DEMO_FX3_U3V_CAM01 ADD-ON BOARD

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Drawing Numbers	
PCBA	121-60626-01
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FAB DRW	610-60626-01
ASSY DRW	620-60626-01
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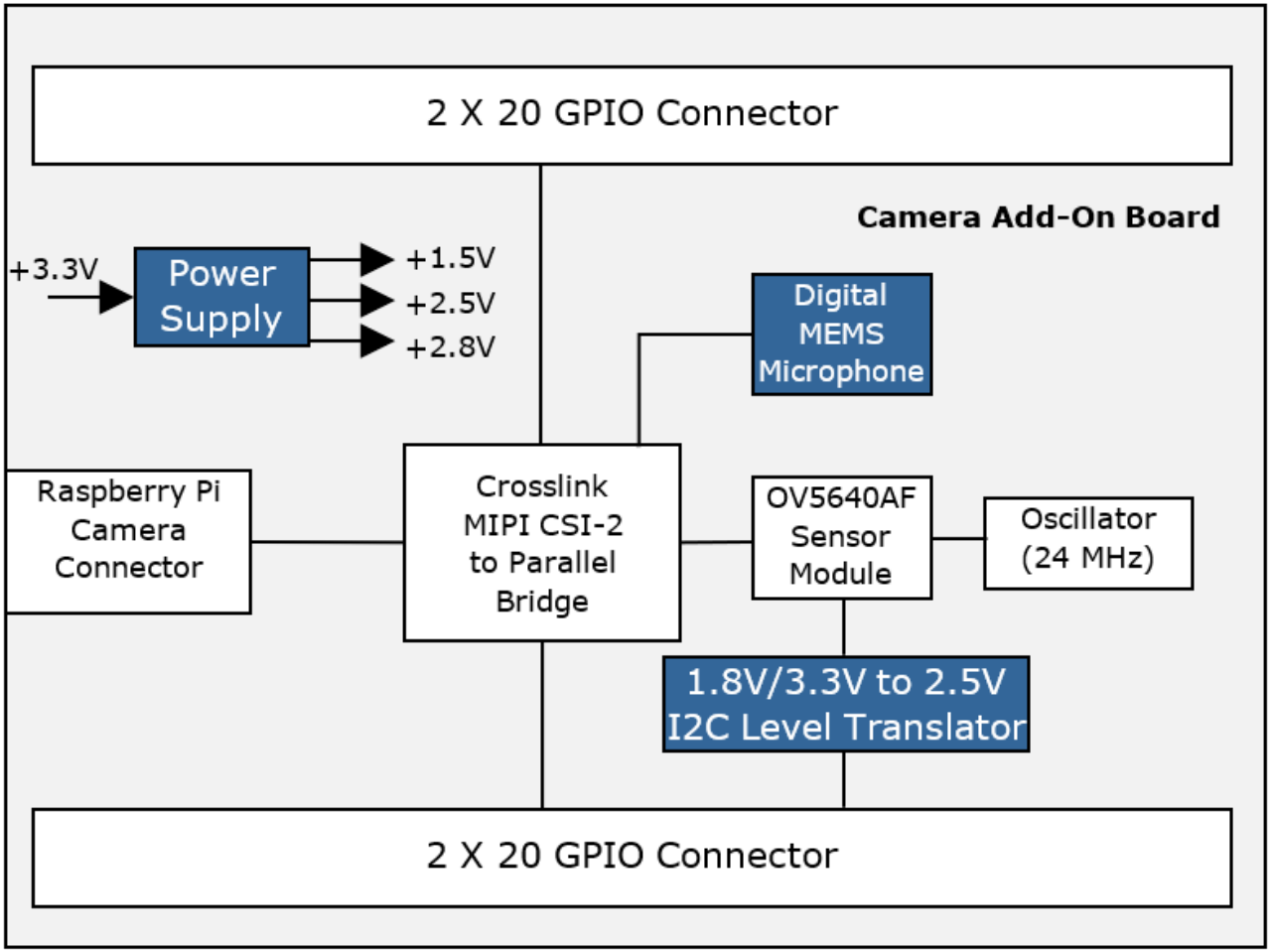
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Page Title : TITLE PAGE

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BLOCK DIAGRAM



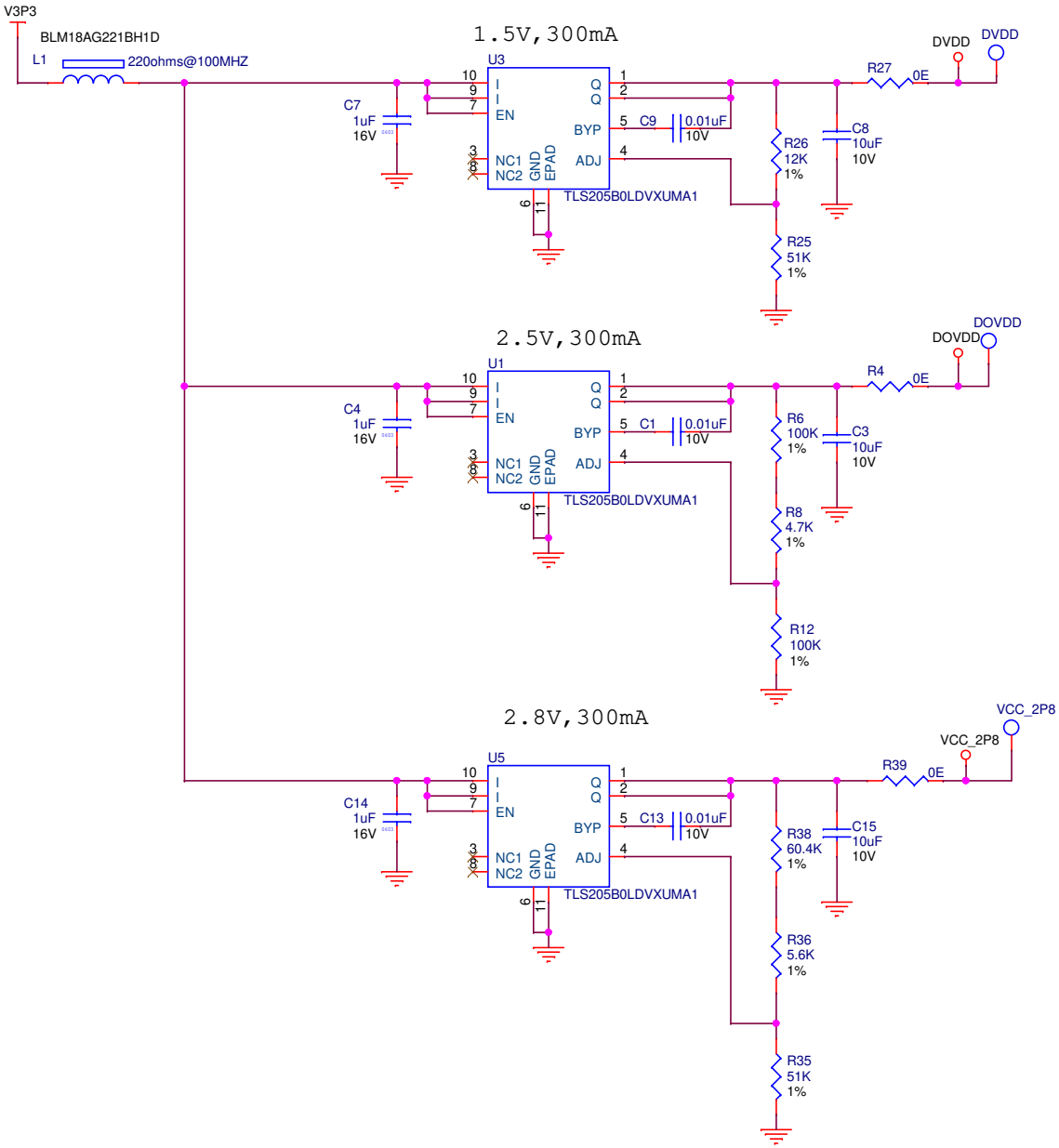
Cypress / Infineon Parts

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POWER SUPPLY

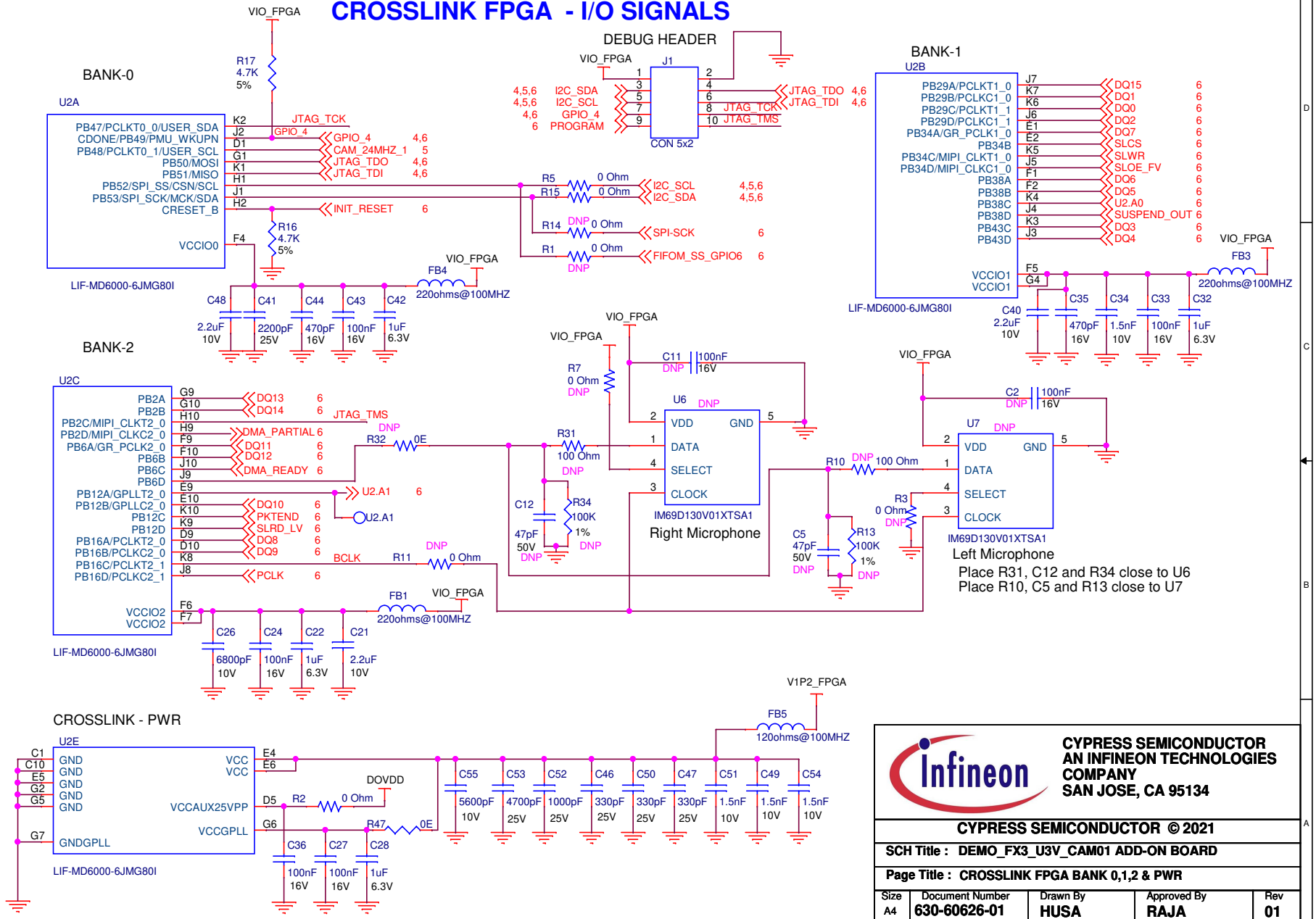


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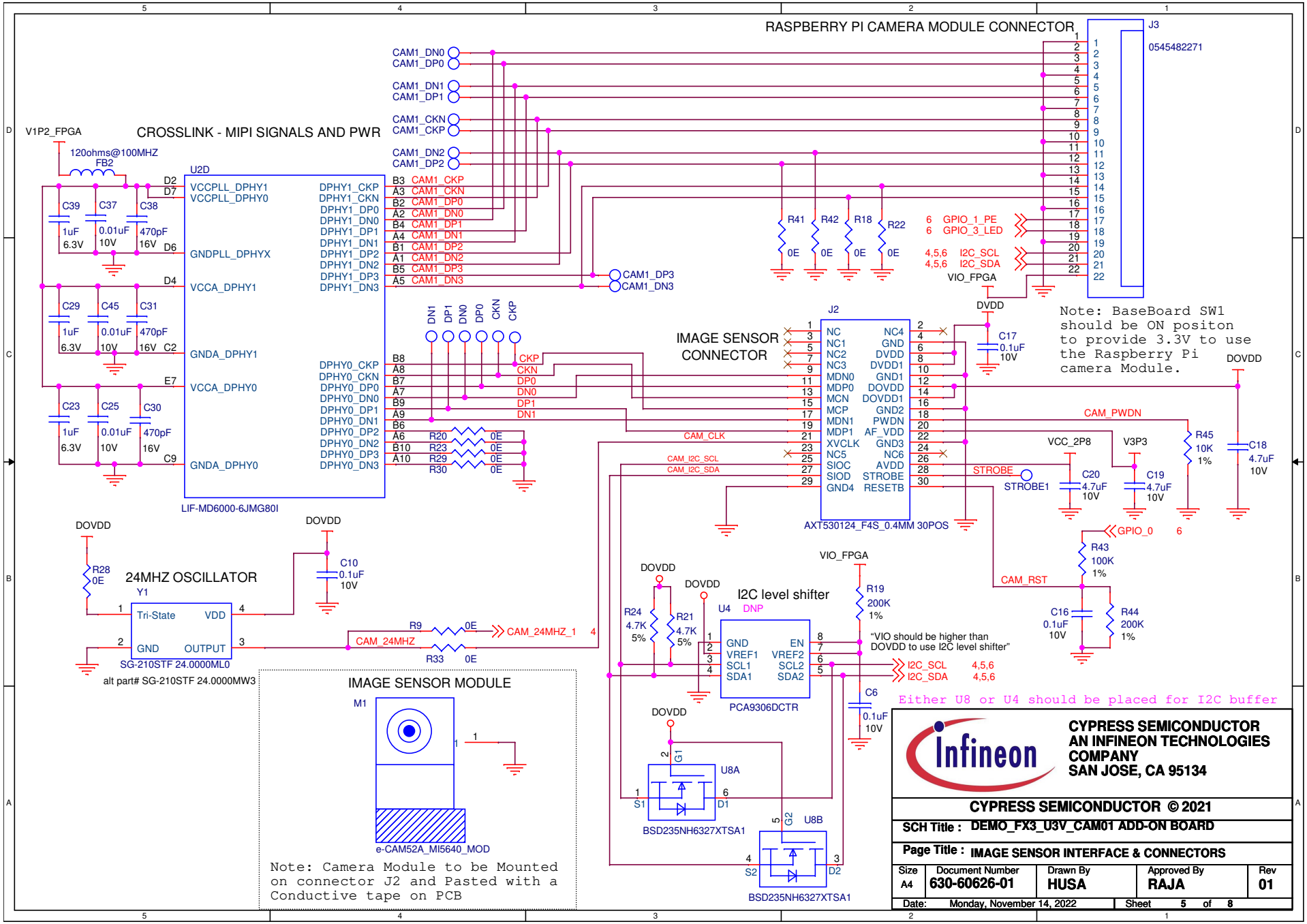
CROSSLINK FPGA - I/O SIGNALS



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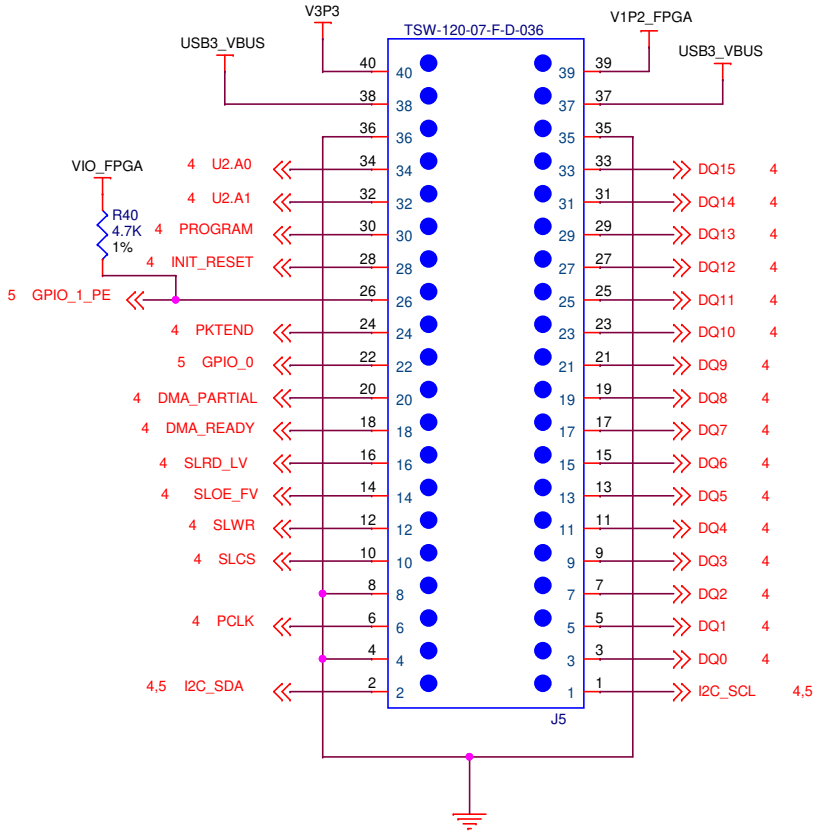
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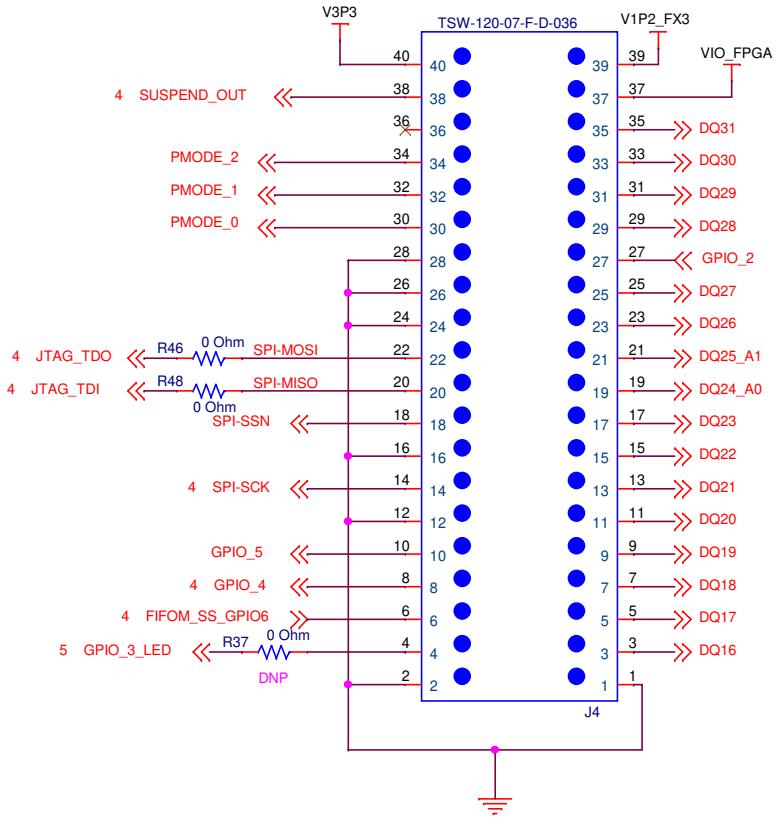
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Page Title : CROSSLINK FPGA BANK 0,1,2 & PWR				
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RASPBERRY PI CAMERA MODULE CONNECTOR
J3
0545482271
CROSSLINK - MIPI SIGNALS AND PWR
V1P2_FPGA
120ohms@100MHZ
FB2
U2D
VCCPLL_DPHY1
VCCPLL_DPHY0
GNDPLL_DPHYX
VCCA_DPHY1
GNDA_DPHY1
VCCA_DPHY0
GNDA_DPHY0
DPHY1_CKP
DPHY1_CKN
DPHY1_DP0
DPHY1_DN0
DPHY1_DP1
DPHY1_DN1
DPHY1_DP2
DPHY1_DN2
DPHY1_DP3
DPHY1_DN3
DPHY0_CKP
DPHY0_CKN
DPHY0_DP0
DPHY0_DN0
DPHY0_DP1
DPHY0_DN1
DPHY0_DP2
DPHY0_DN2
DPHY0_DP3
DPHY0_DN3
LIF-MD6000-6JMG80I
CAM1_DN0
CAM1_DP0
CAM1_DN1
CAM1_DP1
CAM1_CKN
CAM1_CKP
CAM1_DN2
CAM1_DP2
CAM1_DP3
CAM1_DN3
R41
R42
R18
R22
0E
GPIO_1_PE
GPIO_3_LED
I2C_SCL
I2C_SDA
VIO_FPGA
IMAGE SENSOR CONNECTOR
J2
AXT530124_F4S_0.4MM 30POS
DVDD
C17
0.1uF
10V
Note: BaseBoard SW1 should be ON positon to provide 3.3V to use the Raspberry Pi camera Module.
CAM_PWDN
CAM_CLK
CAM_I2C_SCL
CAM_I2C_SDA
STROBE
STROBE1
VCC_2P8
V3P3
C20
C19
4.7uF
10V
R45
10K
1%
C18
GPIO_0
R43
100K
CAM_RST
R44
200K
C16
24MHZ OSCILLATOR
Y1
SG-210STF 24.0000ML0
alt part# SG-210STF 24.0000MW3
R28
C10
R9
R33
CAM_24MHZ
CAM_24MHZ_1
I2C level shifter
U4
DNP
PCA9306DCTR
R24
R21
4.7K
5%
R19
200K
"VIO should be higher than DOVDD to use I2C level shifter"
C6
U8A
U8B
BSD235NH6327XTSA1
IMAGE SENSOR MODULE
M1
e-CAM52A_MI5640_MOD
Note: Camera Module to be Mounted on connector J2 and Pasted with a Conductive tape on PCB
Either U8 or U4 should be placed for I2C buffer
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GPIO HEADERS

NOTE: J4 and J5 Pin 36 is cut for connector polarisation



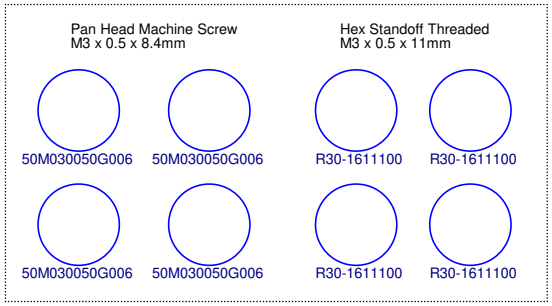


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ACCESSORIES



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REVISION HISTORY

REV	DESCRIPTION OF CHANGE	DATE
01	Initial Release	14/SEP/2022

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