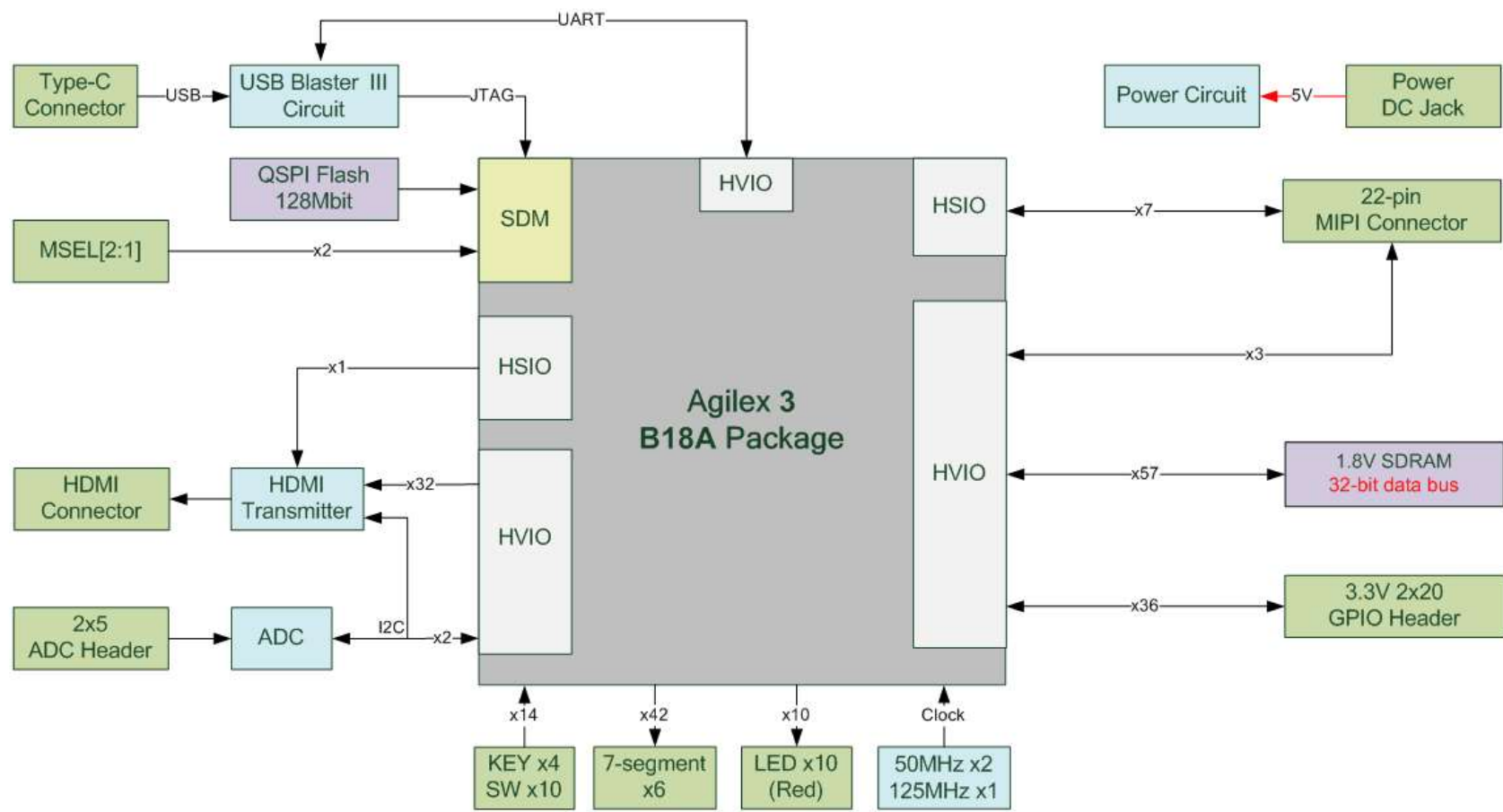
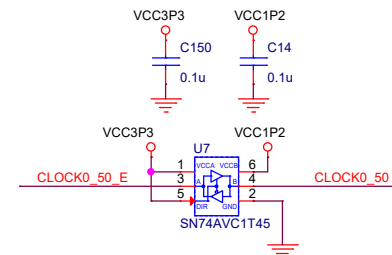
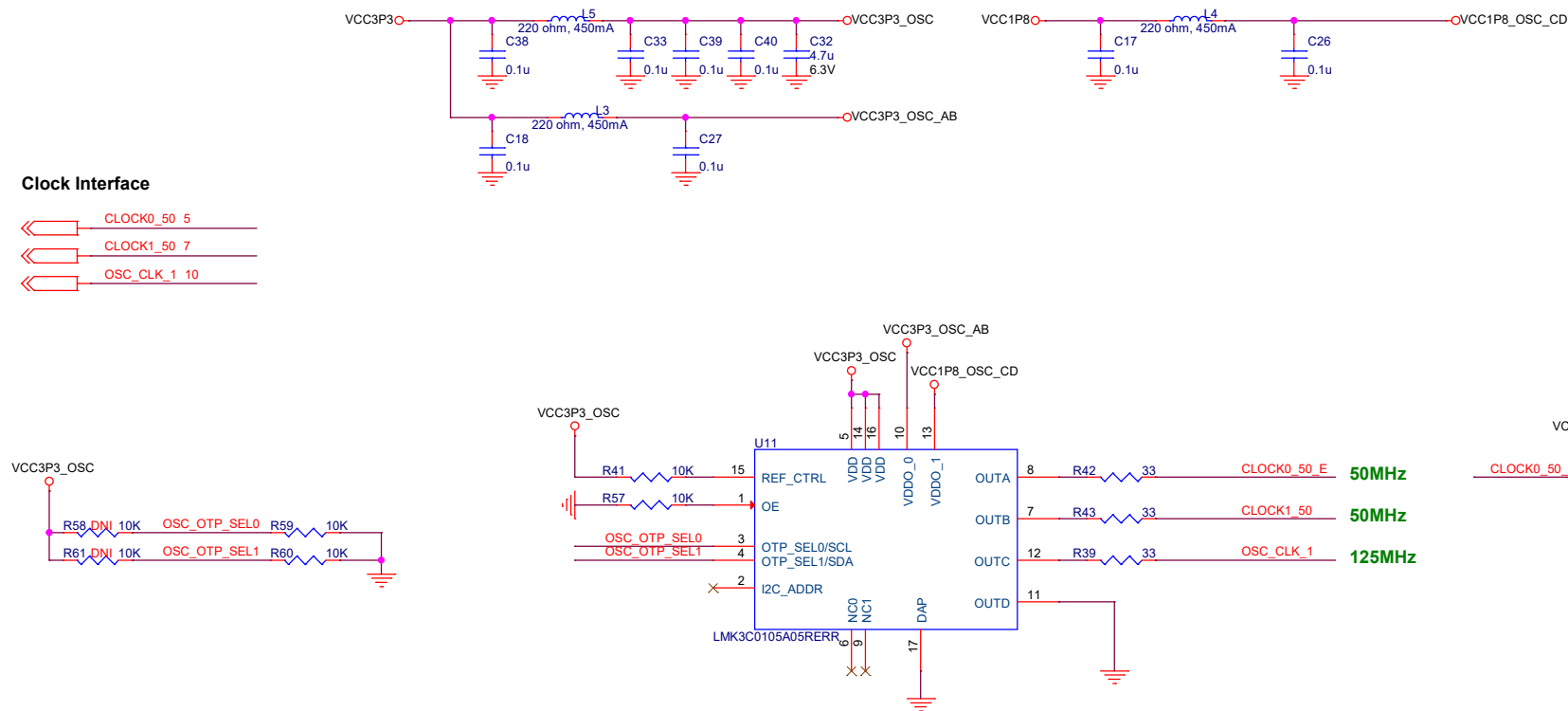
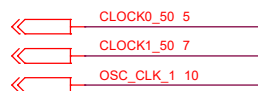


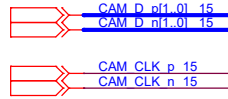
Block Diagram



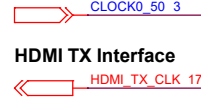
Clock Interface



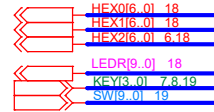
MIPI Camera Interface



Clock Interface



User IO Interface



VCCIO = 1.2V

BANK 3AT

HDMI_TX_CLK	A22	IO_3A_T/IOB/DIFF_IO_3A_T1N/NO/95
LED[4]	A19	IO_3A_T/IOB/DIFF_IO_3A_T1P/NO/94
LED[5]	B24	IO_3A_T/IOB/DIFF_IO_3A_T2N/NO/93
LED[6]	A24	IO_3A_T/IOB/DIFF_IO_3A_T2P/NO/92
SW[2]	B26	IO_3A_T/IOB/DIFF_IO_3A_T3N/NO/91
SW[5]	A26	IO_3A_T/IOB/AVST_READY/DIFF_IO_3A_T3P/NO/90
SW[6]	B27	IO_3A_T/IOB/DIFF_IO_3A_T4N/NO/89
SW[7]	A29	IO_3A_T/IOB/DIFF_IO_3A_T4P/NO/88
LED[8]	B34	IO_3A_T/IOB/DIFF_IO_3A_T5N/YES/87
SW[9]	A34	IO_3A_T/IOB/DIFF_IO_3A_T5P/YES/86
HEX[22]	A31	IO_3A_T/IOB/DIFF_IO_3A_T6N/NO/85
HEX[23]	B29	IO_3A_T/IOB/DIFF_IO_3A_T6P/NO/84
SW[0]	A37	IO_3A_T/IOB/AVST_DATA[10]/DIFF_IO_3A_T7N/NO/83
SW[1]	B37	IO_3A_T/IOB/AVST_DATA[9]/DIFF_IO_3A_T7P/NO/82
SW[3]	A42	IO_3A_T/IOB/AVST_DATA[8]/DIFF_IO_3A_T8N/NO/81
LED[0]	B39	IO_3A_T/IOB/AVST_VALID/DIFF_IO_3A_T8P/NO/80
LED[7]	A44	IO_3A_T/IOB/AVST_DATA[7]/DIFF_IO_3A_T9N/NO/79
LED[1]	B42	IO_3A_T/IOB/AVST_DATA[6]/DIFF_IO_3A_T9P/NO/78
CAM_CLK_n	A45	IO_3A_T/IOB/AVST_DATA[5]/DIFF_IO_3A_T10N/NO/77
CAM_CLK_p	B45	IO_3A_T/IOB/AVST_DATA[4]/DIFF_IO_3A_T10P/NO/76
CAM_D_n1	B51	IO_3A_T/IOB/AVST_DATA[3]/DIFF_IO_3A_T11N/YES/75
CAM_D_p1	B50	IO_3A_T/IOB/AVST_DATA[2]/DIFF_IO_3A_T11P/YES/74
CAM_D_n0	A47	IO_3A_T/IOB/AVST_DATA[1]/DIFF_IO_3A_T12N/NO/73
CAM_D_p0	B47	IO_3A_T/IOB/AVST_DATA[0]/DIFF_IO_3A_T12P/NO/72

I/O Lane 7

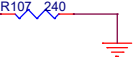
I/O Lane 6

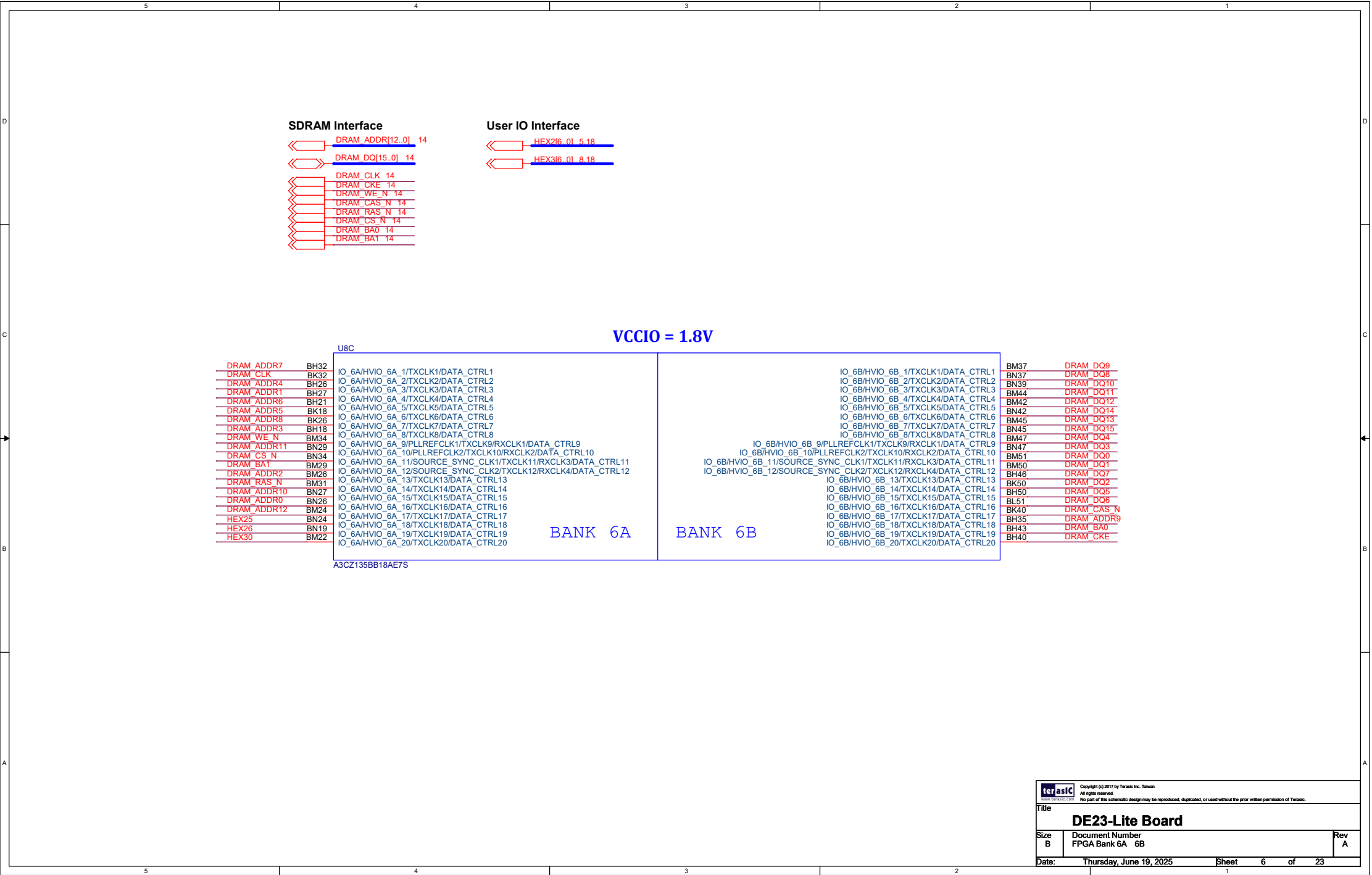
I/O Lane 5

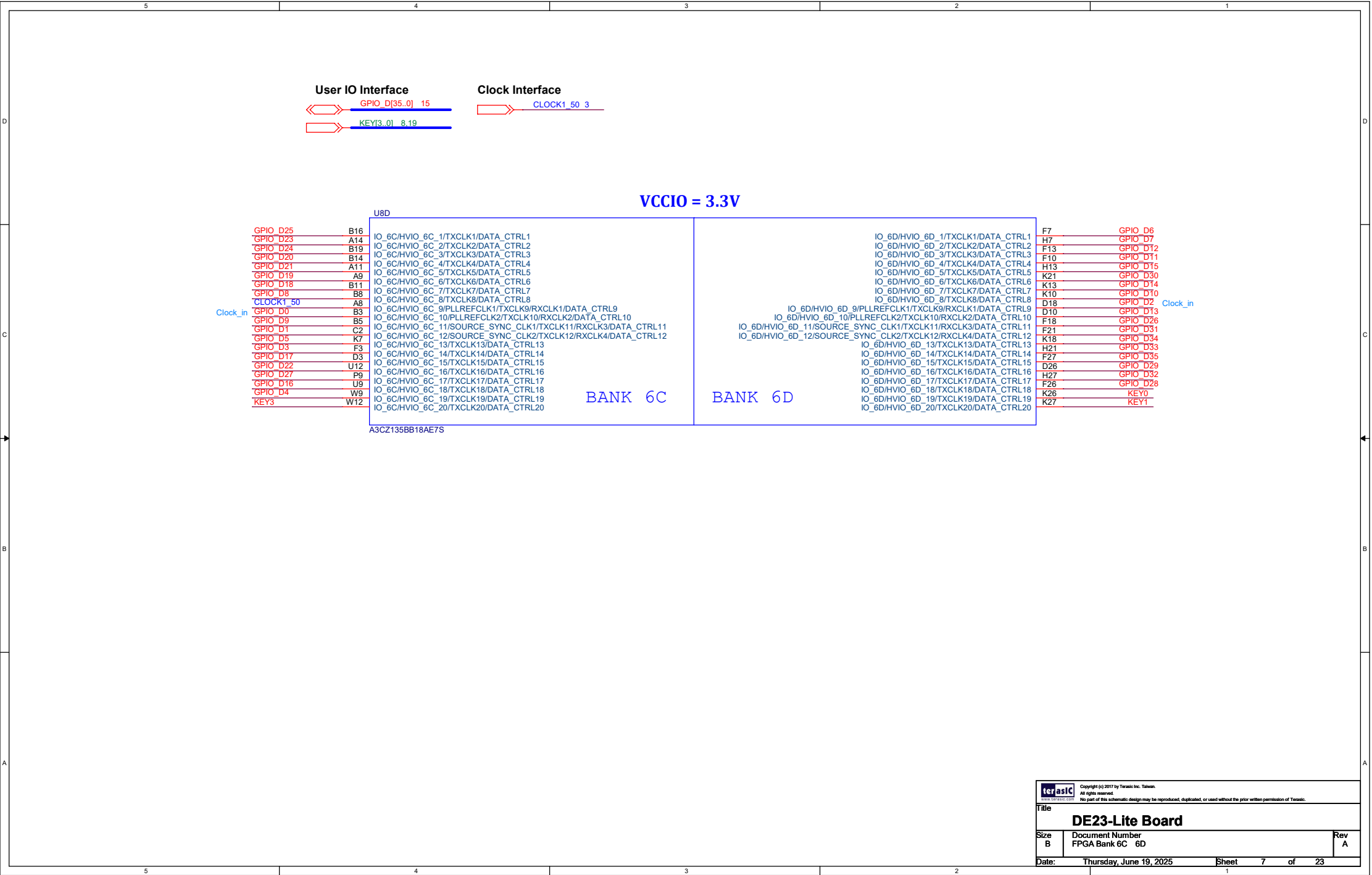
I/O Lane 4

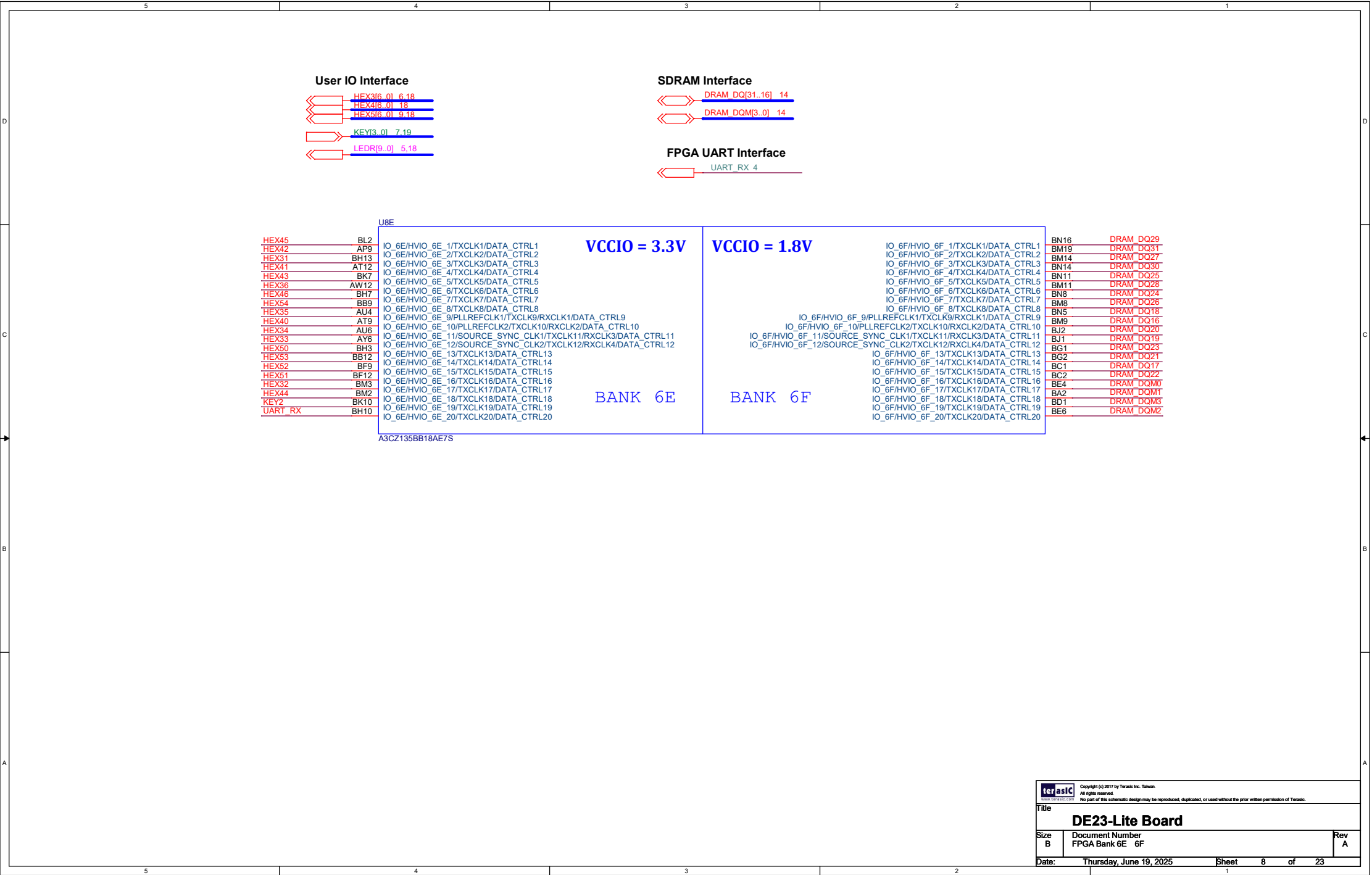
IO_3A_T/IOB/DIFF_IO_3A_T13N/NO/71
IO_3A_T/IOB/DIFF_IO_3A_T13P/NO/70
IO_3A_T/IOB/DIFF_IO_3A_T14N/NO/69
IO_3A_T/IOB/DIFF_IO_3A_T14P/NO/68
IO_3A_T/IOB/DIFF_IO_3A_T15N/NO/67
IO_3A_T/IOB/DIFF_IO_3A_T15P/NO/66
IO_3A_T/IOB/PLL_3A_T_CLKOUT1N/DIFF_IO_3A_T16N/NO/65
IO_3A_T/IOB/PLL_3A_T_CLKOUT1P/PLL_3A_T_FB1/DIFF_IO_3A_T16P/NO/64
IO_3A_T/IOB/RZQ_T_3A/DIFF_IO_3A_T17N/YES/63
IO_3A_T/IOB/CLK_T_3A_1N/DIFF_IO_3A_T17P/YES/62
IO_3A_T/IOB/CLK_T_3A_1P/DIFF_IO_3A_T18P/NO/61
IO_3A_T/IOB/CLK_T_3A_0N/DIFF_IO_3A_T18N/NO/60
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_FB0/DIFF_IO_3A_T21P/NO/54
IO_3A_T/IOB/AVST_CLK/DIFF_IO_3A_T22N/NO/53
IO_3A_T/IOB/AVST_DATA[15]/DIFF_IO_3A_T22P/NO/52
IO_3A_T/IOB/AVST_DATA[14]/DIFF_IO_3A_T23N/YES/51
IO_3A_T/IOB/AVST_DATA[13]/DIFF_IO_3A_T23P/YES/50
IO_3A_T/IOB/AVST_DATA[12]/DIFF_IO_3A_T24N/NO/49
IO_3A_T/IOB/AVST_DATA[11]/DIFF_IO_3A_T24P/NO/48

F32	LED[3]
D32	SW[8]
K32	SW[4]
K35	LED[2]
F35	HEX[24]
F35	HEX[21]
F40	HEX[10]
D40	LED[9]
H43	HEX[20]
F43	CAM_RZQ1
K40	HEX[11]
K43	CLOCK0_50
G51	HEX[02]
G52	HEX[16]
J52	HEX[03]
J51	HEX[01]
M52	HEX[05]
L51	HEX[00]
N52	HEX[12]
M51	HEX[04]
V52	HEX[15]
V51	HEX[13]
R52	HEX[14]
R51	HEX[06]

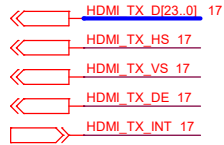




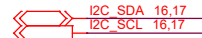




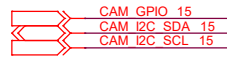
HDMI TX Interface



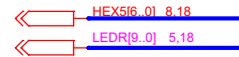
FPGA I2C Interface



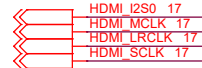
MIPI Camera Interface



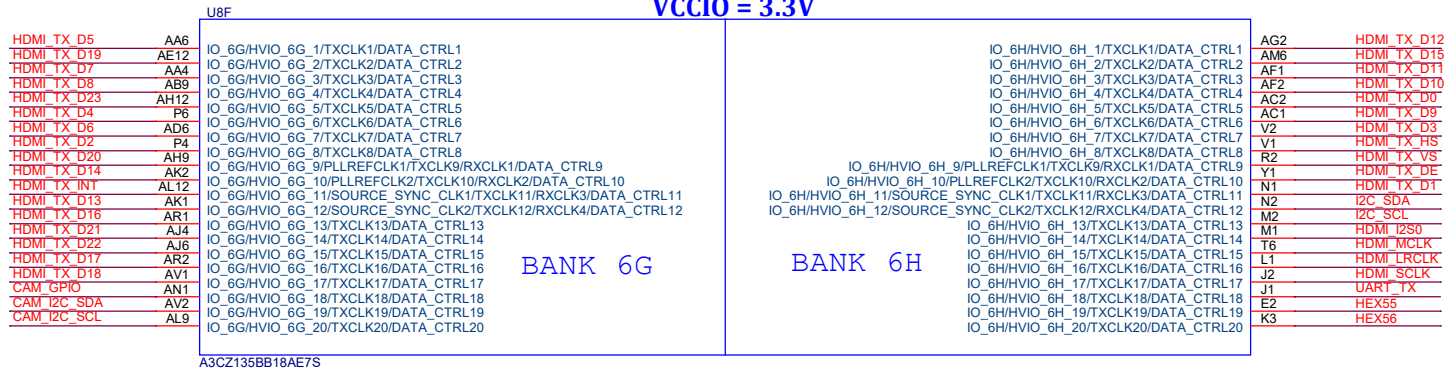
User IO Interface



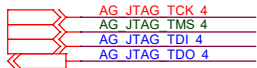
HDMI Audio Interface



FPGA UART Interface

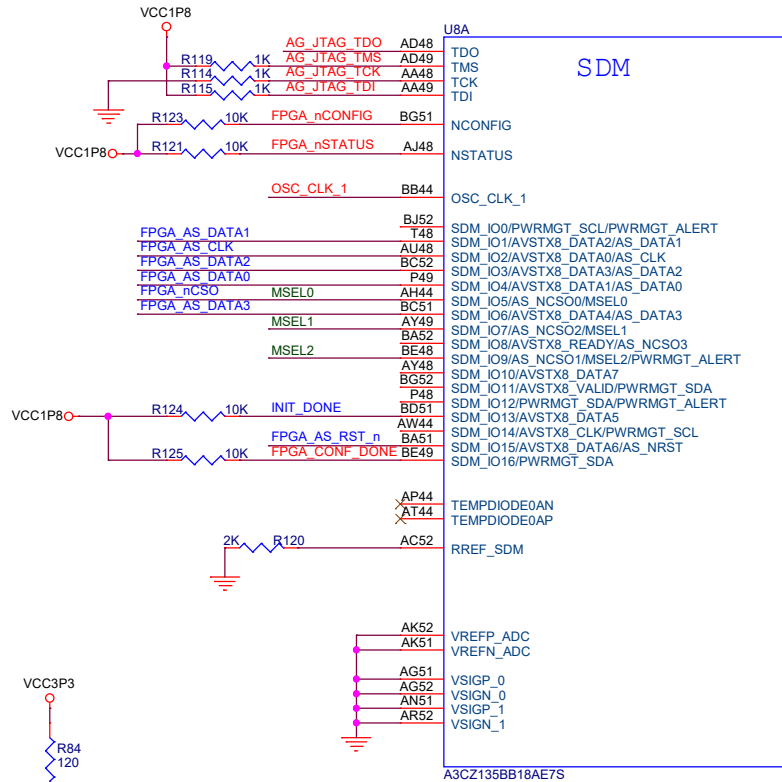
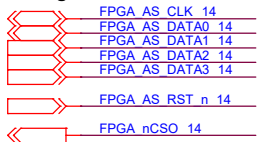


Agilex JTAG Interface

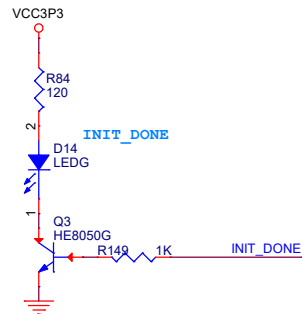
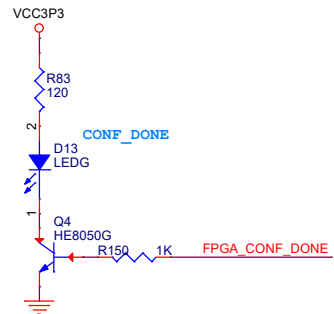
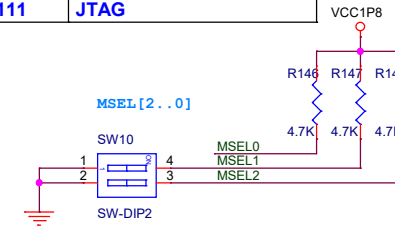


OSC_CLK_1_3

FPGA AS Configuration

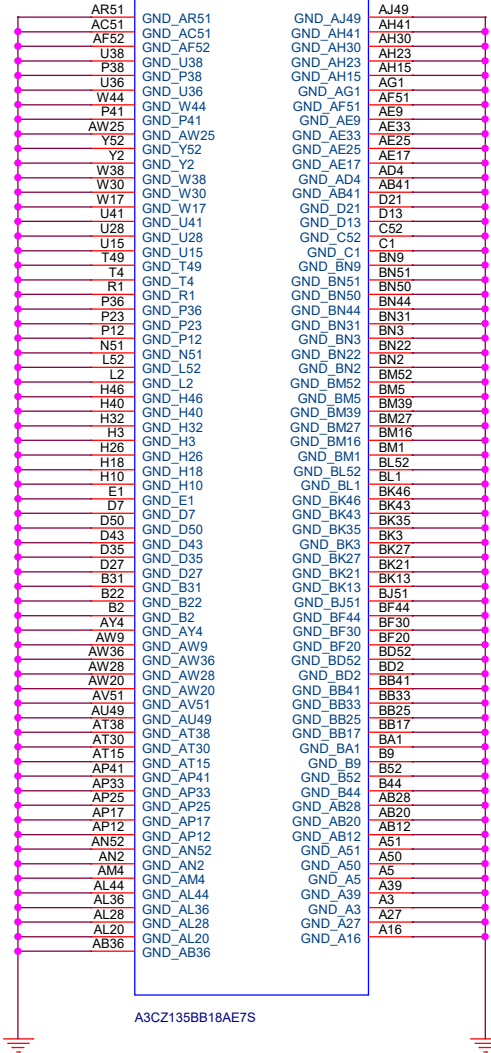


MSEL[2:0]	Configuration Mode
001	AS - Fast (Default Setting)
111	JTAG



FPGA GND

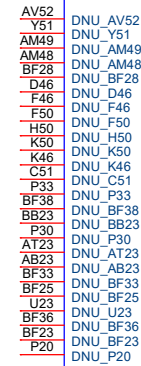
U8G



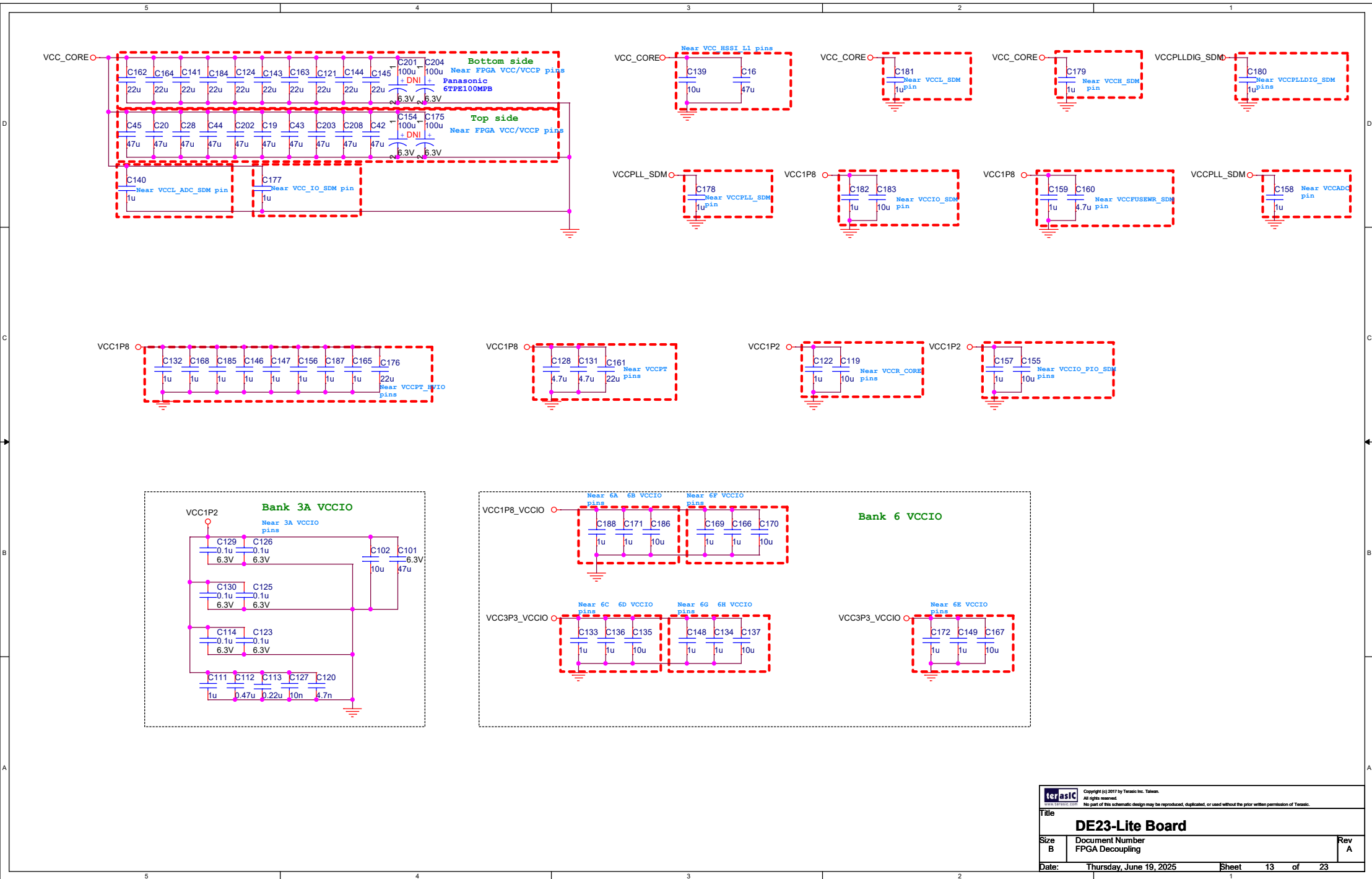
A3CZ135BB18AE7S

DNU pins

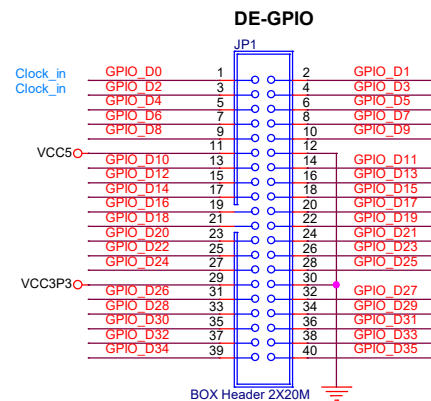
U8J



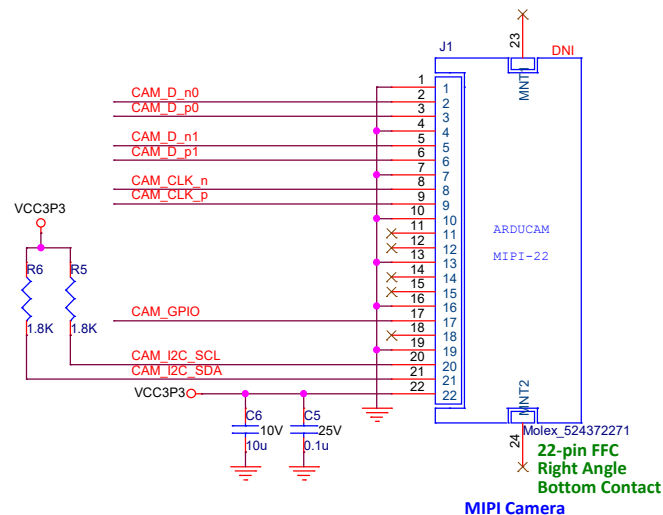
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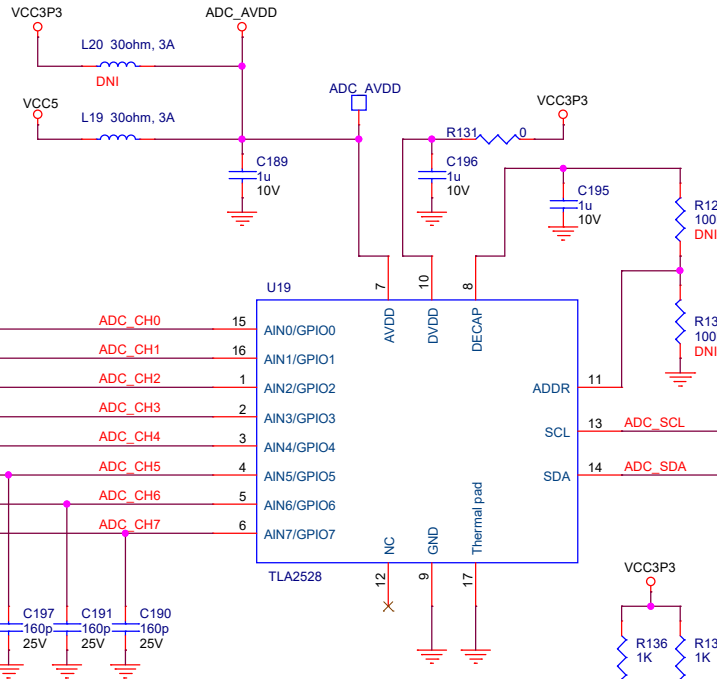
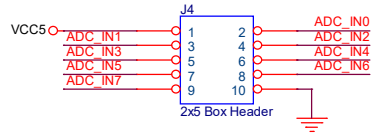
GPIO
GPIO_D[35..0] 7



CAM_D_p[1..0] 5
CAM_D_n[1..0] 5
CAM_CLK_p 5
CAM_CLK_n 5
CAM_GPIO_9
CAM_I2C_SDA_9
CAM_I2C_SCL_9

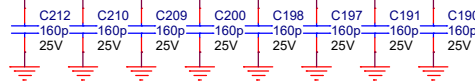
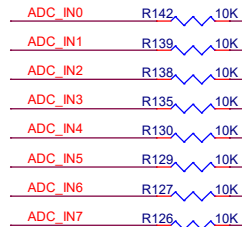


Note: Connector DNI for Z code FPGA

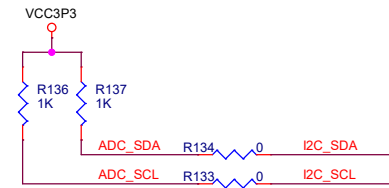
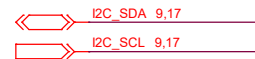


R128	R132	ADDRESS
0Ω	DNP	001 0111b(17h)
11kΩ	DNP	001 0110b(16h)
33kΩ	DNP	001 0101b(15h)
100kΩ	DNP	001 0100b(14h)
DNP	DNP	001 0000b(10h)
DNP	11kΩ	001 0001b(11h)
DNP	33kΩ	001 0010b(12h)
DNP	100kΩ	001 0011b(13h)

Default :
I2C Address 0x20/0x21

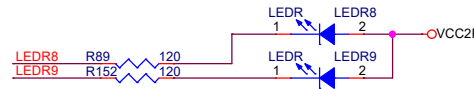
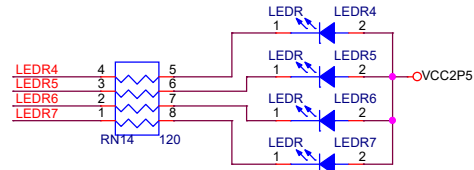
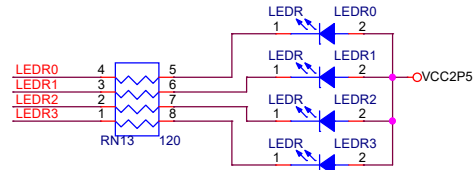
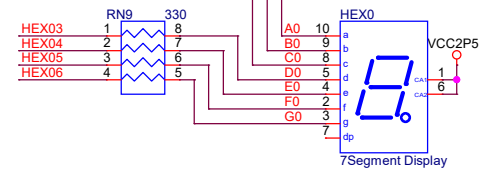
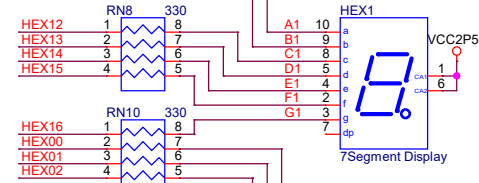
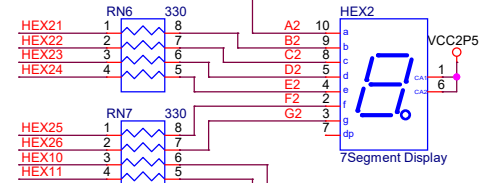
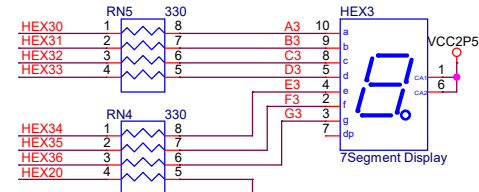
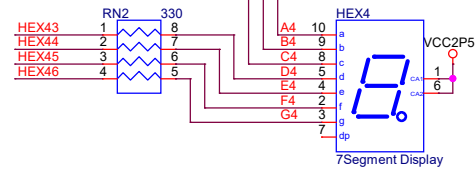
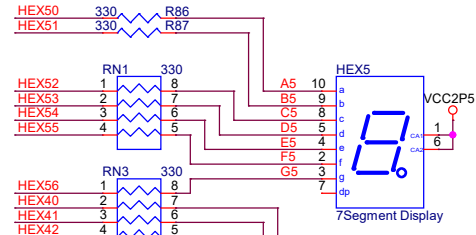


I2C Interface



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

