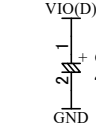
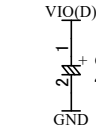
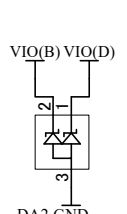
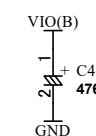
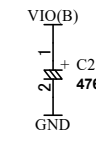


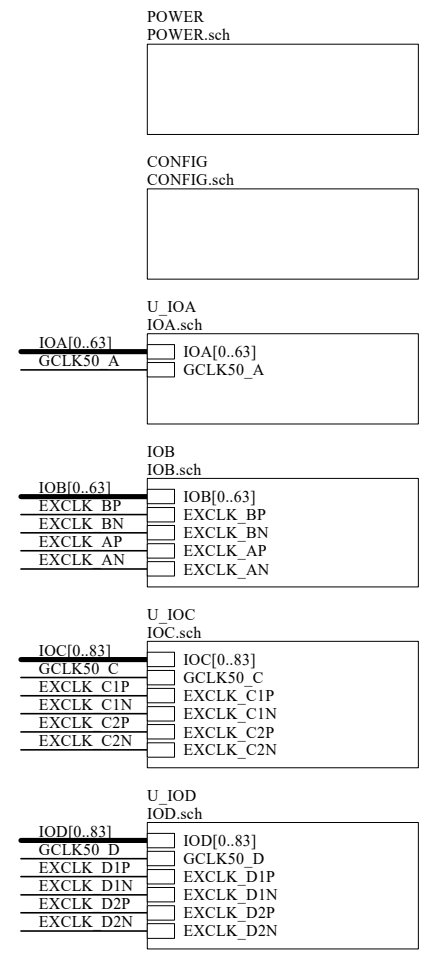
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VIO	1	VIO	2	V33A	1
VIO	3	VIO	4	V33A	2
5V	5	5V	6		
5V	7	5V	8		
RSV	9	RSV	10		
EXCLK AP	11	EXCLK AN	12		
CK	13	CK	14		
RSV	15	RSV	16		
IOA0	17	IOA32	18		
IOA1	19	IOA33	19		
IOA2	21	IOA34	21		
IOA3	23	IOA35	23		
IOA4	25	IOA36	25		
IOA5	27	IOA37	27		
IOA6	29	IOA38	29		
IOA7	31	IOA39	31		
IOA8	33	IOA40	33		
IOA9	35	IOA41	35		
IOA10	37	IOA42	37		
IOA11	39	IOA43	39		
IOA12	41	IOA44	41		
IOA13	43	IOA45	43		
IOA14	45	IOA46	45		
IOA15	47	IOA47	47		
IOA16	49	IOA48	49		
IOA17	51	IOA49	51		
IOA18	53	IOA50	53		
IOA19	55	IOA51	55		
IOA20	57	IOA52	57		
IOA21	59	IOA53	59		
IOA22	61	IOA54	61		
IOA23	63	IOA55	63		
IOA24	65	IOA56	65		
IOA25	67	IOA57	67		
IOA26	69	IOA58	69		
IOA27	71	IOA59	71		
IOA28	73	IOA60	73		
IOA29	75	IOA61	75		
IOA30	77	IOA62	77		
IOA31	79	IOA63	79		

GNB		GND		VIO(B)	
VIO	1	VIO	2	VIO(B)	1
VIO	3	VIO	4	VIO(B)	2
5V	5	5V	6		
5V	7	5V	8		
RSV	9	RSV	10		
EXCLK BP	11	EXCLK BN	12		
CK	13	CK	14		
RSV	15	RSV	16		
IOB0	17	IOB32	18		
IOB1	19	IOB33	19		
IOB2	21	IOB34	21		
IOB3	23	IOB35	23		
IOB4	25	IOB36	25		
IOB5	27	IOB37	27		
IOB6	29	IOB38	29		
IOB7	31	IOB39	31		
IOB8	33	IOB40	33		
IOB9	35	IOB41	35		
IOB10	37	IOB42	37		
IOB11	39	IOB43	39		
IOB12	41	IOB44	41		
IOB13	43	IOB45	43		
IOB14	45	IOB46	45		
IOB15	47	IOB47	47		
IOB16	49	IOB48	49		
IOB17	51	IOB49	51		
IOB18	53	IOB50	53		
IOB19	55	IOB51	55		
IOB20	57	IOB52	57		
IOB21	59	IOB53	59		
IOB22	61	IOB54	61		
IOB23	63	IOB55	63		
IOB24	65	IOB56	65		
IOB25	67	IOB57	67		
IOB26	69	IOB58	69		
IOB27	71	IOB59	71		
IOB28	73	IOB60	73		
IOB29	75	IOB61	75		
IOB30	77	IOB62	77		
IOB31	79	IOB63	79		



FX10-80PH CNC		GND		VIO(C)	
VIO	1	VIO	2	VIO(C)	1
VIO	3	VIO	4	VIO(C)	2
5V	5	5V	6		
5V	7	5V	8		
RSV	9	RSV	10		
EXCLK C1P	11	EXCLK C2P	12		
CK	13	CK	14		
RSV	15	RSV	16		
IOC0	17	IOC42	18		
IOC1	19	IOC43	19		
IOC2	21	IOC44	21		
IOC3	23	IOC45	23		
IOC4	25	IOC46	25		
IOC5	27	IOC47	27		
IOC6	29	IOC48	29		
IOC7	31	IOC49	31		
IOC8	33	IOC50	33		
IOC9	35	IOC51	35		
IOC10	37	IOC52	37		
IOC11	39	IOC53	39		
IOC12	41	IOC54	41		
IOC13	43	IOC55	43		
IOC14	45	IOC56	45		
IOC15	47	IOC57	47		
IOC16	49	IOC58	49		
IOC17	51	IOC59	51		
IOC18	53	IOC60	53		
IOC19	55	IOC61	55		
IOC20	57	IOC62	57		
IOC21	59	IOC63	59		
IOC22	61	IOC64	61		
IOC23	63	IOC65	63		
IOC24	65	IOC66	65		
IOC25	67	IOC67	67		
IOC26	69	IOC68	69		
IOC27	71	IOC69	71		
IOC28	73	IOC70	73		
IOC29	75	IOC71	75		
IOC30	77	IOC72	77		
IOC31	79	IOC73	79		
IOC32	81	IOC74	81		
IOC33	83	IOC75	83		
IOC34	85	IOC76	85		
IOC35	87	IOC77	87		
IOC36	89	IOC78	89		
IOC37	91	IOC79	91		
IOC38	93	IOC80	93		
IOC39	95	IOC81	95		
IOC40	97	IOC82	97		
IOC41	99	IOC83	99		

FX10-80PH CND		GND		VIO(D)	
VIO	1	VIO	2	VIO(D)	1
VIO	3	VIO	4	VIO(D)	2
5V	5	5V	6		
5V	7	5V	8		
RSV	9	RSV	10		
EXCLK D1P	11	EXCLK D2P	12		
CK	13	CK	14		
RSV	15	RSV	16		
IOD0	17	IOD42	18		
IOD1	19	IOD43	19		
IOD2	21	IOD44	21		
IOD3	23	IOD45	23		
IOD4	25	IOD46	25		
IOD5	27	IOD47	27		
IOD6	29	IOD48	29		
IOD7	31	IOD49	31		
IOD8	33	IOD50	33		
IOD9	35	IOD51	35		
IOD10	37	IOD52	37		
IOD11	39	IOD53	39		
IOD12	41	IOD54	41		
IOD13	43	IOD55	43		
IOD14	45	IOD56	45		
IOD15	47	IOD57	47		
IOD16	49	IOD58	49		
IOD17	51	IOD59	51		
IOD18	53	IOD60	53		
IOD19	55	IOD61	55		
IOD20	57	IOD62	57		
IOD21	59	IOD63	59		
IOD22	61	IOD64	61		
IOD23	63	IOD65	63		
IOD24	65	IOD66	65		
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IOD26	69	IOD68	69		
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IOD30	77	IOD72	77		
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IOD34	85	IOD76	85		
IOD35	87	IOD77	87		
IOD36	89	IOD78	89		
IOD37	91	IOD79	91		
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IOD40	97	IOD82	97		
IOD41	99	IOD83	99		



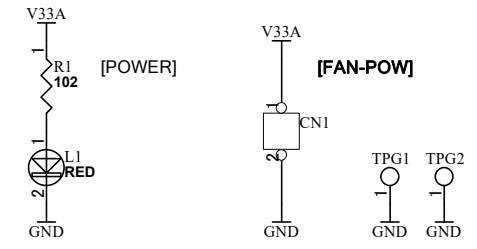
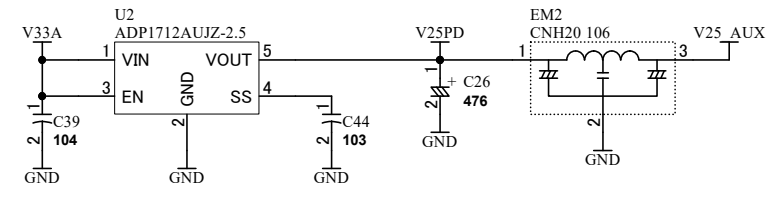
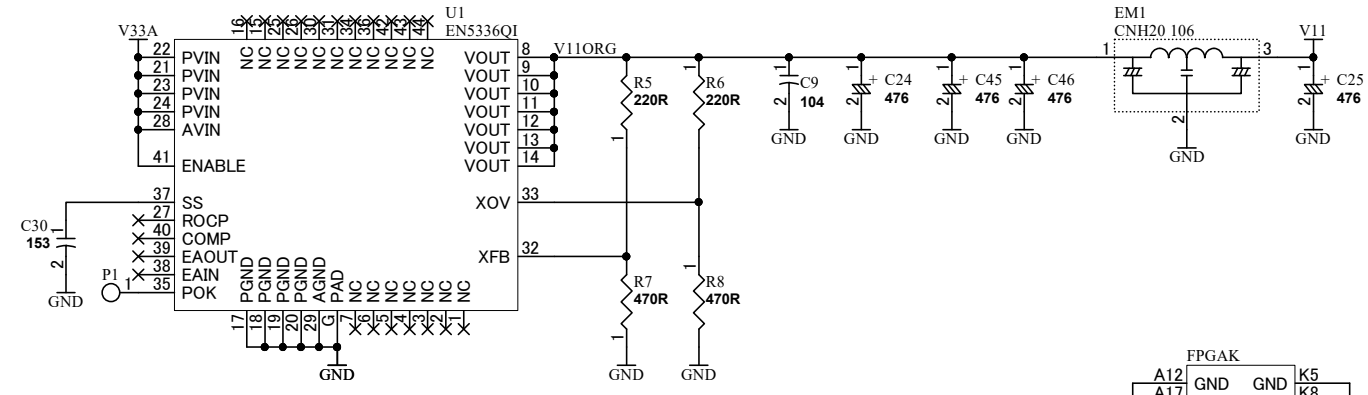
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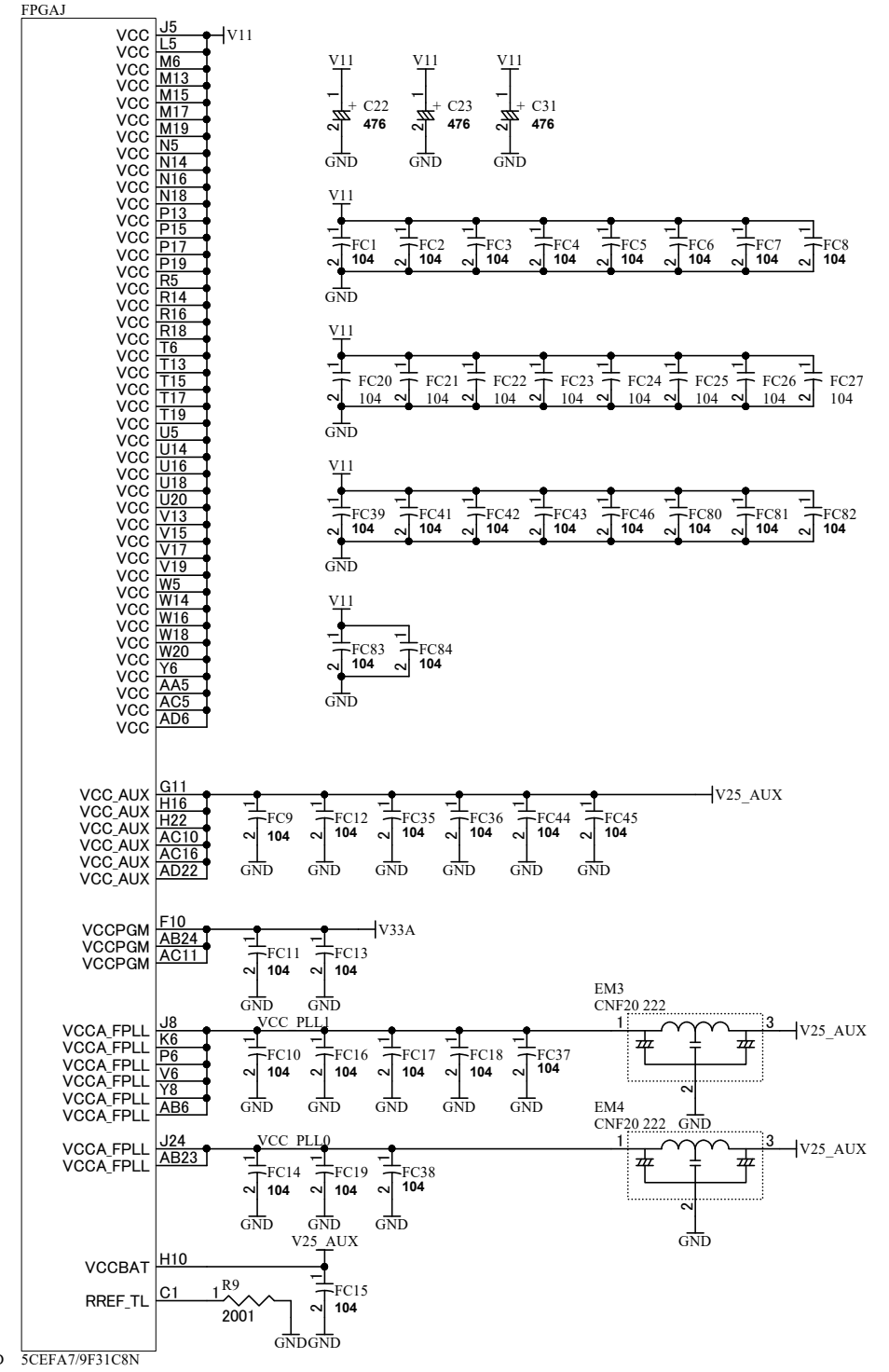
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V11	V11
V25_AUX	V25_AUX
V25PD	V25PD
VIO(B)	VIO(B)
VIO(C)	VIO(C)
VIO(D)	VIO(D)
GND	GND



FPGAM			
X	B3	DNU	DNU
X	B4	DNU	DNU
X	D3	DNU	DNU
X	D4	DNU	DNU
X	D15	DNU	DNU
X	F3	DNU	DNU
X	F4	DNU	DNU
X	F24	DNU	DNU
X	H3	DNU	DNU
X	H4	DNU	DNU
X	K3	DNU	DNU
X	K4	DNU	DNU
X	M3	DNU	DNU
X	M4	DNU	DNU
X	P3	DNU	DNU
X	P4	DNU	DNU
X	T3	DNU	DNU
X	T4	DNU	DNU
X	V3	DNU	DNU
X	V4	DNU	DNU
X	Y3	DNU	DNU
X	Y4	DNU	DNU
X	AB3	DNU	DNU
X	AB4	DNU	DNU
X	AD3	DNU	DNU
X	AD4	DNU	DNU
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X	AF3	DNU	DNU
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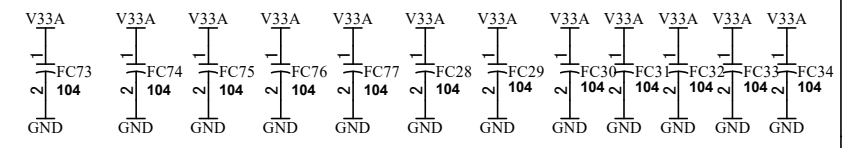
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GND	A17	GND	K8
GND	A27	GND	K9
GND	B1	GND	K14
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GND	B10	GND	L2
GND	B20	GND	L3
GND	B30	GND	L4
GND	C2	GND	L6
GND	C4	GND	L7
GND	C13	GND	L17
GND	C23	GND	L27
GND	D1	GND	M1
GND	D2	GND	M2
GND	D5	GND	M5
GND	D16	GND	M10
GND	D26	GND	M14
GND	E1	GND	M16
GND	E2	GND	M18
GND	E3	GND	M20
GND	E4	GND	M30
GND	E5	GND	N1
GND	E9	GND	N2
GND	E19	GND	N3
GND	E29	GND	N4
GND	F1	GND	N6
GND	F2	GND	N7
GND	F5	GND	N8
GND	F12	GND	N13
GND	F22	GND	N15
GND	G1	GND	N17
GND	G2	GND	N19
GND	G3	GND	N23
GND	G4	GND	P1
GND	G15	GND	P2
GND	G24	GND	P5
GND	G25	GND	P8
GND	H1	GND	P11
GND	H2	GND	P14
GND	H5	GND	P16
GND	H8	GND	P18
GND	H11	GND	P26
GND	H18	GND	R1
GND	H28	GND	R2
GND	J1	GND	R3
GND	J2	GND	R4
GND	J3	GND	R6
GND	J4	GND	R7
GND	J6	GND	R8
GND	J11	GND	R9
GND	J21	GND	R13
GND	K1	GND	R15
GND	K2	GND	R17

FPGAL			
GND	R19	GND	AA6
GND	R29	GND	AA17
GND	T1	GND	AA27
GND	T2	GND	AB1
GND	T5	GND	AB2
GND	T12	GND	AB5
GND	T14	GND	AB10
GND	T16	GND	AB20
GND	T18	GND	AB30
GND	T20	GND	AC1
GND	T22	GND	AC2
GND	U1	GND	AC3
GND	U2	GND	AC4
GND	U3	GND	AC6
GND	U4	GND	AC13
GND	U6	GND	AC23
GND	U13	GND	AD1
GND	U15	GND	AD2
GND	U17	GND	AD5
GND	U19	GND	AD7
GND	U25	GND	AD16
GND	V1	GND	AD26
GND	V2	GND	AE1
GND	V5	GND	AE2
GND	V8	GND	AE3
GND	V14	GND	AE4
GND	V16	GND	AE6
GND	V18	GND	AE9
GND	V20	GND	AE19
GND	V23	GND	AE29
GND	V28	GND	AF1
GND	W1	GND	AF2
GND	W2	GND	AF5
GND	W3	GND	AF12
GND	W4	GND	AF22
GND	W6	GND	AG1
GND	W7	GND	AG2
GND	W8	GND	AG3
GND	W11	GND	AG4
GND	W13	GND	AG15
GND	W15	GND	AG25
GND	W17	GND	AH1
GND	W19	GND	AH2
GND	W21	GND	AH3
GND	Y1	GND	AH8
GND	Y2	GND	AH18
GND	Y5	GND	AH28
GND	Y7	GND	AJ6
GND	Y14	GND	AJ11
GND	Y24	GND	AJ21
GND	AA1	GND	AK2
GND	AA2	GND	AK14
GND	AA3	GND	AK24
GND	AA4	GND	AK29



Power sense point

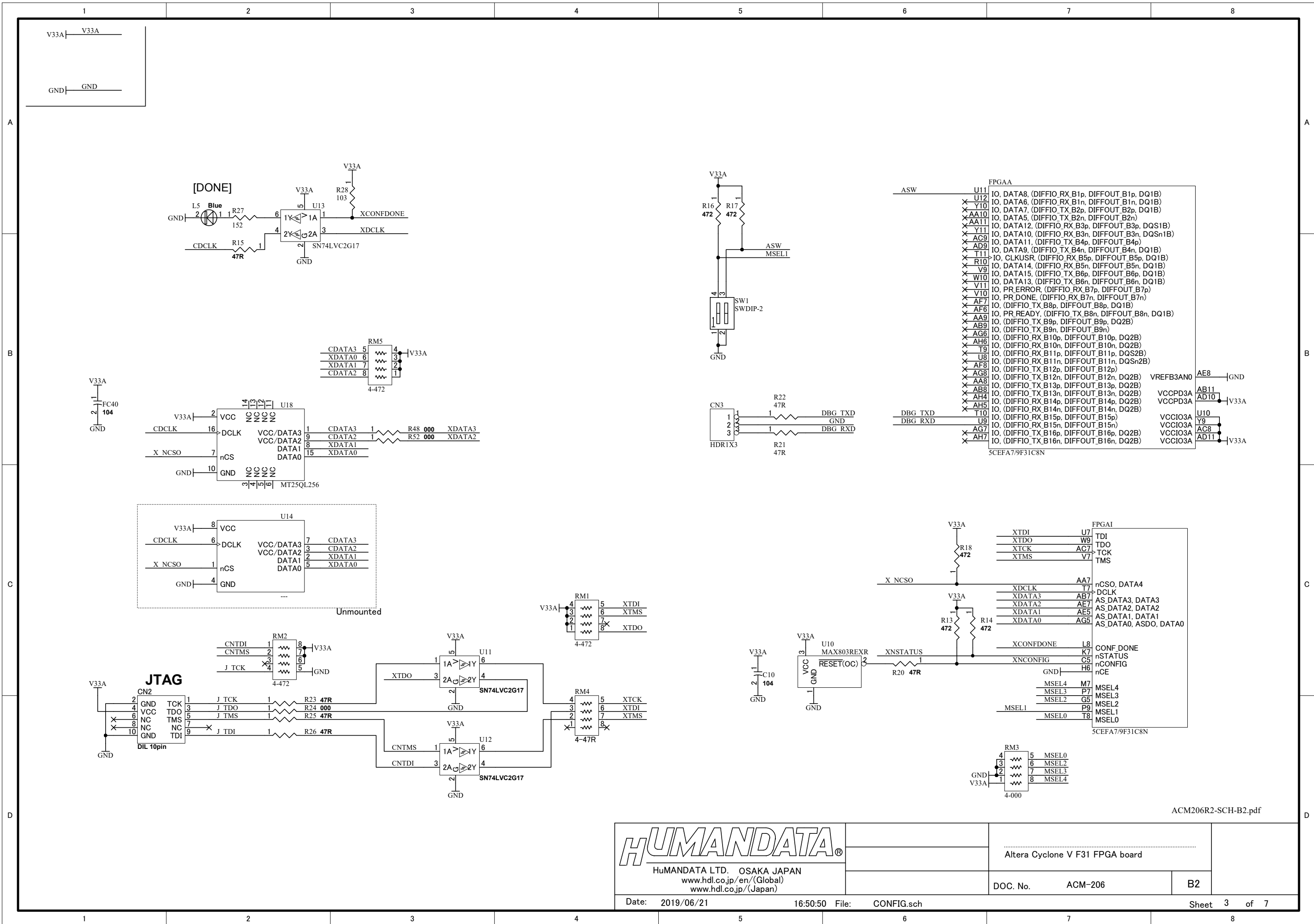
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GND	2	GND
GND	3	GND
VIO(D)	4	VIO(D)
VIO(C)	5	VIO(C)
VIO(B)	6	VIO(B)
V25_AUX	7	V25_AUX
V33A	8	V33A
V11	9	V11
GND	10	GND



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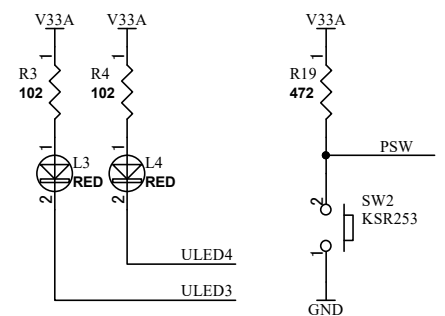
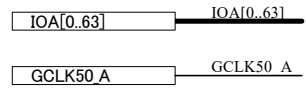
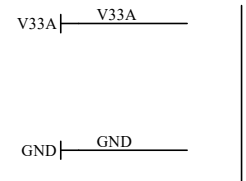
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Altera Cyclone V F31 FPGA board	
DOC. No.	ACM-206
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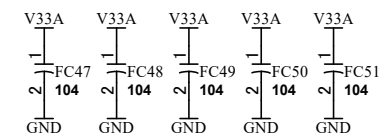
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Bank Group A(3.3V)

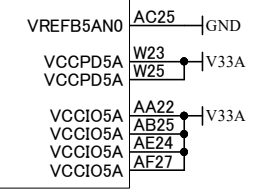
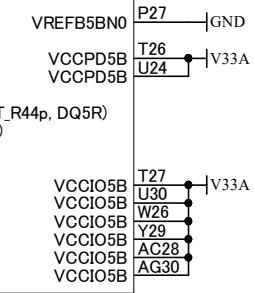


FPGA	
IOA16	V24
IOA17	V25
IOA47	AJ28
IOA46	AJ29
IOA55	AA28
IOA54	Y28
IOA45	AH29
IOA44	AG29
IOA51	V26
IOA50	U26
IOA15	AJ30
IOA14	AH30
IOA11	AE30
IOA10	AD30
IOA27	AG28
IOA26	AF28
IOA13	U21
IOA12	U22
IOA53	AF29
IOA52	V27
IOA43	W28
IOA42	AE28
IOA34	AD28
IOA35	U27
IOA41	U28
IOA40	AD29
IOA7	AC29
IOA6	AA29
IOA38	AA30
IOA39	AB27
IOA8	U23
IOA9	T24
IOA32	AB29
IOA33	AC30
IOA5	T28
IOA4	T29
IOA49	Y30
IOA48	W30
IOA36	T25
IOA37	R26
IOA1	V29
IOA0	W29
IOA2	T30
IOA3	R30
IOA2	U29
IOA3	V30

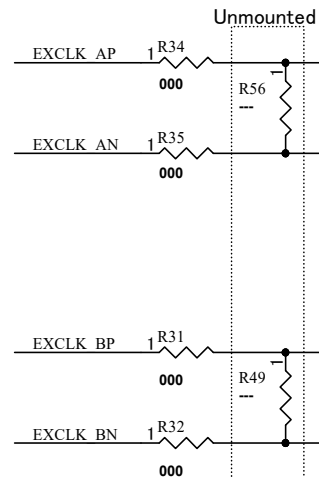
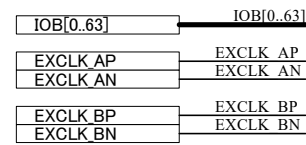
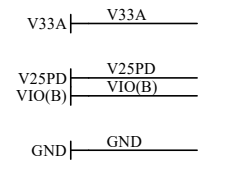
FPGA	
AD23	IO, RZQ_1, (DIFFIO_TX_R1p, DIFFOUT_R1p, DQ1R)
AC24	IO, PR_REQUEST, (DIFFIO_TX_R1n, DIFFOUT_R1n, DQ1R)
W22	IO, INIT_DONE, (DIFFIO_RX_R2p, DIFFOUT_R2p)
Y21	IO, CRC_ERROR, (DIFFIO_RX_R2n, DIFFOUT_R2n)
AD24	IO, nCEO, (DIFFIO_TX_R3p, DIFFOUT_R3p, DQ1R)
AD25	IO, CvP_CONF_DONE, (DIFFIO_TX_R3n, DIFFOUT_R3n, DQ1R)
Y25	IO, (DIFFIO_RX_R4p, DIFFOUT_R4p, DQ1R)
Y26	IO, (DIFFIO_RX_R4n, DIFFOUT_R4n, DQ1R)
AB26	IO, DEV_OE, (DIFFIO_TX_R5p, DIFFOUT_R5p)
AA26	IO, DEV_OE, (DIFFIO_TX_R5n, DIFFOUT_R5n, DQ1R)
Y23	IO, nPERSTL0, (DIFFIO_RX_R6p, DIFFOUT_R6p, DQS1R)
W24	IO, nPERSTL1, (DIFFIO_RX_R6n, DIFFOUT_R6n, DQS1R)
AC26	IO, (DIFFIO_TX_R7p, DIFFOUT_R7p, DQ1R)
AC27	IO, (DIFFIO_TX_R7n, DIFFOUT_R7n)
V22	IO, (DIFFIO_RX_R8p, DIFFOUT_R8p, DQ1R)
AA23	IO, (DIFFIO_RX_R8n, DIFFOUT_R8n, DQ1R)
AA24	IO, (DIFFIO_RX_R17p, DIFFOUT_R17p)
AA25	IO, (DIFFIO_RX_R17n, DIFFOUT_R17n)
AE23	IO, (DIFFIO_TX_R18p, DIFFOUT_R18p, DQ2R)
AF24	IO, (DIFFIO_TX_R18n, DIFFOUT_R18n, DQ2R)
AE27	IO, (DIFFIO_RX_R19p, DIFFOUT_R19p, DQ2R)
AD27	IO, (DIFFIO_RX_R19n, DIFFOUT_R19n, DQ2R)
AE25	IO, (DIFFIO_TX_R20p, DIFFOUT_R20p, DQ2R)
AE26	IO, (DIFFIO_TX_R20n, DIFFOUT_R20n, DQ2R)
V21	IO, (DIFFIO_RX_R21p, DIFFOUT_R21p, DQS2R)
V22	IO, (DIFFIO_RX_R21n, DIFFOUT_R21n, DQS2R)
Y27	IO, (DIFFIO_TX_R22n, DIFFOUT_R22n, DQ2R)
W27	IO, (DIFFIO_RX_R23p, DIFFOUT_R23p, DQ2R)
AH27	IO, (DIFFIO_RX_R23n, DIFFOUT_R23n, DQ2R)
AG27	IO, (DIFFIO_TX_R24n, DIFFOUT_R24n)



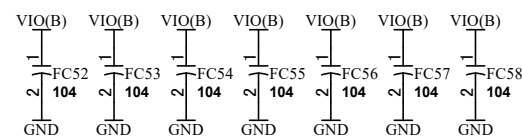
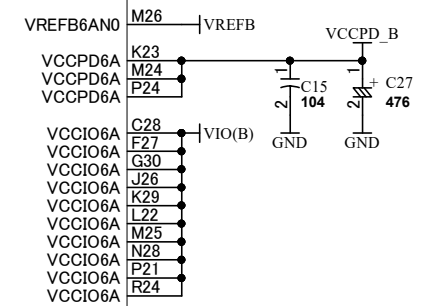
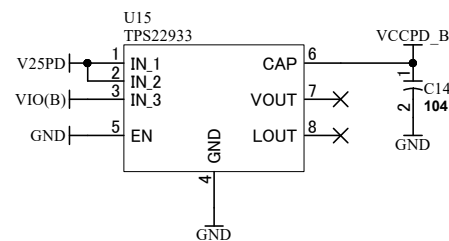
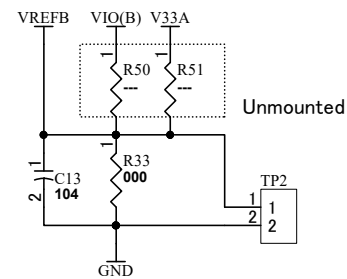
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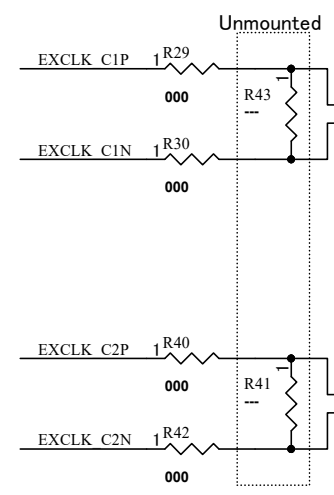
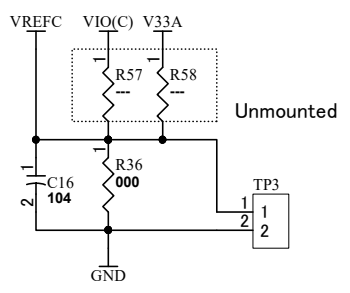
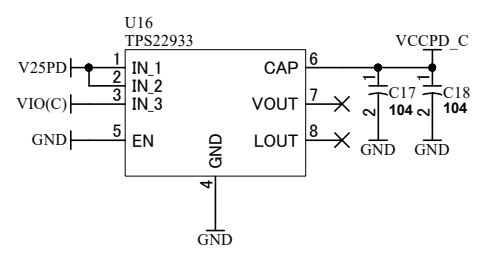
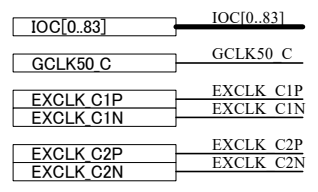
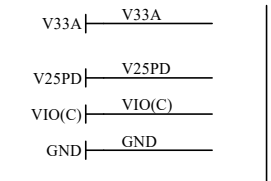


IOB	FPGA	IO
IOB2	T23	IO_CLK5p, (DIFFIO_RX_R49p, DIFFOUT_R49p)
IOB3	R23	IO_CLK5n, (DIFFIO_RX_R49n, DIFFOUT_R49n)
IOB32	P28	IO_DIFFIO_TX_R50p, DIFFOUT_R50p, DQ6R
IOB33	N29	IO_DIFFIO_TX_R50n, DIFFOUT_R50n, DQ6R
IOB35	P30	IO_DIFFIO_RX_R51p, DIFFOUT_R51p, DQ6R
IOB34	M29	IO_DIFFIO_RX_R51n, DIFFOUT_R51n, DQ6R
IOB17	N30	IO_FPLL_TR_CLKOUT0, FPLL_TR_CLKOUTp, FPLL_TR_FB, (DIFFIO_TX_R52p, DIFFOUT_R52p, DQ6R)
IOB16	P25	IO_FPLL_TR_CLKOUT1, FPLL_TR_CLKOUTn, (DIFFIO_TX_R52n, DIFFOUT_R52n, DQ6R)
IOB6	R25	IO_DIFFIO_RX_R53p, DIFFOUT_R53p, DQS6R
IOB7	L28	IO_DIFFIO_RX_R53n, DIFFOUT_R53n, DQS6R
IOB0	K28	IO_DIFFIO_TX_R54p, DIFFOUT_R54p
IOB1	R27	IO_DIFFIO_TX_R54n, DIFFOUT_R54n, DQ6R
IOB4	R28	IO_DIFFIO_RX_R55p, DIFFOUT_R55p, DQ6R
IOB5	M27	IO_DIFFIO_RX_R55n, DIFFOUT_R55n, DQ6R
IOB57	M28	IO_DIFFIO_TX_R56p, DIFFOUT_R56p, DQ6R
IOB56	P22	IO_DIFFIO_TX_R56n, DIFFOUT_R56n
IOB21	P23	IO_CLK4p, FPLL_TR_FBp, (DIFFIO_RX_R57p, DIFFOUT_R57p)
IOB20	K25	IO_CLK4n, FPLL_TR_FBn, (DIFFIO_RX_R57n, DIFFOUT_R57n)
IOB37	K26	IO_DIFFIO_TX_R58p, DIFFOUT_R58p, DQ7R, DQ2R
IOB36	N26	IO_DIFFIO_TX_R58n, DIFFOUT_R58n, DQ7R, DQ2R
IOB18	N27	IO_DIFFIO_RX_R59p, DIFFOUT_R59p, DQ7R, DQ2R
IOB19	L29	IO_DIFFIO_RX_R59n, DIFFOUT_R59n, DQ7R, DQ2R
IOB38	L29	IO_DIFFIO_TX_R60p, DIFFOUT_R60p, DQ7R, DQ2R
IOB39	L30	IO_DIFFIO_TX_R60n, DIFFOUT_R60n, DQ7R, DQ2R
IOB22	N24	IO_DIFFIO_RX_R61p, DIFFOUT_R61p, DQS7R, DQS2R
IOB23	N25	IO_DIFFIO_RX_R61n, DIFFOUT_R61n, DQS7R, DQS2R
IOB27	K30	IO_DIFFIO_TX_R62p, DIFFOUT_R62p
IOB26	J30	IO_DIFFIO_TX_R62n, DIFFOUT_R62n, DQ7R, DQ2R
IOB51	L25	IO_DIFFIO_RX_R63p, DIFFOUT_R63p, DQ7R, DQ2R
IOB50	L26	IO_DIFFIO_RX_R63n, DIFFOUT_R63n, DQ7R, DQ2R
IOB8	G27	IO_DIFFIO_TX_R64p, DIFFOUT_R64p, DQ7R, DQ2R
IOB9	G28	IO_DIFFIO_TX_R64n, DIFFOUT_R64n
IOB24	R21	IO_DIFFIO_RX_R65p, DIFFOUT_R65p
IOB25	R22	IO_DIFFIO_RX_R65n, DIFFOUT_R65n
IOB41	J28	IO_DIFFIO_TX_R66p, DIFFOUT_R66p, DQ8R, DQ2R
IOB40	J29	IO_DIFFIO_TX_R66n, DIFFOUT_R66n, DQ8R, DQ2R
IOB52	K27	IO_DIFFIO_RX_R67p, DIFFOUT_R67p, DQ8R, DQ2R
IOB53	J27	IO_DIFFIO_RX_R67n, DIFFOUT_R67n, DQ8R, DQ2R
IOB54	H29	IO_DIFFIO_TX_R68p, DIFFOUT_R68p, DQ8R, DQ2R
IOB55	H30	IO_DIFFIO_TX_R68n, DIFFOUT_R68n, DQ8R, DQ2R
IOB28	N22	IO_DIFFIO_RX_R69p, DIFFOUT_R69p, DQS8R, DQ2R
IOB29	M23	IO_DIFFIO_RX_R69n, DIFFOUT_R69n, DQS8R, DQ2R
IOB31	H27	IO_DIFFIO_TX_R70p, DIFFOUT_R70p
IOB30	G26	IO_DIFFIO_TX_R70n, DIFFOUT_R70n, DQ8R, DQ2R
IOB42	F25	IO_DIFFIO_RX_R71p, DIFFOUT_R71p, DQ8R, DQ2R
IOB43	F26	IO_DIFFIO_RX_R71n, DIFFOUT_R71n, DQ8R, DQ2R
IOB10	F30	IO_DIFFIO_TX_R72p, DIFFOUT_R72p, DQ8R, DQ2R
IOB11	E30	IO_DIFFIO_TX_R72n, DIFFOUT_R72n
IOB54	R20	IO_DIFFIO_RX_R73p, DIFFOUT_R73p
IOB55	T21	IO_DIFFIO_RX_R73n, DIFFOUT_R73n
IOB44	G29	IO_DIFFIO_TX_R74p, DIFFOUT_R74p, DQ9R, DQ3R
IOB45	F29	IO_DIFFIO_TX_R74n, DIFFOUT_R74n, DQ9R, DQ3R
IOB59	L23	IO_DIFFIO_RX_R75p, DIFFOUT_R75p, DQ9R, DQ3R
IOB58	L24	IO_DIFFIO_RX_R75n, DIFFOUT_R75n, DQ9R, DQ3R
IOB12	D30	IO_DIFFIO_TX_R76p, DIFFOUT_R76p, DQ9R, DQ3R
IOB13	C30	IO_DIFFIO_TX_R76n, DIFFOUT_R76n, DQ9R, DQ3R
IOB60	N21	IO_DIFFIO_RX_R77p, DIFFOUT_R77p, DQS9R, DQS3R
IOB61	M22	IO_DIFFIO_RX_R77n, DIFFOUT_R77n, DQS9R, DQS3R
IOB62	F28	IO_DIFFIO_TX_R78p, DIFFOUT_R78p
IOB63	E28	IO_DIFFIO_TX_R78n, DIFFOUT_R78n, DQ9R, DQ3R
IOB46	K21	IO_DIFFIO_RX_R79p, DIFFOUT_R79p, DQ9R, DQ3R
IOB47	K22	IO_DIFFIO_RX_R79n, DIFFOUT_R79n, DQ9R, DQ3R
IOB64	C29	IO_DIFFIO_TX_R80p, DIFFOUT_R80p, DQ9R, DQ3R
IOB65	B29	IO_DIFFIO_TX_R80n, DIFFOUT_R80n
IOB48	M21	IO_DIFFIO_RX_R81p, DIFFOUT_R81p
IOB49	L21	IO_DIFFIO_RX_R81n, DIFFOUT_R81n
IOB15	A29	IO_DIFFIO_TX_R82p, DIFFOUT_R82p, DQ10R, DQ3R
IOB14	A29	IO_DIFFIO_TX_R82n, DIFFOUT_R82n, DQ10R, DQ3R
IOB56	H25	IO_DIFFIO_RX_R83p, DIFFOUT_R83p, DQ10R, DQ3R
IOB57	H26	IO_DIFFIO_RX_R83n, DIFFOUT_R83n, DQ10R, DQ3R
IOB16	D28	IO_DIFFIO_TX_R84p, DIFFOUT_R84p, DQ10R, DQ3R
IOB17	D29	IO_DIFFIO_TX_R84n, DIFFOUT_R84n, DQ10R, DQ3R
IOB21	P20	IO_DIFFIO_RX_R85p, DIFFOUT_R85p, DQS10R, DQ3R
IOB22	N20	IO_DIFFIO_RX_R85n, DIFFOUT_R85n, DQS10R, DQ3R
IOB27	E27	IO_DIFFIO_TX_R86p, DIFFOUT_R86p
IOB28	D27	IO_DIFFIO_TX_R86n, DIFFOUT_R86n, DQ10R, DQ3R
IOB29	J22	IO_DIFFIO_RX_R87p, DIFFOUT_R87p, DQ10R, DQ3R
IOB30	J23	IO_DIFFIO_RX_R87n, DIFFOUT_R87n, DQ10R, DQ3R
IOB31	H24	IO_DIFFIO_TX_R88p, DIFFOUT_R88p, DQ10R, DQ3R
IOB32	J25	IO_DIFFIO_TX_R88n, DIFFOUT_R88n



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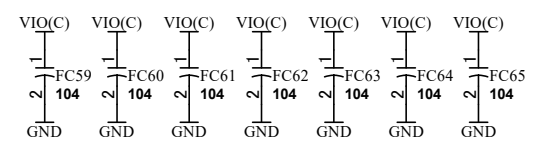
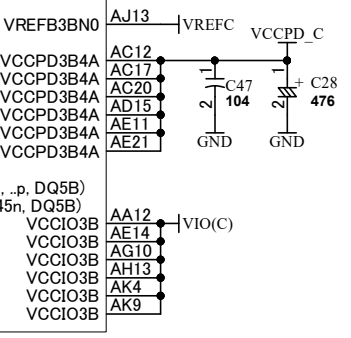


FPGA

IOC56	AE10	IO. (DIFFIO_TX_B25p, DIFFOUT_B25p, DQ3B, DQ1B)
IOC57	AF10	IO. (DIFFIO_TX_B25n, DIFFOUT_B25n)
IOC62	AD12	IO. (DIFFIO_RX_B26p, DIFFOUT_B26p, DQ3B, DQ1B)
IOC63	AD13	IO. (DIFFIO_RX_B26n, DIFFOUT_B26n, DQ3B, DQ1B)
IOC41	V12	IO. (DIFFIO_RX_B27p, DIFFOUT_B27p, DQS3B, DQ1B)
IOC40	W12	IO. (DIFFIO_RX_B27n, DIFFOUT_B27n, DQS3B, DQ1B)
IOC15	AJ1	IO. (DIFFIO_TX_B28p, DIFFOUT_B28p)
IOC14	AJ2	IO. (DIFFIO_TX_B28n, DIFFOUT_B28n, DQ3B, DQ1B)
IOC13	AJ3	IO. (DIFFIO_TX_B29p, DIFFOUT_B29p, DQ3B, DQ1B)
IOC12	AK3	IO. (DIFFIO_TX_B29n, DIFFOUT_B29n, DQ3B, DQ1B)
IOC60	AE12	IO. (DIFFIO_RX_B30p, DIFFOUT_B30p, DQ3B, DQ1B)
IOC61	AE13	IO. (DIFFIO_RX_B30n, DIFFOUT_B30n, DQ3B, DQ1B)
	AB12	IO. (DIFFIO_RX_B31p, DIFFOUT_B31p)
	AB13	IO. (DIFFIO_RX_B31n, DIFFOUT_B31n)
IOC79	AJ4	IO. (DIFFIO_TX_B32p, DIFFOUT_B32p, DQ3B, DQ1B)
IOC78	AJ5	IO. (DIFFIO_TX_B32n, DIFFOUT_B32n, DQ3B, DQ1B)
IOC11	AK5	IO. (DIFFIO_TX_B33p, DIFFOUT_B33p, DQ4B, DQ1B)
IOC10	AK6	IO. (DIFFIO_TX_B33n, DIFFOUT_B33n)
IOC26	AF13	IO. (DIFFIO_RX_B34p, DIFFOUT_B34p, DQ4B, DQ1B)
IOC27	AG12	IO. (DIFFIO_RX_B34n, DIFFOUT_B34n, DQ4B, DQ1B)
IOC38	Y12	IO. (DIFFIO_RX_B35p, DIFFOUT_B35p, DQS4B, DQS1B)
IOC39	AA13	IO. (DIFFIO_RX_B35n, DIFFOUT_B35n, DQS4B, DQS1B)
IOC9	AJ7	IO. (DIFFIO_TX_B36p, DIFFOUT_B36p)
IOC8	AK7	IO. (DIFFIO_TX_B36n, DIFFOUT_B36n, DQ4B, DQ1B)
IOC7	AJ8	IO. (DIFFIO_TX_B37p, DIFFOUT_B37p, DQ4B, DQ1B)
IOC6	AK8	IO. (DIFFIO_TX_B37n, DIFFOUT_B37n, DQ4B, DQ1B)
IOC29	AF11	IO. (DIFFIO_RX_B38p, DIFFOUT_B38p, DQ4B, DQ1B)
IOC28	AG11	IO. (DIFFIO_RX_B38n, DIFFOUT_B38n, DQ4B, DQ1B)
	AB14	IO. (DIFFIO_RX_B39p, DIFFOUT_B39p)
	AC14	IO. (DIFFIO_RX_B39n, DIFFOUT_B39n)
IOC83	AF9	IO. (DIFFIO_TX_B40p, DIFFOUT_B40p, DQ4B, DQ1B)
IOC82	AG9	IO. (DIFFIO_TX_B40n, DIFFOUT_B40n, DQ4B, DQ1B)
IOC81	AH9	IO. (DIFFIO_TX_B41p, DIFFOUT_B41p, DQ5B)
IOC80	AJ9	IO. (DIFFIO_TX_B41n, DIFFOUT_B41n)
IOC76	AH10	IO. (DIFFIO_RX_B42p, DIFFOUT_B42p, DQ5B)
IOC77	AJ10	IO. (DIFFIO_RX_B42n, DIFFOUT_B42n, DQ5B)
IOC37	Y13	IO. (DIFFIO_RX_B43p, DIFFOUT_B43p, DQS5B)
IOC36	AA14	IO. (DIFFIO_RX_B43n, DIFFOUT_B43n, DQS5B)
IOC5	AK10	IO. (DIFFIO_TX_B44p, DIFFOUT_B44p)
IOC4	AK11	IO. (DIFFIO_TX_B44n, DIFFOUT_B44n, DQ5B)
IOC74	AH11	IO. (DIFFIO_TX_B45p, DIFFOUT_B45p, DQ5B)
IOC75	AH12	IO. (DIFFIO_TX_B45n, DIFFOUT_B45n, DQ5B)
IOC55	AG13	IO. (DIFFIO_RX_B46p, DIFFOUT_B46p, DQ5B)
IOC54	AG14	IO. (DIFFIO_RX_B46n, DIFFOUT_B46n, DQ5B)
	Y15	IO. (DIFFIO_RX_B47p, DIFFOUT_B47p)
	AA15	IO. (DIFFIO_RX_B47n, DIFFOUT_B47n)
IOC3	AJ12	IO. (DIFFIO_TX_B48p, DIFFOUT_B48p, DQ5B)
IOC2	AK12	IO. (DIFFIO_TX_B48n, DIFFOUT_B48n, DQ5B)

FPGA

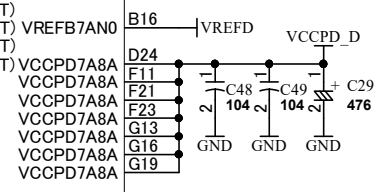
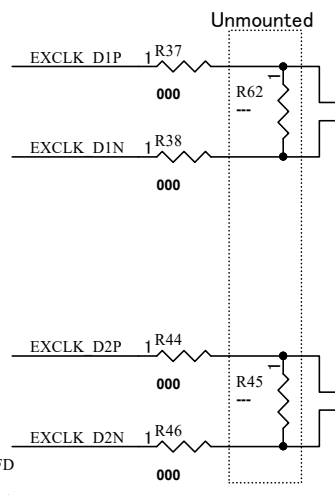
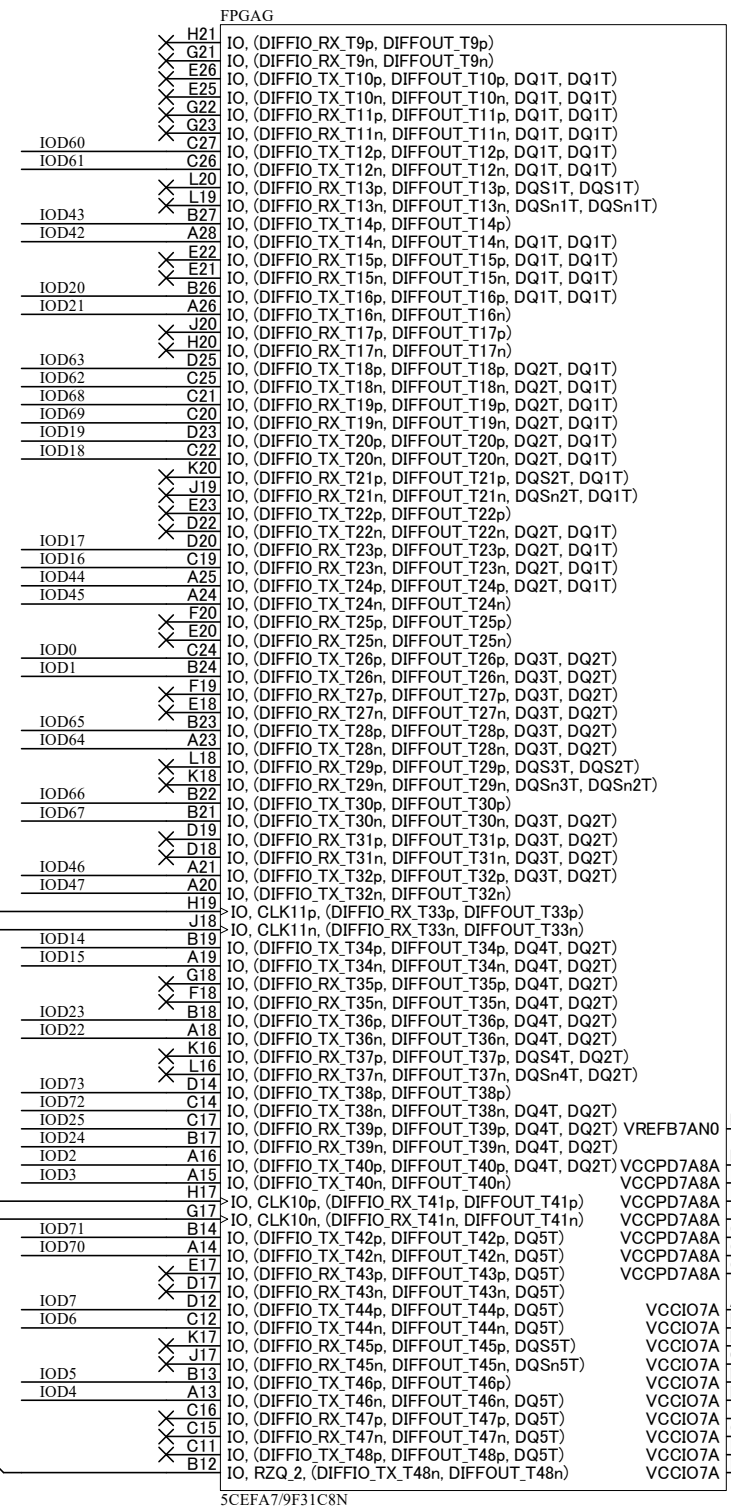
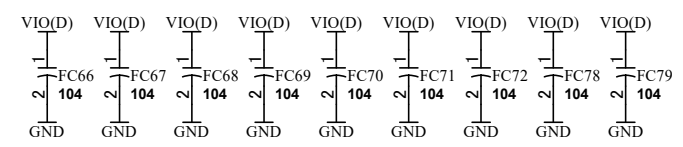
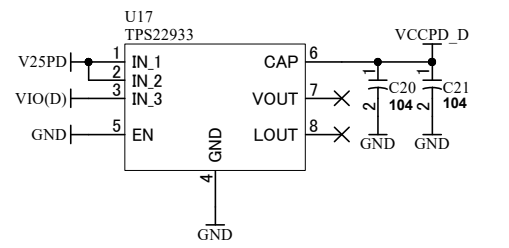
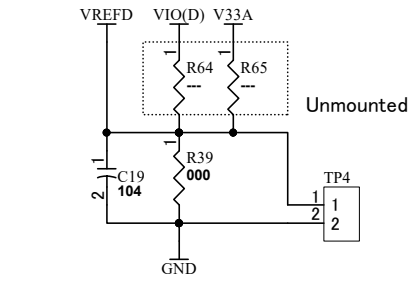
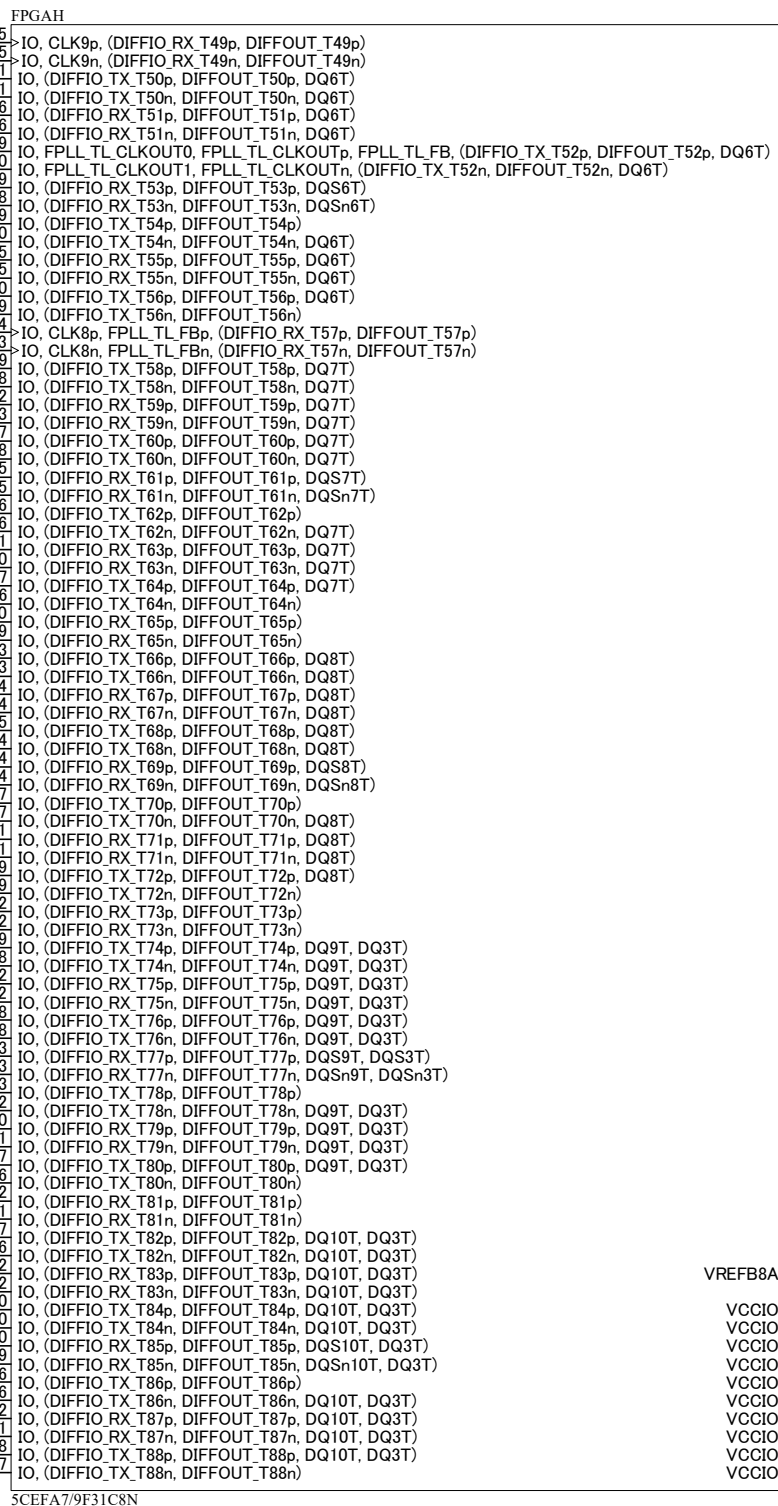
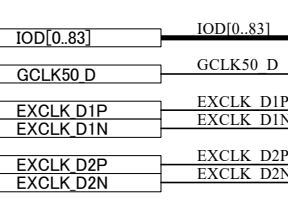
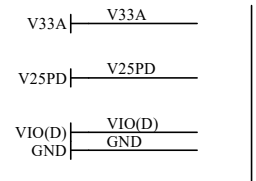
IOC0	AK15	IO. (DIFFIO_TX_B52n, DIFFOUT_B52n, DQ6B)
IOC1	AK15	IO. (DIFFIO_TX_B53p, DIFFOUT_B53p, DQ6B)
IOC32	AD17	IO. (DIFFIO_TX_B53n, DIFFOUT_B53n, DQ6B)
IOC33	AE17	IO. (DIFFIO_RX_B54p, DIFFOUT_B54p, DQ6B)
	AB16	IO. (DIFFIO_RX_B54n, DIFFOUT_B54n, DQ6B)
	AC15	IO. (DIFFIO_TX_B55p, DIFFOUT_B55p)
	AE15	IO. (DIFFIO_TX_B55n, DIFFOUT_B55n)
IOC31	AF14	IO. (DIFFIO_TX_B56p, DIFFOUT_B56p, DQ6B)
IOC30	AG17	IO. (DIFFIO_TX_B56n, DIFFOUT_B56n, DQ6B)
IOC47	AG17	IO. (DIFFIO_TX_B57p, DIFFOUT_B57p, DQ7B, DQ2B)
IOC46	AH17	IO. (DIFFIO_TX_B57n, DIFFOUT_B57n)
IOC66	AK16	IO. (DIFFIO_RX_B58p, DIFFOUT_B58p, DQ7B, DQ2B)
IOC67	AK17	IO. (DIFFIO_RX_B58n, DIFFOUT_B58n, DQ7B, DQ2B)
IOC65	Y17	IO. (DIFFIO_RX_B59p, DIFFOUT_B59p, DQS7B, DQ2B)
IOC64	Y18	IO. (DIFFIO_RX_B59n, DIFFOUT_B59n, DQS7B, DQ2B)
IOC45	AJ17	IO. (DIFFIO_TX_B60p, DIFFOUT_B60p)
IOC44	AJ18	IO. (DIFFIO_TX_B60n, DIFFOUT_B60n, DQ7B, DQ2B)
IOC69	AJ19	IO. (DIFFIO_TX_B61p, DIFFOUT_B61p, DQ7B, DQ2B)
IOC68	AK18	IO. (DIFFIO_TX_B61n, DIFFOUT_B61n, DQ7B, DQ2B)
	AF16	IO. (DIFFIO_RX_B62p, DIFFOUT_B62p, DQ7B, DQ2B)
	AG16	IO. (DIFFIO_RX_B62n, DIFFOUT_B62n, DQ7B, DQ2B)
	AB17	IO. (DIFFIO_RX_B62n, DIFFOUT_B62n, DQ7B, DQ2B)
IOC35	AB18	IO. (DIFFIO_TX_B63p, DIFFOUT_B63p)
IOC34	AH19	IO. (DIFFIO_TX_B63n, DIFFOUT_B63n)
IOC42	AH20	IO. (DIFFIO_TX_B64p, DIFFOUT_B64p, DQ7B, DQ2B)
IOC70	AJ20	IO. (DIFFIO_TX_B64n, DIFFOUT_B64n, DQ7B, DQ2B)
IOC71	AK20	IO. (DIFFIO_TX_B65p, DIFFOUT_B65p, DQ8B, DQ2B)
IOC53	AD18	IO. (DIFFIO_RX_B66p, DIFFOUT_B66p, DQ8B, DQ2B)
IOC52	AE18	IO. (DIFFIO_RX_B66n, DIFFOUT_B66n, DQ8B, DQ2B)
	Y20	IO. (DIFFIO_RX_B67p, DIFFOUT_B67p, DQS8B, DQS2B)
	AA20	IO. (DIFFIO_RX_B67n, DIFFOUT_B67n, DQS8B, DQS2B)
IOC25	AK21	IO. (DIFFIO_TX_B68p, DIFFOUT_B68p)
IOC24	AK22	IO. (DIFFIO_TX_B68n, DIFFOUT_B68n, DQ8B, DQ2B)
IOC72	AH21	IO. (DIFFIO_TX_B69p, DIFFOUT_B69p, DQ8B, DQ2B)
IOC73	AJ22	IO. (DIFFIO_TX_B69n, DIFFOUT_B69n, DQ8B, DQ2B)
IOC51	AF18	IO. (DIFFIO_RX_B70p, DIFFOUT_B70p, DQ8B, DQ2B)
IOC50	AF19	IO. (DIFFIO_RX_B70n, DIFFOUT_B70n, DQ8B, DQ2B)
	AA18	IO. (DIFFIO_RX_B71p, DIFFOUT_B71p)
	AA19	IO. (DIFFIO_RX_B71n, DIFFOUT_B71n)
IOC23	AJ23	IO. (DIFFIO_TX_B72p, DIFFOUT_B72p, DQ8B, DQ2B)
IOC22	AK23	IO. (DIFFIO_TX_B72n, DIFFOUT_B72n, DQ8B, DQ2B)
IOC20	AH24	IO. (DIFFIO_TX_B73p, DIFFOUT_B73p, DQ9B, DQ3B)
IOC21	AJ24	IO. (DIFFIO_TX_B73n, DIFFOUT_B73n)
IOC48	AG18	IO. (DIFFIO_RX_B74p, DIFFOUT_B74p, DQ9B, DQ3B)
IOC49	AG19	IO. (DIFFIO_RX_B74n, DIFFOUT_B74n, DQ9B, DQ3B)
	AB19	IO. (DIFFIO_RX_B75p, DIFFOUT_B75p, DQS9B, DQ3B)
	AC19	IO. (DIFFIO_RX_B75n, DIFFOUT_B75n, DQS9B, DQ3B)
IOC18	AJ25	IO. (DIFFIO_TX_B76p, DIFFOUT_B76p)
IOC19	AK25	IO. (DIFFIO_TX_B76n, DIFFOUT_B76n, DQ9B, DQ3B)
IOC16	AG24	IO. (DIFFIO_TX_B77p, DIFFOUT_B77p, DQ9B, DQ3B)
IOC17	AH25	IO. (DIFFIO_TX_B77n, DIFFOUT_B77n, DQ9B, DQ3B)
IOC58	AD19	IO. (DIFFIO_RX_B78p, DIFFOUT_B78p, DQ9B, DQ3B)
IOC59	AE20	IO. (DIFFIO_RX_B78n, DIFFOUT_B78n, DQ9B, DQ3B)
	AA21	IO. (DIFFIO_RX_B79p, DIFFOUT_B79p)
	AB21	IO. (DIFFIO_RX_B79n, DIFFOUT_B79n)
	AJ27	IO. (DIFFIO_TX_B80p, DIFFOUT_B80p, DQ9B, DQ3B)
	AK26	IO. (DIFFIO_TX_B80n, DIFFOUT_B80n, DQ9B, DQ3B)
	AK27	IO. (DIFFIO_TX_B81p, DIFFOUT_B81p, DQ10B, DQ3B)
	AK28	IO. (DIFFIO_TX_B81n, DIFFOUT_B81n)
	AF20	IO. (DIFFIO_RX_B82p, DIFFOUT_B82p, DQ10B, DQ3B)
	AG21	IO. (DIFFIO_RX_B82n, DIFFOUT_B82n, DQ10B, DQ3B)
	AC21	IO. (DIFFIO_RX_B83p, DIFFOUT_B83p, DQS10B, DQS3B)
	AD20	IO. (DIFFIO_RX_B83n, DIFFOUT_B83n, DQS10B, DQS3B)
	AG26	IO. (DIFFIO_TX_B84p, DIFFOUT_B84p)
	AH26	IO. (DIFFIO_TX_B84n, DIFFOUT_B84n, DQ10B, DQ3B)
	AE22	IO. (DIFFIO_TX_B85p, DIFFOUT_B85p, DQ10B, DQ3B)
	AF23	IO. (DIFFIO_TX_B85n, DIFFOUT_B85n, DQ10B, DQ3B)
	AF21	IO. (DIFFIO_RX_B86p, DIFFOUT_B86p, DQ10B, DQ3B)
	AG22	IO. (DIFFIO_RX_B86n, DIFFOUT_B86n, DQ10B, DQ3B)
	AB22	IO. (DIFFIO_RX_B87p, DIFFOUT_B87p)
	AC22	IO. (DIFFIO_RX_B87n, DIFFOUT_B87n)
	AK4	IO. (DIFFIO_RX_B87n, DIFFOUT_B87n)
	AK9	IO. (DIFFIO_TX_B88p, DIFFOUT_B88p, DQ10B, DQ3B)
	AK22	IO. (DIFFIO_TX_B88n, DIFFOUT_B88n, DQ10B, DQ3B)



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