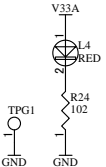
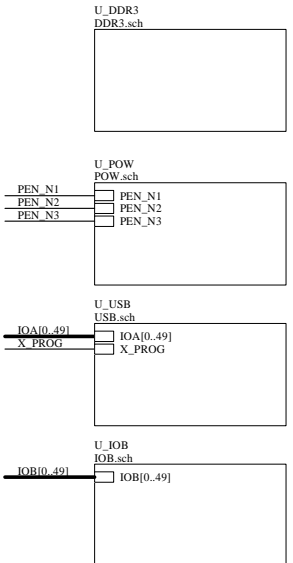
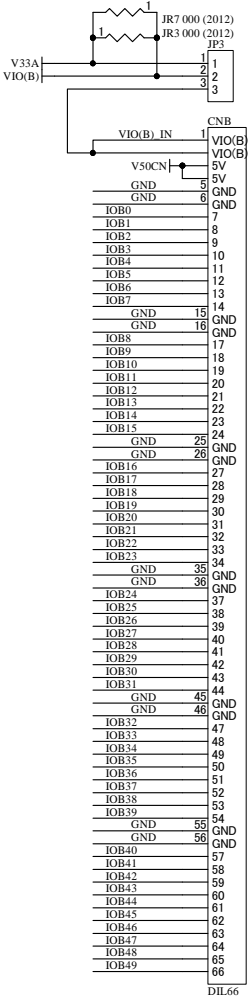


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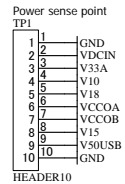
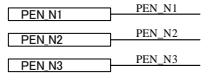
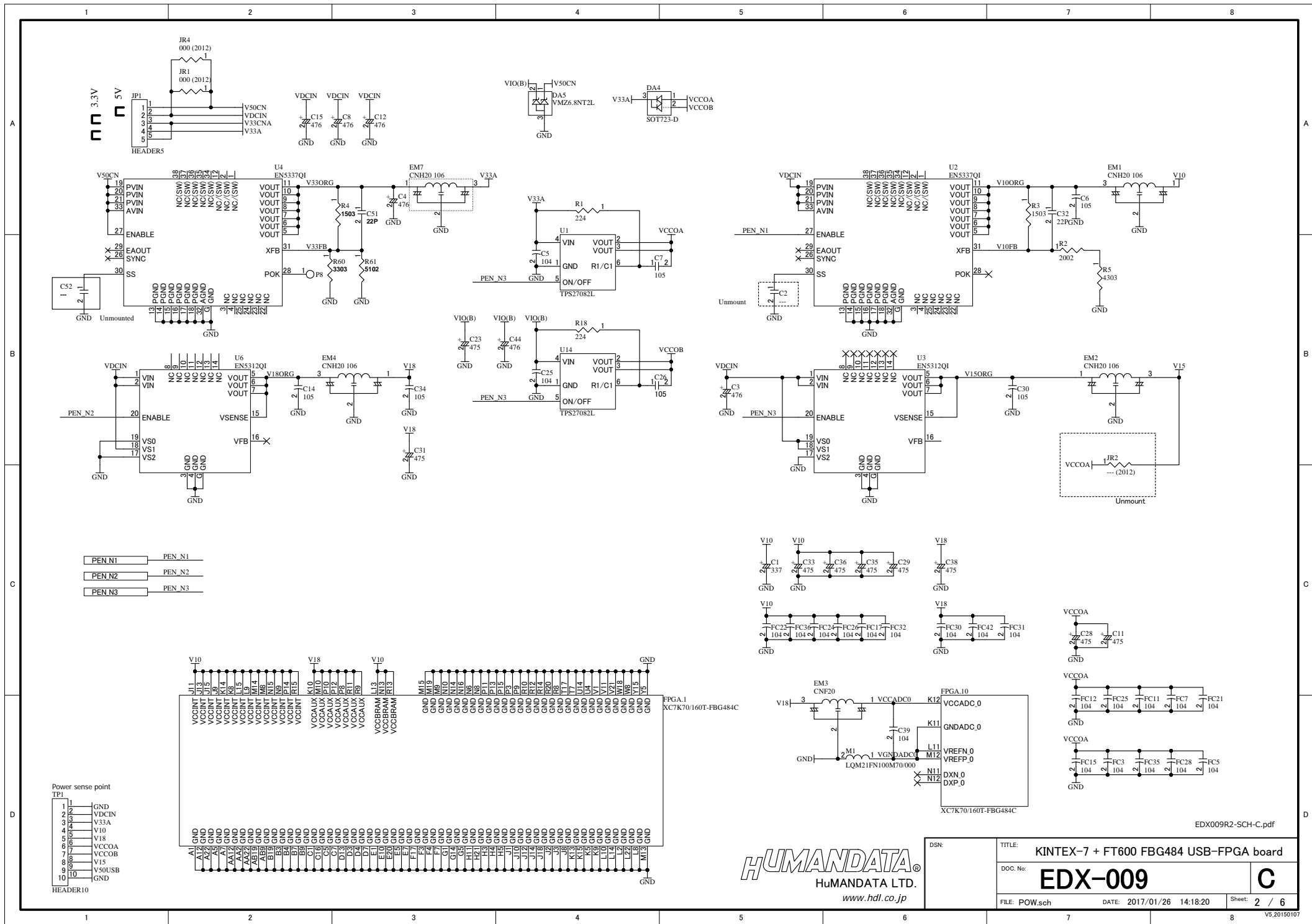
V33CNA1	3V3
V33CNA2	3V3
V50CN1	5V
GND	5V
GND	6
IOA0	7
IOA1	8
IOA2	9
IOA3	10
IOA4	11
IOA5	12
IOA6	13
IOA7	14
GND	15
GND	16
IOA8	17
IOA9	18
IOA10	19
IOA11	20
IOA12	21
IOA13	22
IOA14	23
IOA15	24
GND	25
GND	26
IOA16	27
IOA17	28
IOA18	29
IOA19	30
IOA20	31
IOA21	32
IOA22	33
IOA23	34
GND	35
GND	36
IOA24	37
IOA25	38
IOA26	39
IOA27	40
IOA28	41
IOA29	42
IOA30	43
IOA31	44
GND	45
GND	46
IOA32	47
IOA33	48
IOA34	49
IOA35	50
IOA36	51
IOA37	52
IOA38	53
IOA39	54
GND	55
GND	56
IOA40	57
IOA41	58
IOA42	59
IOA43	60
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IOA45	62
IOA46	63
IOA47	64
IOA48	65
IOA49	66



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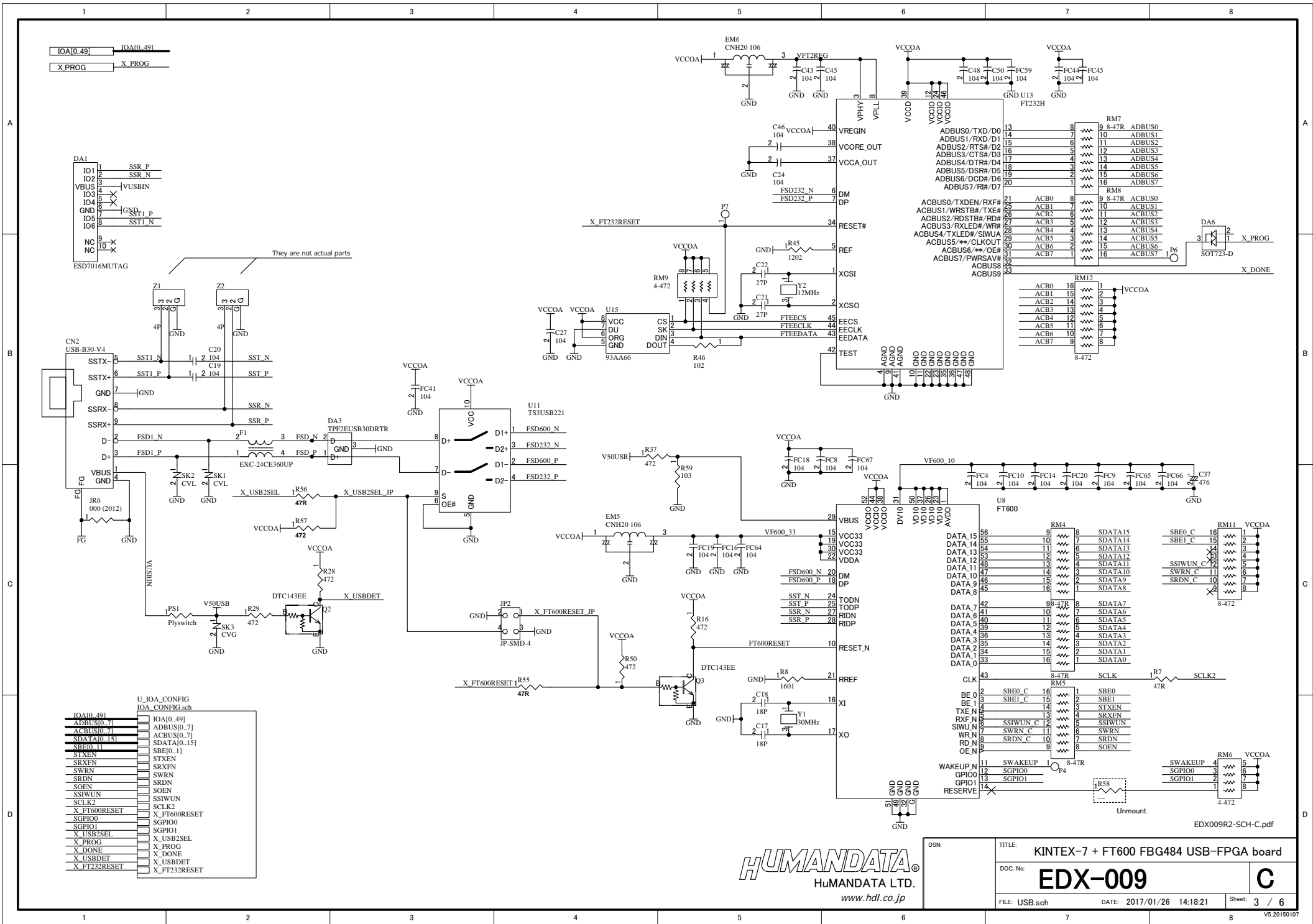
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IOA[0..49] X PROG

DA1  
IO1 SSR P  
IO2 SSR N  
VBUS |VUSBIN  
IO3  
IO4  
IO5  
IO6  
GND  
IO7 GND T1 P  
IO8 SSI1 N  
NC  
IO9 X  
IO10 X

ESD7016MUTAG

CN2 USB-B30-V4  
SSTX- 5  
SSTX+ 6  
GND 7  
SSRX- 8  
SSRX+ 9  
D- 10  
D+ 11  
VBUS 12  
GND 13

U\_JOA\_CONFIG IOA\_CONFIG.sch

IOA[0..49]	IOA[0..49]
ADBUS0[..7]	ADBUS0[..7]
ACBUS0[..7]	ACBUS0[..7]
SDATA[0..15]	SDATA[0..15]
SBE[0..1]	SBE[0..1]
STXEN	STXEN
SRXFN	SRXFN
SWRN	SWRN
SRDN	SRDN
SOEN	SOEN
SSIWUN	SSIWUN
SCLK2	SCLK2
X_FT600RESET	X_FT600RESET
SGPI0	SGPI0
SGPI1	SGPI1
X_USB2SEL	X_USB2SEL
X_PROG	X_PROG
X_DONE	X_DONE
X_USBDDET	X_USBDDET
X_FT232RESET	X_FT232RESET

DSN: TITLE: KINTEX-7 + FT600 FBG484 USB-FPGA board

DOC. No: EDX-009

FILE: USB.sch DATE: 2017/01/26 14:18:21 Sheet: 3 / 6



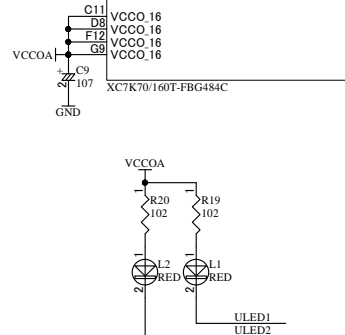
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# BANK Group A

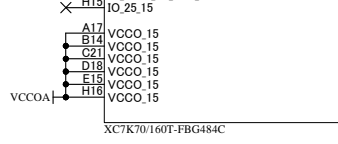
IOA[0..49]	IOA[0..49]
ADBUS[0..7]	ADBUS[0..7]
ACBUS[0..7]	ACBUS[0..7]
SDATA[0..15]	SDATA[0..15]
SBE[0..1]	SBE[0..1]
SRXFN	SRXFN
SRXFN	SRXFN
SWRN	SWRN
SRDN	SRDN
SOEN	SOEN
SSIWUN	SSIWUN
SCLK2	SCLK2
SGPIO0	SGPIO0
SGPIO1	SGPIO1

X FT600RESET	X FT600RESET
X FT232RESET	X FT232RESET
X USBDET	X USBDET
X PROG	X PROG
X DONE	X DONE
X USB2SEL	X USB2SEL

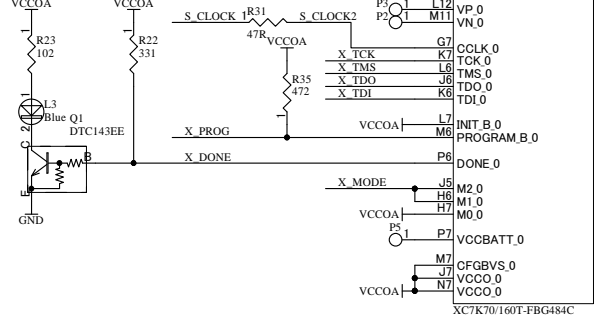
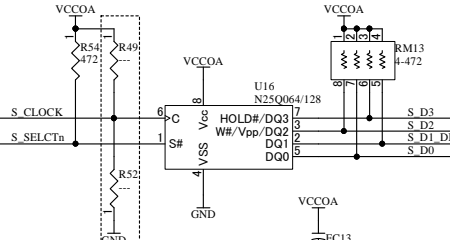
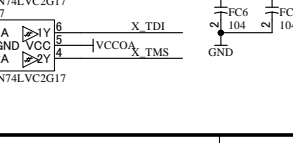
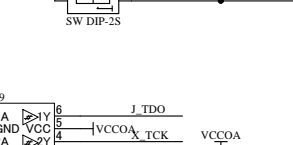
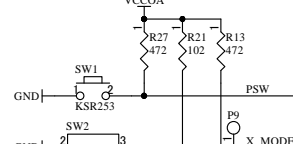
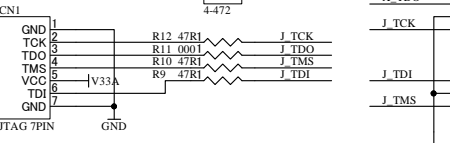
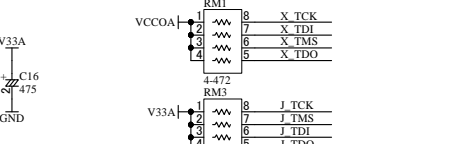
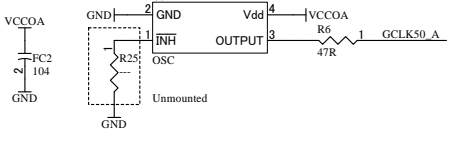
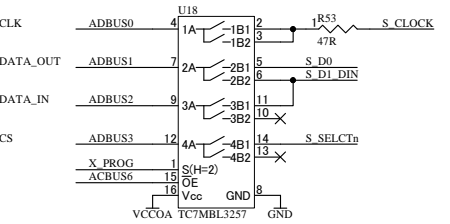
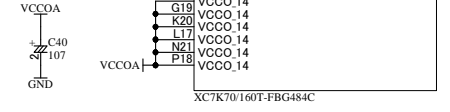
X USBDET	F14	IO 8 T0 VREF.16
X USB2SEL	D10	IO L7P T1.16
ASW	C10	IO L7N T1.16
	G13	IO L8P T1.16
	H14	IO L8N T1.16
	H13	IO L9P T1 DQS.16
	E13	IO L9N T1 DQS.16
	E12	IO L10P T1.16
	F11	IO L10N T1.16
	F10	IO L11P T1 SRCC.16
	E11	IO L11N T1 SRCC.16
X FT232RESET	D11	IO L12P T1 MRCC.16
	G11	IO L12N T1 MRCC.16
	G10	IO L13P T2 MRCC.16
	H12	IO L13N T2 MRCC.16
	G12	IO L14P T2 SRCC.16
	F12	IO L14N T2 SRCC.16
	E9	IO L15P T2 DQS.16
	H9	IO L15N T2 DQS.16
	H8	IO L16N T2.16
PSW	G8	IO L17P T2.16
X FT600RESET	F8	IO L17N T2.16
	D9	IO L18P T3.16
	C9	IO L18N T3 VREF.16
	B11	IO L19P T3.16
	B10	IO L19N T3 VREF.16
	A9	IO L20N T3.16
	A8	IO L21P T3 DQS.16
	B8	IO L21N T3 DQS.16
	C8	IO L22P T3.16
	A11	IO L22N T3.16
	A10	IO L23P T3.16
	E8	IO L23N T3.16
	E8	IO 24 T3.16



IOA43	D12	IO 0.15
IOA42	G15	IO L1P T0 AD0P.15
	C12	IO L1N T0 AD0N.15
	F16	IO L2P T0 AD0P.15
	F15	IO L2N T0 AD0N.15
	E15	IO L3P T0 DQS AD1P.15
	D15	IO L3N T0 DQS AD1N.15
IOA24	A16	IO L4P T0 AD0P.15
IOA25	A14	IO L4N T0 AD0N.15
IOA41	C13	IO L5P T0 AD0P.15
IOA40	B13	IO L5N T0 AD0N.15
IOA36	E14	IO L6P T0.15
IOA37	D14	IO L6N T0 VREF.15
IOA39	C14	IO L7P T1 AD10P.15
IOA38	C15	IO L7N T1 AD10N.15
IOA21	B16	IO L8P T1 AD0P.15
IOA30	A16	IO L8N T1 AD0N.15
IOA23	B15	IO L9P T1 DQS AD11P.15
IOA22	A15	IO L9N T1 DQS AD11N.15
IOA18	B17	IO L10P T1 AD0P.15
IOA19	A18	IO L10N T1 AD0N.15
IOA13	D15	IO L11P T1 SRCC AD12P.15
IOA35	C17	IO L11N T1 SRCC AD12N.15
IOA34	C18	IO L12P T1 MRCC AD0P.15
IOA9	E17	IO L12N T1 MRCC AD0N.15
IOA8	E18	IO L13P T2 MRCC.15
IOA11	E16	IO L13N T2 MRCC.15
IOA10	D17	IO L14P T2 SRCC.15
ADBUS1	H17	IO L14N T2 DQS.15
	G17	IO L15N T2 DQS ADV_B.15
ADBUS2	J16	IO L16P T2 A28.15
ADBUS0	J17	IO L16N T2 A27.15
IOA2	F18	IO L17P T2 A26.15
IOA3	E19	IO L17N T2 A25.15
IOA4	D19	IO L18P T2 A24.15
IOA6	D20	IO L18N T2 A23.15
IOA33	C19	IO L19P T2 A22.15
IOA32	C20	IO L19N T2 A21 VREF.15
IOA17	B18	IO L20P T3 A20.15
IOA16	A19	IO L20N T3 A19.15
IOA7	G22	IO L21P T3 DQS.15
IOA15	B22	IO L21N T3 DQS A18.15
IOA0	D21	IO L22P T3 A17.15
IOA1	D22	IO L22N T3 A16.15
IOA31	B20	IO L23P T3 FWE_B.15
IOA30	B21	IO L24P T3 RS1.15
	H15	IO L24N T3 RS0.15
	H15	IO 25.15

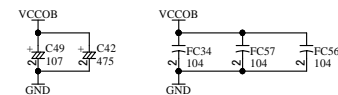
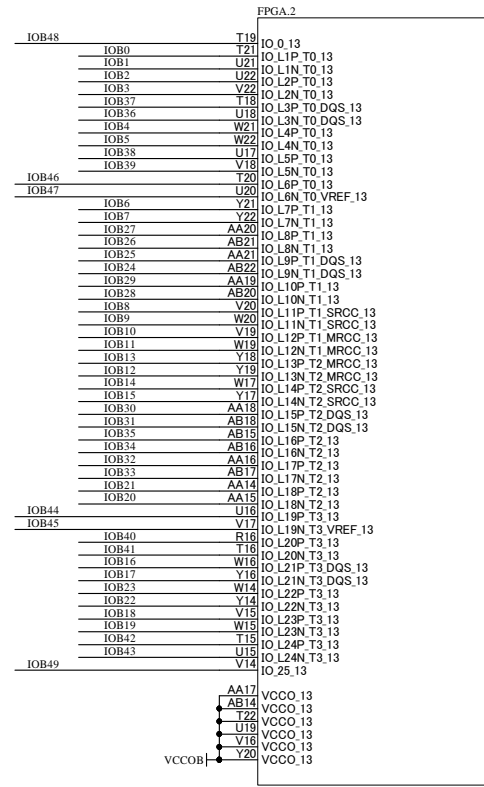
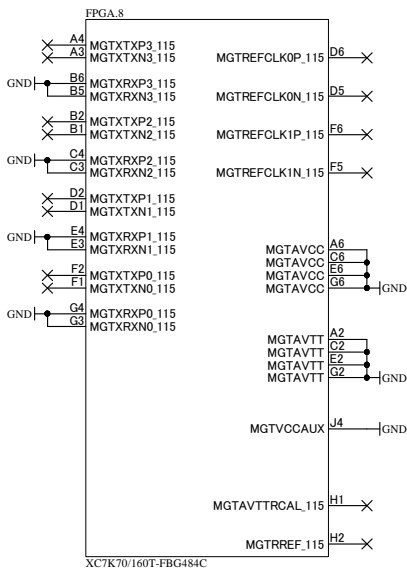


VCCO_A	JR5	000(1005)	X PUDC	K18	IO 0.14
			SDATA11	J19	IO L1P T0 D00 MOSI.14
			SDATA9	G20	IO L1N T0 D01 DIN.14
			SDATA8	F20	IO L2P T0 D02.14
			SDATA15	L18	IO L2N T0 D03.14
			SDATA14	K19	IO L3P T0 DQS PUDC_B.14
			S_SELCTn	L16	IO L3N T0 DQS EMCCLK.14
			SDATA13	K19	IO L4P T0 D04.14
			SDATA0	E21	IO L4N T0 D05.14
			SDATA1	E22	IO L5P T0 D06.14
			SDATA5	H22	IO L5N T0 D07.14
			SDATA4	G22	IO L6P T0 FCS_B.14
			SDATA3	G21	IO L6N T0 D08 VREF.14
			SDATA2	F21	IO L7P T1 D09.14
			SDATA6	J21	IO L7N T1 D10.14
			SDATA7	J22	IO L8P T1 D11.14
			SDATA12	J20	IO L8N T1 D12.14
			SDATA10	H20	IO L9P T1 DQS.14
GCLK50_A				L19	IO L9N T1 DQS D13.14
SCLK2				N18	IO L10P T1 D14.14
				L20	IO L10N T1 D15.14
				N19	IO L11P T1 SRCC.14
				N20	IO L11N T1 SRCC.14
				N21	IO L12P T1 MRCC.14
				N22	IO L12N T1 MRCC.14
				M22	IO L13P T2 MRCC.14
				M23	IO L14P T2 SRCC.14
				M24	IO L14N T2 SRCC.14
				K21	IO L15P T2 DQS PDWR_B.14
				K22	IO L15N T2 DQS DOUT_CSO_B.14
				N20	IO L16P T2 CSL_B.14
				M21	IO L16N T2 A15 D31.14
				M20	IO L17P T2 A14 D30.14
				M19	IO L17N T2 A13 D29.14
				M18	IO L18P T2 A12 D28.14
				M17	IO L18N T2 A11 D27.14
				M16	IO L19P T3 A10 D26.14
				M15	IO L19N T3 A09 D25 VREF.14
				M14	IO L20P T3 A08 D24.14
				M13	IO L20N T3 A07 D23.14
				M12	IO L21P T3 DQS.14
				M11	IO L21N T3 DQS A06 D22.14
				M10	IO L22P T3 A05 D21.14
				M9	IO L22N T3 A04 D20.14
				M8	IO L23P T3 A03 D19.14
				M7	IO L23N T3 A02 D18.14
				M6	IO L24P T3 A01 D17.14
				M5	IO L24N T3 A00 D16.14
				M4	IO 25.14



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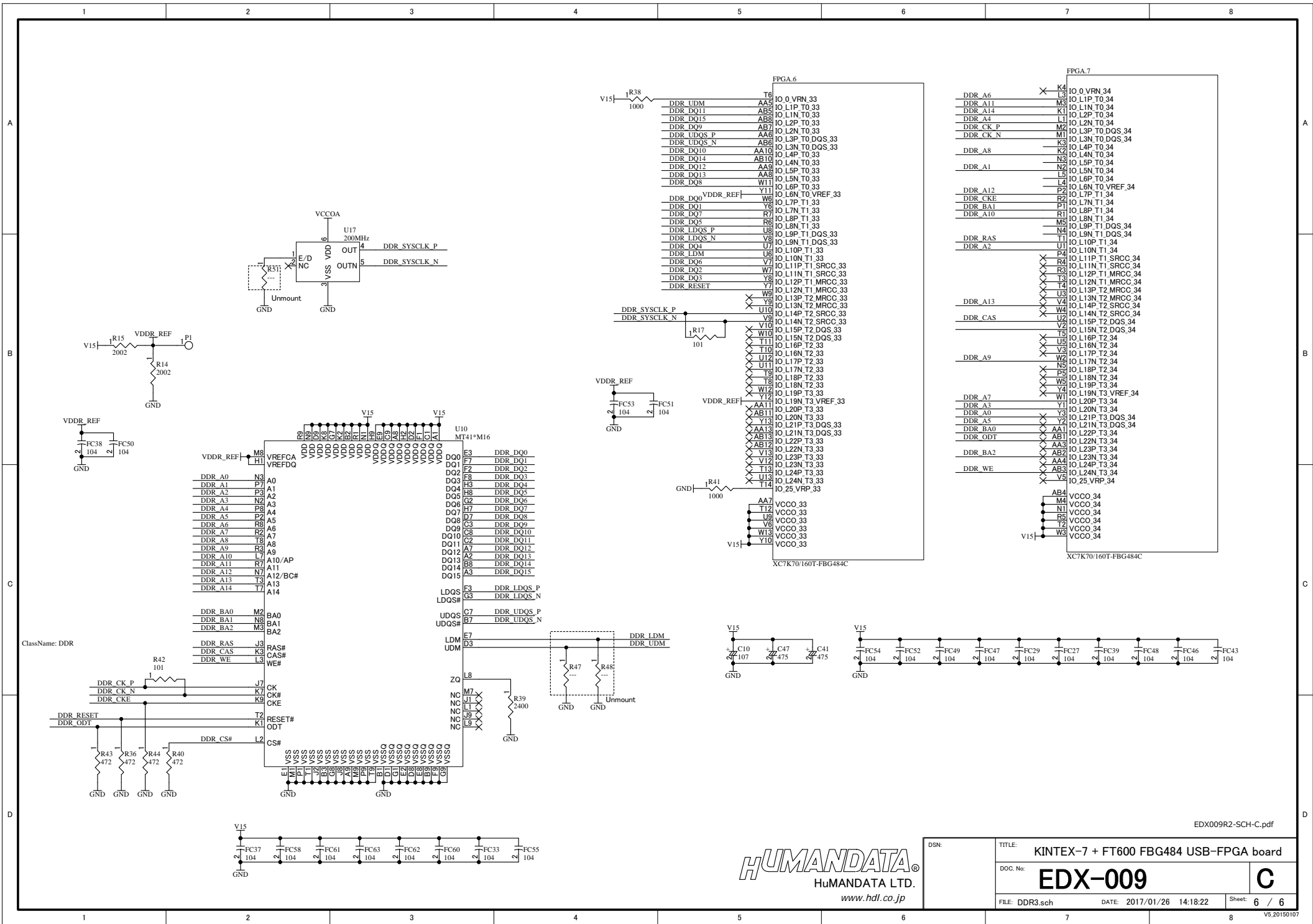


**BANK Group B**

**HUMAN DATA**  
HuMANDATA LTD.  
www.hdl.co.jp

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DOC. No: EDX-009	C
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