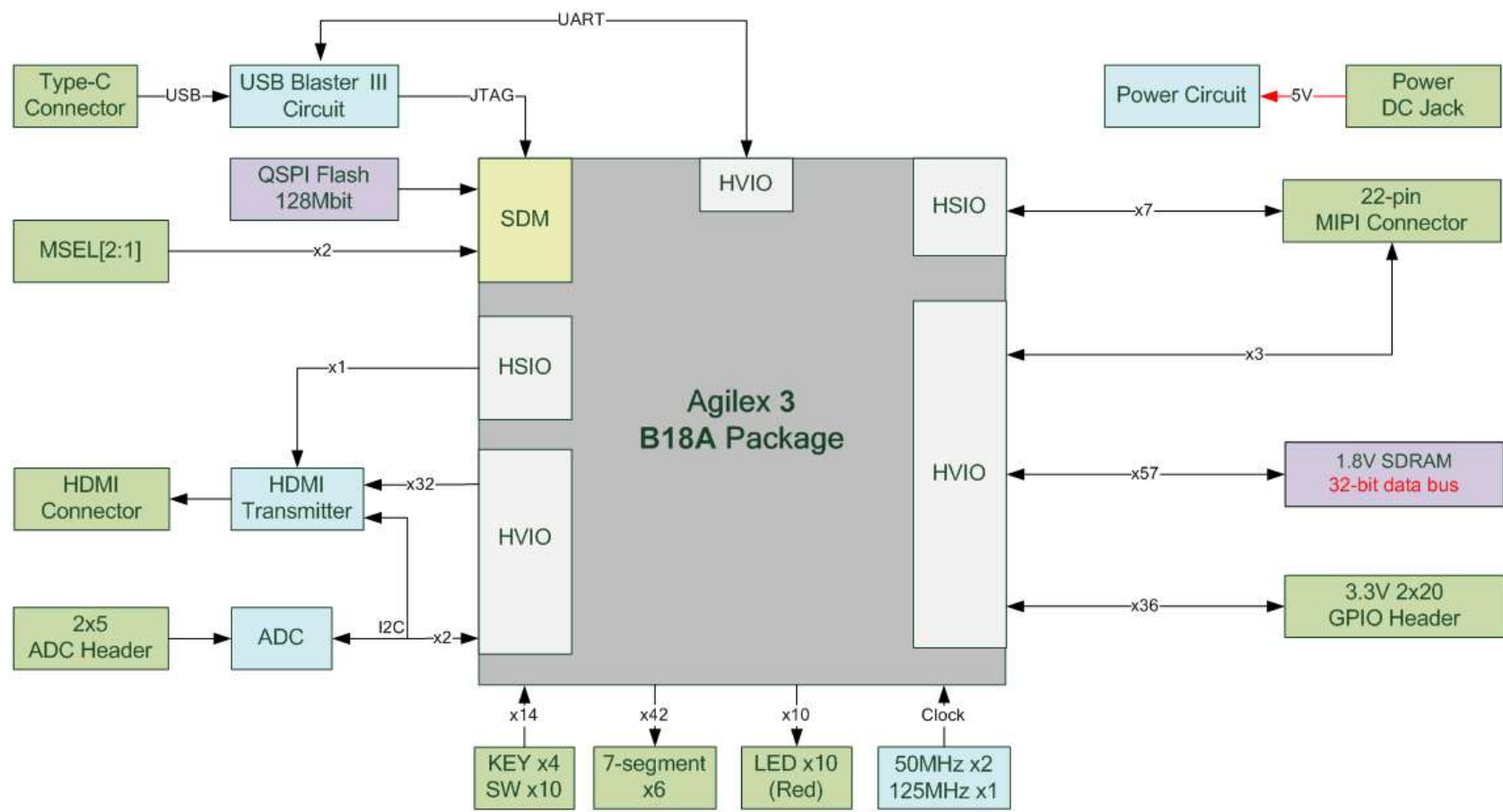
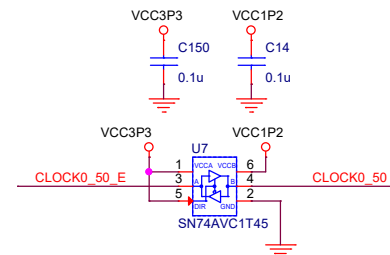
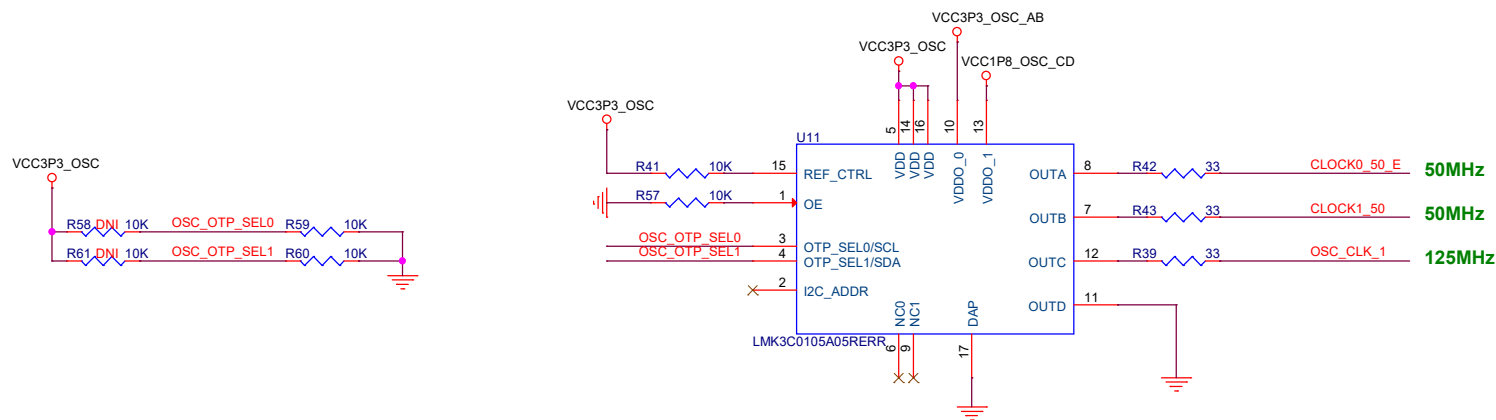
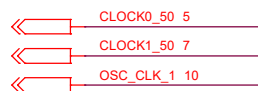


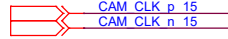
Block Diagram



Clock Interface



MIPI Camera Interface



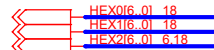
Clock Interface



HDMI TX Interface



User IO Interface



VCCIO = 1.2V

BANK 3AT

HDMI_TX_CLK	A22	IO_3A_T/IOB/DIFF_IO_3A_T1N/NO/95
LEDR4	A19	IO_3A_T/IOB/DIFF_IO_3A_T1P/NO/94
LEDR5	B24	IO_3A_T/IOB/DIFF_IO_3A_T2N/NO/93
LEDR6	A24	IO_3A_T/IOB/DIFF_IO_3A_T2P/NO/92
SW2	B26	IO_3A_T/IOB/DIFF_IO_3A_T3N/NO/91
SW5	A26	IO_3A_T/IOB/AVST_READY/DIFF_IO_3A_T3P/NO/90
SW6	B27	IO_3A_T/IOB/DIFF_IO_3A_T4N/NO/89
SW7	A29	IO_3A_T/IOB/DIFF_IO_3A_T4P/NO/88
LEDR8	B34	IO_3A_T/IOB/DIFF_IO_3A_T5N/YES/87
SW9	A34	IO_3A_T/IOB/DIFF_IO_3A_T5P/YES/86
HEX22	A31	IO_3A_T/IOB/DIFF_IO_3A_T6N/NO/85
HEX23	B29	IO_3A_T/IOB/DIFF_IO_3A_T6P/NO/84
SW0	A37	IO_3A_T/IOB/AVST_DATA10/DIFF_IO_3A_T7N/NO/83
SW1	B37	IO_3A_T/IOB/AVST_DATA9/DIFF_IO_3A_T7P/NO/82
SW3	A42	IO_3A_T/IOB/AVST_DATA8/DIFF_IO_3A_T8N/NO/81
LEDR0	B39	IO_3A_T/IOB/AVST_VALID/DIFF_IO_3A_T8P/NO/80
LEDR7	A44	IO_3A_T/IOB/AVST_DATA7/DIFF_IO_3A_T9N/NO/79
LEDR1	B42	IO_3A_T/IOB/AVST_DATA6/DIFF_IO_3A_T9P/NO/78
CAM_CLK_n	A45	IO_3A_T/IOB/AVST_DATA5/DIFF_IO_3A_T10N/NO/77
CAM_CLK_p	B45	IO_3A_T/IOB/AVST_DATA4/DIFF_IO_3A_T10P/NO/76
CAM_D_n1	B51	IO_3A_T/IOB/AVST_DATA3/DIFF_IO_3A_T11N/YES/75
CAM_D_p1	B50	IO_3A_T/IOB/AVST_DATA2/DIFF_IO_3A_T11P/YES/74
CAM_D_n0	A47	IO_3A_T/IOB/AVST_DATA1/DIFF_IO_3A_T12N/NO/73
CAM_D_p0	B47	IO_3A_T/IOB/AVST_DATA0/DIFF_IO_3A_T12P/NO/72

I/O Lane 7

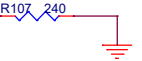
I/O Lane 6

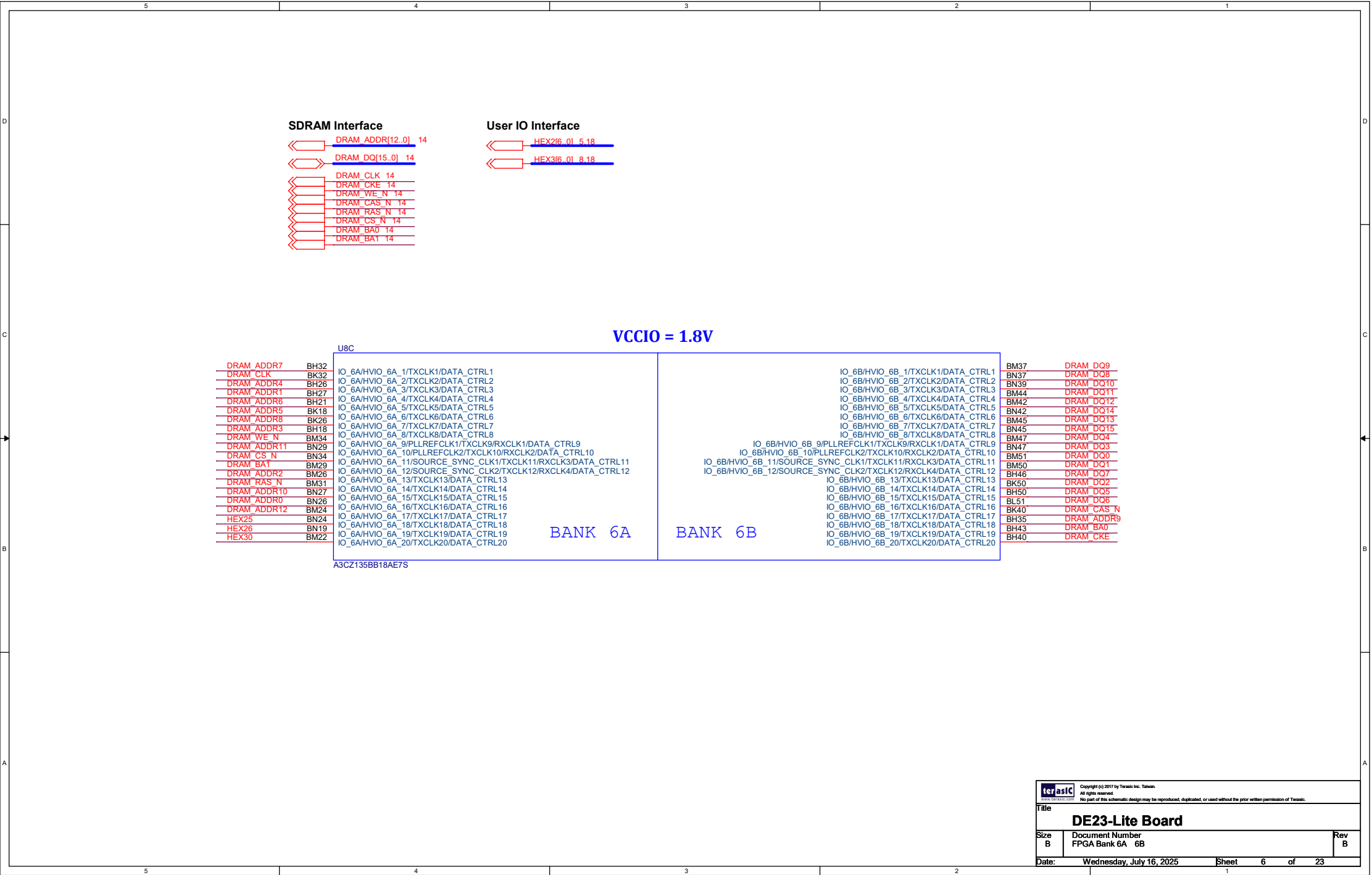
IO_3A_T/IOB/DIFF_IO_3A_T13N/NO/71	IO_3A_T/IOB/DIFF_IO_3A_T13P/NO/70
IO_3A_T/IOB/DIFF_IO_3A_T14N/NO/69	IO_3A_T/IOB/DIFF_IO_3A_T14P/NO/68
IO_3A_T/IOB/DIFF_IO_3A_T15N/NO/67	IO_3A_T/IOB/DIFF_IO_3A_T15P/NO/66
IO_3A_T/IOB/DIFF_IO_3A_T16N/NO/65	IO_3A_T/IOB/PLL_3A_T_CLKOUT1N/DIFF_IO_3A_T16P/NO/64
IO_3A_T/IOB/PLL_3A_T_CLKOUT1P/PLL_3A_T_CLKOUT1P/PLL_3A_T_FB1/DIFF_IO_3A_T17N/YES/63	IO_3A_T/IOB/RZQ_T_3A/DIFF_IO_3A_T17P/YES/62
IO_3A_T/IOB/CLK_T_3A_1N/DIFF_IO_3A_T18N/NO/61	IO_3A_T/IOB/CLK_T_3A_1P/DIFF_IO_3A_T18P/NO/60
IO_3A_T/IOB/CLK_T_3A_0N/DIFF_IO_3A_T19N/NO/59	IO_3A_T/IOB/CLK_T_3A_0P/DIFF_IO_3A_T19P/NO/58
IO_3A_T/IOB/DIFF_IO_3A_T20N/NO/57	IO_3A_T/IOB/DIFF_IO_3A_T20P/NO/56
IO_3A_T/IOB/PLL_3A_T_CLKOUT0N/DIFF_IO_3A_T21N/NO/55	IO_3A_T/IOB/PLL_3A_T_CLKOUT0P/PLL_3A_T_CLKOUT0P/PLL_3A_T_FB0/DIFF_IO_3A_T21P/NO/54
IO_3A_T/IOB/AVST_CLK/DIFF_IO_3A_T22N/NO/53	IO_3A_T/IOB/AVST_DATA15/DIFF_IO_3A_T22P/NO/52
IO_3A_T/IOB/AVST_DATA14/DIFF_IO_3A_T23N/YES/51	IO_3A_T/IOB/AVST_DATA13/DIFF_IO_3A_T23P/YES/50
IO_3A_T/IOB/AVST_DATA12/DIFF_IO_3A_T24N/NO/49	IO_3A_T/IOB/AVST_DATA11/DIFF_IO_3A_T24P/NO/48

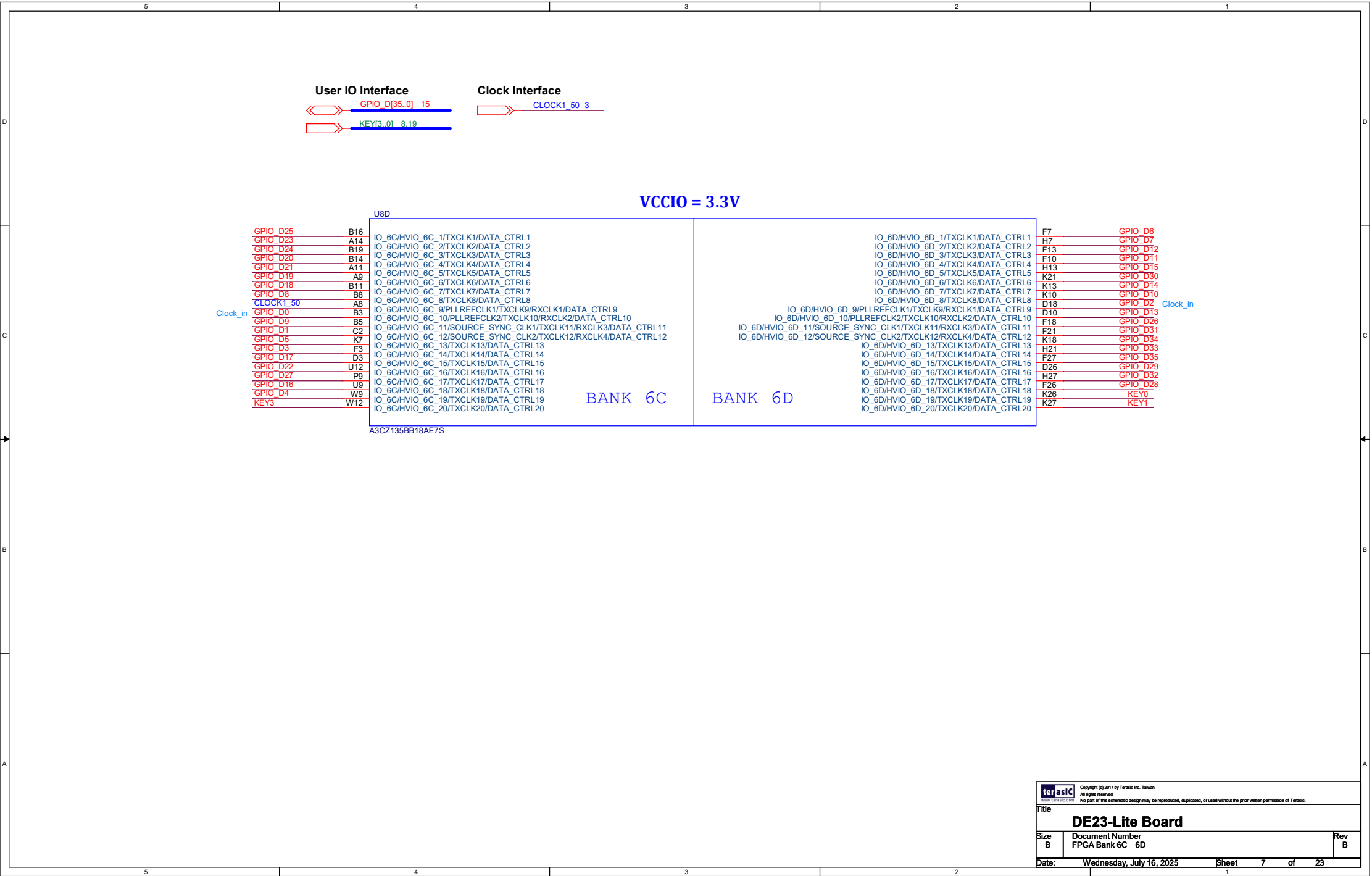
I/O Lane 5

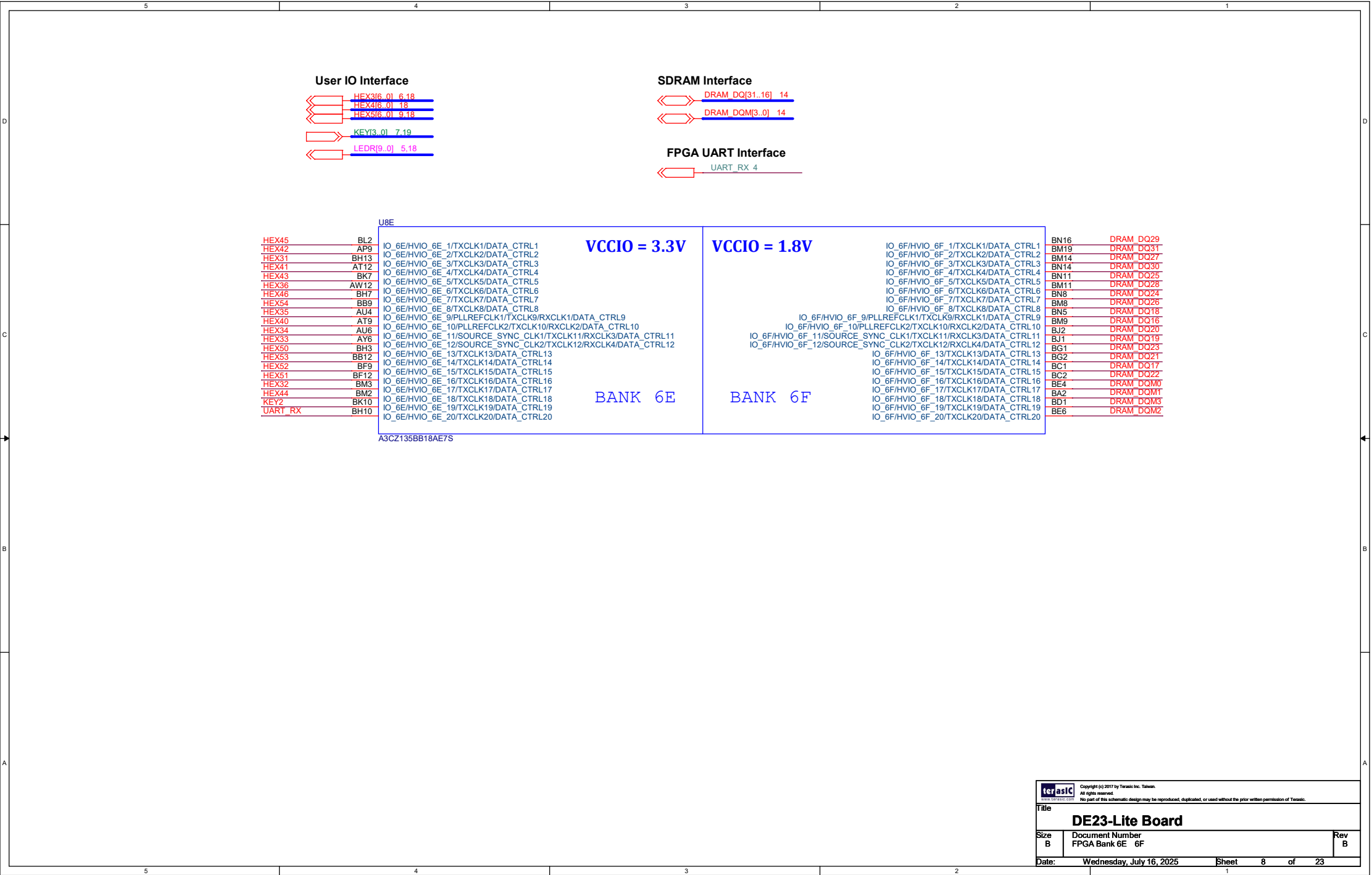
I/O Lane 4

F32	LEDR3
D32	SW8
K32	SW4
K35	LEDR2
F35	HEX24
F35	HEX21
F40	HEX20
D40	LEDR9
H43	HEX20
F43	CAM_RZQ1
K40	HEX11
K43	CLOCK0_50
G51	HEX02
G52	HEX16
J52	HEX03
J51	HEX01
M52	HEX05
L51	HEX00
N52	HEX12
M51	HEX04
V52	HEX15
V51	HEX13
R52	HEX14
R51	HEX06

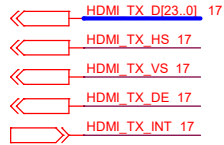




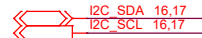




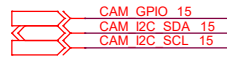
HDMI TX Interface



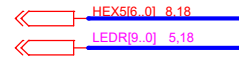
FPGA I2C Interface



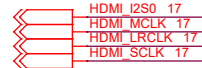
MIPI Camera Interface



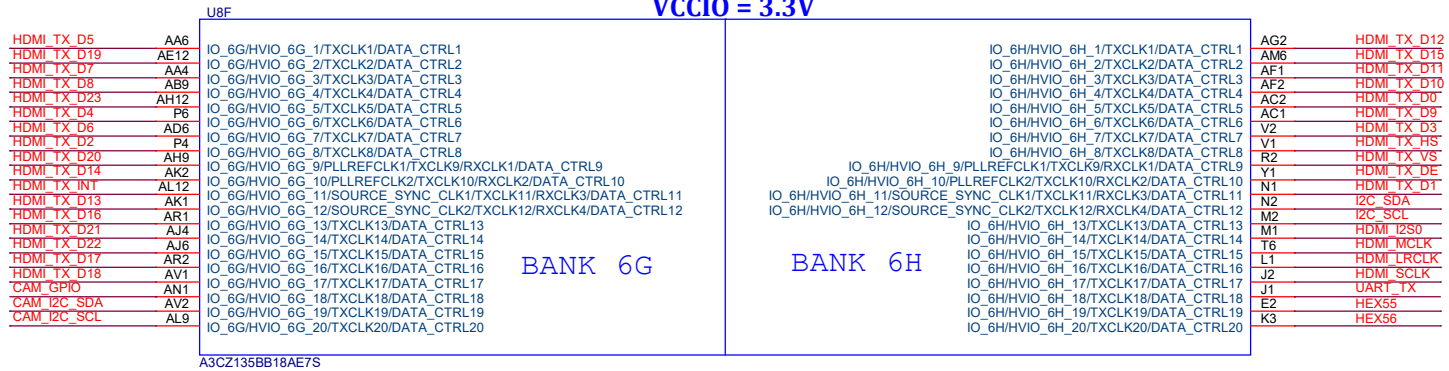
User IO Interface



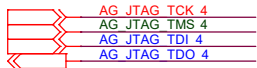
HDMI Audio Interface



FPGA UART Interface

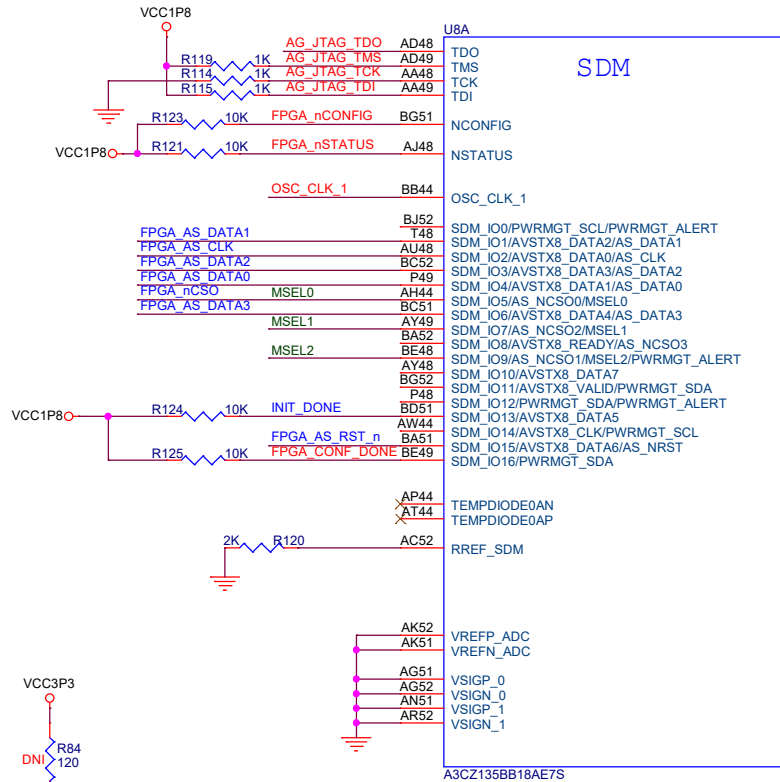
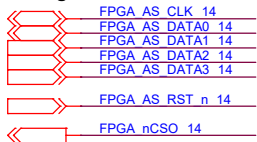


Agilex JTAG Interface

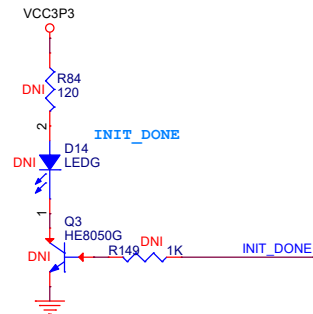
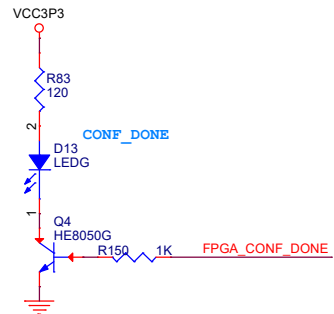
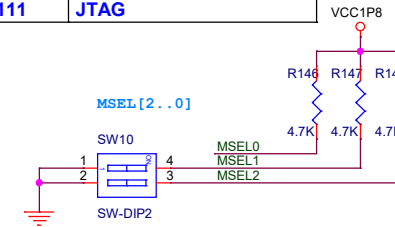


OSC_CLK_1_3

FPGA AS Configuration



MSEL[2:0]	Configuration Mode
001	AS - Fast (Default Setting)
111	JTAG



FPGA GND

U8G

AR51
AC51
AF52
U38
P38
U36
W44
P41
AW25
Y52
Y2
W38
W30
W17
U41
U28
U15
T49
T4
R1
P36
P23
P12
N51
L52
L2
H46
H40
H32
H3
H26
H18
H10
E1
D7
D50
D43
D35
D27
B31
B22
B2
AY4
AW9
AW36
AW28
AW20
AV51
AU49
AT38
AT30
AT15
AP41
AP33
AP25
AP17
AP12
AN52
AN2
AM4
AL44
AL36
AL28
AL20
AB36

A3CZ135BB18AE7S

GND_AR51
GND_AC51
GND_AF52
GND_U38
GND_P38
GND_U36
GND_W44
GND_P41
GND_AW25
GND_Y52
GND_Y2
GND_W38
GND_W30
GND_W17
GND_U41
GND_U28
GND_U15
GND_T49
GND_T4
GND_R1
GND_P36
GND_P23
GND_P12
GND_N51
GND_L52
GND_L2
GND_H46
GND_H40
GND_H32
GND_H3
GND_H26
GND_H18
GND_H10
GND_E1
GND_D7
GND_D50
GND_D43
GND_D35
GND_D27
GND_B31
GND_B22
GND_B2
GND_AY4
GND_AW9
GND_AW36
GND_AW28
GND_AW20
GND_AV51
GND_AU49
GND_AT38
GND_AT30
GND_AT15
GND_AP41
GND_AP33
GND_AP25
GND_AP17
GND_AP12
GND_AN52
GND_AN2
GND_AM4
GND_AL44
GND_AL36
GND_AL28
GND_AL20
GND_AB36

GND_AJ49
GND_AH41
GND_AH30
GND_AH23
GND_AH15
GND_AG1
GND_AF51
GND_AF51
GND_AE9
GND_AE33
GND_AE25
GND_AE17
GND_AD4
GND_AB41
GND_D21
GND_D13
GND_C52
GND_C1
GND_BN9
GND_BN51
GND_BN50
GND_BN44
GND_BN31
GND_BN3
GND_BN22
GND_BN2
GND_BM52
GND_BM5
GND_BM39
GND_BM27
GND_BM16
GND_BM1
GND_BL52
GND_BL1
GND_BK46
GND_BK43
GND_BK35
GND_BK3
GND_BK27
GND_BK21
GND_BK13
GND_BJ51
GND_BF44
GND_BF30
GND_BF20
GND_BD52
GND_BD2
GND_BB41
GND_BB33
GND_BB25
GND_BB17
GND_BA1
GND_B9
GND_B52
GND_B44
GND_AB28
GND_AB20
GND_AB12
GND_AB12
GND_A51
GND_A50
GND_A5
GND_A39
GND_A3
GND_A27
GND_A16

AJ49
AH41
AH30
AH23
AH15
AG1
AF51
AE9
AE33
AE25
AE17
AD4
AB41
D21
D13
C52
C1
BN9
BN51
BN50
BN44
BN31
BN3
BN22
BN2
BM52
BM5
BM39
BM27
BM16
BM1
BL52
BL1
BK46
BK43
BK35
BK3
BK27
BK21
BK13
BJ51
BF44
BF30
BF20
BD52
BD2
BB41
BB33
BB25
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A16

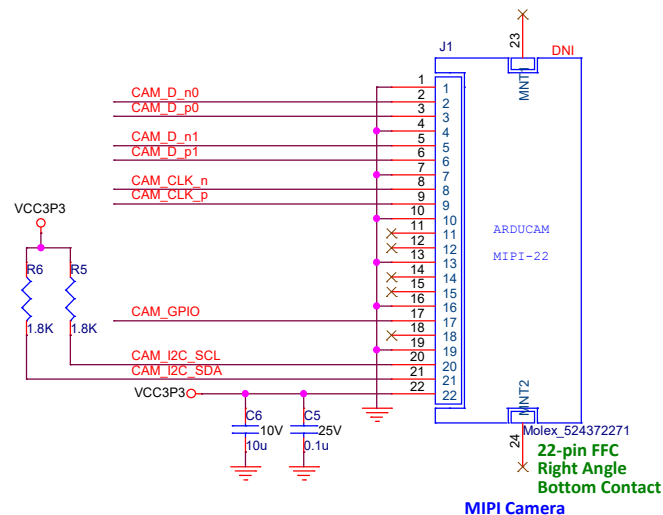
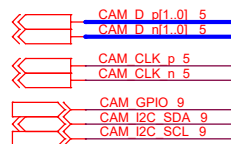
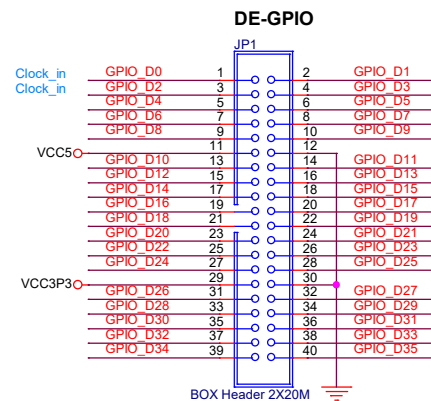
DNU pins

U8J

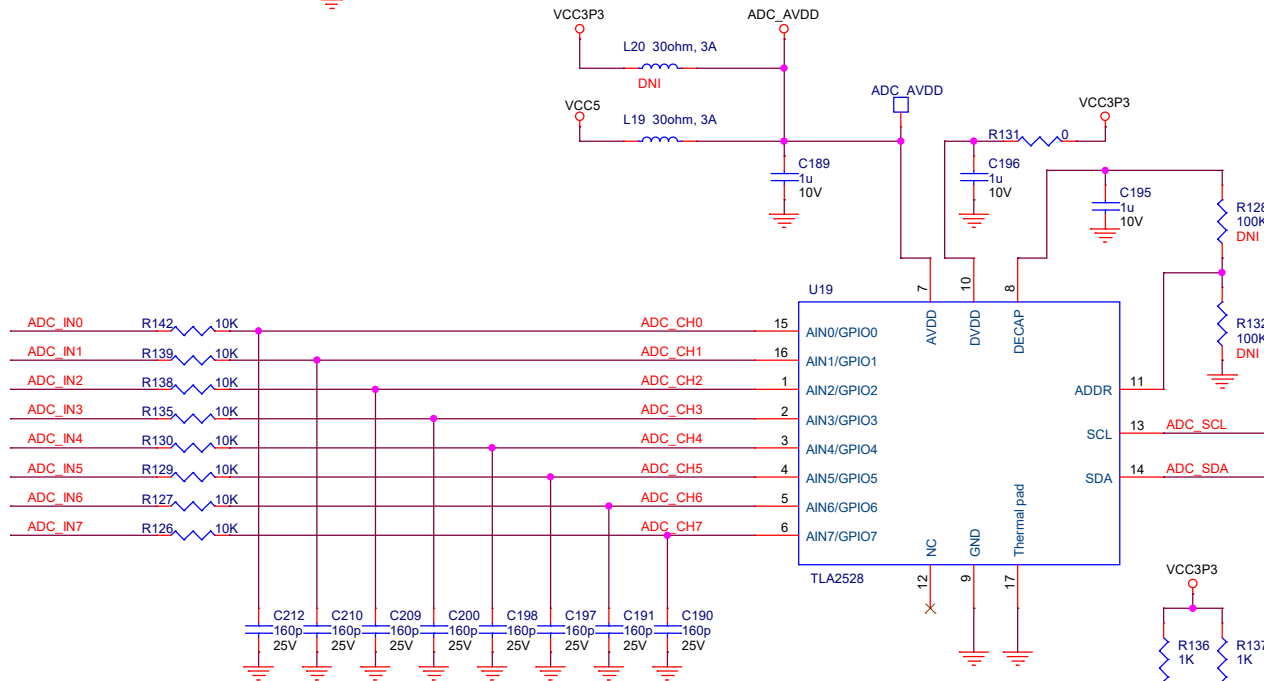
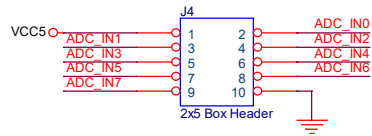
AV52
Y51
AM49
AM48
BF28
D46
F46
F50
H50
K50
K46
C51
P33
BF38
BB23
P30
AT23
AB23
BF33
BF25
U23
BF36
BF23
P20

DNU_AV52
DNU_Y51
DNU_AM49
DNU_AM48
DNU_BF28
DNU_D46
DNU_F46
DNU_F50
DNU_H50
DNU_K50
DNU_K46
DNU_C51
DNU_P33
DNU_BF38
DNU_BB23
DNU_P30
DNU_AT23
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DNU_BF36
DNU_BF23
DNU_P20

A3CZ135BB18AE7S



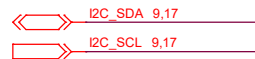
Note: Connector DNI for Z code FPGA



R128	R132	ADDRESS
0Ω	DNP	001 0111b(17h)
11kΩ	DNP	001 0110b(16h)
33kΩ	DNP	001 0101b(15h)
100kΩ	DNP	001 0100b(14h)
DNP	DNP	001 0000b(10h)
DNP	11kΩ	001 0001b(11h)
DNP	33kΩ	001 0010b(12h)
DNP	100kΩ	001 0011b(13h)

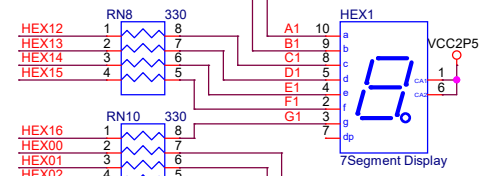
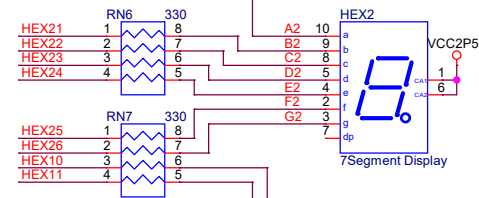
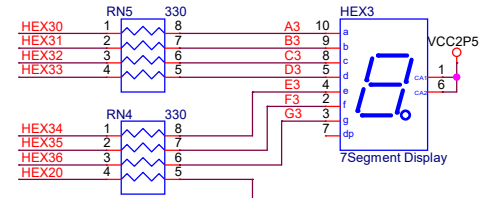
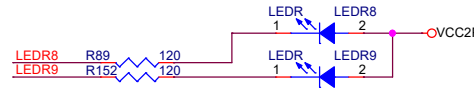
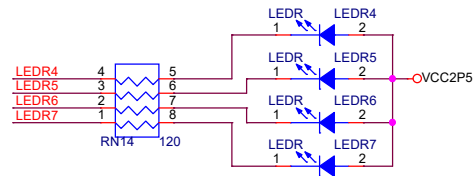
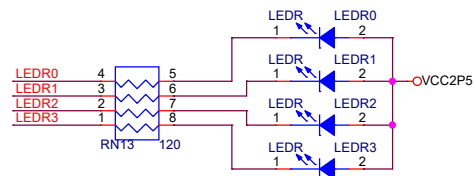
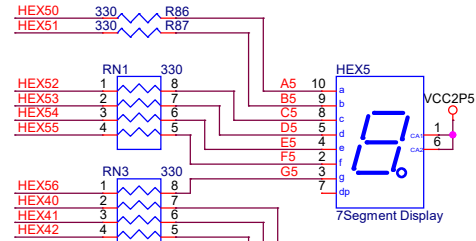
Default :
I2C Address 0x20/0x21

I2C Interface



HEX0[6..0] 5
 HEX1[6..0] 5
 HEX2[6..0] 5,6
 HEX3[6..0] 6,8
 HEX4[6..0] 8
 HEX5[6..0] 8,9

LED[9..0] 5



KEY13..01_7.8
SW19..01_5

