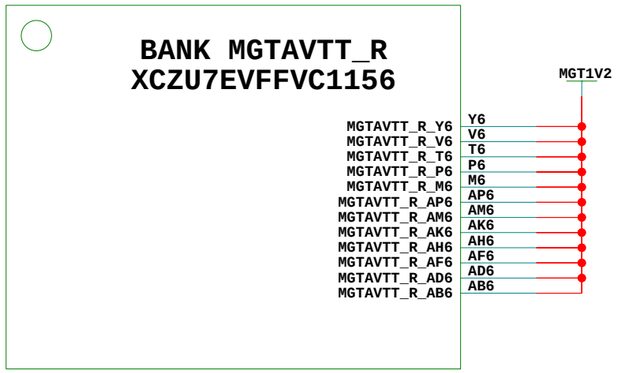
TITLE: Zynq Banks 505 - GTR SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 14 OF 58	DRAWN BY: BF

SOC_DA6_FFVC1156_IRONWOOD



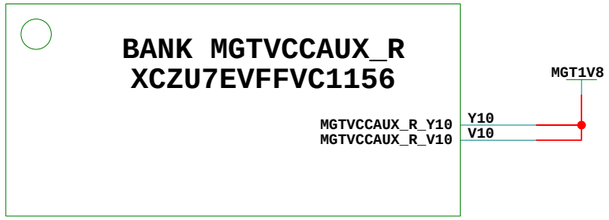
U1 SOC_1156_1MM_IRON

SOC_DA6_FFVC1156_IRONWOOD



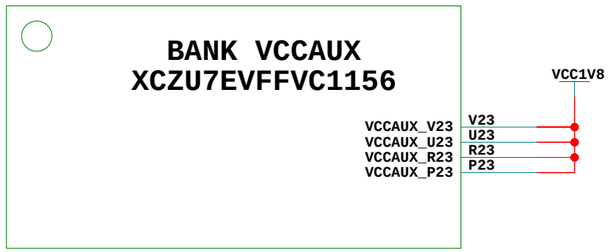
U1 SOC_1156_1MM_IRON

SOC_DA6_FFVC1156_IRONWOOD



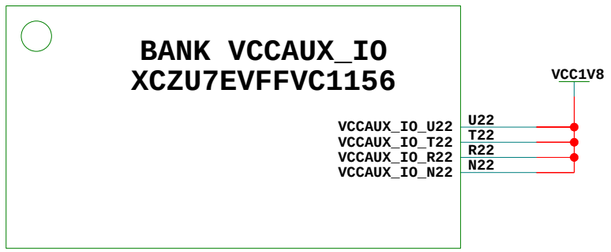
U1 SOC_1156_1MM_IRON

SOC_DA6_FFVC1156_IRONWOOD



U1 SOC_1156_1MM_IRON

SOC_DA6_FFVC1156_IRONWOOD



U1 SOC_1156_1MM_IRON

Zynq Power 1

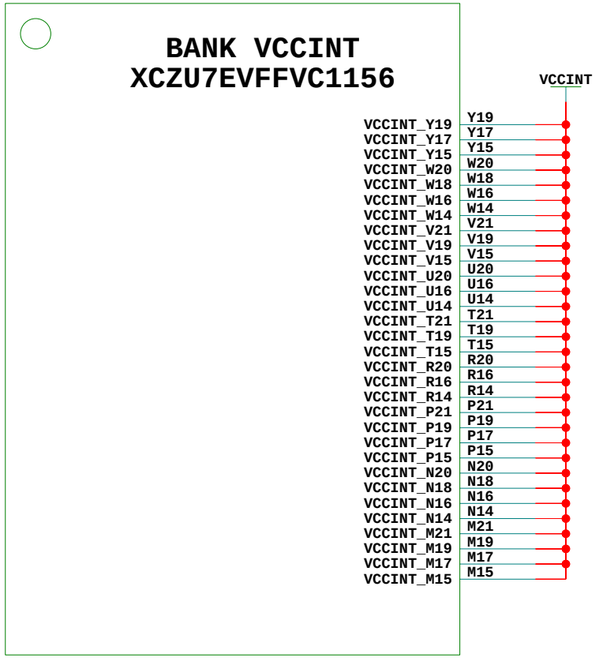
XILINX

TITLE: Zynq Power 1
SCHEM, ROHS COMPLIANT
HW-Z1-ZCU104_REV1_0

ASSY P/N: 0432057
PCB P/N: 1280961
SCH P/N: 0381794
TEST P/N: TSS0189

DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 15 OF 58	DRAWN BY: BF

SOC_DA6_FFVC1156_IRONWOOD



U1

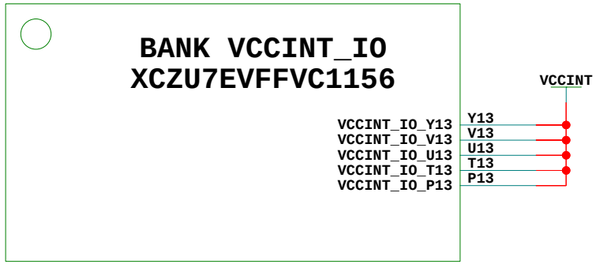
SOC_1156_1MM_IRON

SOC_DA6_FFVC1156_IRONWOOD

U1

SOC_1156_1MM_IRON

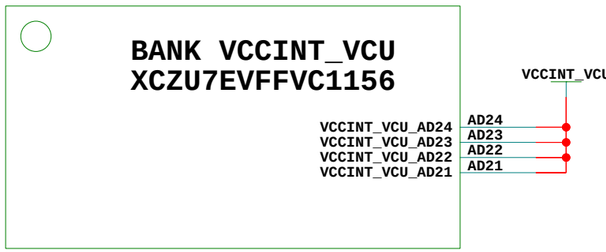
SOC_DA6_FFVC1156_IRONWOOD



U1

SOC_1156_1MM_IRON

SOC_DA6_FFVC1156_IRONWOOD



U1

SOC_1156_1MM_IRON

Zynq Power 2

XILINX

TITLE: Zynq Power 2
SCHEM, ROHS COMPLIANT
HW-Z1-ZCU104_REV1_0

ASSY P/N: 0432057
PCB P/N: 1280961
SCH P/N: 0381794
TEST P/N: TSS0189

DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 16 OF 58	DRAWN BY: BF

SOC_DA6_FFVC1156_IRONWOOD

BANK PS_MGTRAVCC
XCZU7EVFFVC1156

PS_MGTRAVCC_R27
PS_MGTRAVCC_N27

R27
N27

MGTRAVCC

U1

SOC_1156_1MM_IRON

SOC_DA6_FFVC1156_IRONWOOD

BANK PS_MGTRAVTT
XCZU7EVFFVC1156

PS_MGTRAVTT_T29
PS_MGTRAVTT_P29
PS_MGTRAVTT_N31

T29
P29
N31

MGT1V8

U1

SOC_1156_1MM_IRON

SOC_DA6_FFVC1156_IRONWOOD

BANK PS_POWER
XCZU7EVFFVC1156

VCC_PSPLL_Y24
VCC_PSPLL_W24
VCC_PSPLL_V24
VCC_PSINTLP_Y22
VCC_PSINTLP_Y21
VCC_PSINTLP_W22
VCC_PSINTLP_W21
VCC_PSINTLP_V22
VCC_PSINTLP_AA22
VCC_PSINTFP_DDR_AC25
VCC_PSINTFP_DDR_AC24
VCC_PSINTFP_DDR_AB25
VCC_PSINTFP_AC22
VCC_PSINTFP_AC21
VCC_PSINTFP_AB24
VCC_PSINTFP_AB23
VCC_PSINTFP_AB22
VCC_PSINTFP_AB21
VCC_PSINTFP_AA23
VCC_PSDDR_PLL_V25
VCC_PSDDR_PLL_U25
VCC_PSBATT_Y23
VCC_PSAUX_Y25
VCC_PSAUX_W26
VCC_PSAUX_W25
VCC_PSAUX_V26
VCC_PSADC_AA25
GND_PSADC_AA24

Y24
W24
V24
Y22
Y21
W22
W21
V22
AA22
AC25
AC24
AB25
AC22
AC21
AB24
AB23
AB22
AB21
AA23
V25
U25
Y23
Y25
W26
W25
V26
AA25
AA24

MGT1V2
VCCINT
VCCINT
VCCPSDDRPLL
VCC_PSBATT
VCC1V8

U1

SOC_1156_1MM_IRON

VCC1V8
FERRITE-120
L66
C1128 10UF 6.3V X6S
C1197 0.47UF 10V X5R
GND

VCC1V8
FERRITE-600
PS_SYSMON_AVCC
L18
C168 0.1UF 25V X5R
C917 0.47UF 10V X5R
PS_SYSMON_AGND

FERRITE-600
L19
GND
PS_SYSMON_AGND

VCC1V8
NC
D40
40V
BAS40-04
200MW

R22
4.70K
1/16W
1%

VCC_PSBATT

C1215 100UF 4V
C1217 4.7UF 6.3V
GND
GND

TS621E_FL11E
B1
BAT_TS518_TS621_DUAL
GND

Zynq Power 3

XILINX

TITLE: Zynq Power 3 SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 17 OF 58	DRAWN BY: BF

SOC_DA6_FFVC1156_IRONWOOD

BANK GND1
XCZU7EVFFVC1156

J18	GND_J18	GND_AK2	AK2
J13	GND_J13	GND_AK16	AK16
H5	GND_H5	GND_AK1	AK1
H25	GND_H25	GND_AJ8	AJ8
H2	GND_H2	GND_AJ7	AJ7
H10	GND_H10	GND_AJ4	AJ4
H1	GND_H1	GND_AJ3	AJ3
G5	GND_G5	GND_AJ23	AJ23
G4	GND_G4	GND_AJ13	AJ13
G32	GND_G32	GND_AH7	AH7
G3	GND_G3	GND_AH5	AH5
G22	GND_G22	GND_AH30	AH30
G17	GND_G17	GND_AH25	AH25
F3	GND_F3	GND_AH20	AH20
F29	GND_F29	GND_AH2	AH2
F2	GND_F2	GND_AH10	AH10
F19	GND_F19	GND_AH1	AH1
F14	GND_F14	GND_AG7	AG7
F1	GND_F1	GND_AG4	AG4
E26	GND_E26	GND_AG3	AG3
E11	GND_E11	GND_AG17	AG17
D8	GND_D8	GND_AF7	AF7
D33	GND_D33	GND_AF5	AF5
D23	GND_D23	GND_AF29	AF29
D18	GND_D18	GND_AF24	AF24
C5	GND_C5	GND_AF2	AF2
C30	GND_C30	GND_AF14	AF14
C20	GND_C20	GND_AF1	AF1
C15	GND_C15	GND_AE9	AE9
C10	GND_C10	GND_AE8	AE8
B7	GND_B7	GND_AE7	AE7
B27	GND_B27	GND_AE4	AE4
B22	GND_B22	GND_AE3	AE3
B2	GND_B2	GND_AE21	AE21
B17	GND_B17	GND_AE11	AE11
B12	GND_B12	GND_AE10	AE10
AP7	GND_AP7	GND_AD5	AD5
AP5	GND_AP5	GND_AD33	AD33
AP34	GND_AP34	GND_AD28	AD28
AP2	GND_AP2	GND_AD25	AD25
AP1	GND_AP1	GND_AD2	AD2
AN7	GND_AN7	GND_AD18	AD18
AN4	GND_AN4	GND_AD13	AD13
AN30	GND_AN30	GND_AD11	AD11
AN3	GND_AN3	GND_AD1	AD1
AN25	GND_AN25	GND_AC7	AC7
AN20	GND_AN20	GND_AC4	AC4
AN15	GND_AN15	GND_AC30	AC30
AN10	GND_AN10	GND_AC3	AC3
AM7	GND_AM7	GND_AC23	AC23
AM5	GND_AM5	GND_AC20	AC20
AM32	GND_AM32	GND_AC15	AC15
AM27	GND_AM27	GND_AC11	AC11
AM22	GND_AM22	GND_AB9	AB9
AM2	GND_AM2	GND_AB5	AB5
AM17	GND_AM17	GND_AB32	AB32
AM12	GND_AM12	GND_AB27	AB27
AM1	GND_AM1	GND_AB2	AB2
AL9	GND_AL9	GND_AB17	AB17
AL7	GND_AL7	GND_AB11	AB11
AL4	GND_AL4	GND_AB1	AB1
AL3	GND_AL3	GND_AA7	AA7
AL24	GND_AL24	GND_AA4	AA4
AL19	GND_AL19	GND_AA3	AA3
AL14	GND_AL14	GND_AA29	AA29
AK7	GND_AK7	GND_AA21	AA21
AK5	GND_AK5	GND_AA11	AA11
AK31	GND_AK31	GND_A4	A4
AK26	GND_AK26	GND_A34	A34
		GND_A1	A1

GND GND

U1

SOC_1156_1MM_IRON

SOC_DA6_FFVC1156_IRONWOOD

BANK GND2
XCZU7EVFFVC1156

Y9	GND_Y9	GND_R21	R21
Y5	GND_Y5	GND_R19	R19
Y31	GND_Y31	GND_R15	R15
Y26	GND_Y26	GND_R13	R13
Y20	GND_Y20	GND_R11	R11
Y2	GND_Y2	GND_P9	P9
Y18	GND_Y18	GND_P8	P8
Y16	GND_Y16	GND_P7	P7
Y14	GND_Y14	GND_P5	P5
Y12	GND_Y12	GND_P34	P34
Y11	GND_Y11	GND_P33	P33
Y1	GND_Y1	GND_P30	P30
W7	GND_W7	GND_P26	P26
W4	GND_W4	GND_P22	P22
W3	GND_W3	GND_P20	P20
W23	GND_W23	GND_P2	P2
W19	GND_W19	GND_P18	P18
W17	GND_W17	GND_P16	P16
W15	GND_W15	GND_P14	P14
W13	GND_W13	GND_P11	P11
W11	GND_W11	GND_P10	P10
V9	GND_V9	GND_P1	P1
V5	GND_V5	GND_N7	N7
V34	GND_V34	GND_N4	N4
V33	GND_V33	GND_N32	N32
V32	GND_V32	GND_N3	N3
V31	GND_V31	GND_N28	N28
V30	GND_V30	GND_N26	N26
V29	GND_V29	GND_N23	N23
V28	GND_V28	GND_N21	N21
V20	GND_V20	GND_N19	N19
V2	GND_V2	GND_N17	N17
V16	GND_V16	GND_N15	N15
V14	GND_V14	GND_M7	M7
V11	GND_V11	GND_M5	M5
V1	GND_V1	GND_M34	M34
U7	GND_U7	GND_M33	M33
U4	GND_U4	GND_M30	M30
U32	GND_U32	GND_M29	M29
U3	GND_U3	GND_M26	M26
U28	GND_U28	GND_M22	M22
U27	GND_U27	GND_M20	M20
U26	GND_U26	GND_M2	M2
U24	GND_U24	GND_M18	M18
U21	GND_U21	GND_M16	M16
U19	GND_U19	GND_M14	M14
U15	GND_U15	GND_M1	M1
U12	GND_U12	GND_L9	L9
U11	GND_U11	GND_L7	L7
T9	GND_T9	GND_L4	L4
T5	GND_T5	GND_L32	L32
T34	GND_T34	GND_L31	L31
T33	GND_T33	GND_L3	L3
T30	GND_T30	GND_L28	L28
T26	GND_T26	GND_L27	L27
T23	GND_T23	GND_L26	L26
T20	GND_T20	GND_L24	L24
T2	GND_T2	GND_L19	L19
T16	GND_T16	GND_K7	K7
T14	GND_T14	GND_K6	K6
T11	GND_T11	GND_K5	K5
T1	GND_T1	GND_K21	K21
R7	GND_R7	GND_K2	K2
R4	GND_R4	GND_K16	K16
R32	GND_R32	GND_K1	K1
R31	GND_R31	GND_J5	J5
R3	GND_R3	GND_J4	J4
R28	GND_R28	GND_J3	J3
R26	GND_R26	GND_J28	J28
		GND_J23	J23

GND GND

U1

SOC_1156_1MM_IRON

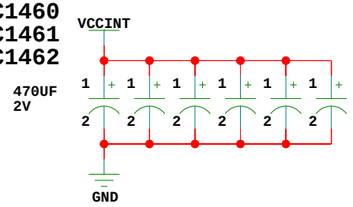
Zynq GND

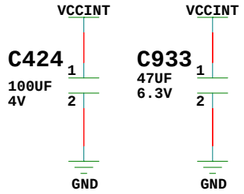
XILINX

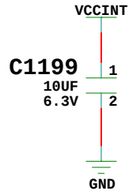
TITLE: Zynq GND SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 18 OF 58	DRAWN BY: BF

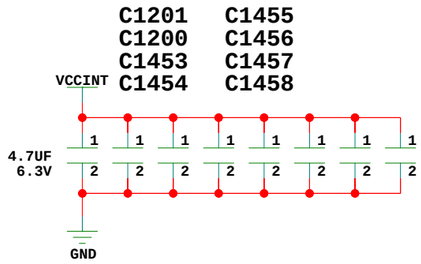
VCCINT/VCCBRAM

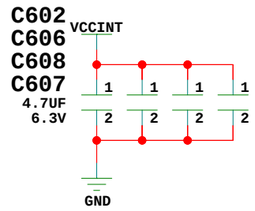
C696
C697
C1459
C1460
C1461
C1462



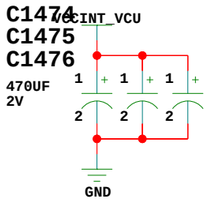


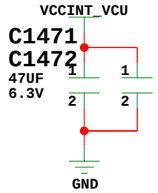


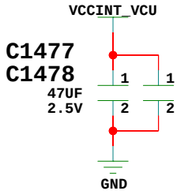


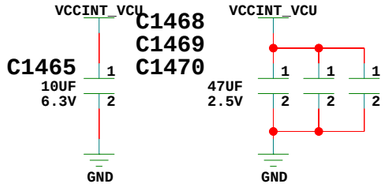


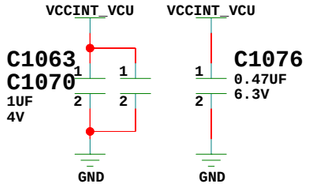
VCCINT_VCU







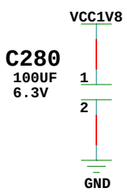


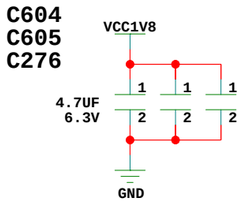


Place these 0201 capacitors directly under U1 near pins AD24/AD23/AD22/AD21

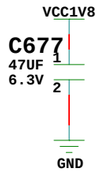
Provide a dual footprint to also support a 0402 cap

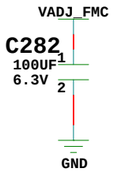
VCCAUX / VCCAUX_IO

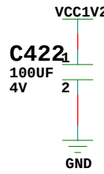


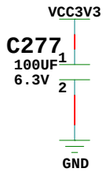


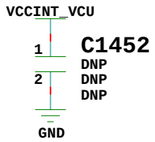
VCCO BANKS 0 28 64 65 66 67 68 87 88





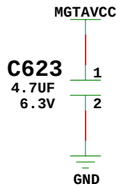


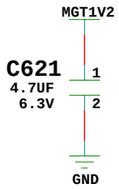


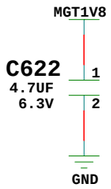


VCCINT_VCU Test Point
Place just outside U1
on bottomside

MGT Power Rails



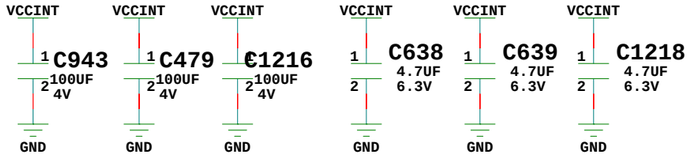




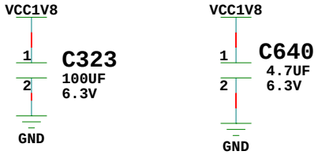
Zynq Decoupling 1

XILINX

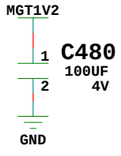
TITLE: Zynq Decoupling 1 SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 19 OF 58	DRAWN BY: BF

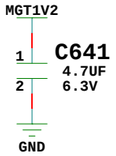


PSINTFP_DDR/PSINTFP/PSINTLP

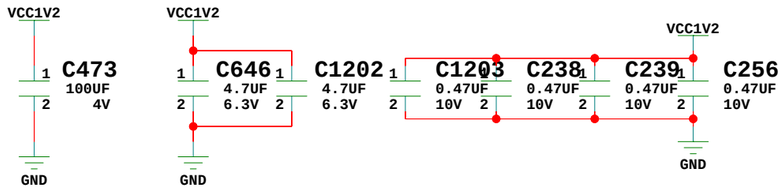


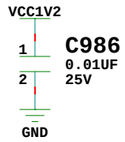
PSAUX





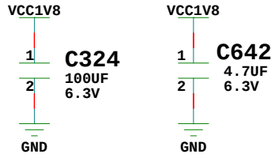
PSPLL

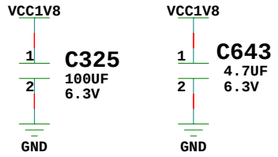


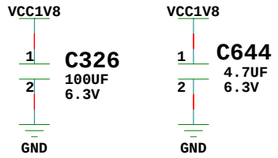


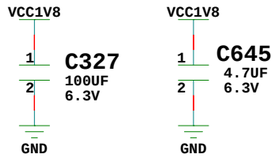
PSDDR

Place this round pad capacitor directly under U1



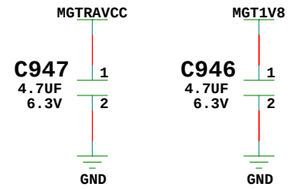






PSIO banks

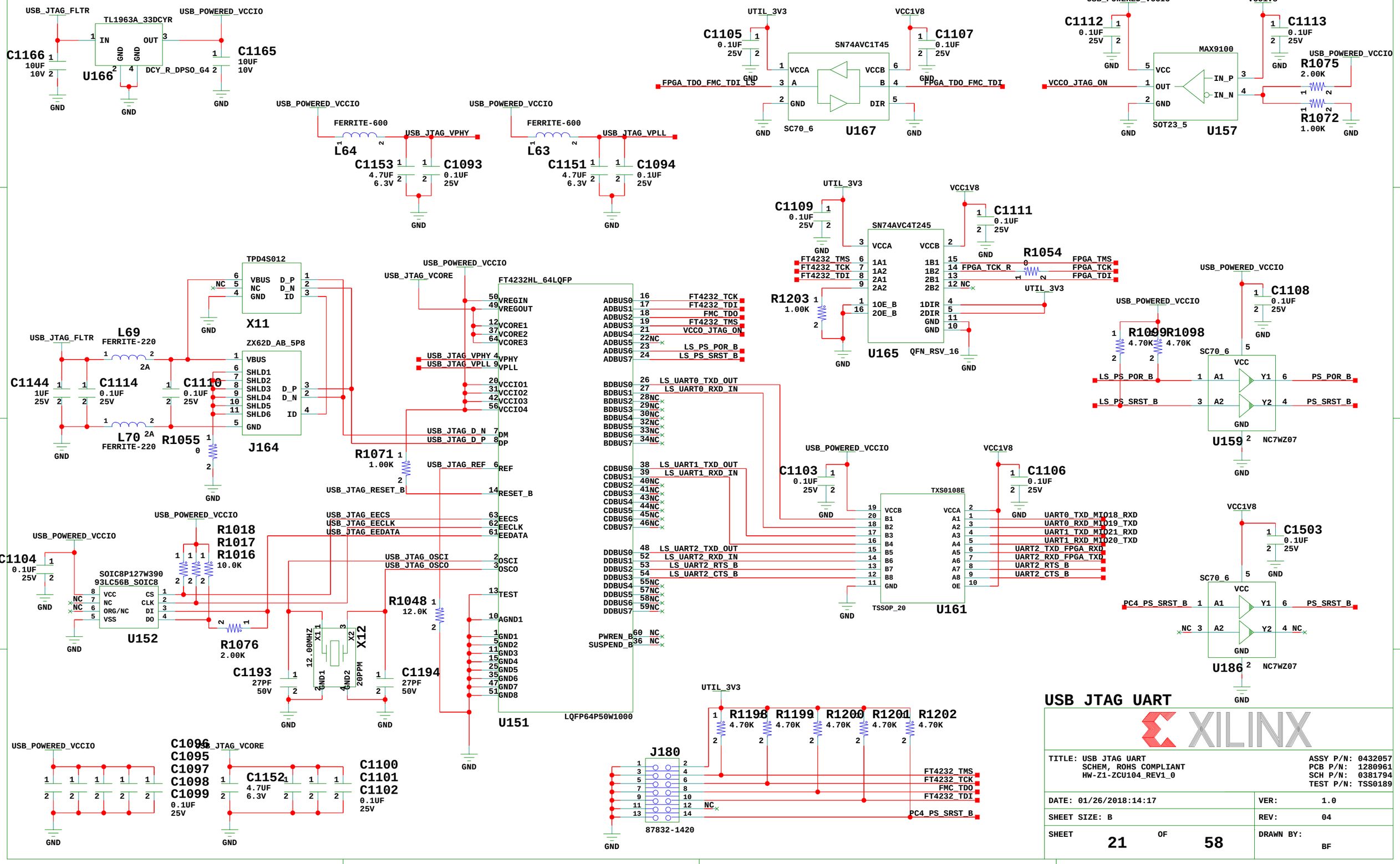
Bank 505



Zynq Decoupling 2

XILINX

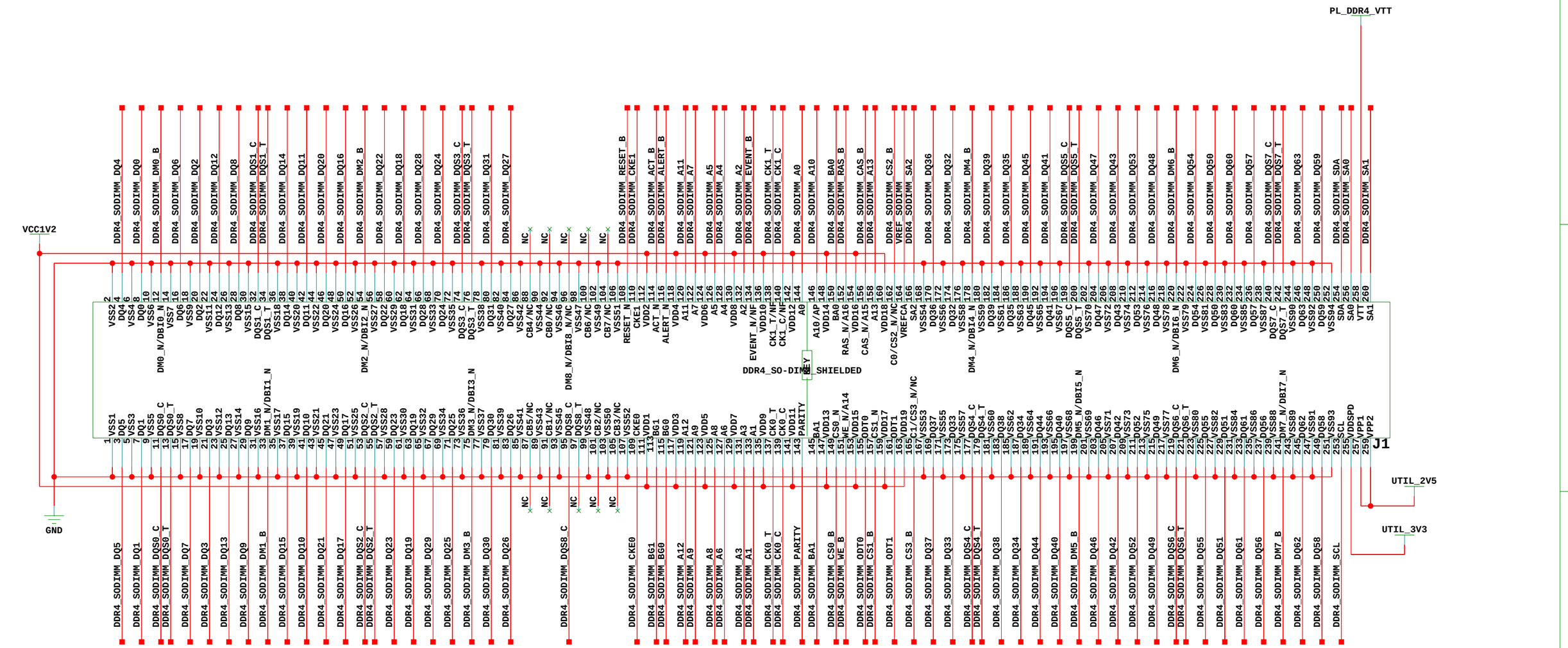
TITLE: Zynq Decoupling 2 SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 20 OF 58	DRAWN BY: BF



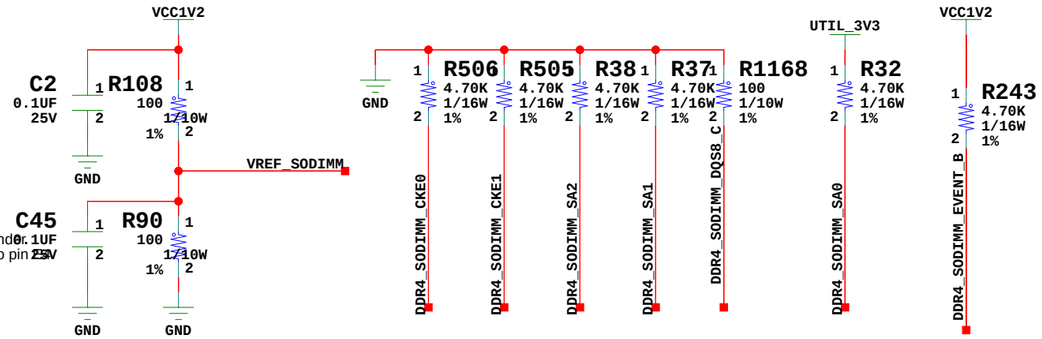
USB JTAG UART

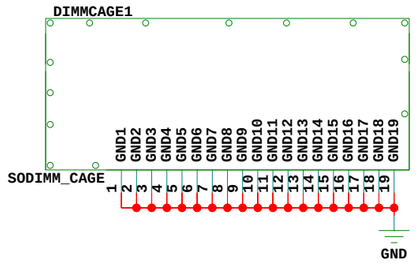
XILINX

TITLE: USB JTAG UART SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 04
SHEET 21 OF 58	DRAWN BY: BF



IIC Address = 0b1010001 (0x51)
SODIMM SA[2:0]=001

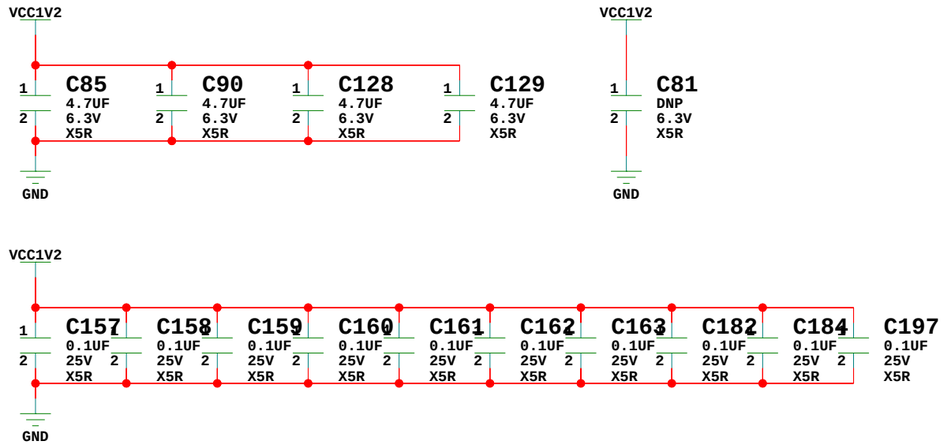




PL DDR4 SODIMM 64 bit

XILINX

TITLE: PL DDR4 SODIMM 64 bit SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 22 OF 58	DRAWN BY: BF

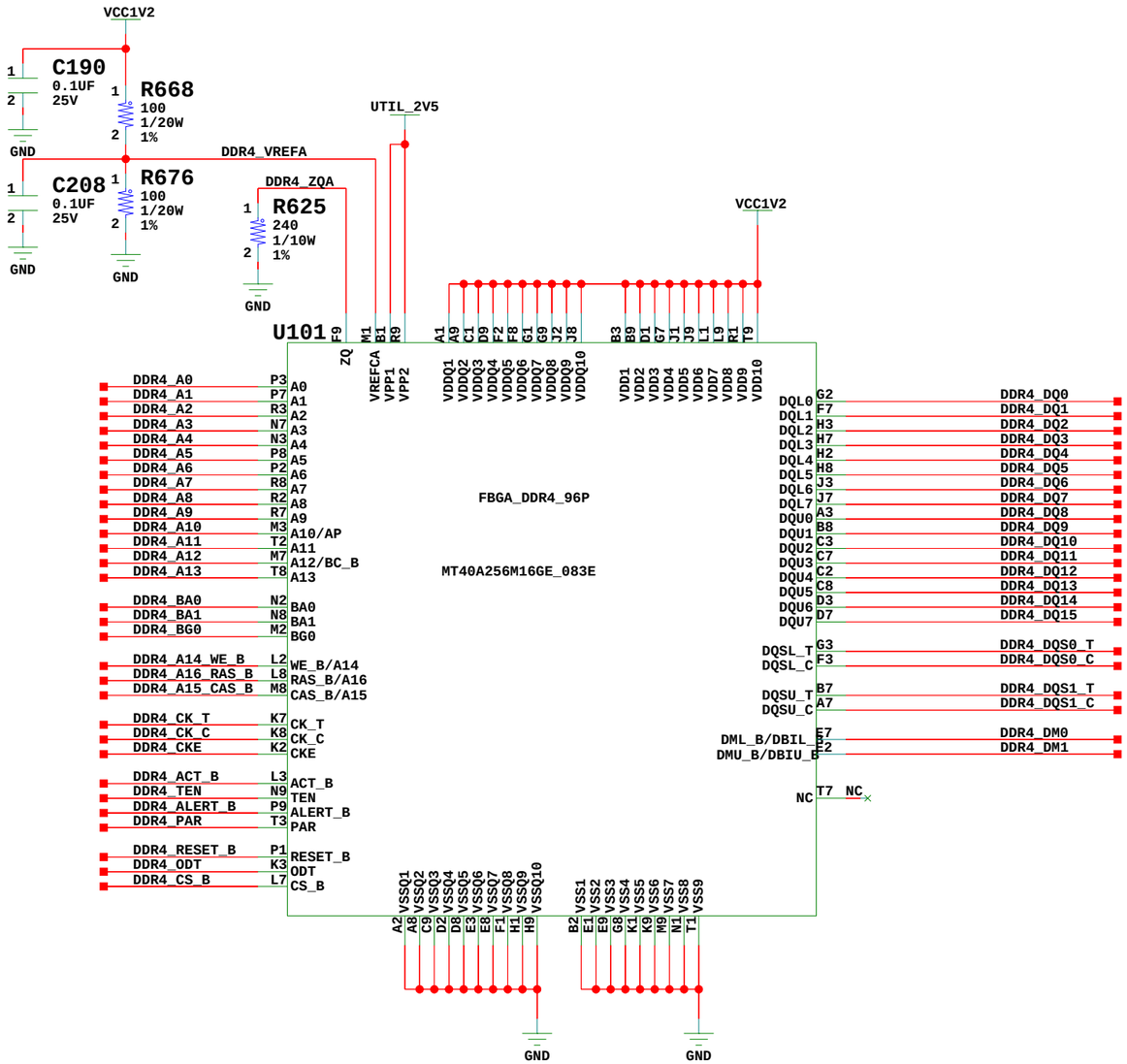


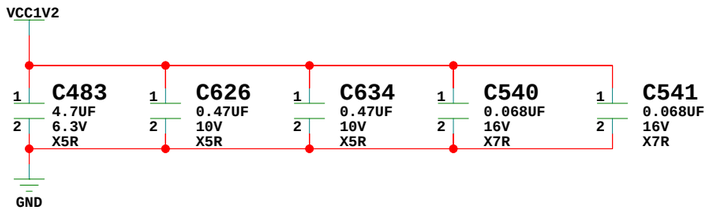
PLACE ABOVE CAPS BENEATH/CLOSE TO DIMM SOCKET

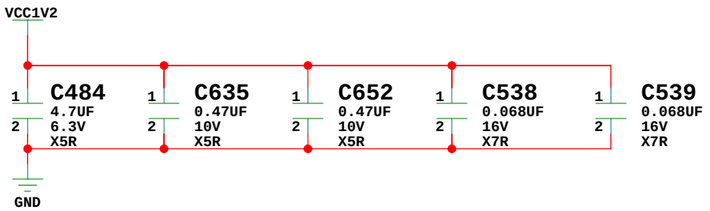
PL DDR4 SODIMM Decoupling

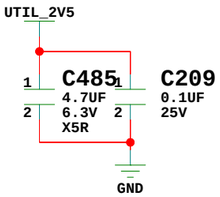
XILINX

TITLE: PL DDR4 SODIMM Decoupling SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 23 OF 58	DRAWN BY: BF





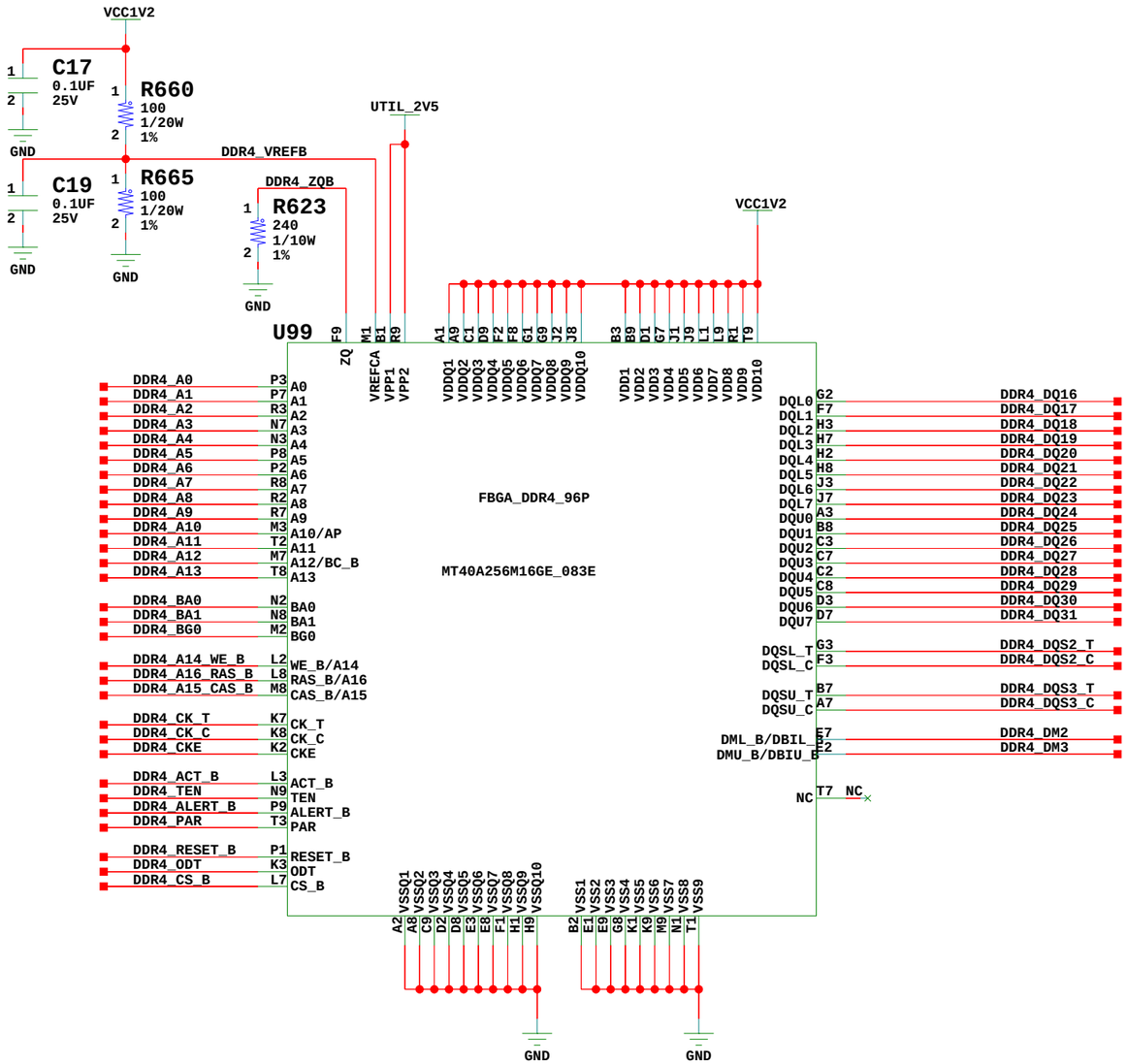


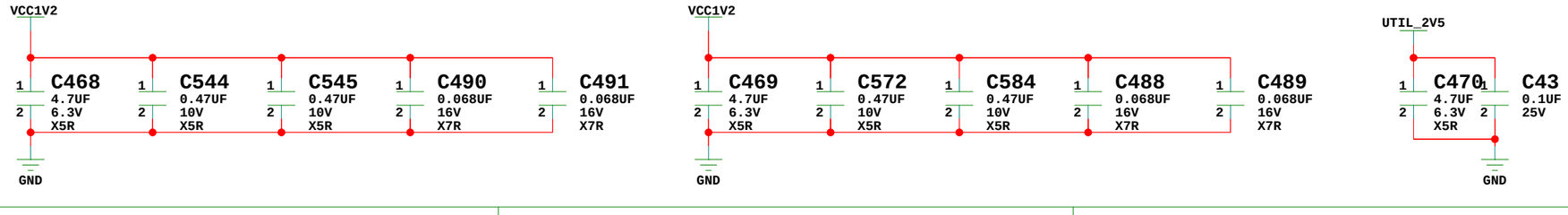


PS Component DDR4 Data [15-0]

XILINX

TITLE: PS Component DDR4 Data [15-0] SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 24 OF 58	DRAWN BY: BF

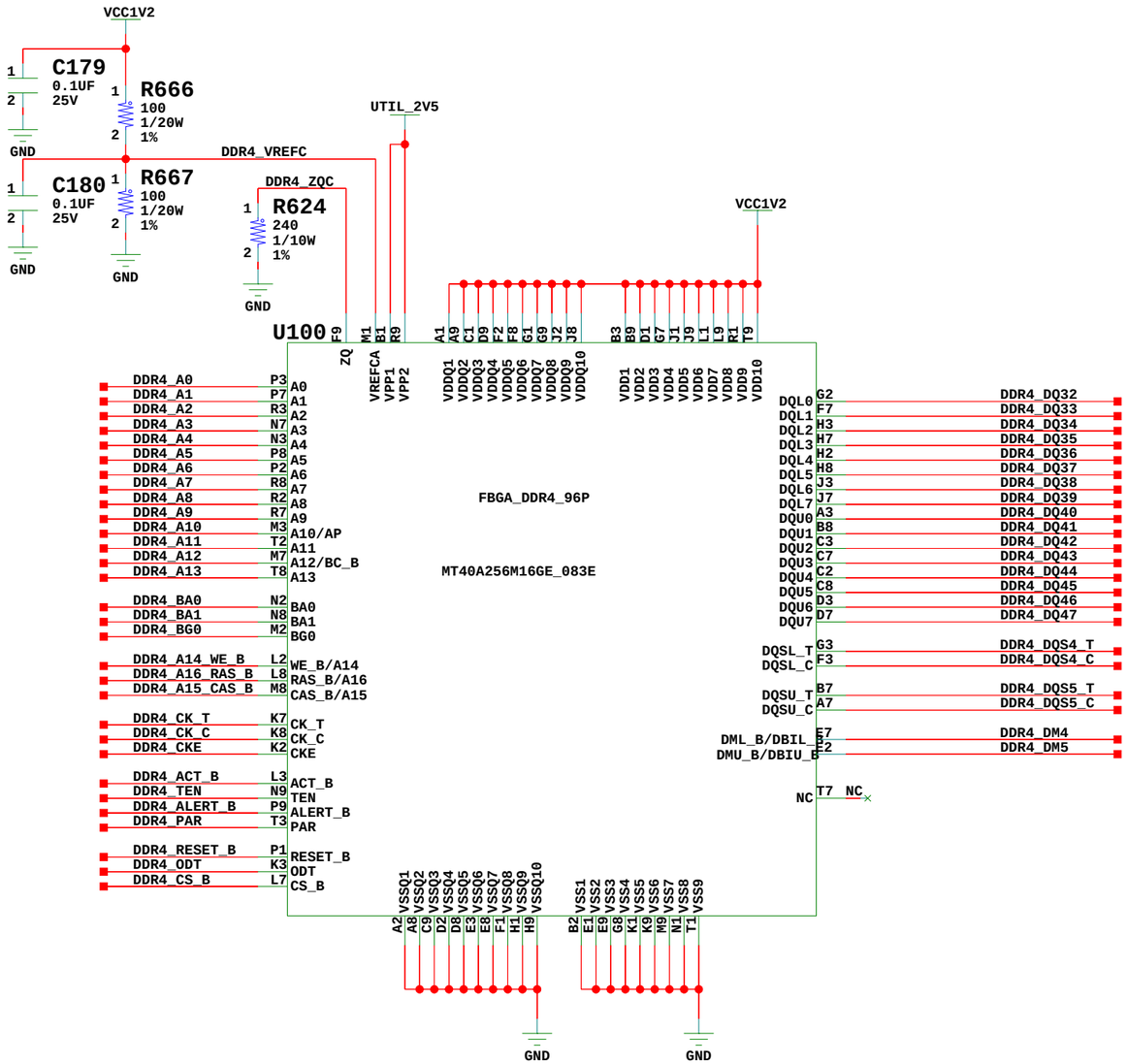


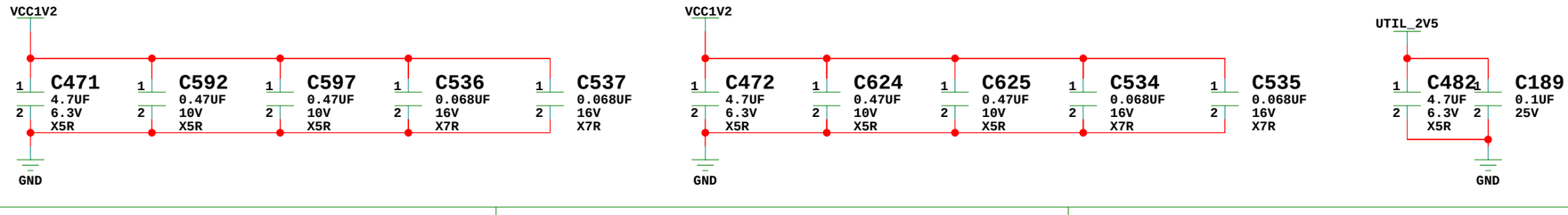


PS Component DDR4 Data [31-16]

XILINX

TITLE: PS Component DDR4 Data [31-16] SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 25 OF 58	DRAWN BY: BF





PS Component DDR4 Data [47-32]

XILINX

TITLE: PS Component DDR4 Data [47-32] SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 26 OF 58	DRAWN BY: BF

Layout: Place 0.1UF cap in via matrix at M1

C66 0.1UF 25V X5R
C67 0.1UF 25V X5R
R357 100 1/20W 1%
R358 100 1/20W 1%
R349 240 1/10W 1%
R478 R477 R491 R493 R495 R494 R492 R482 R483 R484 R485 R486 R487 R488 R489 R481 R480 R479 R496 R497 R498 R499 R500 R501 39.2 1% 1/10W
R144 R145 36
R156 499 1/10W 1%
R402 1.00K 1/16W 1%
R764 4.70K 1/16W 1%
C580 0.01UF 25V X5R
C631 C630 C629 C64 C63 C62 C61 C60 4.7UF 6.3V X5R / 0.1UF 25V X5R
C628 4.7UF 6.3V X5R
C912 C911 0.47UF 10V X5R
C757 C758 0.068UF 16V X7R
C627 4.7UF 6.3V X5R
C910 C909 0.47UF 10V X5R
C756 0.068UF 16V X7R
C755 0.068UF 16V X7R
C632 4.7UF 6.3V X5R
C65 0.1UF 25V X5R

VCC1V2 PS_DDR4_VTT UTIL_2V5 DDR4_VREFD DDR4_ZQD GND

U2 FBGA_DDR4_96P MT40A256M16GE_083E

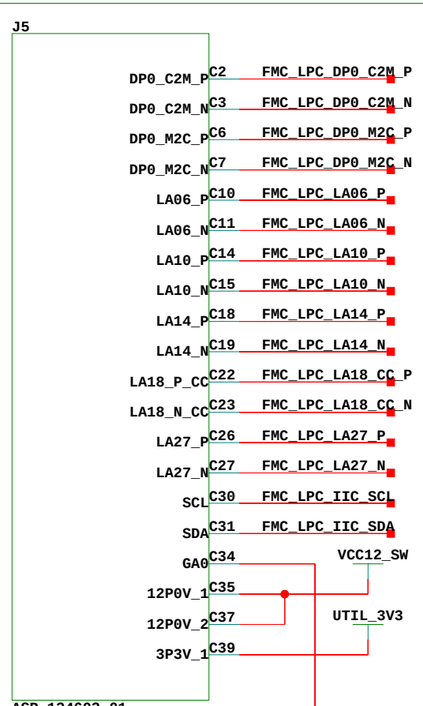
DDR4_A0 DDR4_A1 DDR4_A2 DDR4_A3 DDR4_A4 DDR4_A5 DDR4_A6 DDR4_A7 DDR4_A8 DDR4_A9 DDR4_A10 DDR4_A11 DDR4_A12 DDR4_A13
DDR4_BA0 DDR4_BA1 DDR4_BG0
DDR4_A14_WE_B DDR4_A16_RAS_B DDR4_A15_CAS_B
DDR4_CK_T DDR4_CK_C DDR4_CKE
DDR4_ACT_B DDR4_TEN DDR4_ALERT_B DDR4_PAR
DDR4_RESET_B DDR4_ODT DDR4_CS_B

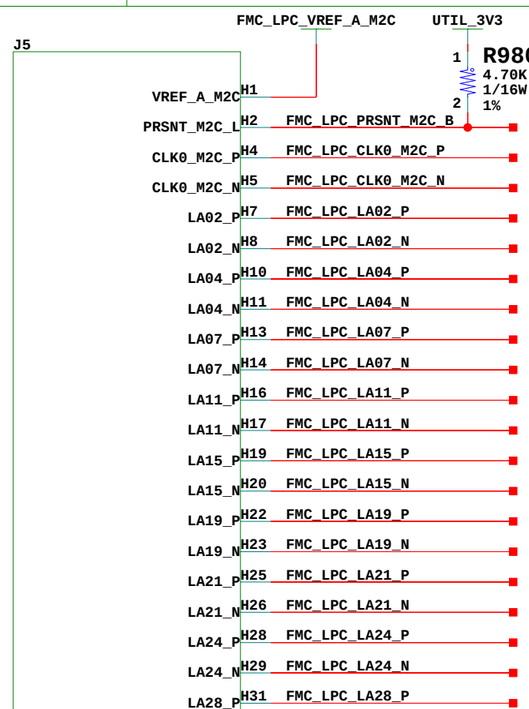
DDR4_DQ48 DDR4_DQ49 DDR4_DQ50 DDR4_DQ51 DDR4_DQ52 DDR4_DQ53 DDR4_DQ54 DDR4_DQ55 DDR4_DQ56 DDR4_DQ57 DDR4_DQ58 DDR4_DQ59 DDR4_DQ60 DDR4_DQ61 DDR4_DQ62 DDR4_DQ63
DDR4_DQS6_T DDR4_DQS6_C
DDR4_DQS7_T DDR4_DQS7_C
DDR4_DM6 DDR4_DM7

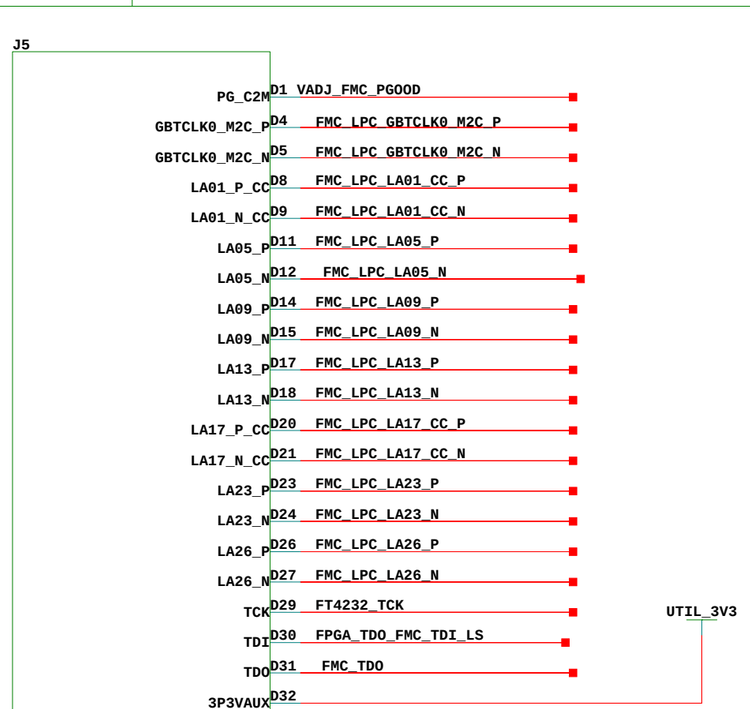
PS Component DDR4 Data [63-48]

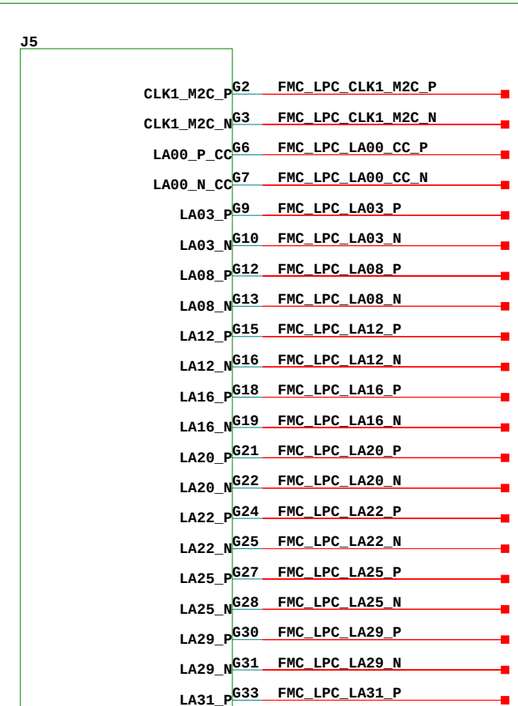
XILINX

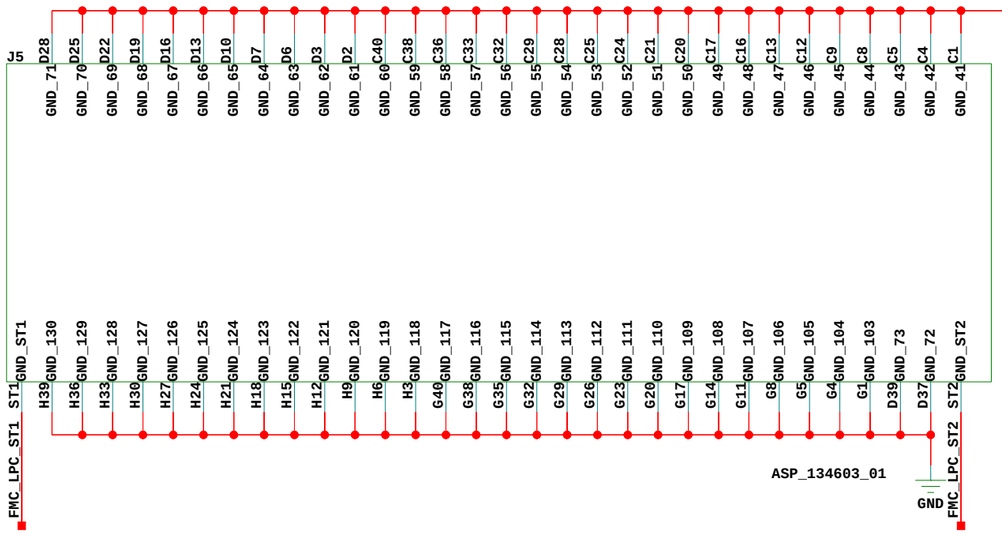
TITLE: PS Component DDR4 Data [63-48] SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 27 OF 58	DRAWN BY: BF

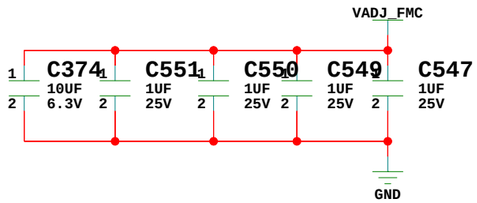


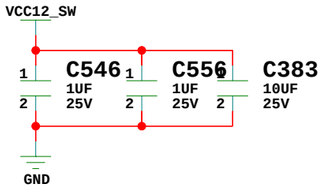


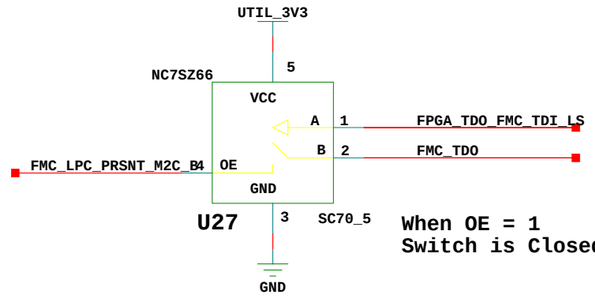


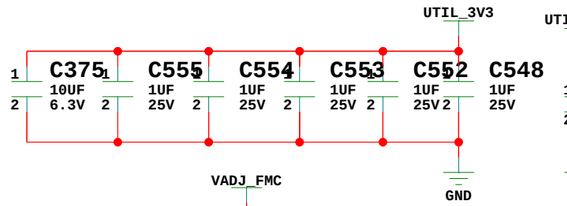


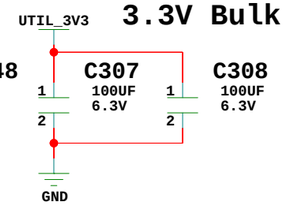


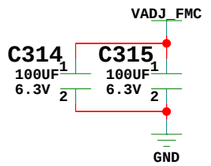










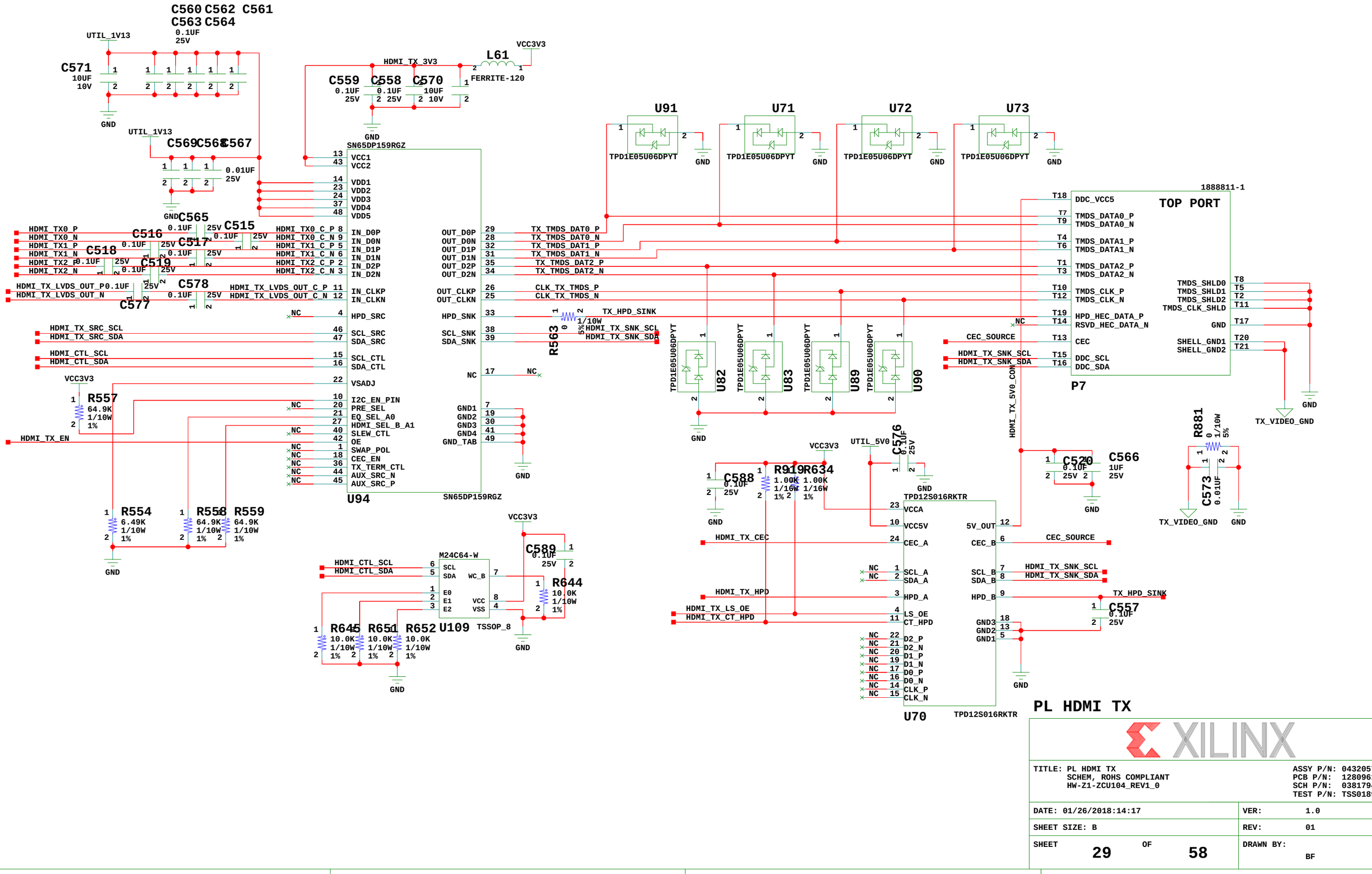


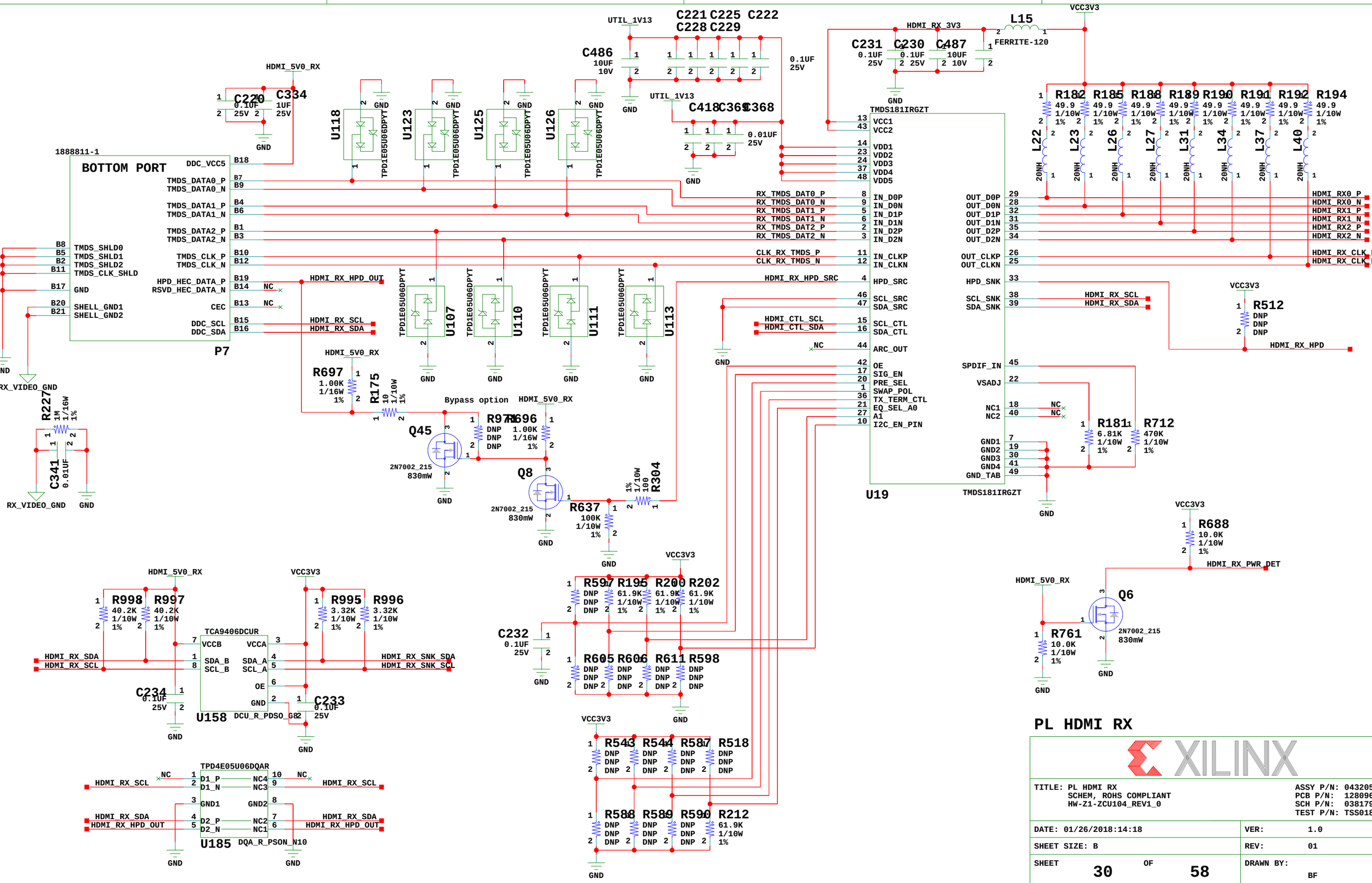
VADJ Bulk

ANSI/VITA 57.1 - Revised 2010
PL FMC LPC Header

XILINX

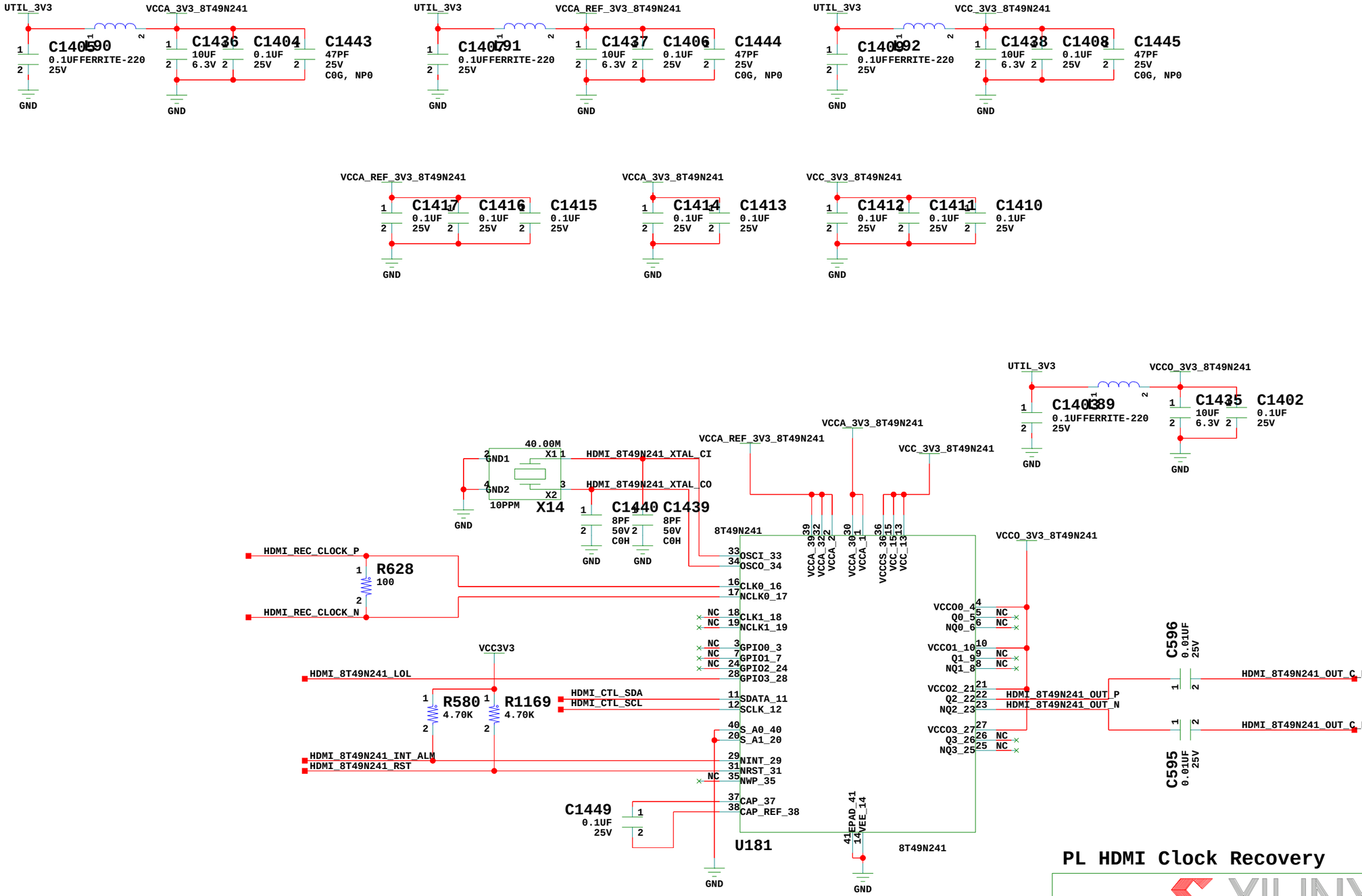
TITLE: PL FMC LPC Header SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 28 OF 58	DRAWN BY: BF


C560 C562 C561
C563 C564
0.1UF
25V
UTIL_1V13
C571
10UF
10V
GND
HDMI_TX_3V3
L61
FERRITE-120
VCC3V3
C559 C558 C570
0.1UF 0.1UF 10UF
25V 2 25V 2 10V
C569 C568 C567
0.01UF
25V
C565
C516
C515
C517
C518
C519
C578
C577
HDMI_TX0_P
HDMI_TX0_N
HDMI_TX1_P
HDMI_TX1_N
HDMI_TX2_P
HDMI_TX2_N
HDMI_TX_LVDS_OUT_P
HDMI_TX_LVDS_OUT_N
HDMI_TX0_C_P
HDMI_TX0_C_N
HDMI_TX1_C_P
HDMI_TX1_C_N
HDMI_TX2_C_P
HDMI_TX2_C_N
HDMI_TX_LVDS_OUT_C_P
HDMI_TX_LVDS_OUT_C_N
SN65DP159RGZ
VCC1
VCC2
VDD1
VDD2
VDD3
VDD4
VDD5
IN_D0P
IN_D0N
IN_D1P
IN_D1N
IN_D2P
IN_D2N
IN_CLKP
IN_CLKN
HPD_SRC
SCL_SRC
SDA_SRC
SCL_CTL
SDA_CTL
VSADJ
I2C_EN_PIN
PRE_SEL
EQ_SEL_A0
HDMI_SEL_B_A1
SLEW_CTL
OE
SWAP_POL
CEC_EN
TX_TERM_CTL
AUX_SRC_N
AUX_SRC_P
GND1
GND2
GND3
GND4
GND_TAB
U94
HDMI_TX_SRC_SCL
HDMI_TX_SRC_SDA
HDMI_CTL_SCL
HDMI_CTL_SDA
HDMI_TX_EN
R557
64.9K
1/10W
1%
R554
6.49K
R558
R559
64.9K
M24C64-W
SCL
SDA
WC_B
E0
E1
E2
VCC
VSS
TSSOP_8
U109
R645
R651
R652
10.0K
C589
R644
OUT_D0P
OUT_D0N
OUT_D1P
OUT_D1N
OUT_D2P
OUT_D2N
OUT_CLKP
OUT_CLKN
HPD_SNK
SCL_SNK
SDA_SNK
TX_TMDS_DAT0_P
TX_TMDS_DAT0_N
TX_TMDS_DAT1_P
TX_TMDS_DAT1_N
TX_TMDS_DAT2_P
TX_TMDS_DAT2_N
CLK_TX_TMDS_P
CLK_TX_TMDS_N
TX_HPD_SINK
R563
1/10W
HDMI_TX_SNK_SCL
HDMI_TX_SNK_SDA
U91
U71
U72
U73
TPD1E05U06DPYT
U82
U83
U89
U90
P7
1888811-1
TOP PORT
DDC_VCC5
TMDS_DATA0_P
TMDS_DATA0_N
TMDS_DATA1_P
TMDS_DATA1_N
TMDS_DATA2_P
TMDS_DATA2_N
TMDS_CLK_P
TMDS_CLK_N
HPD_HEC_DATA_P
RSVD_HEC_DATA_N
CEC
DDC_SCL
DDC_SDA
TMDS_SHLD0
TMDS_SHLD1
TMDS_SHLD2
TMDS_CLK_SHLD
GND
SHELL_GND1
SHELL_GND2
CEC_SOURCE
TX_VIDEO_GND
R881
C573
0.01UF
C576
C588
R919 R634
1.00K
1/16W
C520
C566
1UF
C557
VCC3V3
UTIL_5V0
HDMI_TX_CEC
HDMI_TX_HPD
HDMI_TX_LS_OE
HDMI_TX_CT_HPD
TPD12S016RKTR
VCCA
VCC5V
CEC_A
SCL_A
SDA_A
HPD_A
LS_OE
CT_HPD
D2_P
D2_N
D1_P
D1_N
D0_P
D0_N
CLK_P
CLK_N
5V_OUT
CEC_B
SCL_B
SDA_B
HPD_B
GND3
GND2
GND1
U70
PL HDMI TX
XILINX
TITLE: PL HDMI TX
SCHEM, ROHS COMPLIANT
HW-Z1-ZCU104_REV1_0
ASSY P/N: 0432057
PCB P/N: 1280961
SCH P/N: 0381794
TEST P/N: TSS0189
DATE: 01/26/2018:14:17
VER: 1.0
SHEET SIZE: B
REV: 01
SHEET 29 OF 58
DRAWN BY: BF



PL HDMI RX

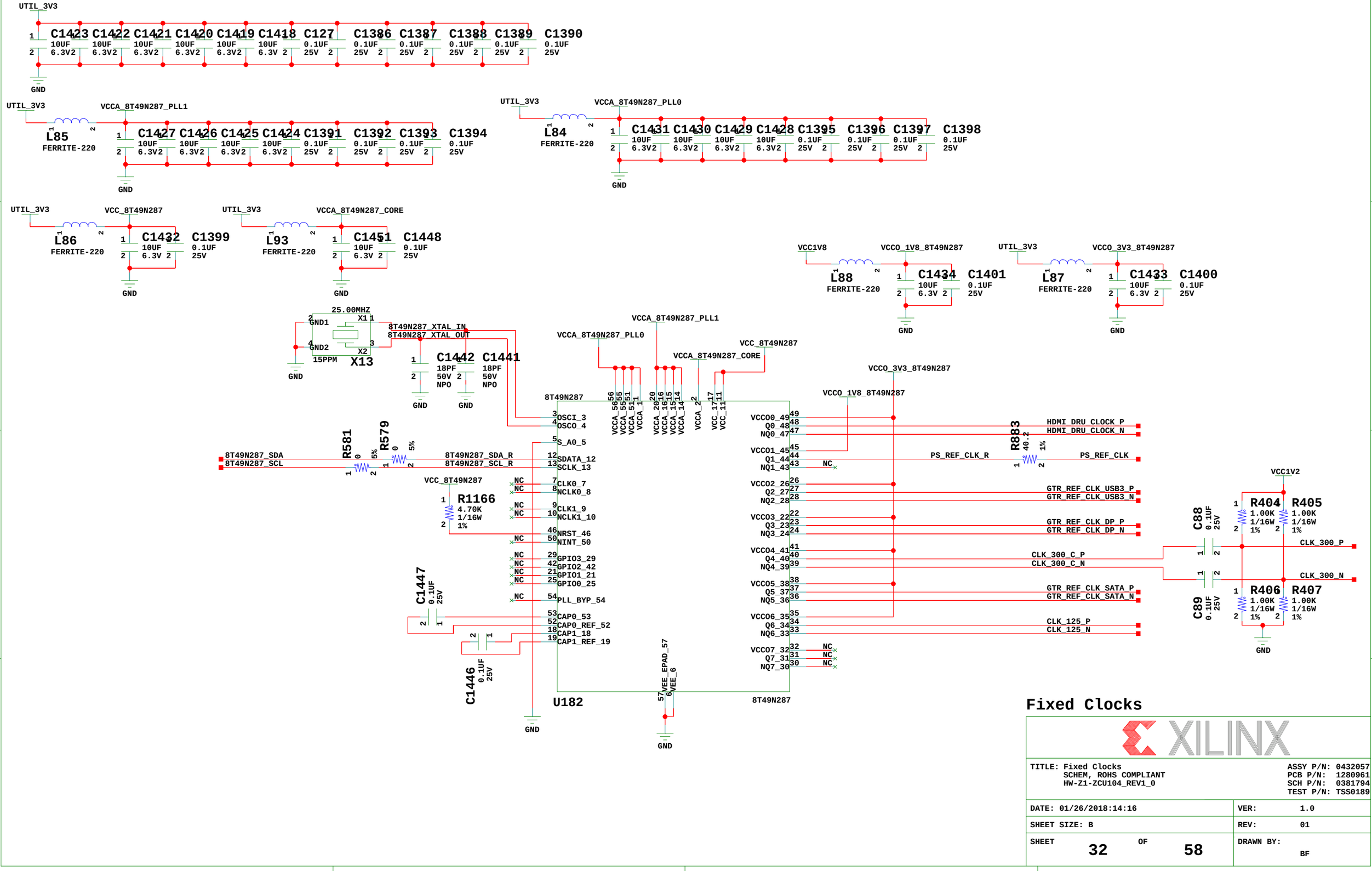
TITLE: PL HDMI RX SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:18	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 30 OF 58	DRAWN BY: BF



PL HDMI Clock Recovery

XILINX

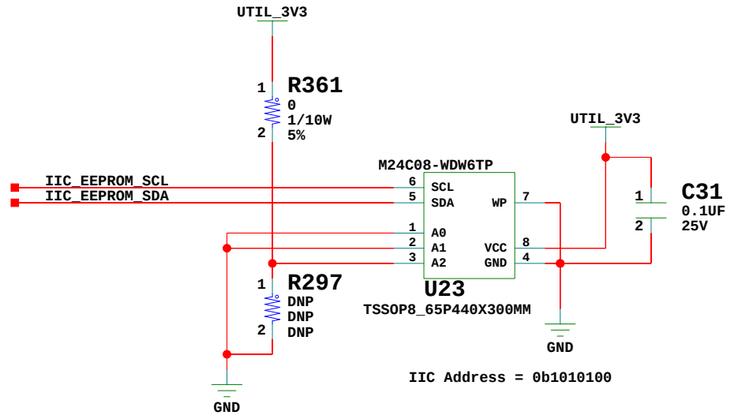
TITLE: PL HDMI Clock Recovery SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:21	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 31 OF 58	DRAWN BY: BF



Fixed Clocks

XILINX

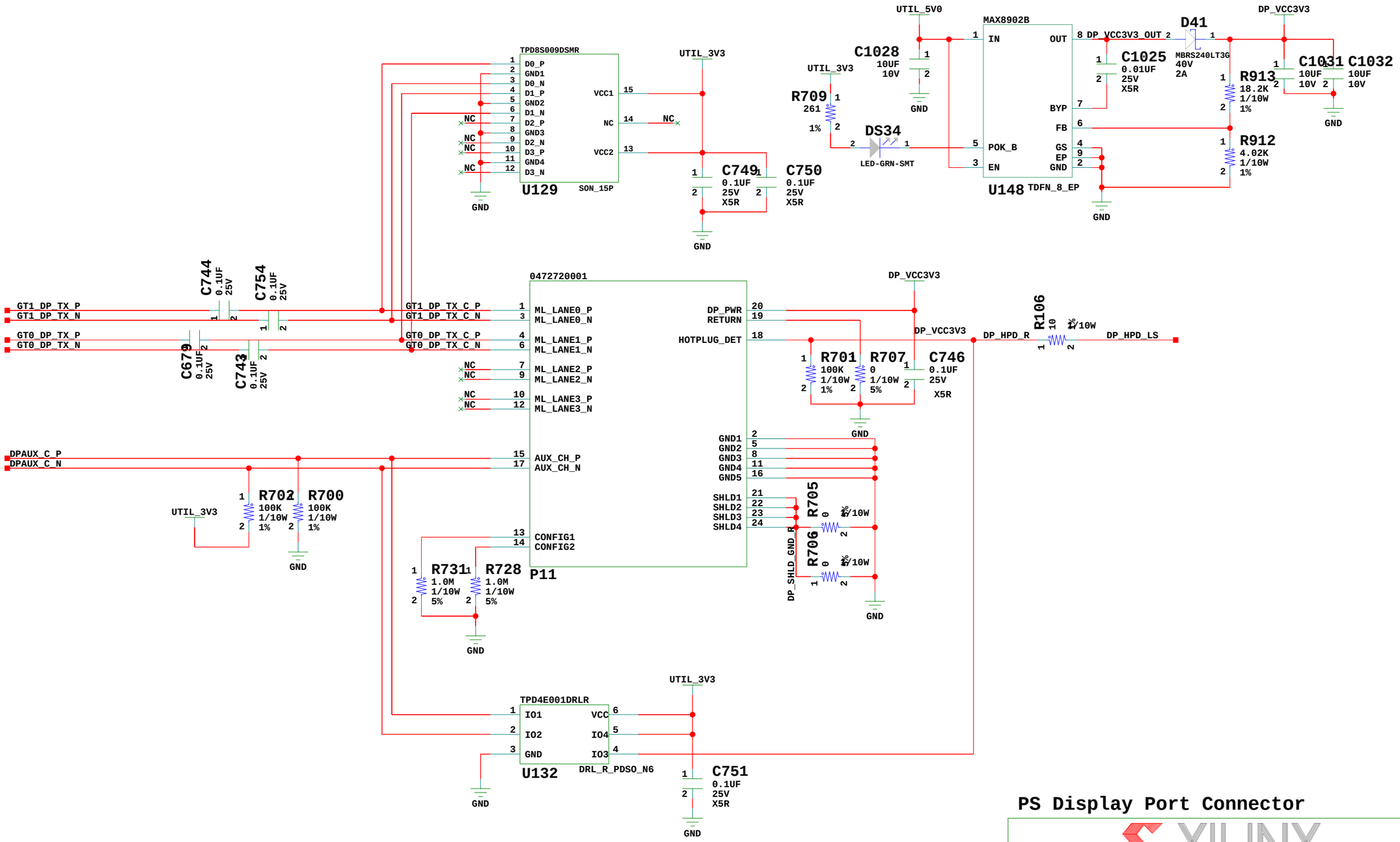
TITLE: Fixed Clocks SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 32 OF 58	DRAWN BY: BF



EEPROM

XILINX

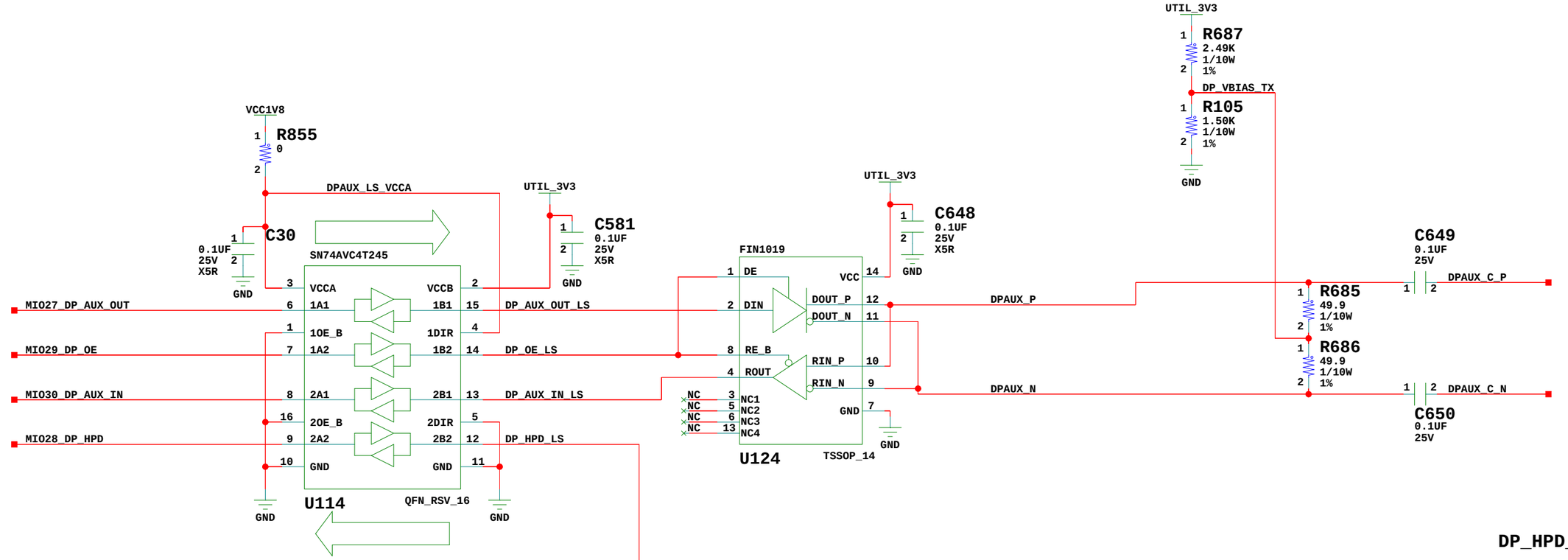
TITLE: EEPROM SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 33 OF 58	DRAWN BY: BF



PS Display Port Connector

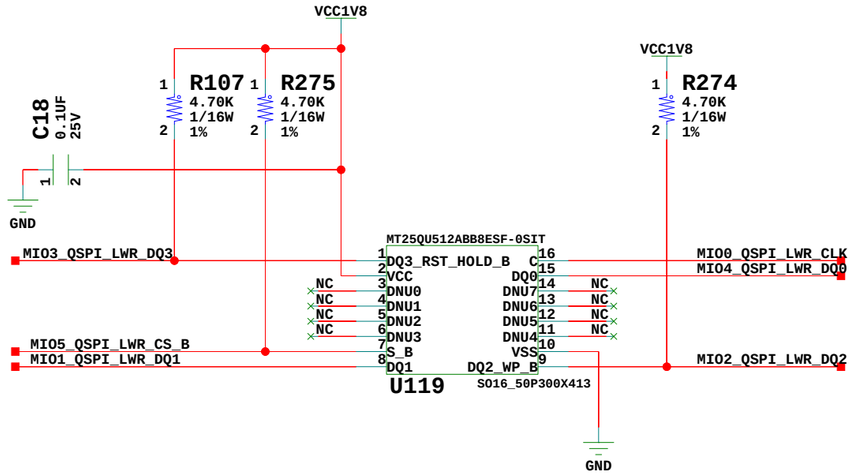
XILINX

TITLE: PS Display Port Connector SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 34 OF 58	DRAWN BY: BF



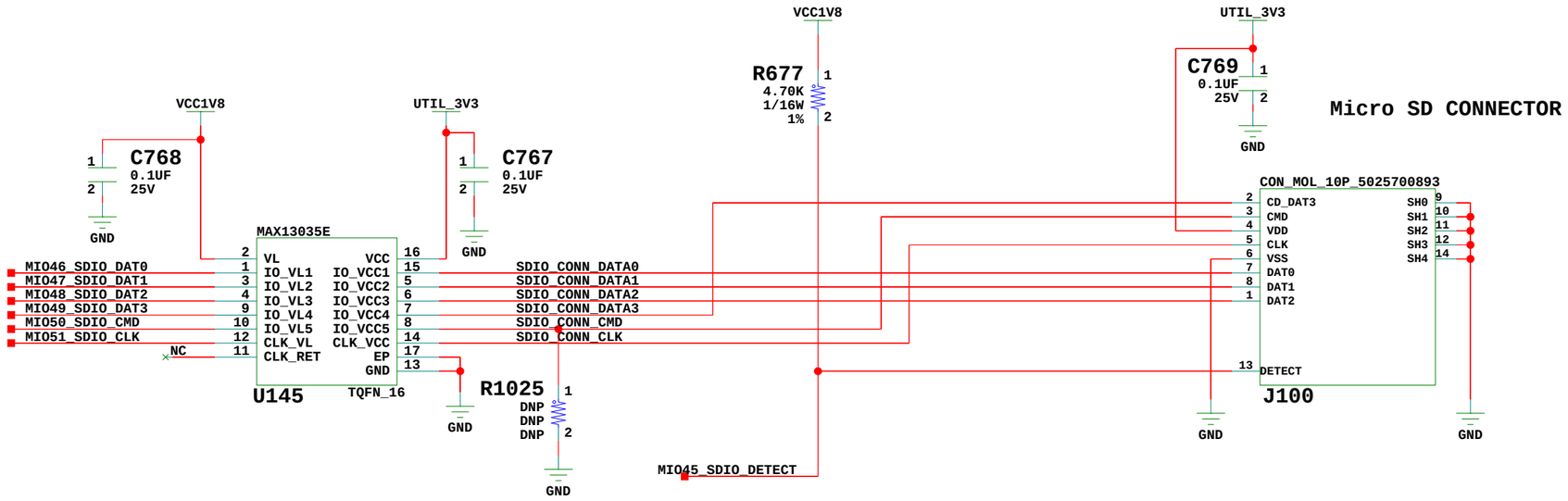
PS Display Port IO

TITLE: PS Display Port IO SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 35 OF 58	DRAWN BY: BF



PS QSPI

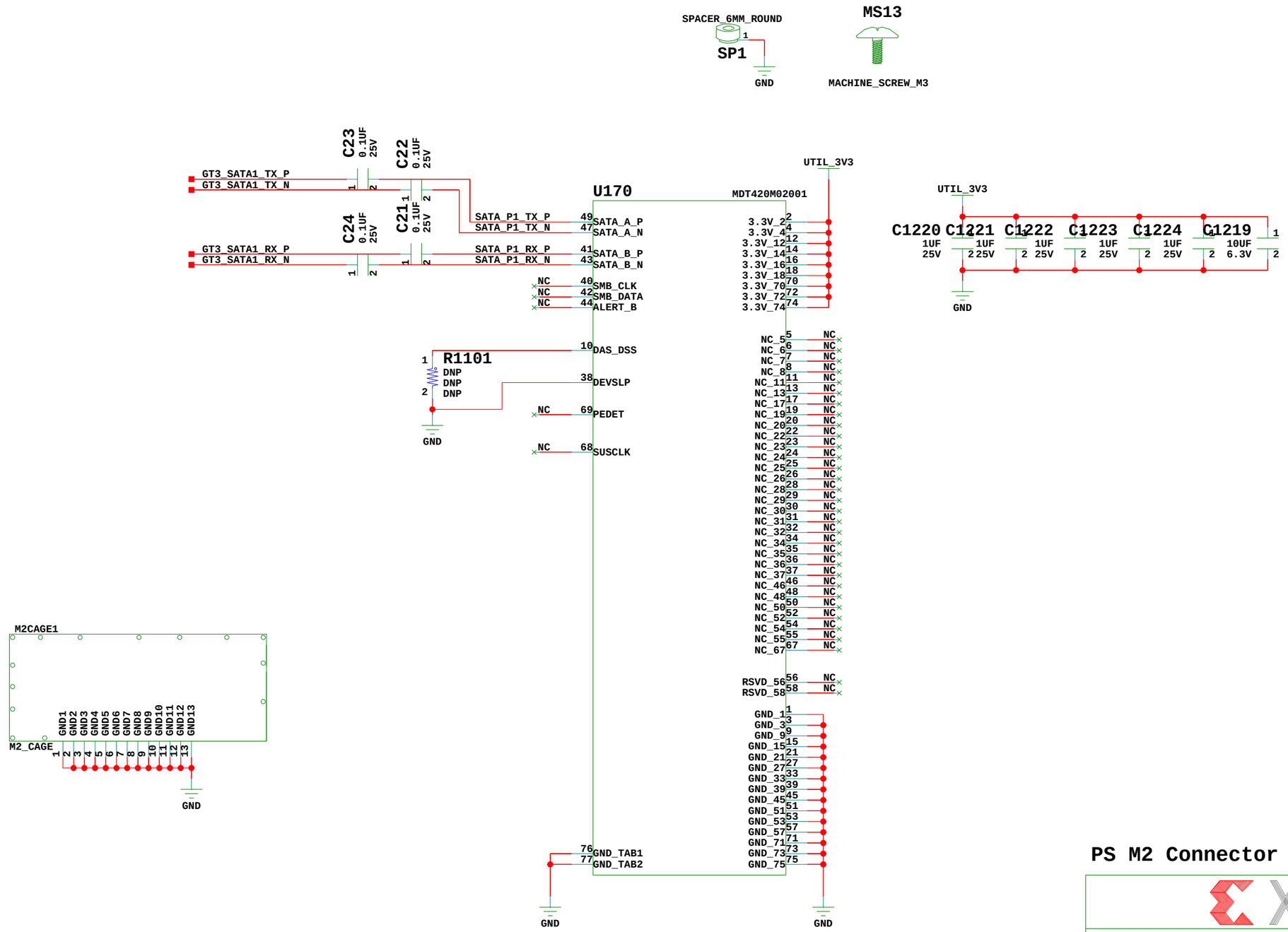
TITLE: PS QSPI SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 36 OF 58	DRAWN BY: BF



PS SD Card Connector

XILINX

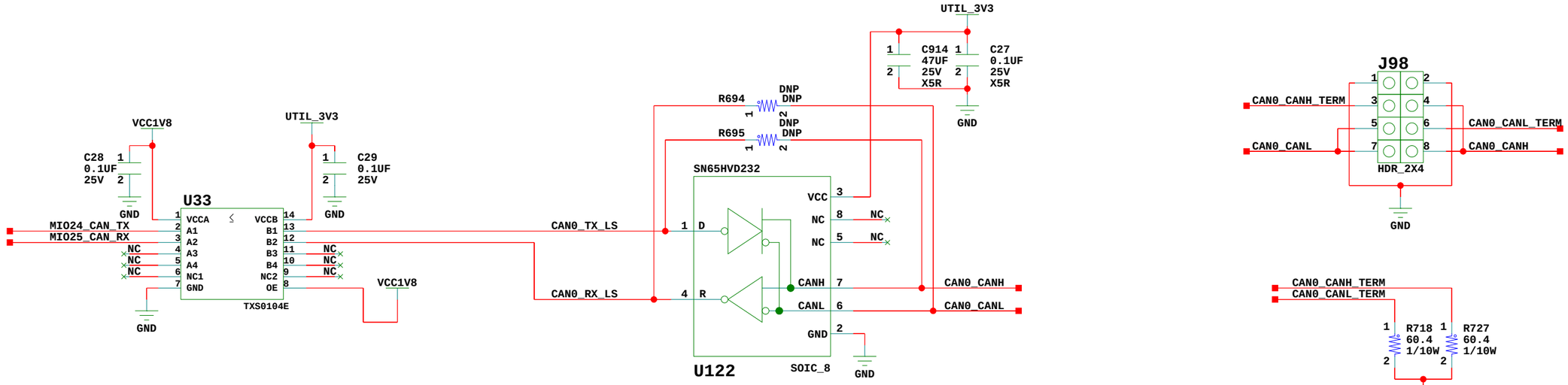
TITLE: PS SD Card Connector SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 37 OF 58	DRAWN BY: BF



PS M2 Connector

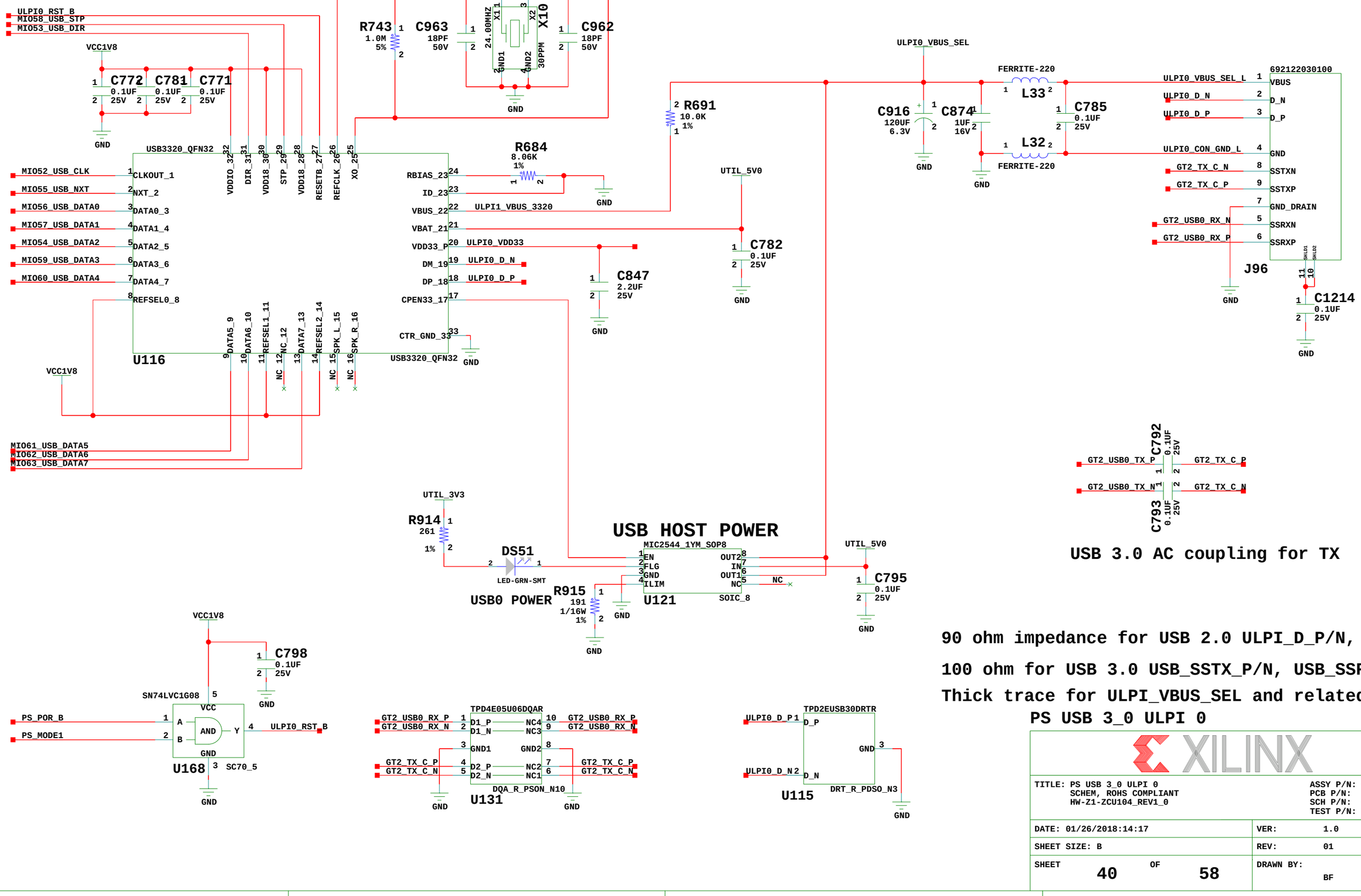
XILINX

TITLE: PS M2 Connector SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 38 OF 58	DRAWN BY: BF

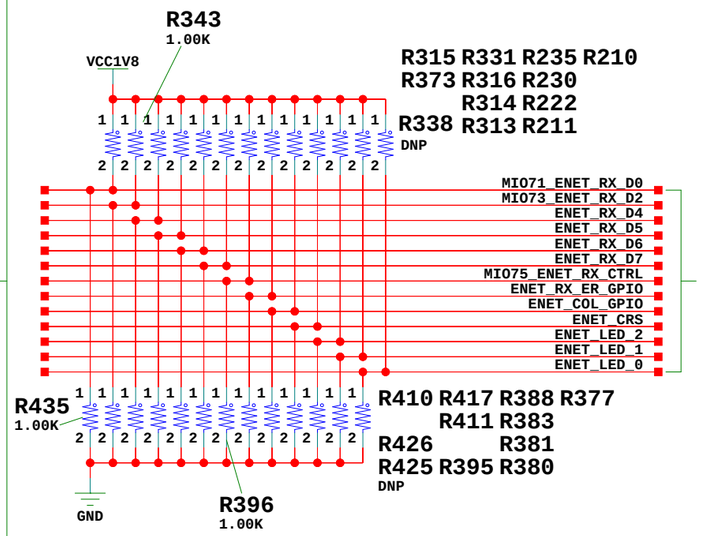


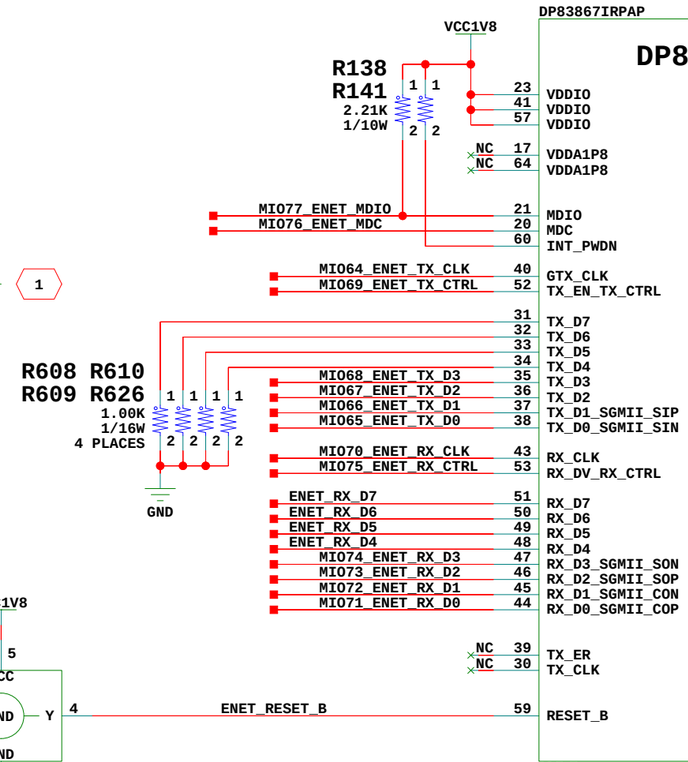
PS CAN Bus

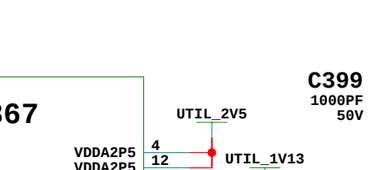
TITLE: PS CAN Bus SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 39 OF 58	DRAWN BY: BF

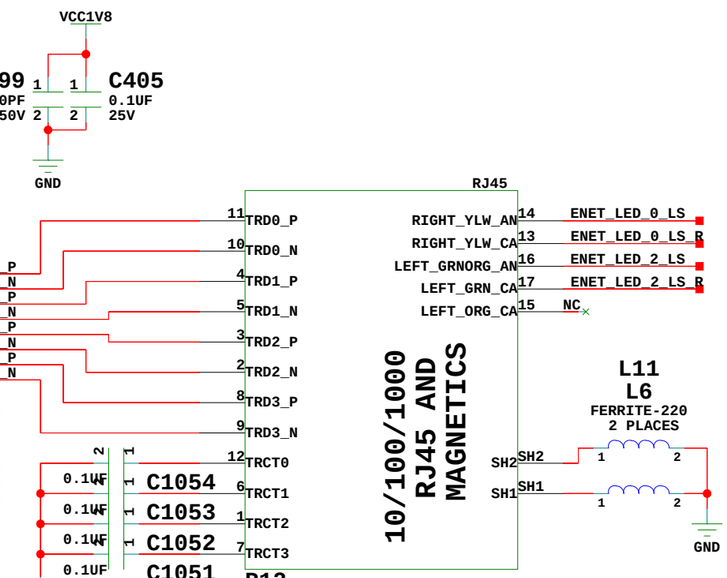


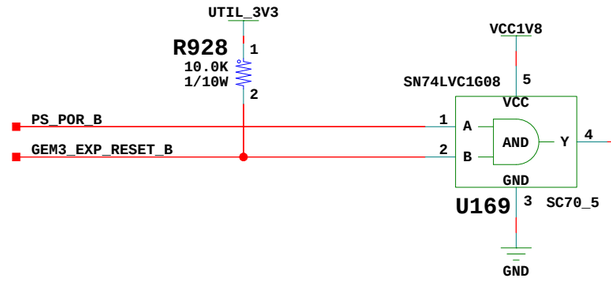
TITLE: PS USB 3_0 ULPI 0 SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 40 OF 58	DRAWN BY: BF

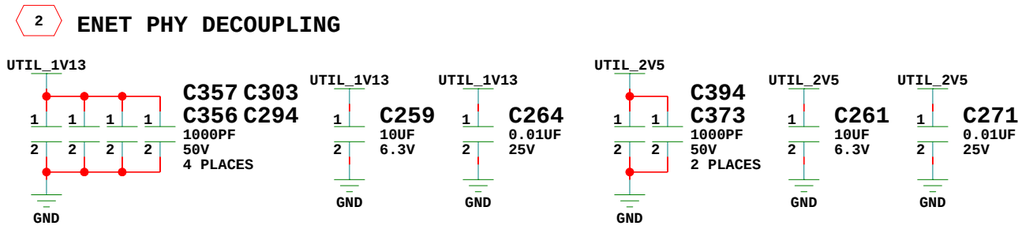


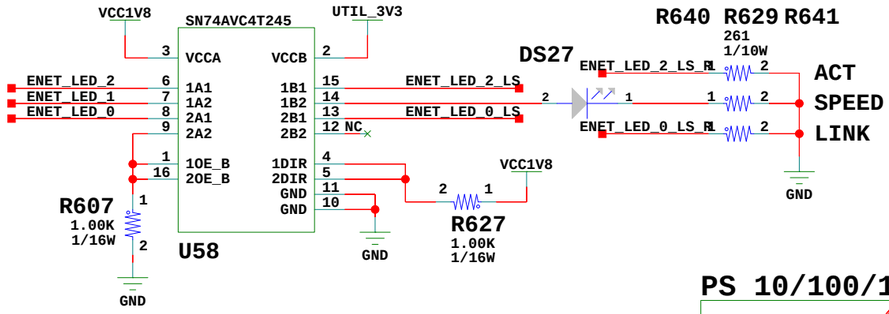


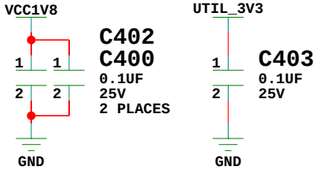












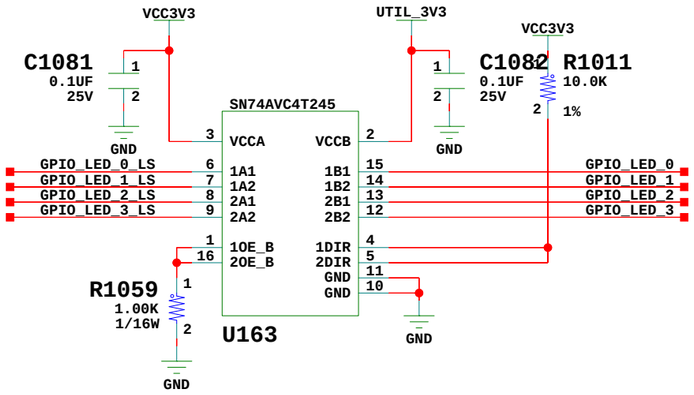
2 THESE CAPACITORS ARE PLACED AS CLOSE AS POSSIBLE TO THEIR RESPECTIVE PINS ON THE DP83867.

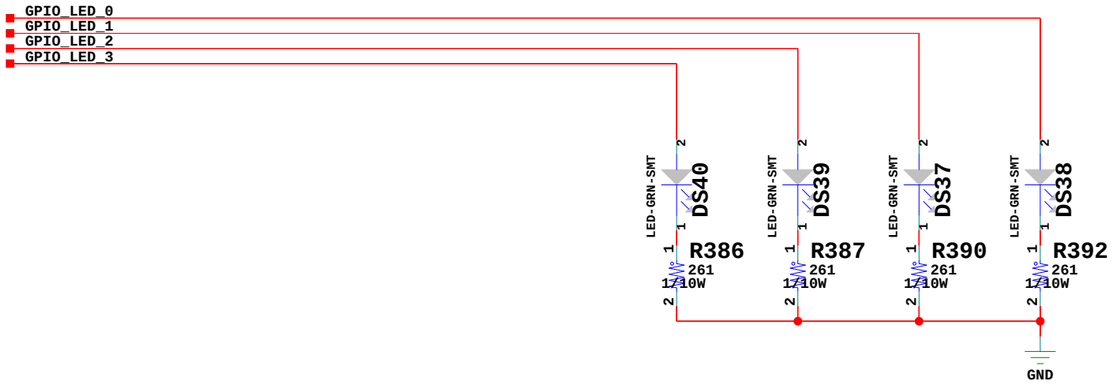
1 STRAP CONFIGURATION RESISTORS. SEE DP83867 DATASHEET FOR DETAILS.

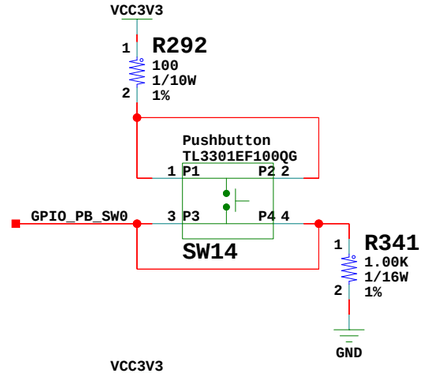
PS 10/100/1000 Ethernet PHY

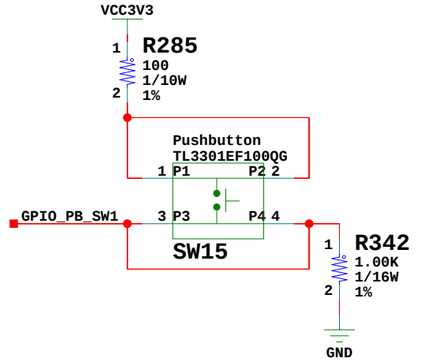
XILINX

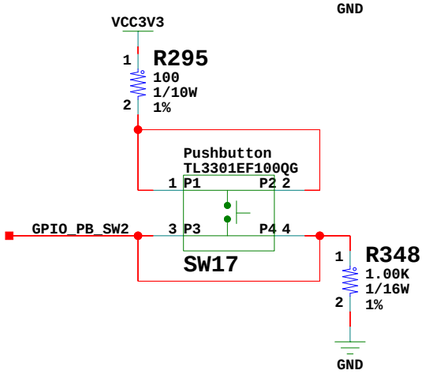
TITLE: PS 10/100/1000 Ethernet PHY SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 41 OF 58	DRAWN BY: BF

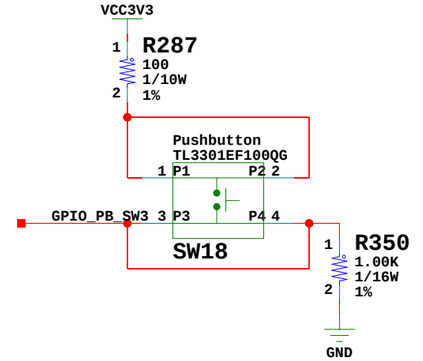


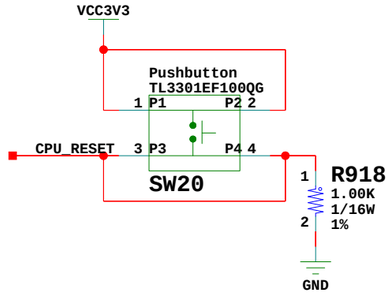








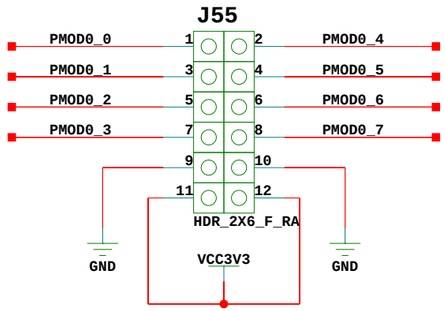


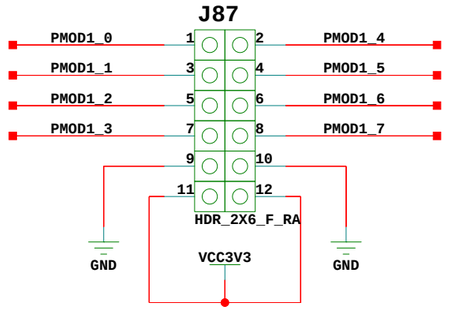


PL Buttons - Switches - LEDs

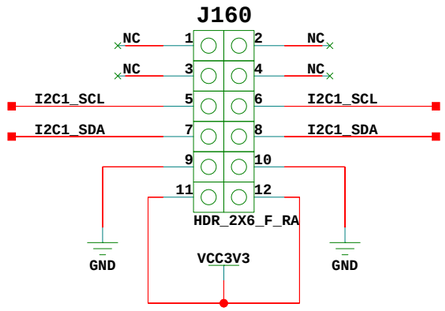
XILINX

TITLE: PL Buttons - Switches - LEDs SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 42 OF 58	DRAWN BY: BF





Connects I2C to R.A. Female 2x6 PMOD-style receptacle

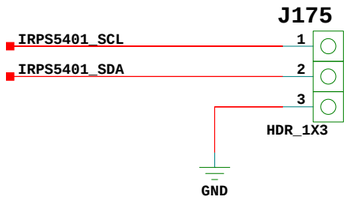


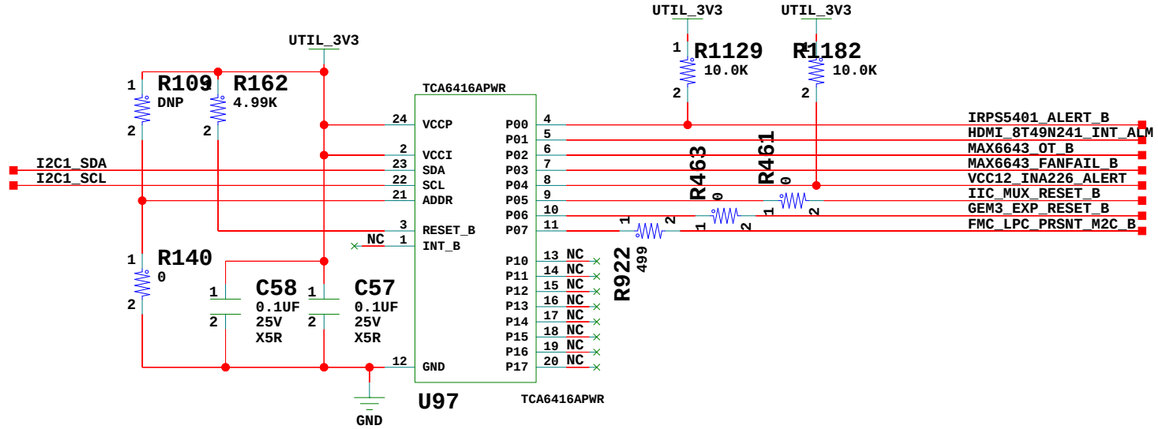
pins 5/6 duplicated
pins 7/8 duplicated

PL PMODs

XILINX

TITLE: PL PMODs SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 43 OF 58	DRAWN BY: BF

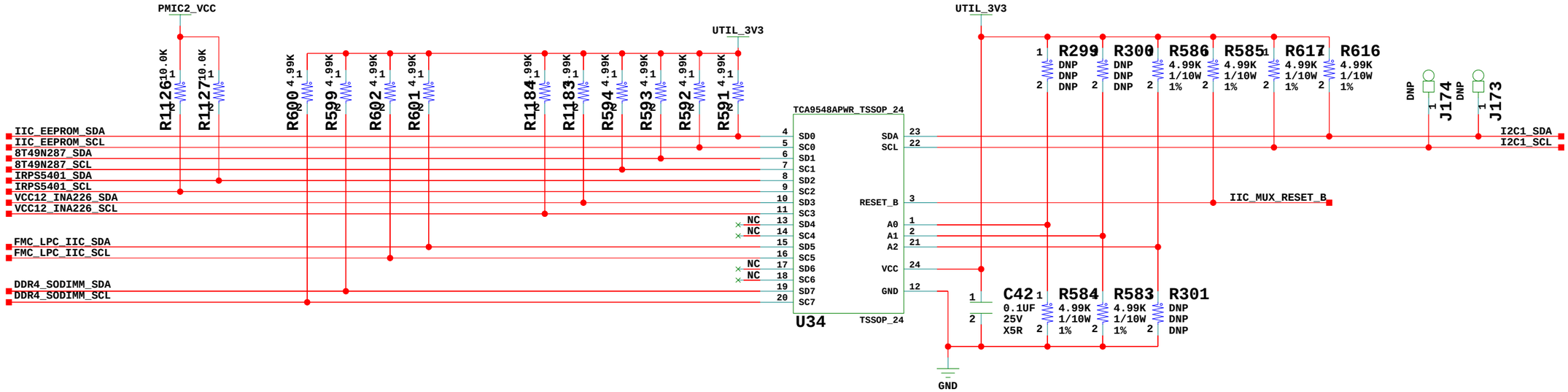




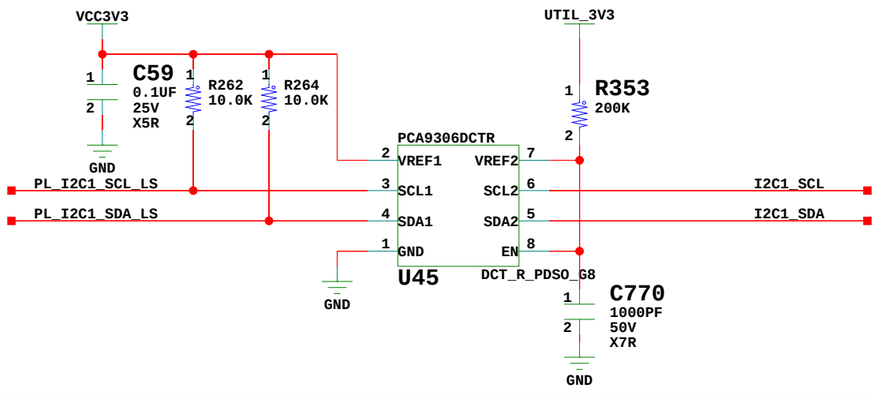
IO Expander PMBUS Header

XILINX

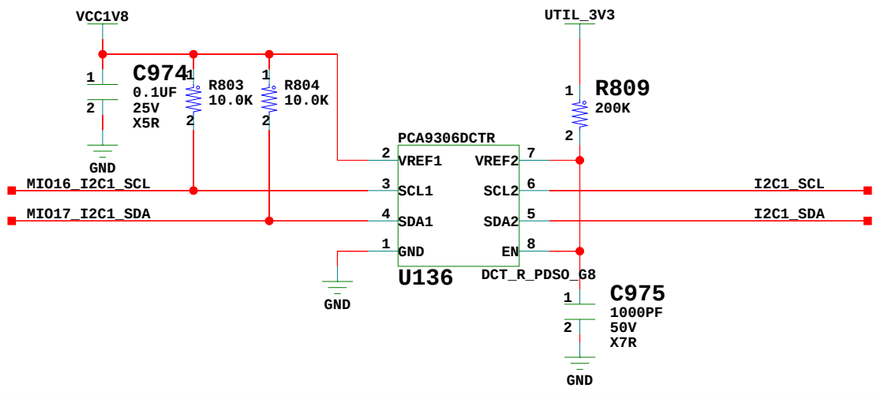
TITLE: IO Expander PMBUS Header SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 44 OF 58	DRAWN BY: BF



PL I2C Level Shifter (disabled if VREF1 is off)



PS I2C Level Shifter (I2C1)



I2C1 MUX and Level Shifters

TITLE: I2C1 MUX and Level Shifters SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 45 OF 58	DRAWN BY: BF

6-PIN MINI-FIT AC ADAPTER (BRICK)

J52: 12V 1, 12V 4, COM 2, 12V 5, COM 3, COM 6 → INPUT_GND

VCC12_P → R448 2.00K → SW1 ON/OFF (MASTER_SW_12V) → INPUT_GND

VCC12_P → C382 10UF 25V X5R → Q7 SI7157DP (R269 10.0K 1/10W) → C657 1UF 16V → VCC12_R

R412 1.00K 1/16W → Q4 BSS138 360MW → INPUT_GND

C533 1UF 25V X5R → U25 (X5R PSG, CB, CG1, CG2, CG3, 50MOHM) → INPUT_GND / GND

VCC12_R → 0.005 R1178 (I1 I1 / I2 I2, V1 V1 / V2 V2, 2W 1%) → VCC12_SW

VCC12_SW → J28 DNP; C922 330UF 25V ELEC → GND

VCC12_SW → DS2 MASTER POWER (LED-GRN-SMT) → R268 2.00K 1/16W 1% → GND

VCC12_SW_VIN_R_P / VCC12_SW_VIN_R_N

UTIL_3V3 → C1463 0.1UF 25V → GND

R1176 10 / R1177 10

INA226 (U183, DGS_MSOP_10): VCC12_INA226_SCL, VCC12_INA226_SDA, VCC12_INA226_ALERT; VS_P, VBUS ← VCC12_SW; VIN_N ← VCC12_SW_VIN_N; VIN_P ← VCC12_SW_VIN_P; A1, A0 → GND; GND

C1464 0.1UF 25V

I2C ADDR 0x40

J29, J30, J31, J32, J33, J34 DNP → GND

GND Test points

UTIL_3V3 → C278 0.1UF 25V → GND

MAX6643 (U128, QSOP16_MAX_E16_1): TACHSET, TH1, TH2, TL1, TL2, DXP1, GND; VDD, OT1, OT2, OT_B, FANFAIL_B, FULLSPEED, PWM_OUT, FAN_IN1, FAN_IN2

R958 R957 R956 R955 4.70K 1/16W 1%

R962 R961 R960 R959 DNP

SYSMON_DXP / SYSMON_DXN → C279 2200PF 50V X7R → Z5 → GND

R236 R278 R717 4.70K 1/16W 1%

R964 R963 DNP

R966 R965 DNP

MAX6643_OT_B, MAX6643_FANFAIL_B, FAN_PWM, FAN_TACH_12V

FAN_NEG → Q23 SI2300DS 1.7W → GND

Fan Controller

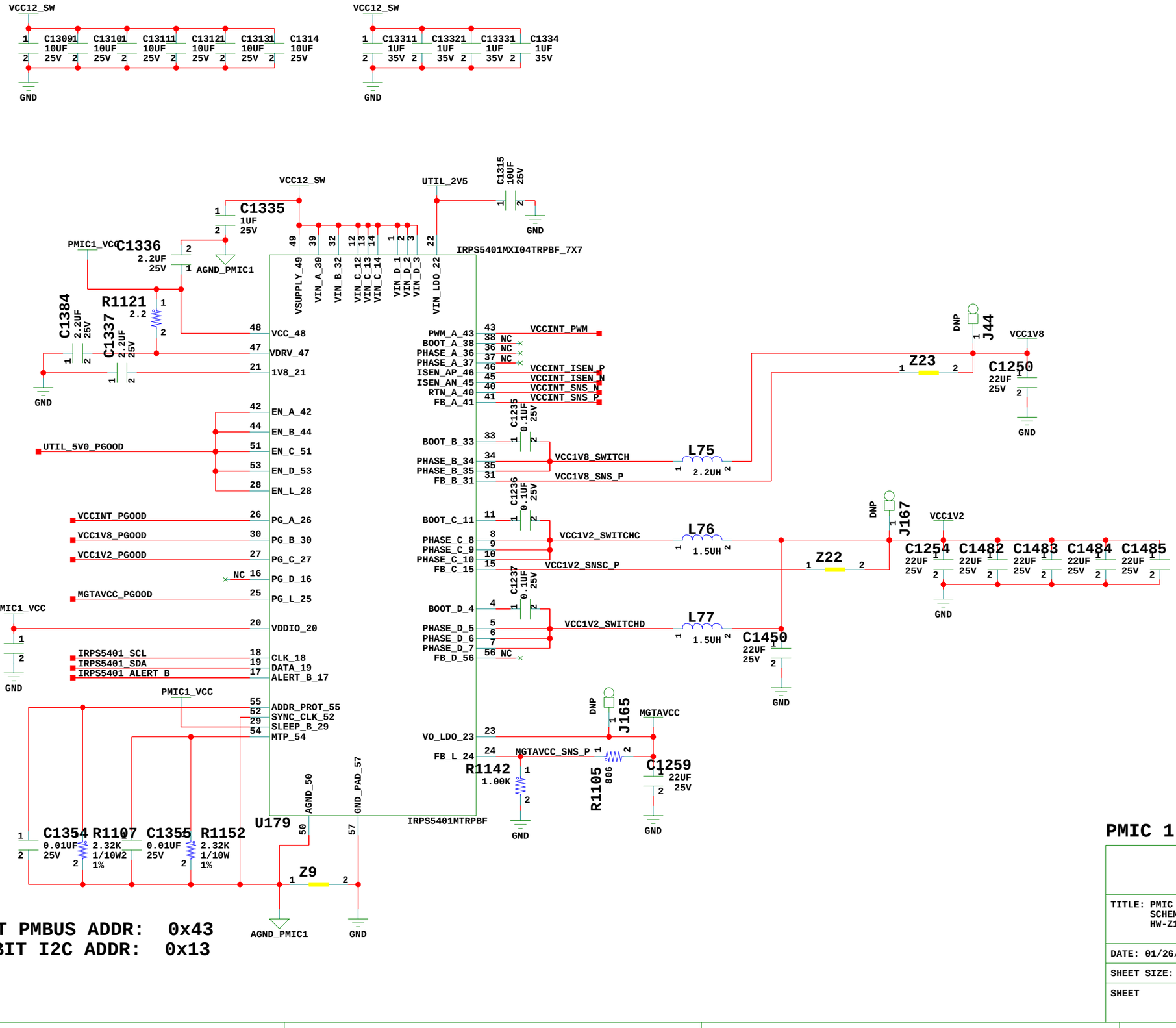
Keyed Fan Header

VCC12_SW → 22_11_2032 J71 (FAN_NEG, FAN_TACH_12V) → R970 4.70K 1/16W 1%

12V Power Connectors Switch

XILINX

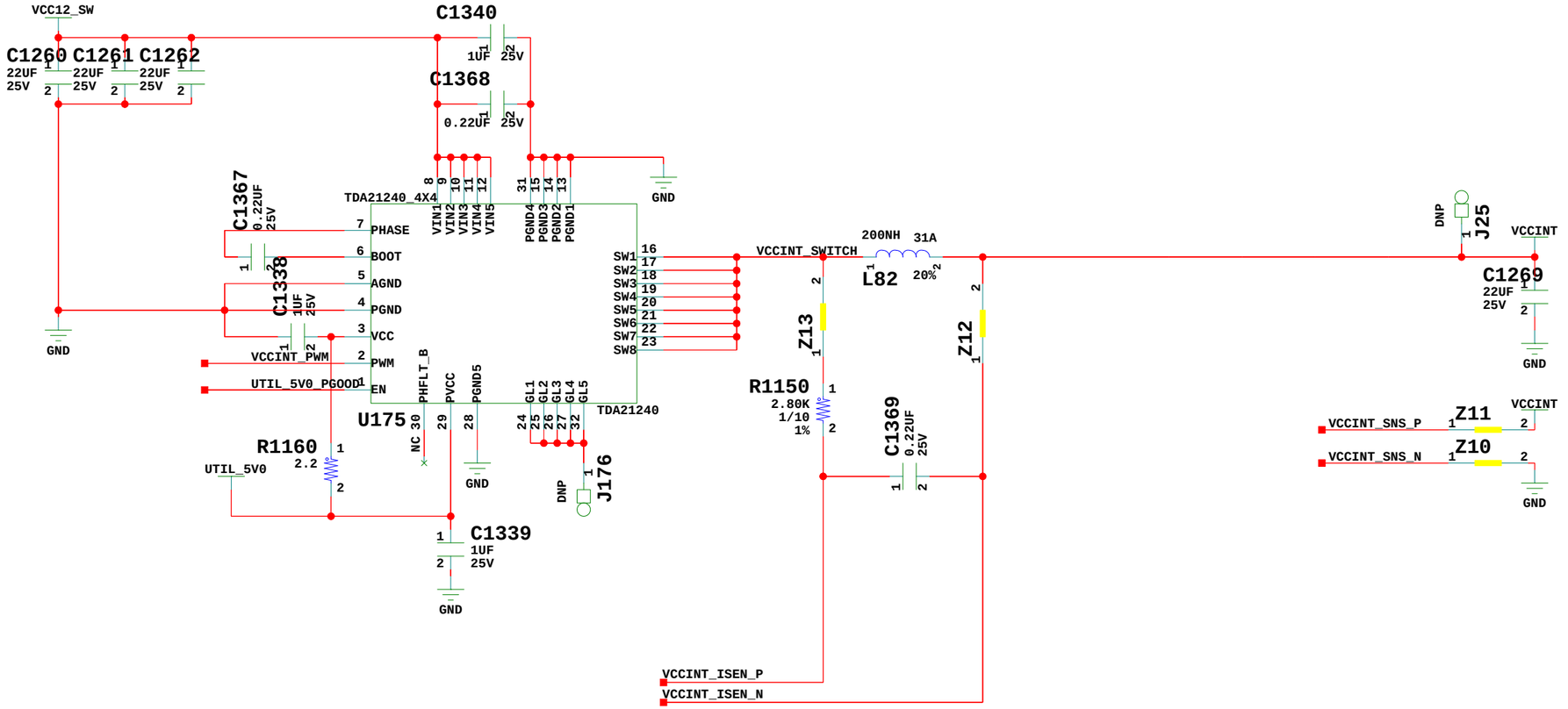
TITLE: 12V Power Connectors Switch SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 46 OF 58	DRAWN BY: BF



PMIC 1

XILINX

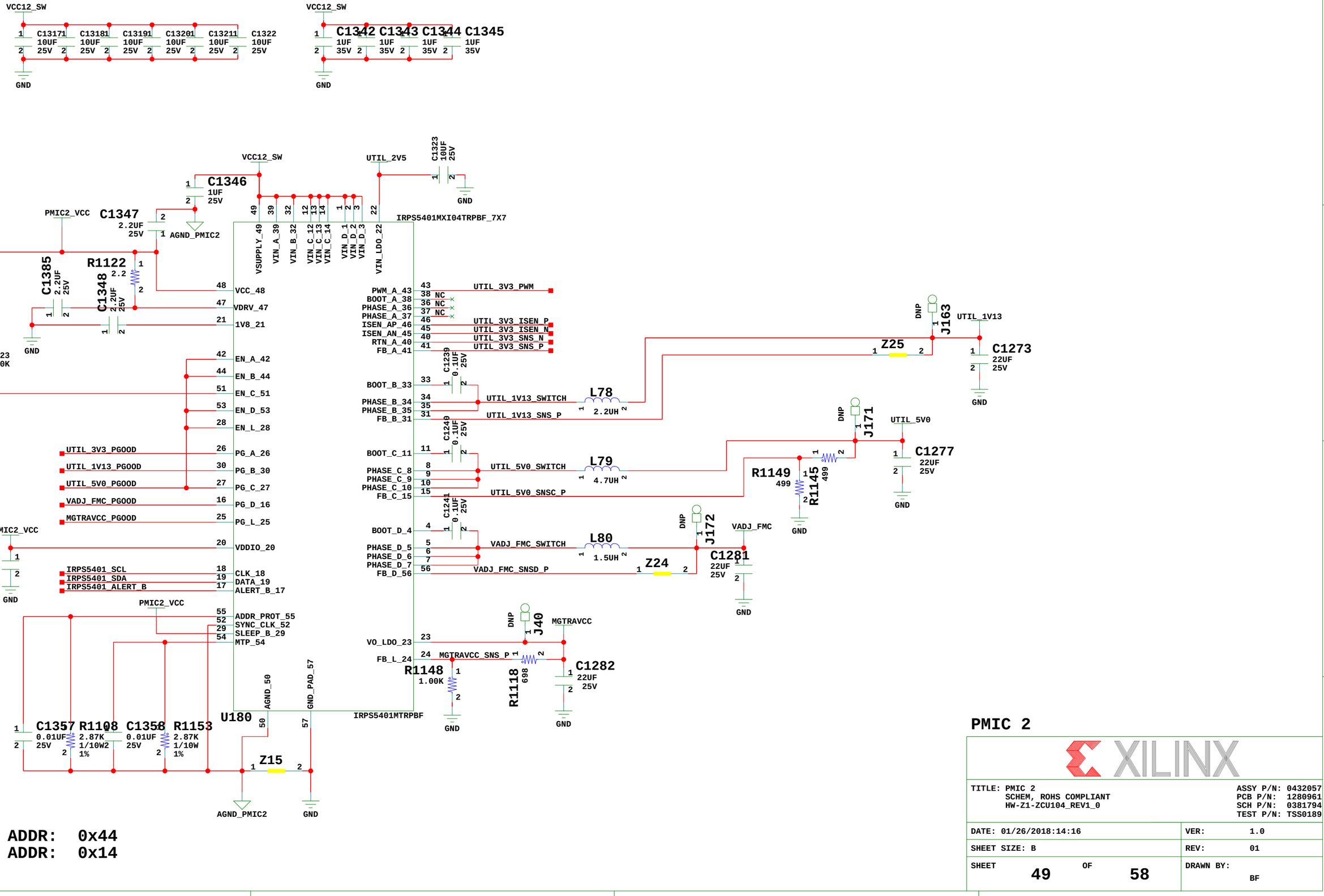
TITLE: PMIC 1 SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:19	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 47 OF 58	DRAWN BY: BF



PMIC 1 Power Stage

XILINX

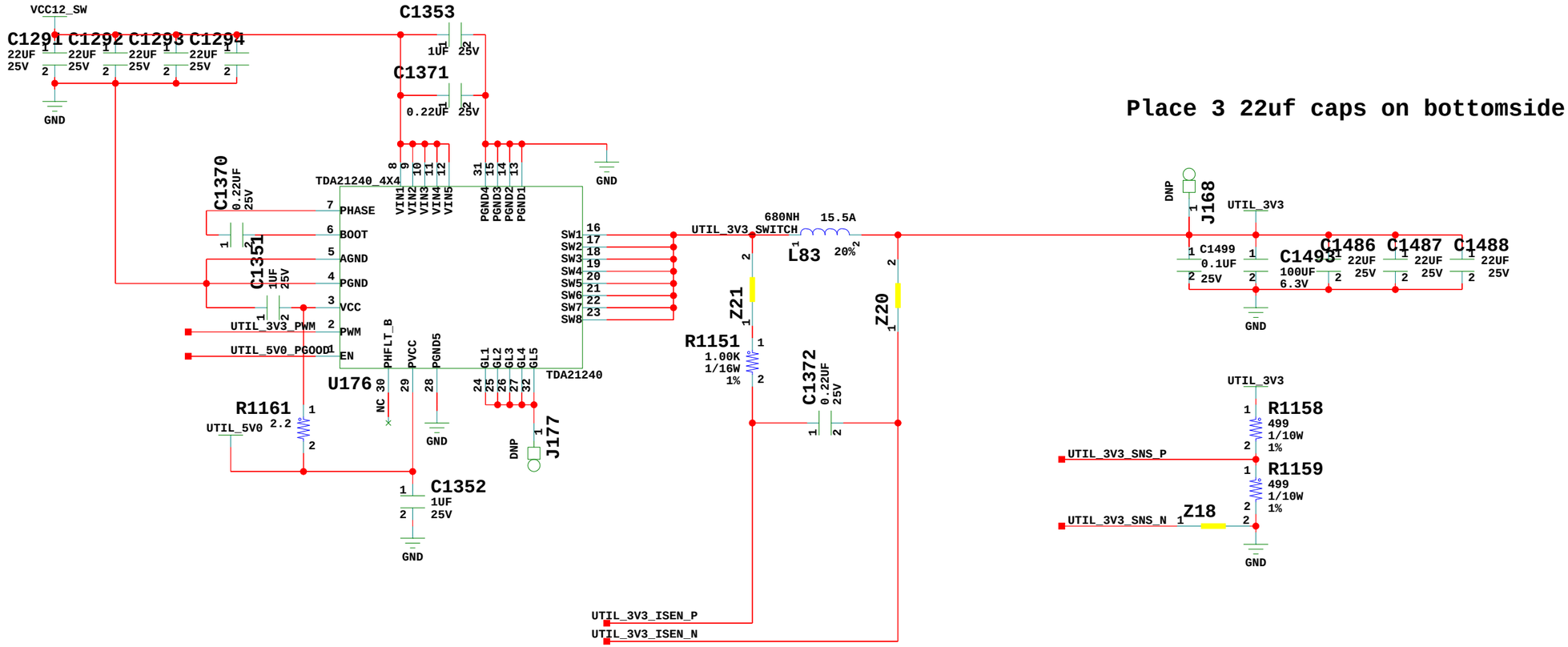
TITLE: PMIC 1 Power Stage SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 48 OF 58	DRAWN BY: BF



PMIC 2

XILINX

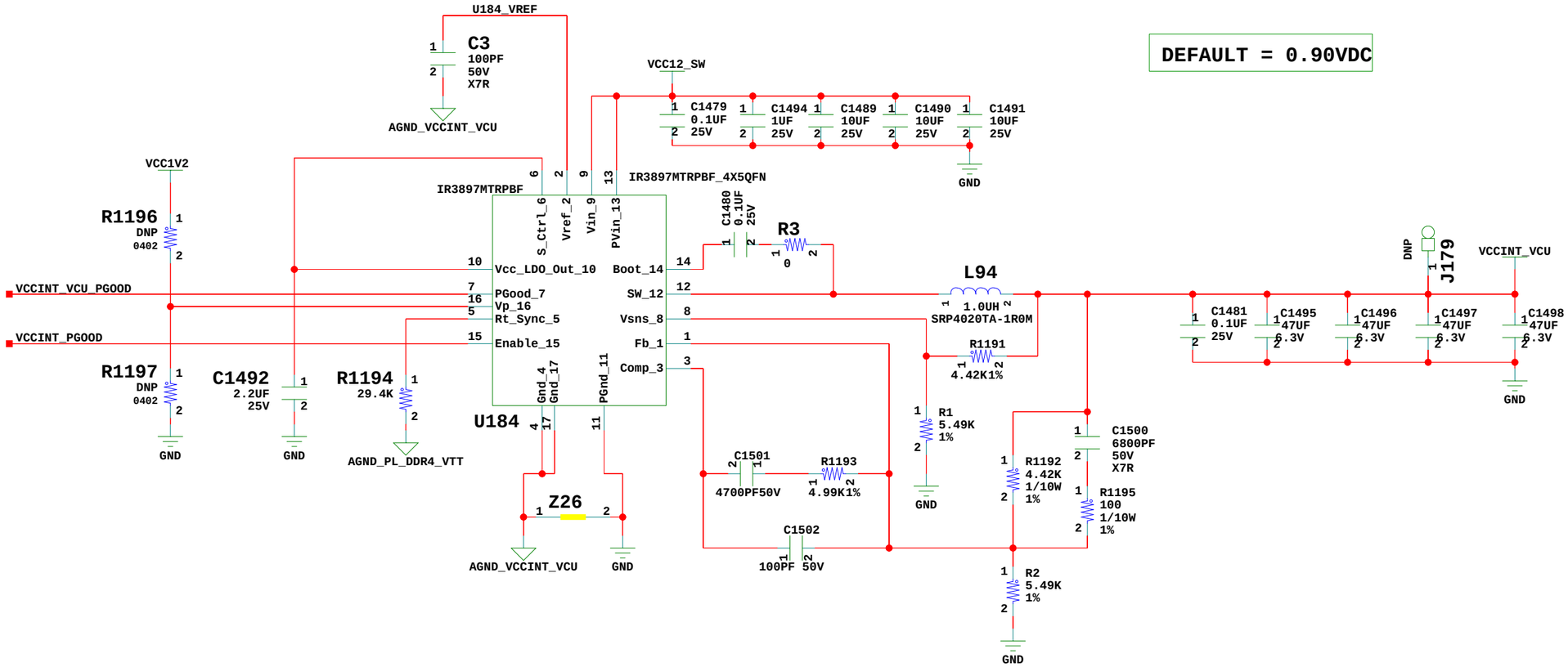
TITLE: PMIC 2 SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 49 OF 58	DRAWN BY: BF



PMIC 2 Power Stage

XILINX

TITLE: PMIC 2 Power Stage SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 50 OF 58	DRAWN BY: BF



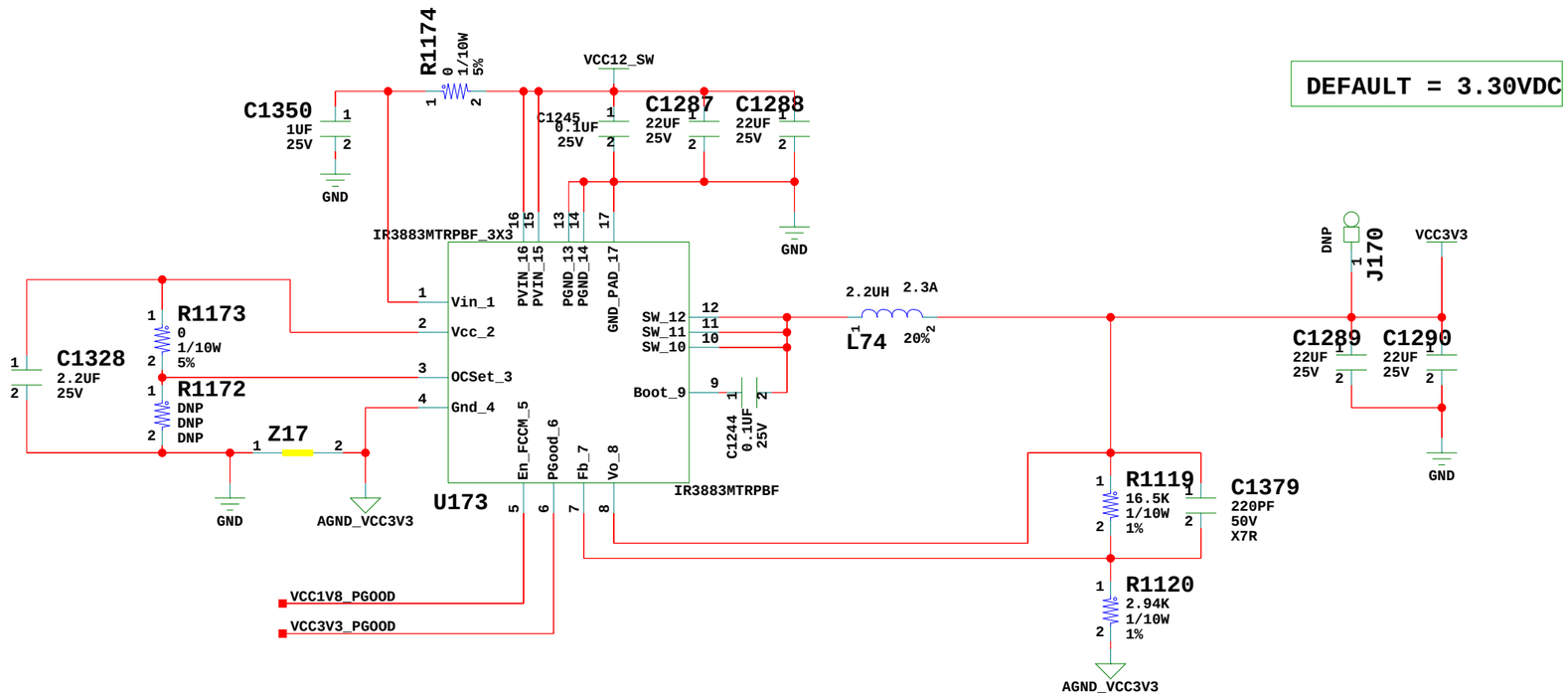
These VALUES need to change for 0.9V
and voltage sense line needs to be identified

DN update 8-11-17 per Rick L

VCCINT_VCU 3A Regulator

XILINX

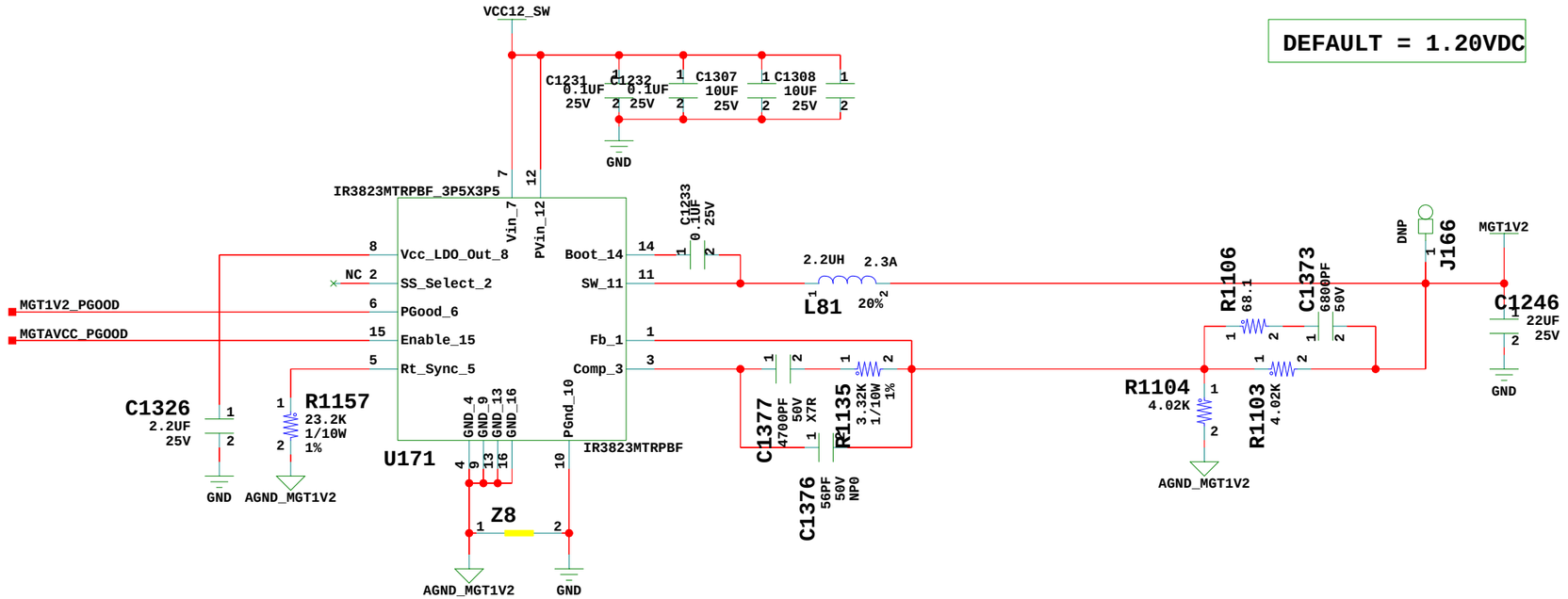
TITLE: VCCINT_VCU 3A Regulator SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 51 OF 58	DRAWN BY: BF



VCC3V3 500mA Regulator

XILINX

TITLE: VCC3V3 500mA Regulator SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 52 OF 58	DRAWN BY: BF

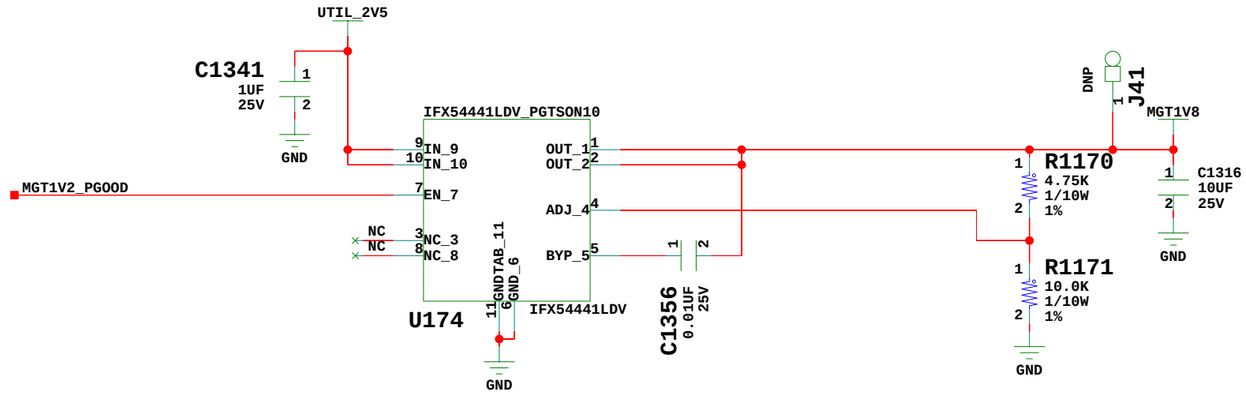


MGT1V2 1A Regulator

XILINX

TITLE: MGT1V2 1A Regulator SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 53 OF 58	DRAWN BY: BF

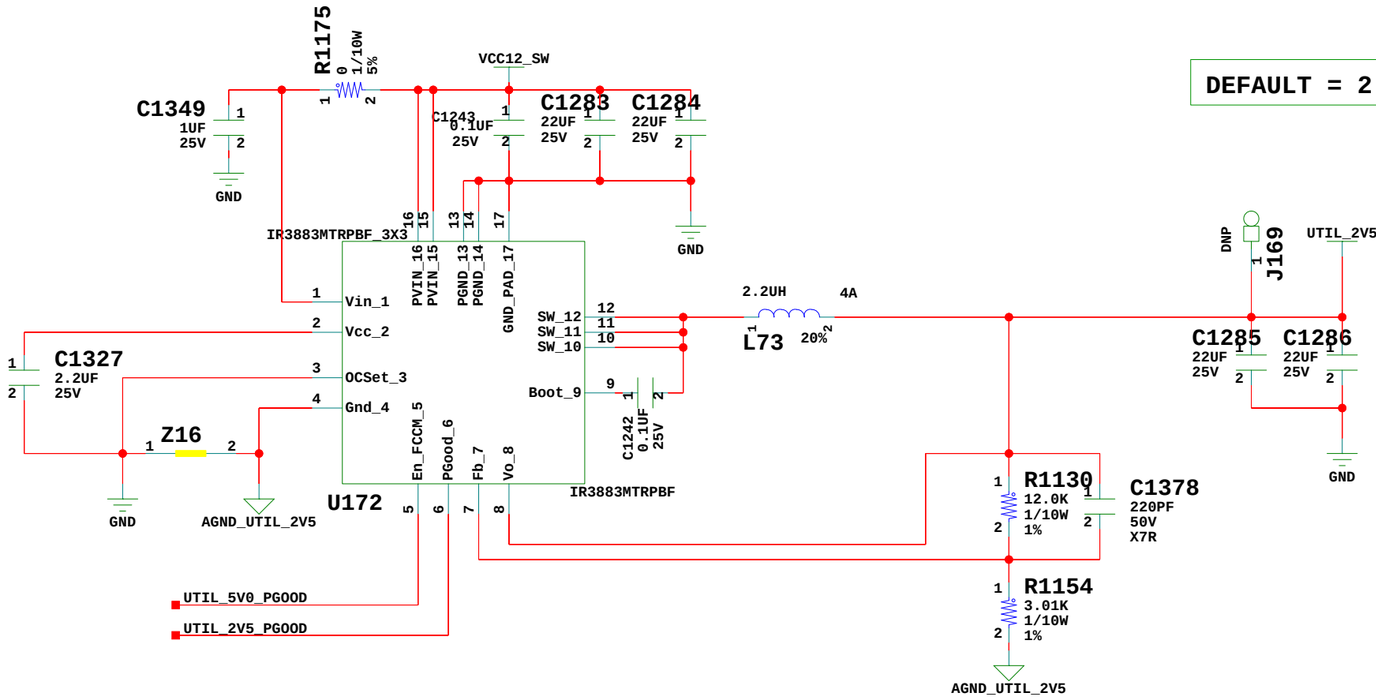
DEFAULT = 1.81VDC



MGT1V8 100mA Regulator

XILINX

TITLE: MGT1V8 100mA Regulator SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 54 OF 58	DRAWN BY: BF

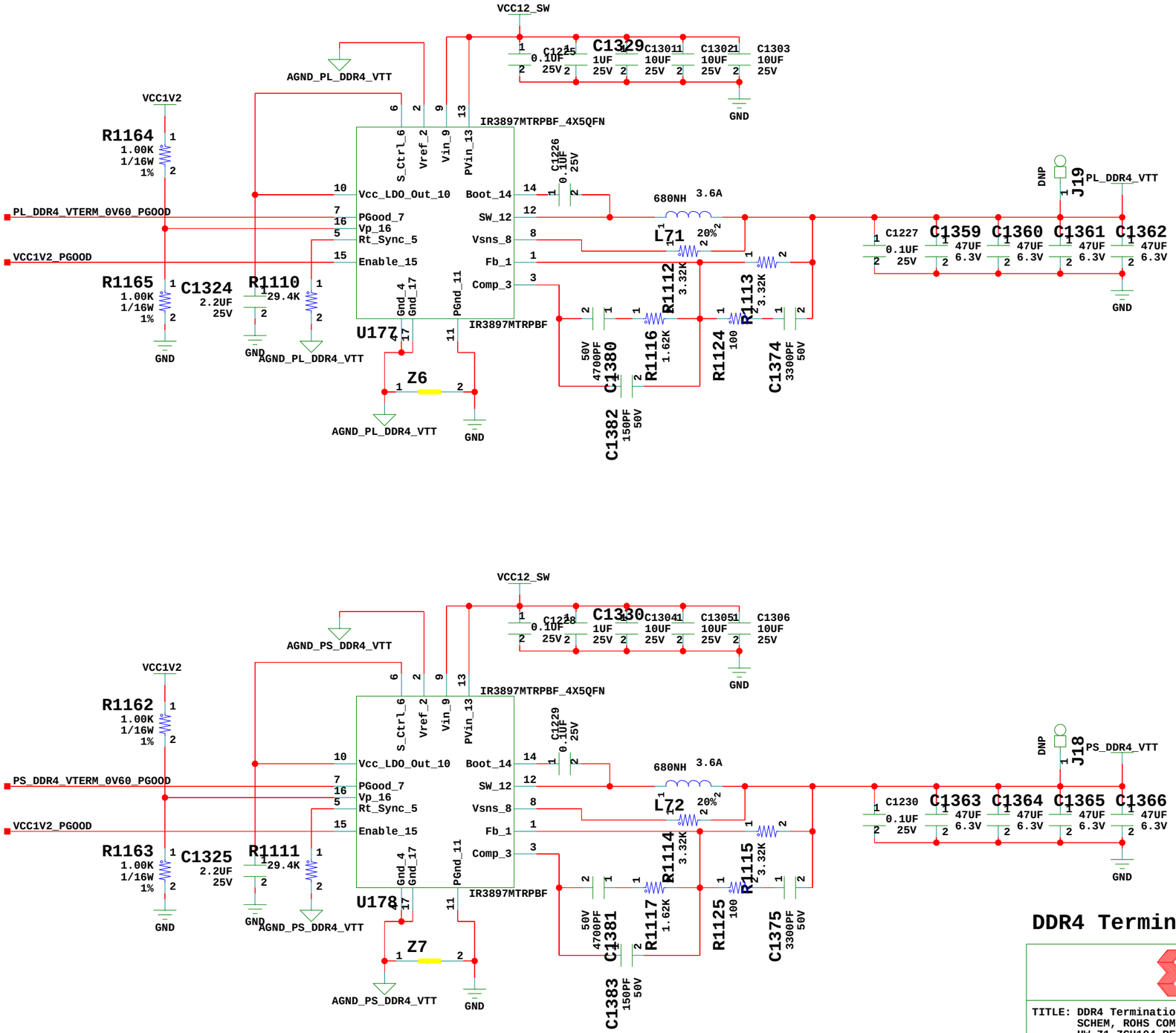


DEFAULT = 2.50VDC

UTIL_2V5 2A Regulator

XILINX

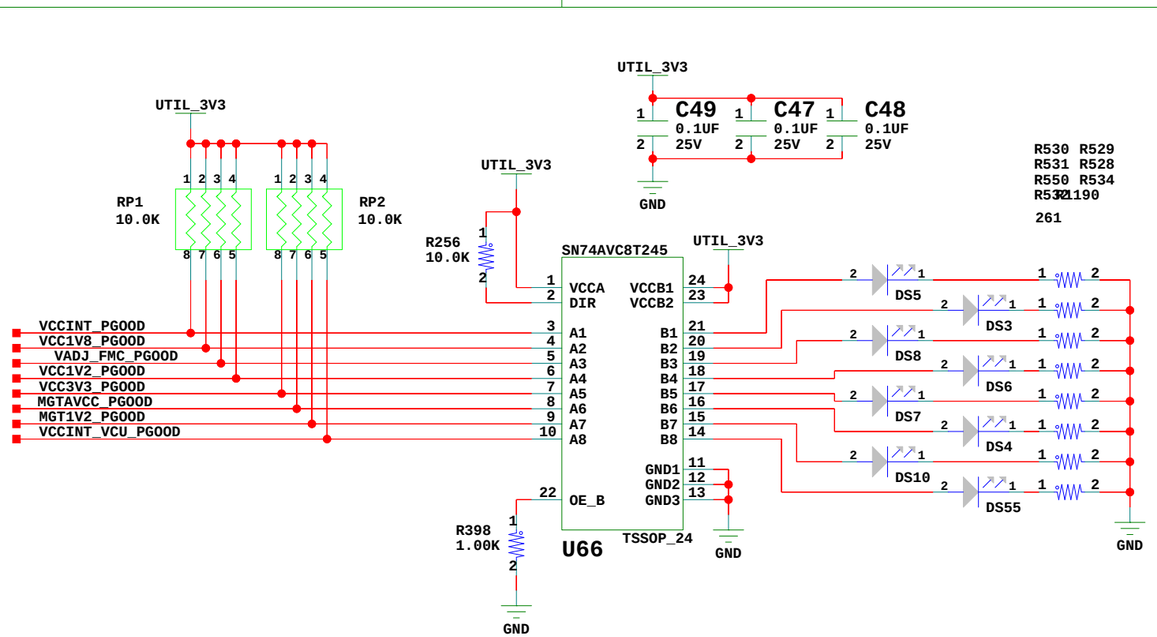
TITLE: UTIL_2V5 2A Regulator SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:17	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 55 OF 58	DRAWN BY: BF

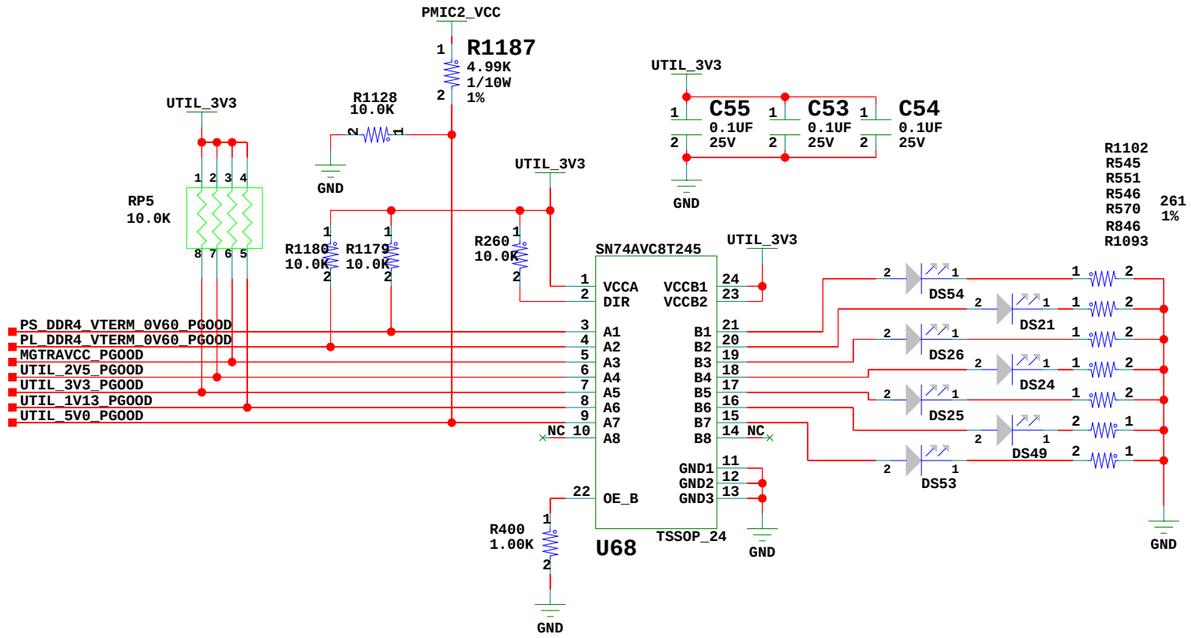


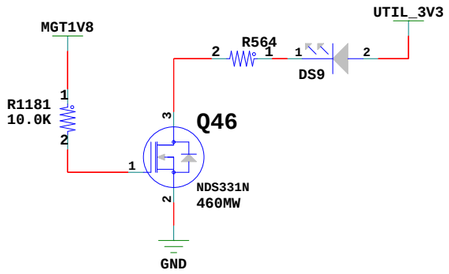
DDR4 Termination Supplies

XILINX

TITLE: DDR4 Termination Supplies SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:21	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 56 OF 58	DRAWN BY: BF



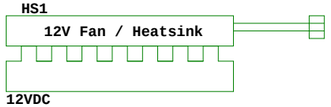




Power Status LEDs

TITLE: Power Status LEDs SCHEM, ROHS COMPLIANT HW-Z1-ZCU104_REV1_0	ASSY P/N: 0432057 PCB P/N: 1280961 SCH P/N: 0381794 TEST P/N: TSS0189
DATE: 01/26/2018:14:16	VER: 1.0
SHEET SIZE: B	REV: 01
SHEET 57 OF 58	DRAWN BY: BF

HS1



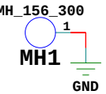
MS01 MW1 MRB1

STANDOFF_0P500 WASHER_FLAT_4 RUBBER_BUMPER

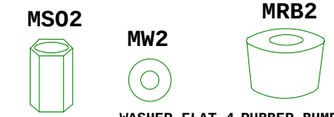
MS1 MS2

MACHINE_SCREW_4-40 #4-40 MACHINE SCREW 0.25" MACHINE_SCREW_4-40 #4-40 MACHINE SCREW 0.25"

MH_156_300 MH1 GND



MS02 MW2 MRB2



STANDOFF_0P500 WASHER_FLAT_4 RUBBER_BUMPER

MS3 MS4

MACHINE_SCREW_4-40 #4-40 MACHINE SCREW 0.25" MACHINE_SCREW_4-40 #4-40 MACHINE SCREW 0.25"

MH_156_300 MH2 GND

MS03 MW3 MRB3

STANDOFF_0P500 WASHER_FLAT_4 RUBBER_BUMPER

MS5 MS6

MACHINE_SCREW_4-40 #4-40 MACHINE SCREW 0.25" MACHINE_SCREW_4-40 #4-40 MACHINE SCREW 0.25"

MH_156_300 MH3 GND

CBL1

Power Cord

MS04 MW4 MRB4

STANDOFF_0P500 WASHER_FLAT_4 RUBBER_BUMPER

MS7 MS8

MACHINE_SCREW_4-40 #4-40 MACHINE SCREW 3/16" MACHINE_SCREW_4-40 #4-40 MACHINE SCREW 0.25"

MH_156_300 MH4 GND

PB1

PWR_BRICK_12V

CBL2

USB Micro-B Cable

USB_MICRO_CABLE

MJB1 MJB2 MJB3 MJB4 MJB5 MJB6 MJB7 MJB8

JUMPER_BLOCK_2-PIN JUMPER_BLOCK_2-PIN JUMPER_BLOCK_2-PIN JUMPER_BLOCK_2-PIN JUMPER_BLOCK_2-PIN JUMPER_BLOCK_2-PIN JUMPER_BLOCK_2-PIN JUMPER_BLOCK_2-PIN

Mechanical Components

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DATE: 01/26/2018:14:16	VER: 1.0
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SHEET 58 OF 58	DRAWN BY: BF