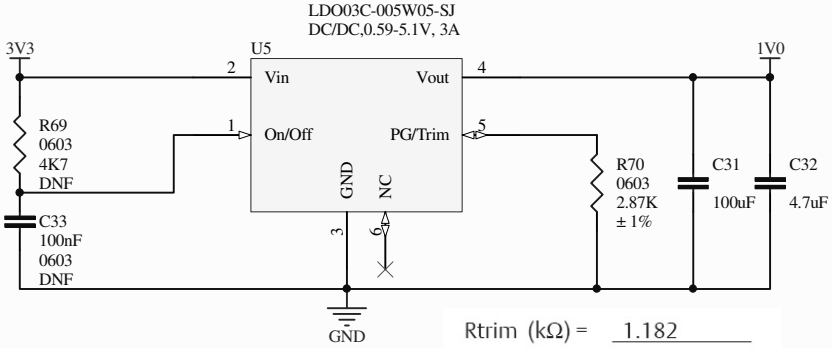
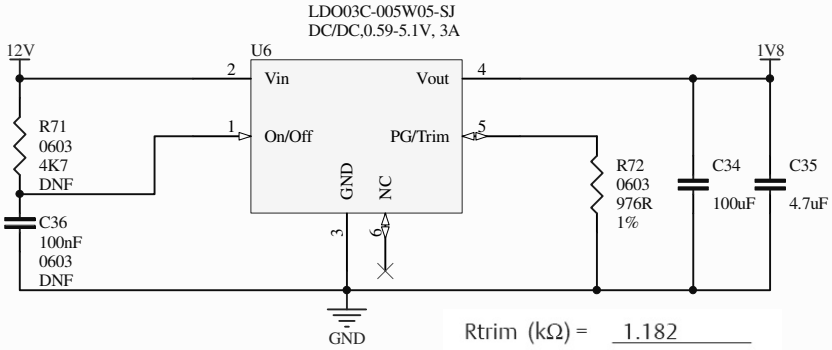
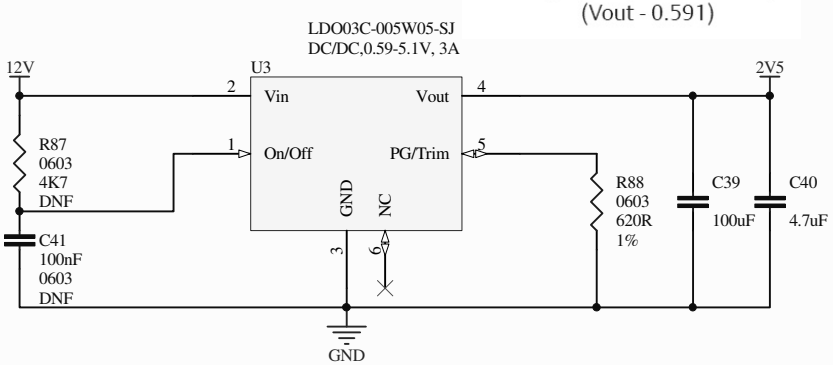
PSUs and Config Prom

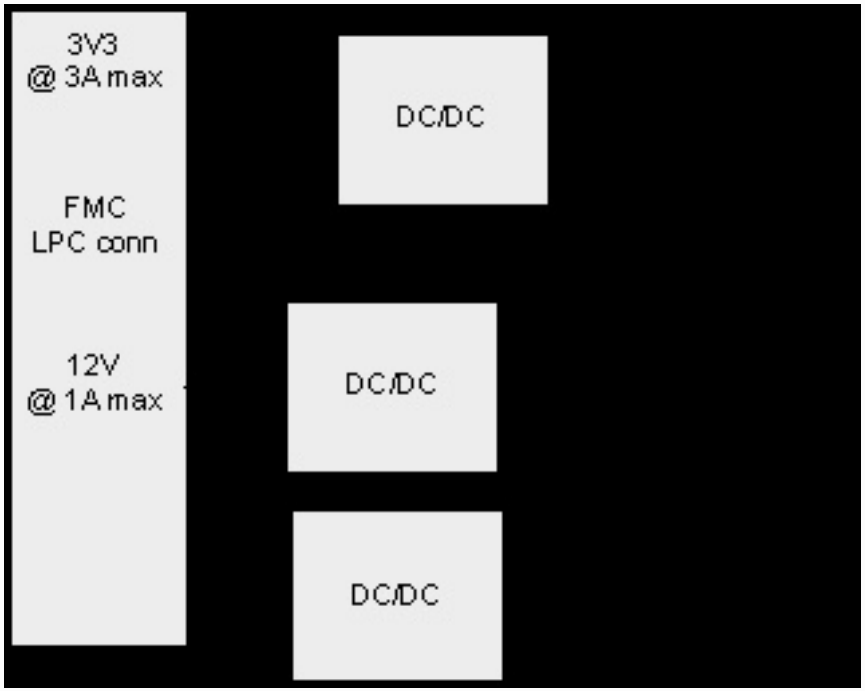


Rtrim (kΩ) = 1.182
(Vout - 0.591)



Rtrim (kΩ) = 1.182
(Vout - 0.591)





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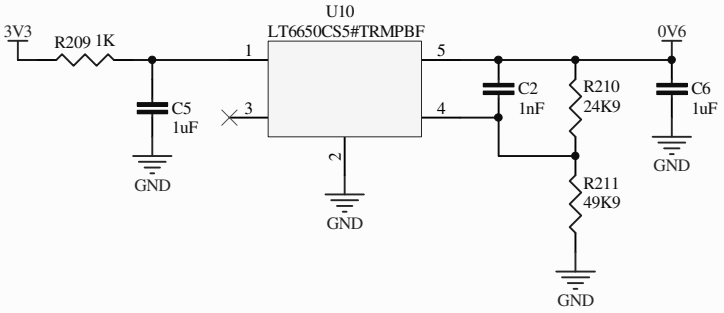

Title *MIPI D-PHY (Unidirectional) FMC*			**Xilinx Automotive**
Size: A4	Number:	Revision: 2.0	
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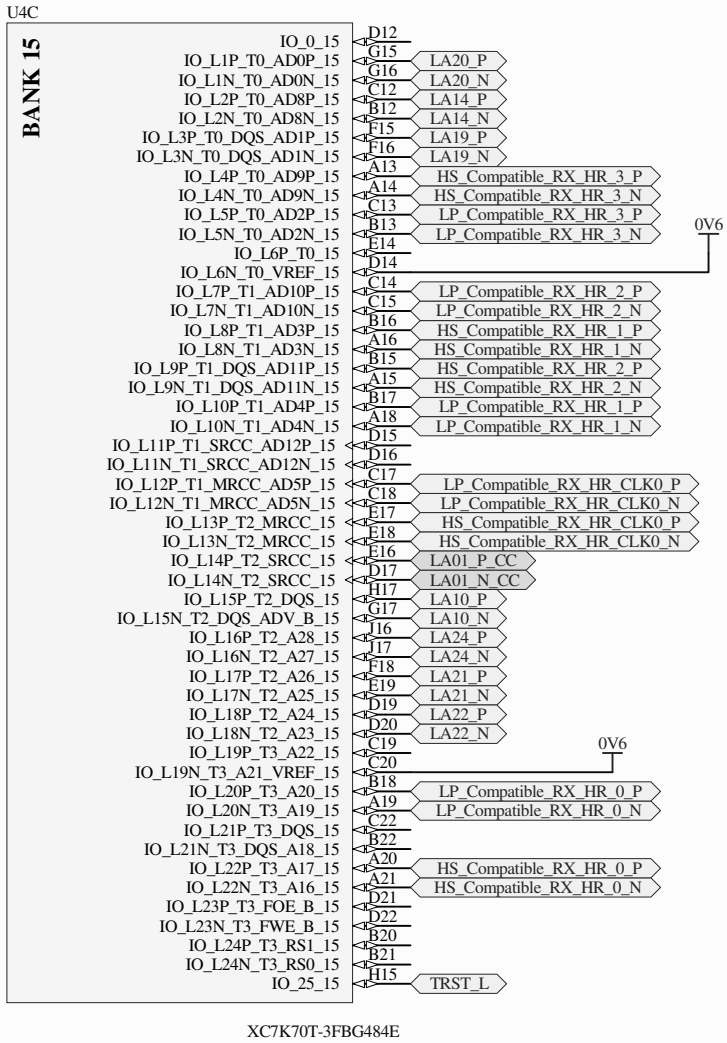
HR Banks - to FMC Connector



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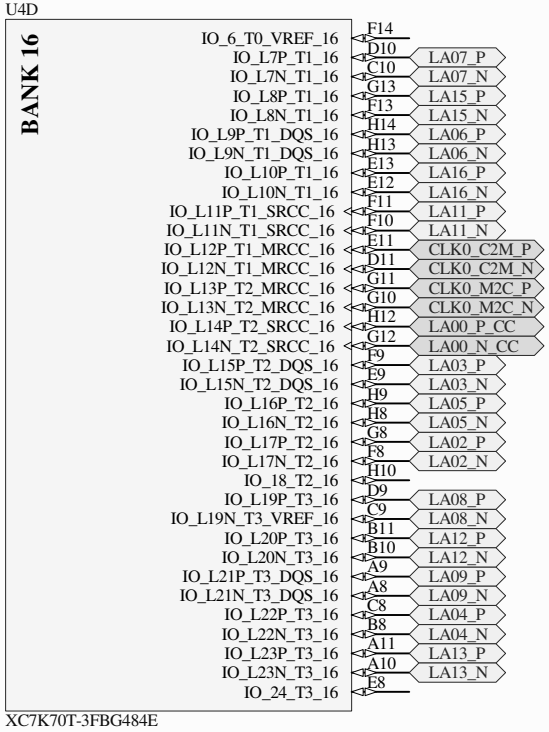
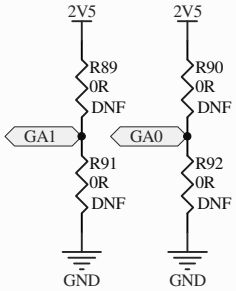


HR BANK



Title *MIPI D-PHY (Unidirectional) FMC*			
Size: A4	Number:	Revision: 2.0	**Xilinx Automotive**
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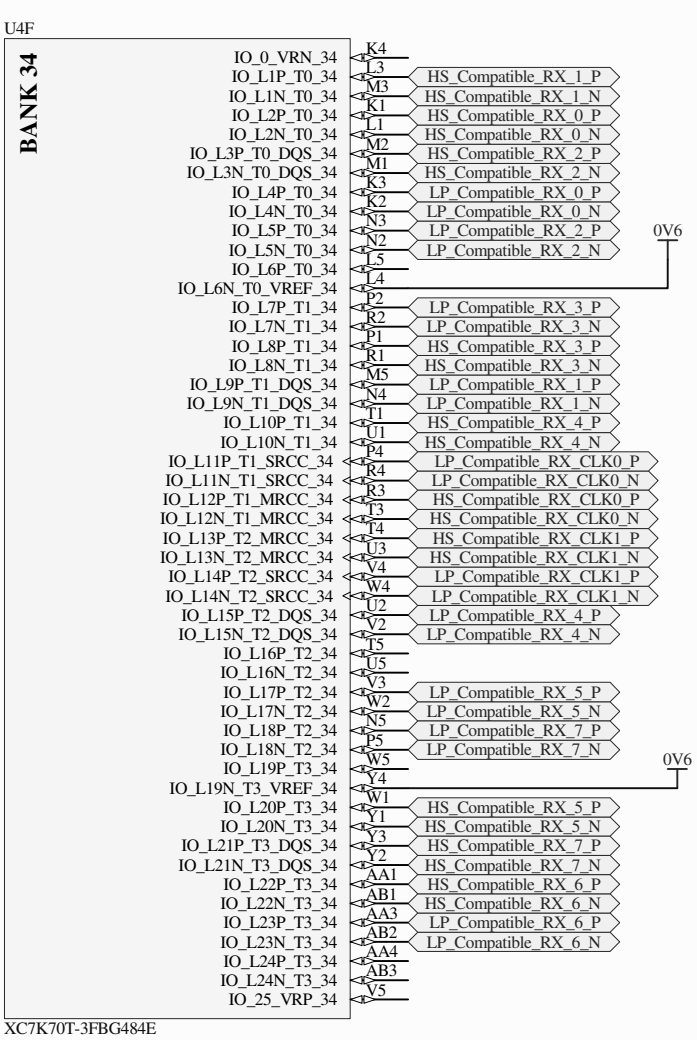
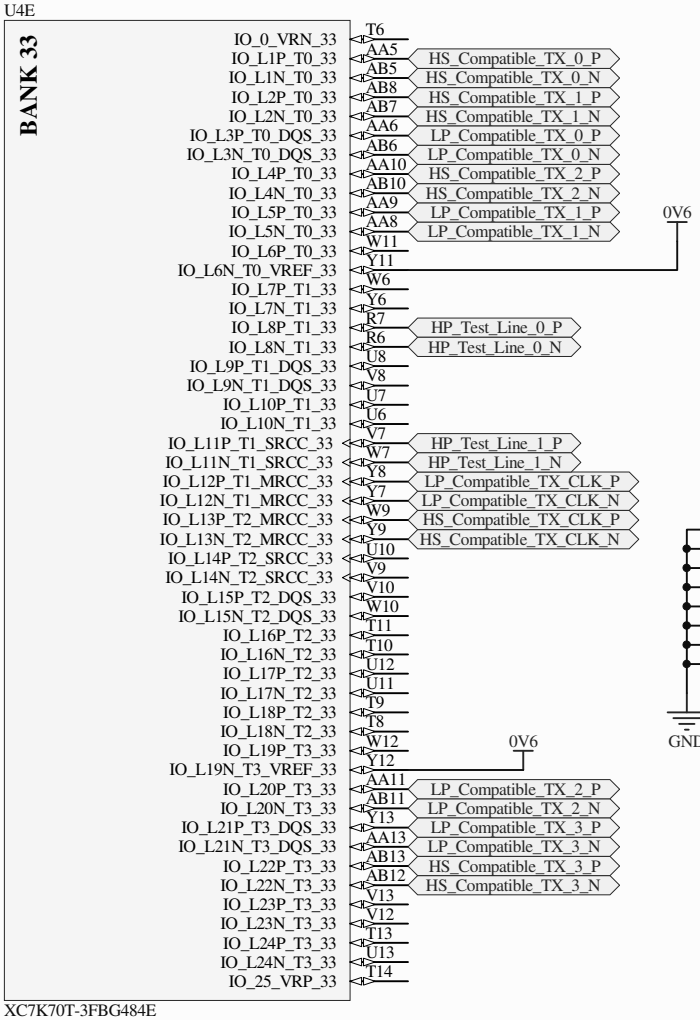
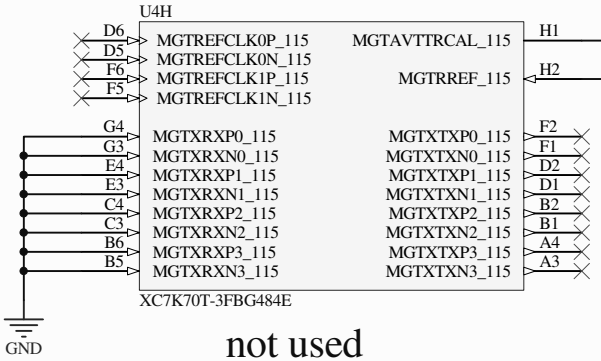
HP BANKs to MIPI PHY Circuits



HP BANK



HP BANK



not used

Title *MIPI D-PHY (Unidirectional) FMC*			**Xilinx Automotive**
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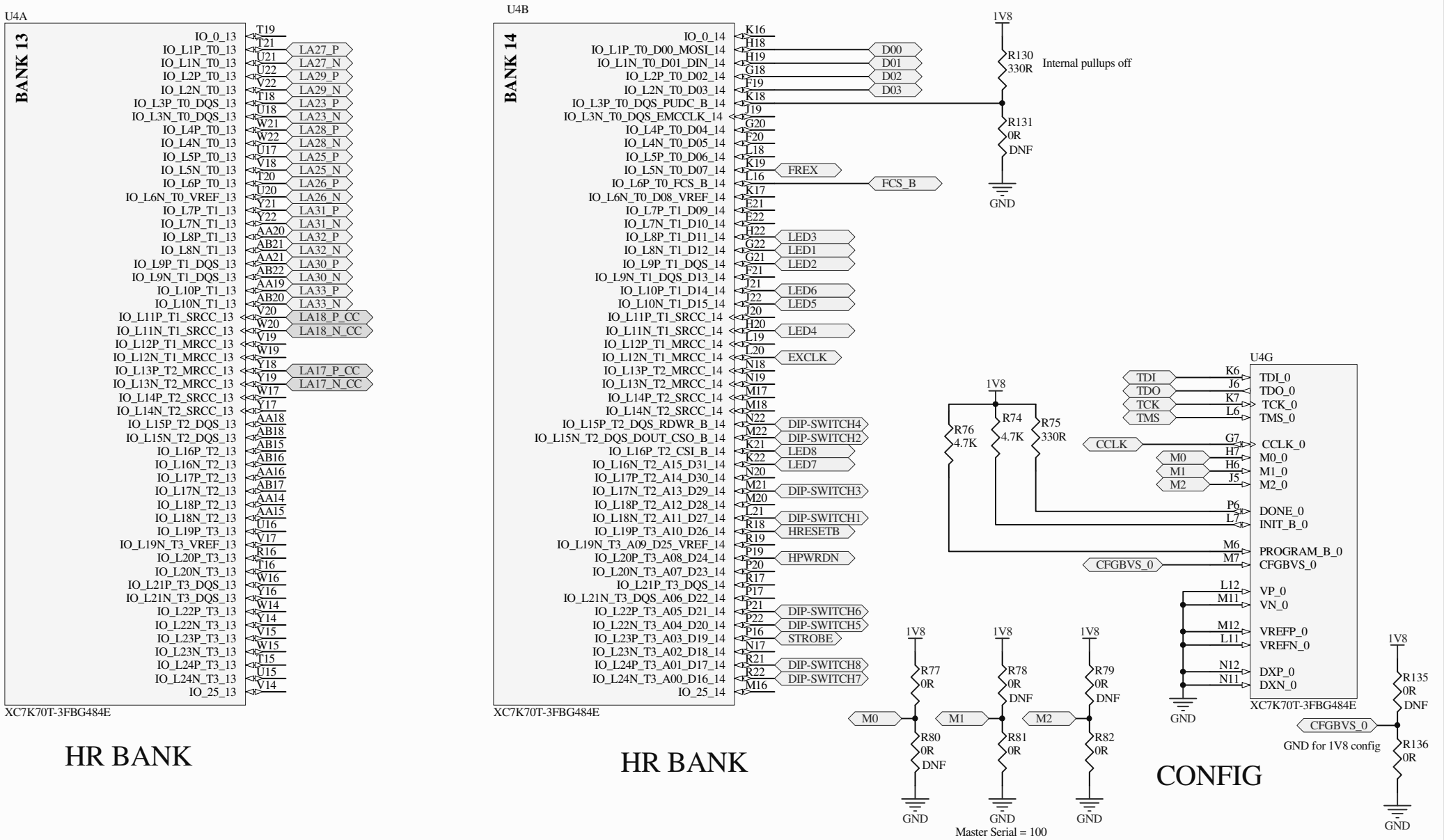
U4A
BANK 13
IO_0_13 T19
IO_L1P_T0_13 T21 LA27_P
IO_L1N_T0_13 U21 LA27_N
IO_L2P_T0_13 U22 LA29_P
IO_L2N_T0_13 V22 LA29_N
IO_L3P_T0_DQS_13 T18 LA23_P
IO_L3N_T0_DQS_13 U18 LA23_N
IO_L4P_T0_13 W21 LA28_P
IO_L4N_T0_13 W22 LA28_N
IO_L5P_T0_13 U17 LA25_P
IO_L5N_T0_13 V18 LA25_N
IO_L6P_T0_13 T20 LA26_P
IO_L6N_T0_VREF_13 U20 LA26_N
IO_L7P_T1_13 Y21 LA31_P
IO_L7N_T1_13 Y22 LA31_N
IO_L8P_T1_13 AA20 LA32_P
IO_L8N_T1_13 AB21 LA32_N
IO_L9P_T1_DQS_13 AA21 LA30_P
IO_L9N_T1_DQS_13 AB22 LA30_N
IO_L10P_T1_13 AA19 LA33_P
IO_L10N_T1_13 AB20 LA33_N
IO_L11P_T1_SRCC_13 V20 LA18_P_CC
IO_L11N_T1_SRCC_13 W20 LA18_N_CC
IO_L12P_T1_MRCC_13 V19
IO_L12N_T1_MRCC_13 W19
IO_L13P_T2_MRCC_13 Y18 LA17_P_CC
IO_L13N_T2_MRCC_13 Y19 LA17_N_CC
IO_L14P_T2_SRCC_13 W17
IO_L14N_T2_SRCC_13 Y17
IO_L15P_T2_DQS_13 AA18
IO_L15N_T2_DQS_13 AB18
IO_L16P_T2_13 AB15
IO_L16N_T2_13 AB16
IO_L17P_T2_13 AA16
IO_L17N_T2_13 AB17
IO_L18P_T2_13 AA14
IO_L18N_T2_13 AA15
IO_L19P_T3_13 U16
IO_L19N_T3_VREF_13 V17
IO_L20P_T3_13 R16
IO_L20N_T3_13 T16
IO_L21P_T3_DQS_13 W16
IO_L21N_T3_DQS_13 Y16
IO_L22P_T3_13 W14
IO_L22N_T3_13 Y14
IO_L23P_T3_13 V15
IO_L23N_T3_13 W15
IO_L24P_T3_13 T15
IO_L24N_T3_13 U15
IO_25_13 V14
XC7K70T-3FBG484E
HR BANK
U4B
BANK 14
IO_0_14 K16
IO_L1P_T0_D00_MOSI_14 H18 D00
IO_L1N_T0_D01_DIN_14 H19 D01
IO_L2P_T0_D02_14 G18 D02
IO_L2N_T0_D03_14 F19 D03
IO_L3P_T0_DQS_PUDC_B_14 K18
IO_L3N_T0_DQS_EMCCLK_14 J19
IO_L4P_T0_D04_14 G20
IO_L4N_T0_D05_14 F20
IO_L5P_T0_D06_14 L18
IO_L5N_T0_D07_14 K19 FREX
IO_L6P_T0_FCS_B_14 L16 FCS_B
IO_L6N_T0_D08_VREF_14 K17
IO_L7P_T1_D09_14 E21
IO_L7N_T1_D10_14 E22
IO_L8P_T1_D11_14 H22 LED3
IO_L8N_T1_D12_14 G22 LED1
IO_L9P_T1_DQS_14 G21 LED2
IO_L9N_T1_DQS_D13_14 F21
IO_L10P_T1_D14_14 J21 LED6
IO_L10N_T1_D15_14 J22 LED5
IO_L11P_T1_SRCC_14 J20
IO_L11N_T1_SRCC_14 H20 LED4
IO_L12P_T1_MRCC_14 L19
IO_L12N_T1_MRCC_14 L20 EXCLK
IO_L13P_T2_MRCC_14 N18
IO_L13N_T2_MRCC_14 N19
IO_L14P_T2_SRCC_14 M17
IO_L14N_T2_SRCC_14 M18
IO_L15P_T2_DQS_RDWR_B_14 N22 DIP-SWITCH4
IO_L15N_T2_DQS_DOUT_CSO_B_14 M22 DIP-SWITCH2
IO_L16P_T2_CSI_B_14 K21 LED8
IO_L16N_T2_A15_D31_14 K22 LED7
IO_L17P_T2_A14_D30_14 N20
IO_L17N_T2_A13_D29_14 M21 DIP-SWITCH3
IO_L18P_T2_A12_D28_14 M20
IO_L18N_T2_A11_D27_14 L21 DIP-SWITCH1
IO_L19P_T3_A10_D26_14 R18 HRESETB
IO_L19N_T3_A09_D25_VREF_14 R19
IO_L20P_T3_A08_D24_14 P19 HPWRDN
IO_L20N_T3_A07_D23_14 P20
IO_L21P_T3_DQS_14 R17
IO_L21N_T3_DQS_A06_D22_14 P17
IO_L22P_T3_A05_D21_14 P21 DIP-SWITCH6
IO_L22N_T3_A04_D20_14 P22 DIP-SWITCH5
IO_L23P_T3_A03_D19_14 P16 STROBE
IO_L23N_T3_A02_D18_14 N17
IO_L24P_T3_A01_D17_14 R21 DIP-SWITCH8
IO_L24N_T3_A00_D16_14 R22 DIP-SWITCH7
IO_25_14 M16
XC7K70T-3FBG484E
HR BANK
1V8
R130 330R
Internal pullups off
R131 0R DNF
GND
1V8
R76 4.7K
R74 4.7K
R75 330R
U4G
TDI K6
TDO J6
TCK K7
TMS L6
TDI_0
TDO_0
TCK_0
TMS_0
CCLK G7
CCLK_0
M0 H7
M1 H6
M2 J5
M0_0
M1_0
M2_0
DONE_0 P6
INIT_B_0 L7
PROGRAM_B_0 M6
CFGBVS_0 M7
CFGBVS_0
VP_0 L12
VN_0 M11
VREFP_0 M12
VREFN_0 L11
DXP_0 N12
DXN_0 N11
XC7K70T-3FBG484E
GND
1V8
R77 0R
R78 0R DNF
R79 0R DNF
M0
M1
M2
R80 0R DNF
R81 0R
R82 0R
GND
GND
GND
Master Serial = 100
1V8
R135 0R DNF
CFGBVS_0
GND for 1V8 config
R136 0R
GND
CONFIG
Title MIPI D-PHY (Unidirectional) FMC
Size: A4
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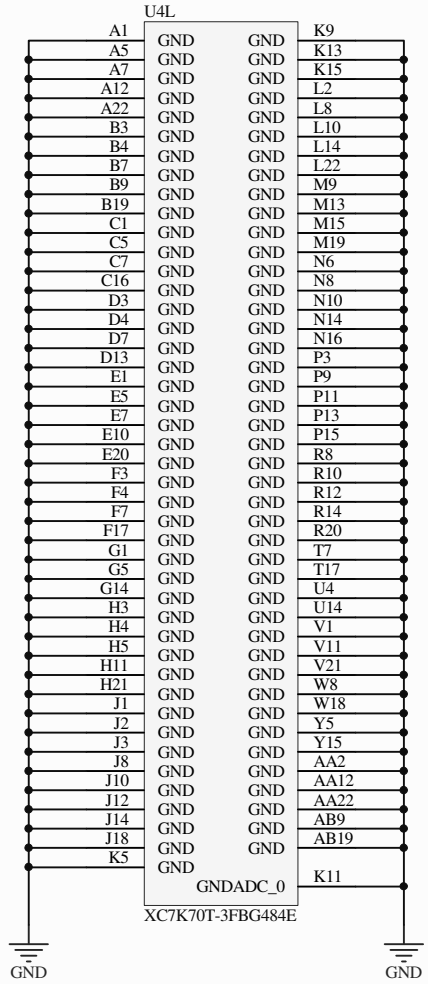
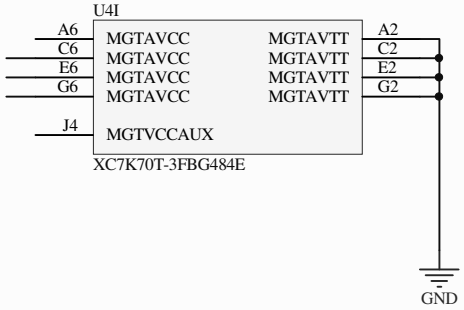
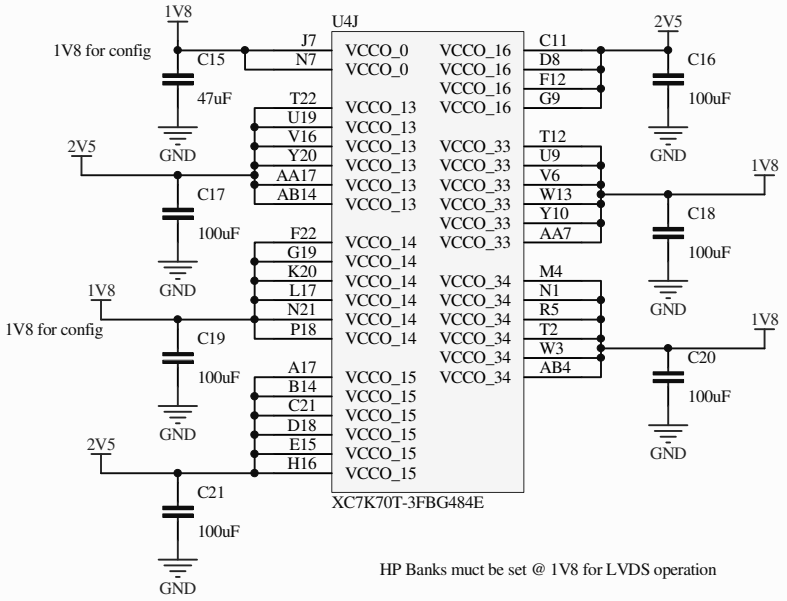
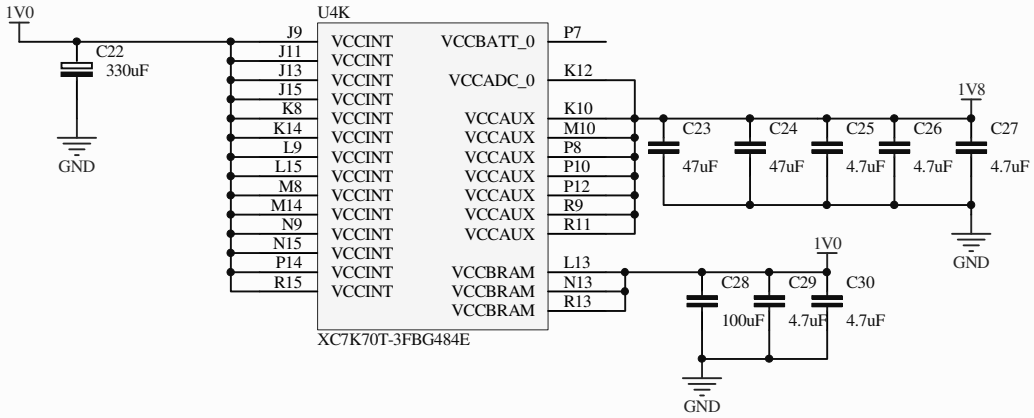






HP Banks muct be set @ 1V8 for LVDS operation



Title	*MIPI D-PHY (Unidirectional) FMC*		
Size: A4	Number:	Revision: 2.0	**Xilinx Automotive**
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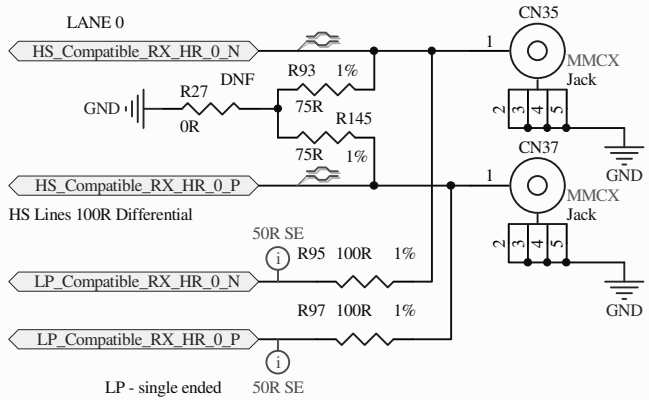
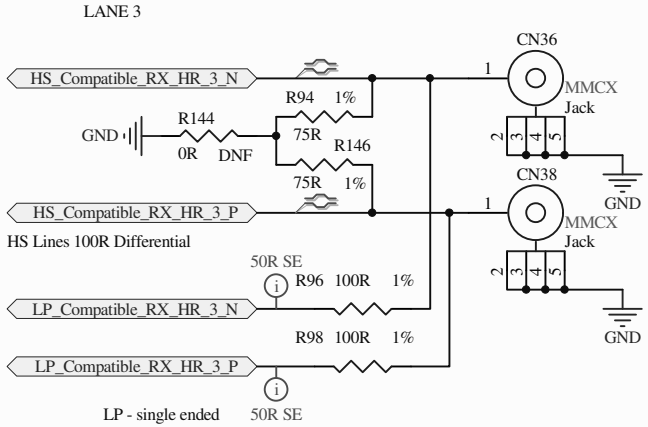
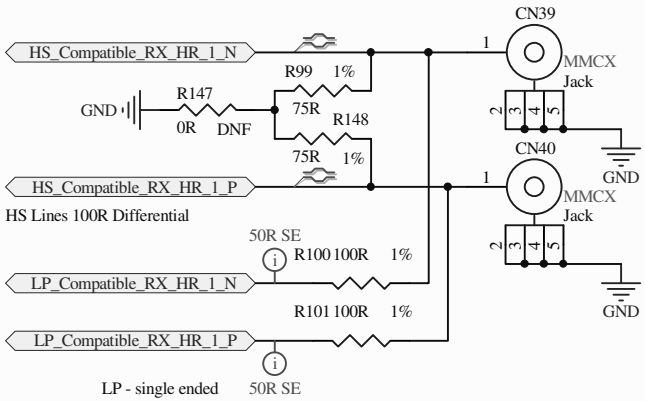
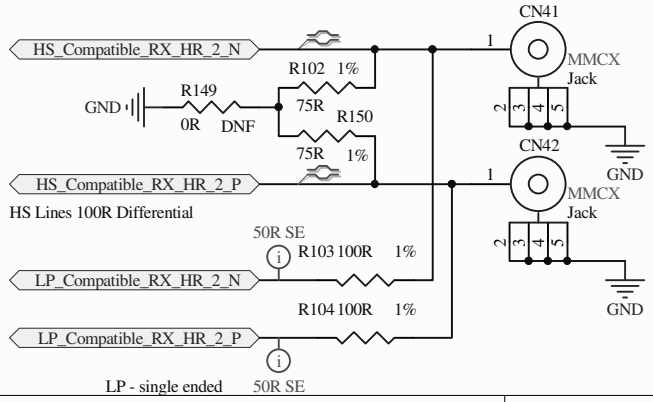
COMPATIBLE RX DATA LANES 0-7









Title	*MIPI D-PHY (Unidirectional) FMC*		
Size: A4	Number:	Revision: 2.0	**Xilinx Automotive**
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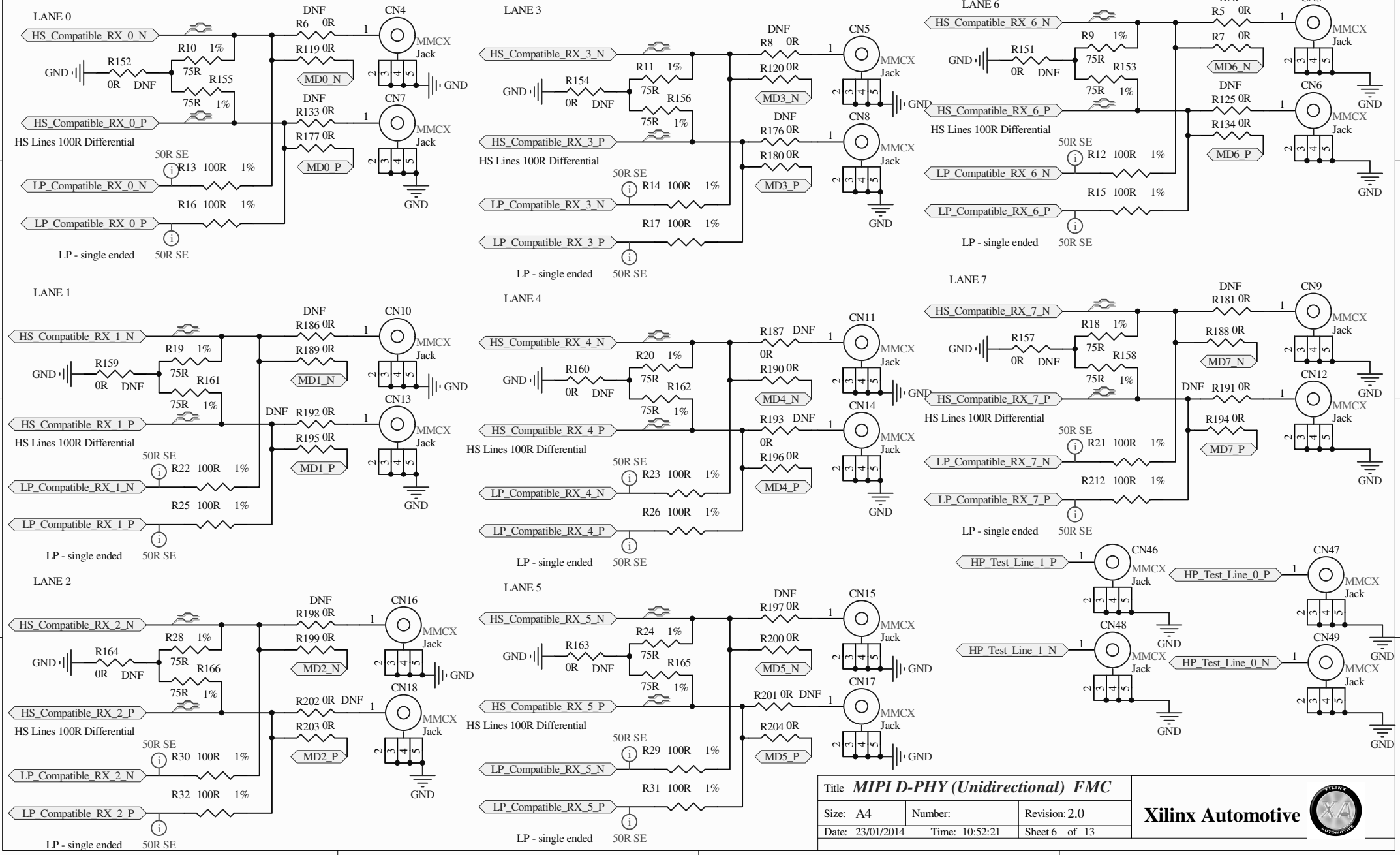
COMPATIBLE RX DATA LANES 0-7



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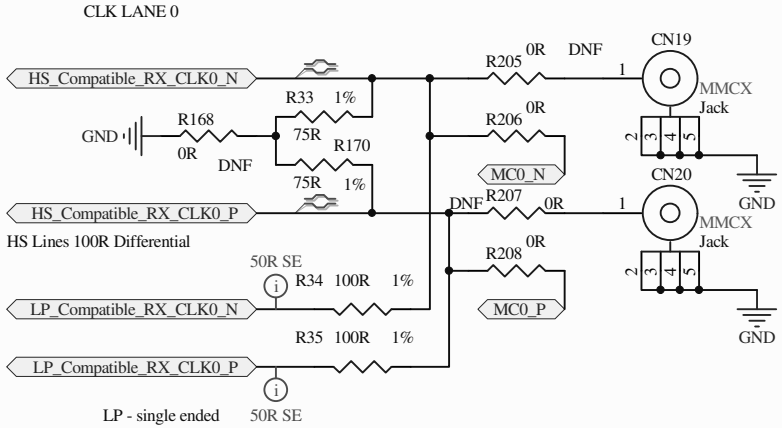
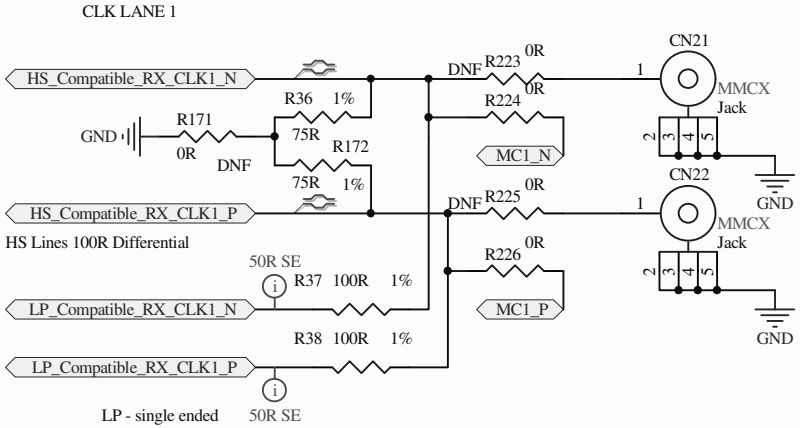
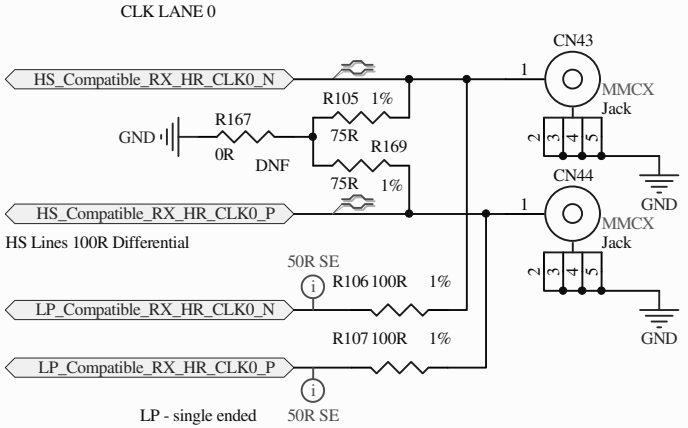
COMPATIBLE RX CLK LANES





COMPATIBLE RX CLK LANES - HP Banks



COMPATIBLE RX CLK LANES - HR Bank

Title	*MIPI D-PHY (Unidirectional) FMC*		
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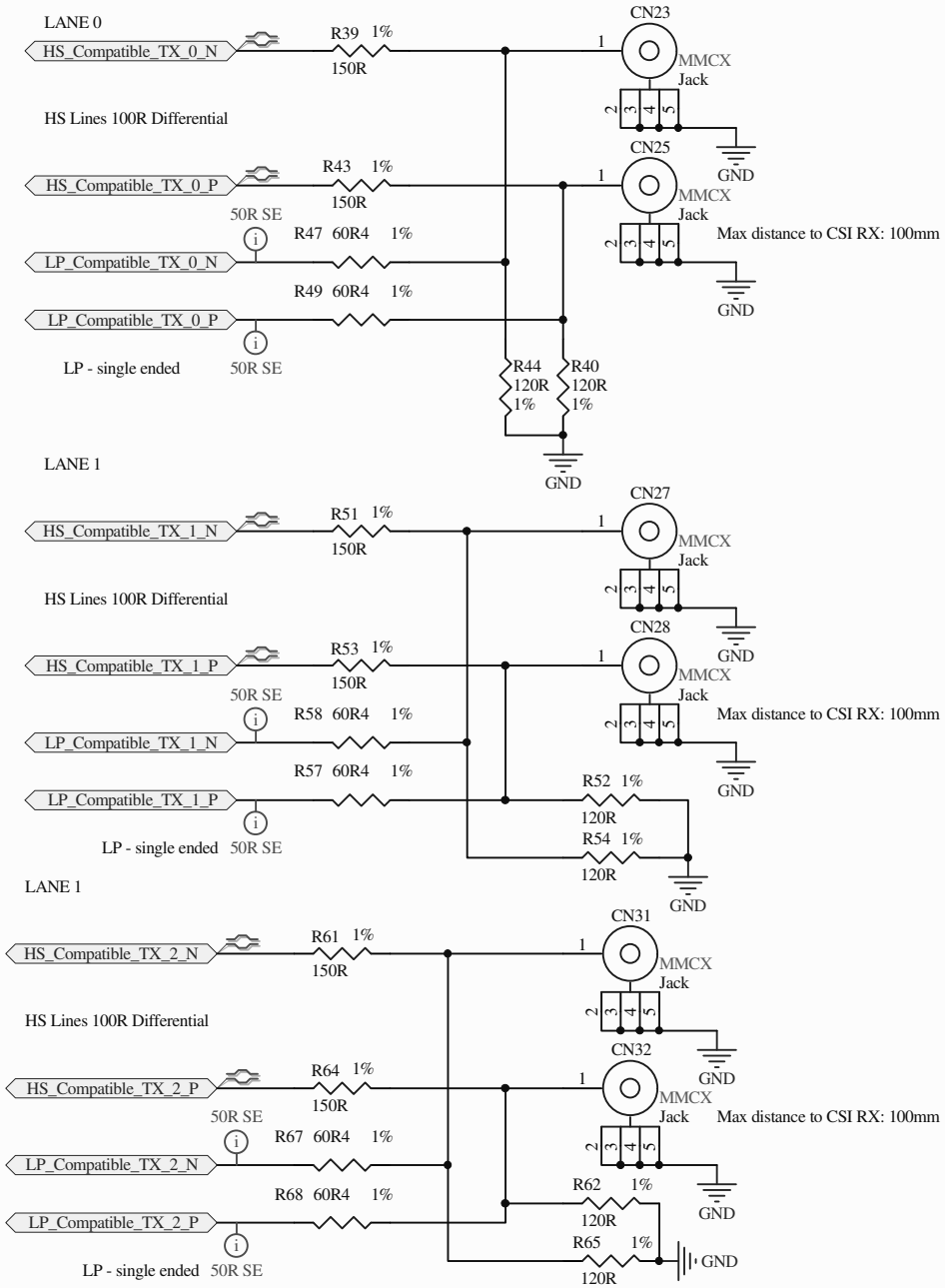
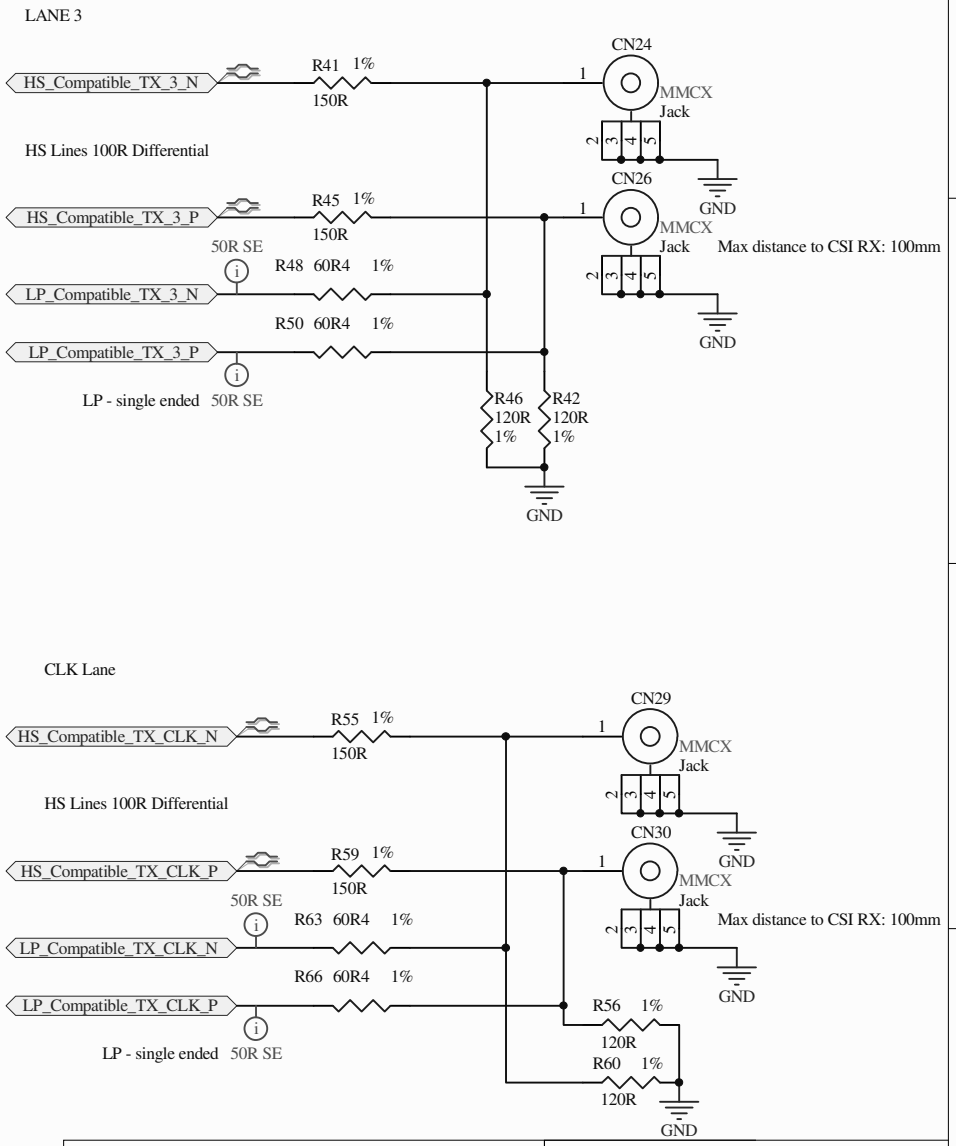
COMPATIBLE TX DATA LANES 0-3 + CLK





Title	*MIPI D-PHY (Unidirectional) FMC*		
Size: A4	Number:	Revision: 2.0	**Xilinx Automotive**
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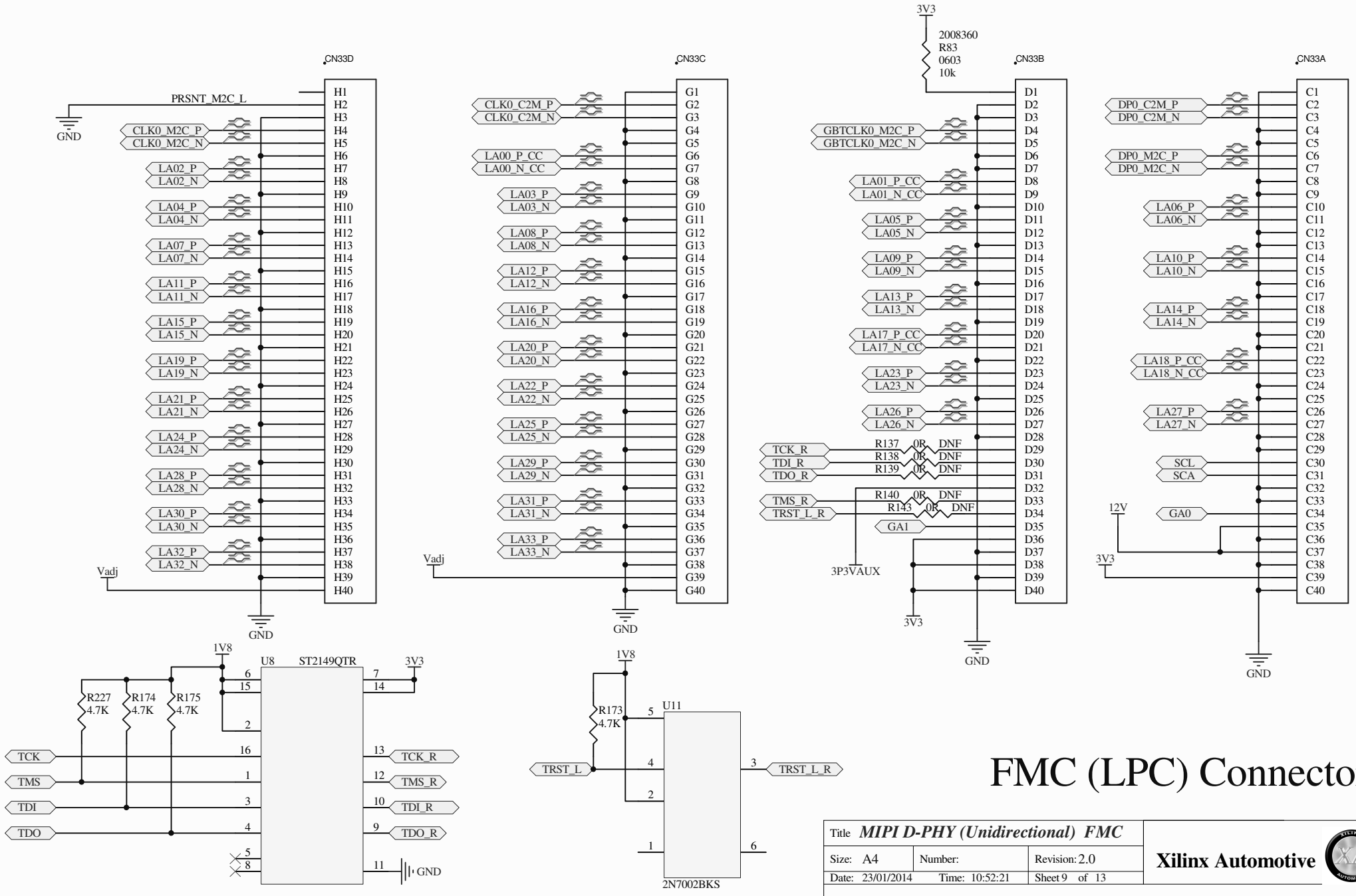

FMC (LPC) Connector

Title	*MIPI D-PHY (Unidirectional) FMC*		
Size: A4	Number:	Revision: 2.0	**Xilinx Automotive**
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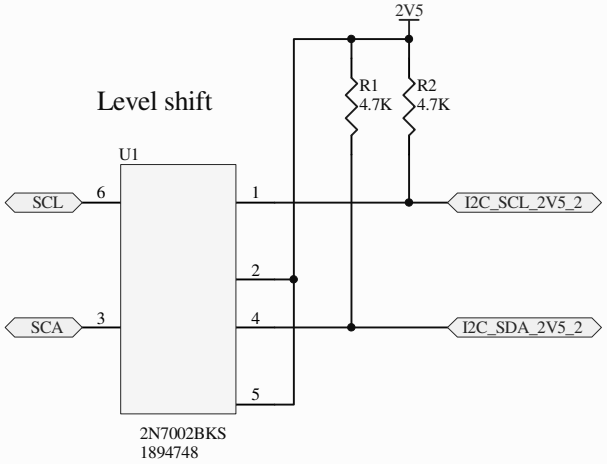
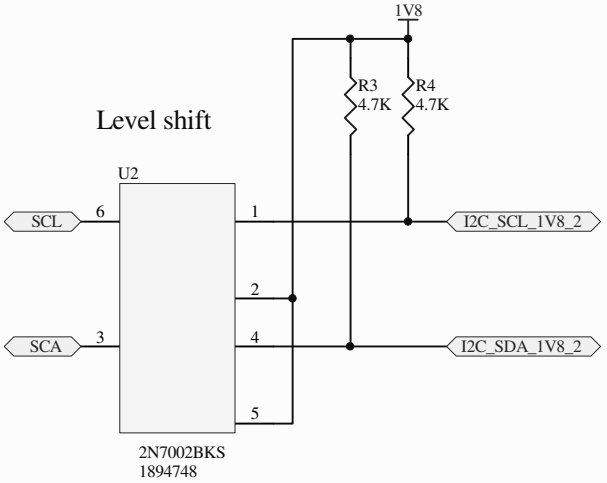
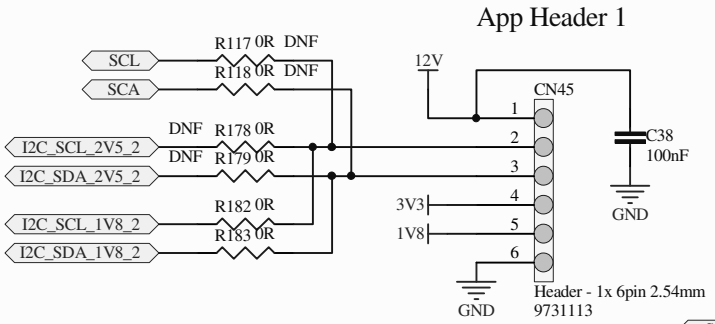
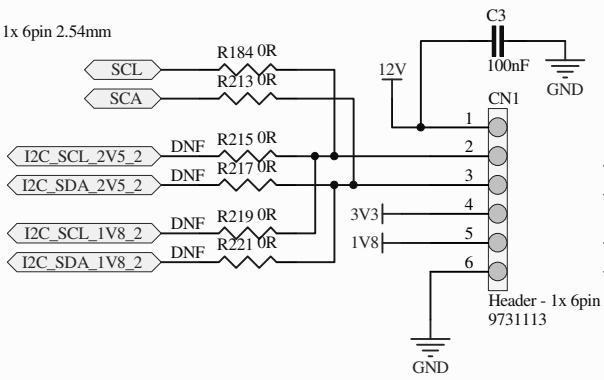
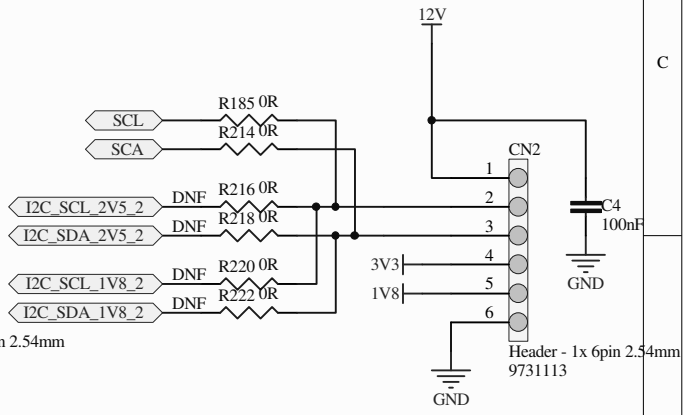
Demo Support Circuitry



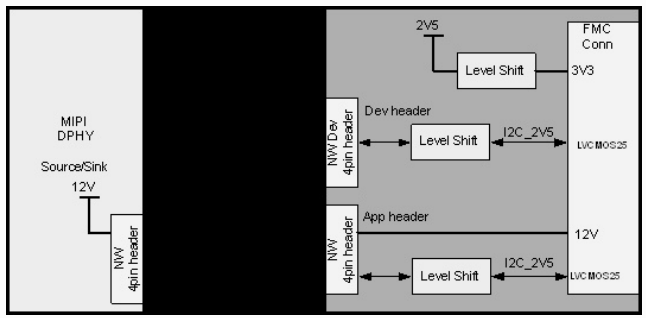








System Diagram - info only



This page includes circuitry to allow adaption to NW logic's D-PHY MIPI solution.

Title *MIPI D-PHY (Unidirectional) FMC Board*		
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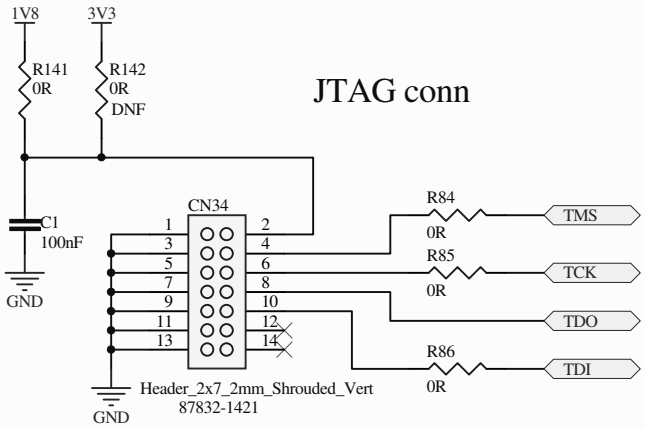

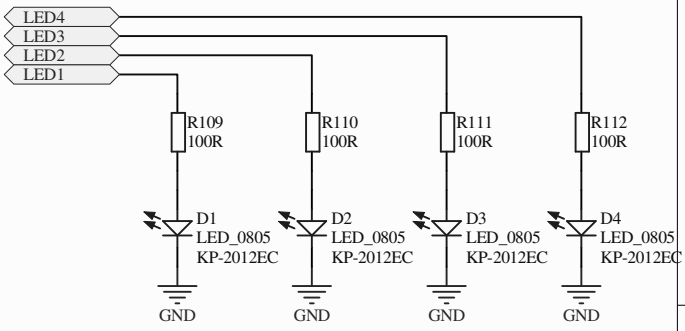

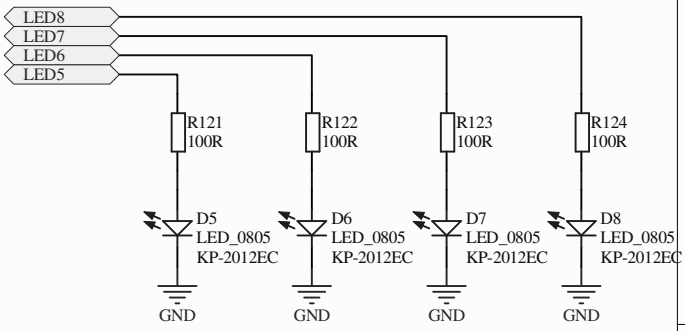

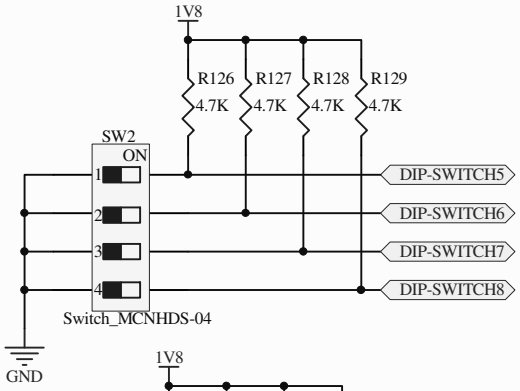

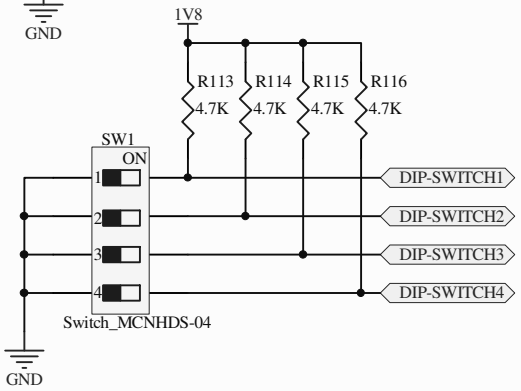

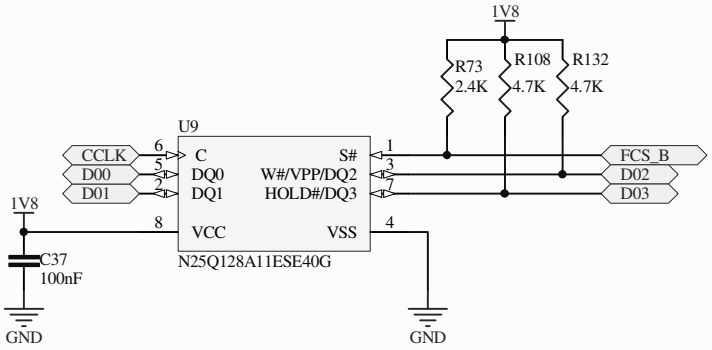

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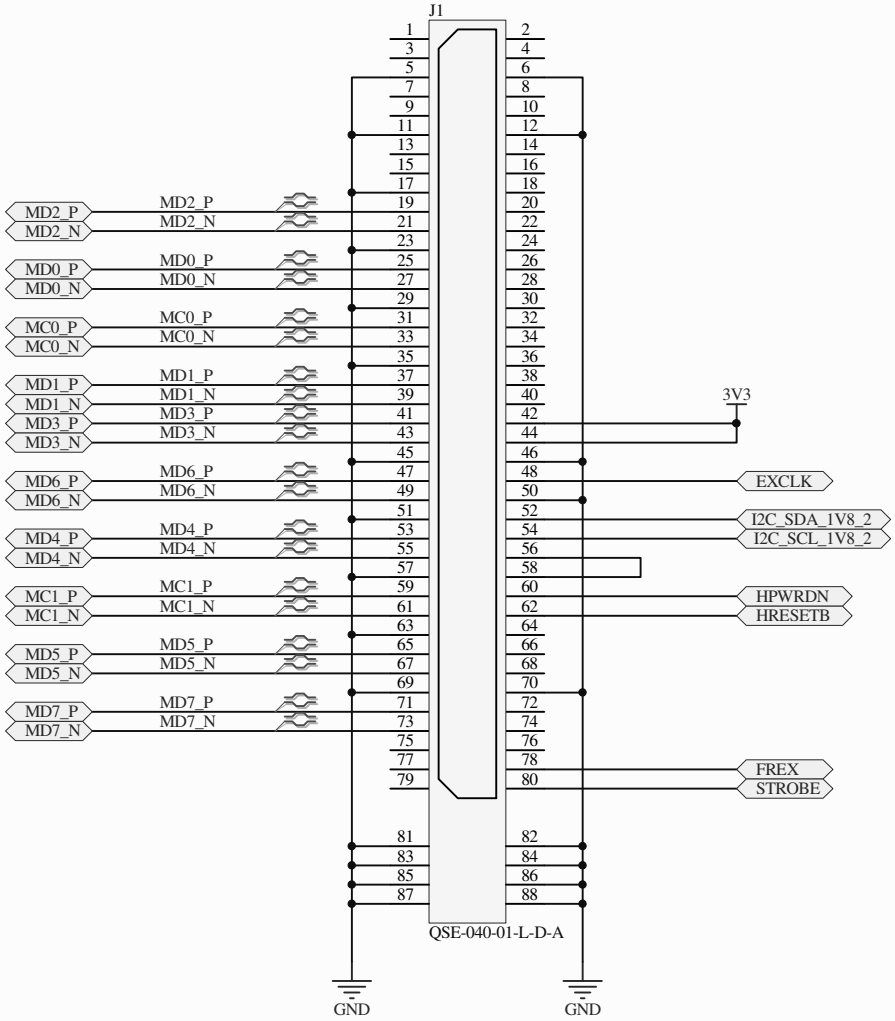
Imager Module Interface



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