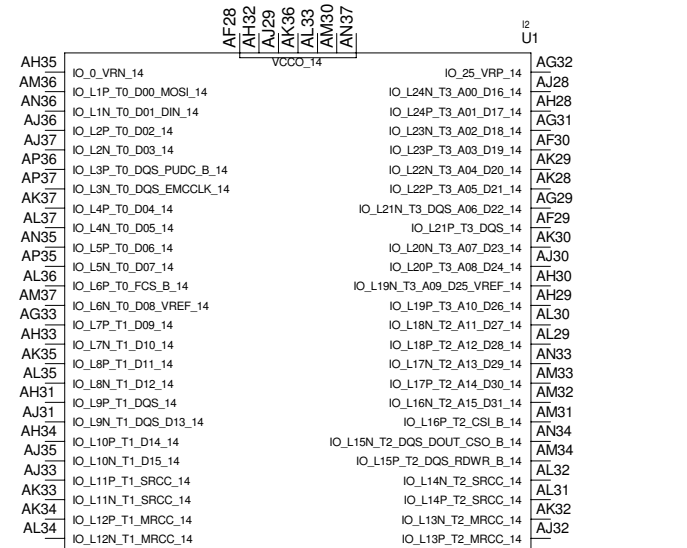
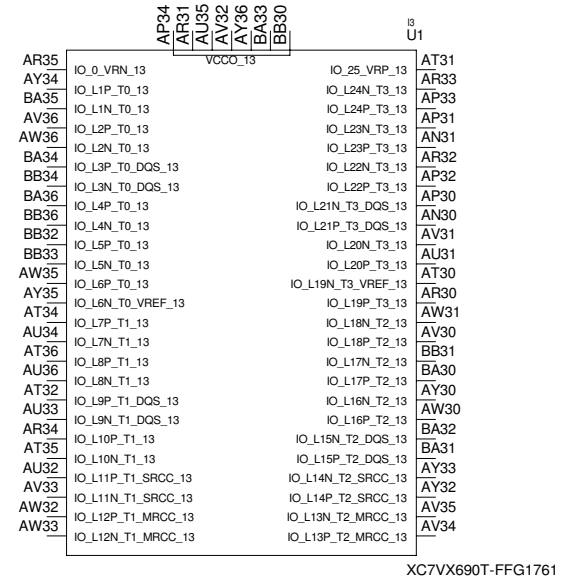
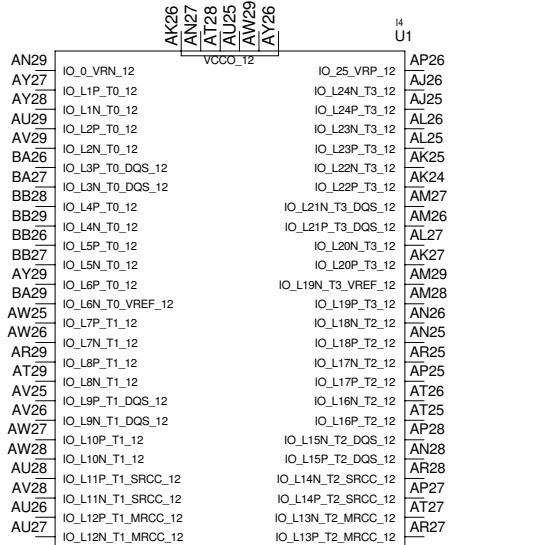
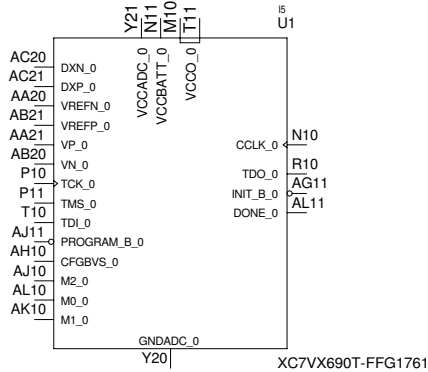


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FPGA_SYMBOL_TEST

APPROVALS		DATE	CONVEY COMPUTER CORP. 1302 EAST COLLINS RICHARDSON, TEXAS 75081		
DRAWN	WCL	10-25-2010	TITLE		
CHECKED	xx	xx-xx-xx	FPGA_SYMBOL_TEST		
ENGINEER	WCL	xx-xx-xx			
RELEASED	xx	xx-xx-xx	SIZE		REV
			C		1
			DRAWING NO.		
			XXX-XXXX-XXX		
			SHEET 1 OF 19		

PAGE:2 SYMBOLS 5 -10

AM38	IO_0_VRN_15	IO_25_VRP_15	AU37
AN38	IO_L1P_T0_AD0P_15	IO_L24N_T3_RS0_15	AW42
AP38	IO_L1N_T0_AD0N_15	IO_L24P_T3_RS1_15	AW41
AM41	IO_L2P_T0_AD8P_15	IO_L23N_T3_FWE_B_15	BB41
AM42	IO_L2N_T0_AD8N_15	IO_L23P_T3_FOE_B_15	BA41
AR38	IO_L3P_T0_DQS_AD1P_15	IO_L22N_T3_A16_15	AV41
AR39	IO_L3N_T0_DQS_AD1N_15	IO_L22P_T3_A17_15	AU41
AN40	IO_L4P_T0_15	IO_L21N_T3_DQS_A18_15	BA42
AN41	IO_L4N_T0_15	IO_L21P_T3_DQS_15	AY42
AR37	IO_L5P_T0_AD9P_15	IO_L20N_T3_A19_15	AT41
AT37	IO_L5N_T0_AD9N_15	IO_L20P_T3_A20_15	BA40
AM39	IO_L6P_T0_15	IO_L19N_T3_A21_VREF_15	BA39
AN39	IO_L6N_T0_VREF_15	IO_L19P_T3_A22_15	BB39
AP40	IO_L7P_T1_AD2P_15	IO_L18N_T2_A23_15	BB38
AR40	IO_L7N_T1_AD2N_15	IO_L18P_T2_A24_15	AY38
AP41	IO_L8P_T1_AD10P_15	IO_L17N_T2_A25_15	AW38
AP42	IO_L8N_T1_AD10N_15	IO_L17P_T2_A26_15	BB37
AT39	IO_L9P_T1_DQS_AD3P_15	IO_L16N_T2_A27_15	BA37
AT40	IO_L9N_T1_DQS_AD3N_15	IO_L16P_T2_A28_15	AY37
AR42	IO_L10P_T1_AD11P_15	IO_L15N_T2_DQS_ADV_B_15	AW37
AT42	IO_L10N_T1_AD11N_15	IO_L15P_T2_DQS_15	AY40
AU39	IO_L11P_T1_SRCC_15	IO_L14N_T2_SRCC_15	AY39
AV39	IO_L11N_T1_SRCC_15	IO_L14P_T2_SRCC_15	AW40
AU38	IO_L12P_T1_MRCC_15	IO_L13N_T2_MRCC_15	AW40
AV38	IO_L12N_T1_MRCC_15	IO_L13P_T2_MRCC_15	AW40

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Y38	IO_0_VRN_17	IO_25_VRP_17	AG37
AB41	IO_L1P_T0_17	IO_L24N_T3_17	AK42
AB42	IO_L1N_T0_17	IO_L24P_T3_17	AJ42
W40	IO_L2P_T0_17	IO_L23N_T3_17	AL39
Y40	IO_L2N_T0_17	IO_L23P_T3_17	AK39
Y39	IO_L2N_T0_DQS_17	IO_L22N_T3_17	AJ41
AA39	IO_L3P_T0_DQS_17	IO_L22P_T3_17	AJ40
Y42	IO_L3N_T0_DQS_17	IO_L21N_T3_DQS_17	AL42
AA42	IO_L4P_T0_17	IO_L21P_T3_DQS_17	AL41
AB38	IO_L4N_T0_17	IO_L20N_T3_17	AH41
AB39	IO_L5P_T0_17	IO_L20P_T3_17	AH40
AA40	IO_L5N_T0_17	IO_L19N_T3_VREF_17	AL40
AA41	IO_L6P_T0_17	IO_L19P_T3_17	AK40
AC38	IO_L6N_T0_VREF_17	IO_L18N_T2_17	AK38
AC39	IO_L7P_T1_17	IO_L18P_T2_17	AJ38
AD42	IO_L7N_T1_17	IO_L17N_T2_17	AH38
AE42	IO_L8P_T1_17	IO_L17P_T2_17	AG38
AD38	IO_L8N_T1_17	IO_L16N_T2_17	AG42
AE38	IO_L9P_T1_DQS_17	IO_L16P_T2_17	AF42
AC40	IO_L9N_T1_DQS_17	IO_L15N_T2_DQS_17	AH39
AC41	IO_L10P_T1_17	IO_L15P_T2_DQS_17	AG39
AE39	IO_L10N_T1_17	IO_L14N_T2_SRCC_17	AG41
AE40	IO_L11P_T1_SRCC_17	IO_L14P_T2_SRCC_17	AF41
AD40	IO_L11N_T1_SRCC_17	IO_L13N_T2_MRCC_17	AF40
AD41	IO_L12P_T1_MRCC_17	IO_L13P_T2_MRCC_17	AF39

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L36	IO_0_VRN_19	IO_25_VRP_19	N36
E40	IO_L1P_T0_19	IO_L24N_T3_19	N40
D40	IO_L1N_T0_19	IO_L24P_T3_19	N39
A40	IO_L2P_T0_19	IO_L23N_T3_19	P40
A41	IO_L2N_T0_19	IO_L23P_T3_19	R40
D41	IO_L2N_T0_DQS_19	IO_L22N_T3_19	M39
D42	IO_L3P_T0_DQS_19	IO_L22P_T3_19	N38
B41	IO_L3N_T0_DQS_19	IO_L21N_T3_DQS_19	P42
B42	IO_L4P_T0_19	IO_L21P_T3_DQS_19	R42
F42	IO_L4N_T0_19	IO_L20N_T3_19	M38
E42	IO_L5P_T0_19	IO_L20P_T3_19	M37
C40	IO_L5N_T0_19	IO_L19N_T3_VREF_19	N41
C41	IO_L6P_T0_19	IO_L19P_T3_19	P41
H40	IO_L6N_T0_VREF_19	IO_L18N_T2_19	L37
H41	IO_L7P_T1_19	IO_L18P_T2_19	M36
H39	IO_L7N_T1_19	IO_L17N_T2_19	K38
G39	IO_L8P_T1_19	IO_L17P_T2_19	K37
G41	IO_L8N_T1_19	IO_L16N_T2_19	L42
G42	IO_L9P_T1_DQS_19	IO_L16P_T2_19	M42
F40	IO_L9N_T1_DQS_19	IO_L15N_T2_DQS_19	J42
F41	IO_L10P_T1_19	IO_L15P_T2_DQS_19	K42
J40	IO_L10N_T1_19	IO_L14N_T2_SRCC_19	L41
J41	IO_L11P_T1_SRCC_19	IO_L14P_T2_SRCC_19	M41
K39	IO_L11N_T1_SRCC_19	IO_L13N_T2_MRCC_19	L40
K40	IO_L12P_T1_MRCC_19	IO_L13P_T2_MRCC_19	L39

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Y34	IO_0_VRN_16	IO_25_VRP_16	AB34
AF35	IO_L1P_T0_16	IO_L24N_T3_16	AC29
AF36	IO_L1N_T0_16	IO_L24P_T3_16	AB29
AE37	IO_L2P_T0_16	IO_L23N_T3_16	AA30
AF37	IO_L2N_T0_16	IO_L23P_T3_16	AD30
AF34	IO_L3P_T0_DQS_16	IO_L22N_T3_16	AC30
AG34	IO_L3N_T0_DQS_16	IO_L22P_T3_16	AA32
AD36	IO_L4P_T0_16	IO_L21N_T3_DQS_16	AA31
AD37	IO_L4N_T0_16	IO_L21P_T3_DQS_16	AD31
AC35	IO_L5P_T0_16	IO_L20N_T3_16	AC31
AC36	IO_L5N_T0_16	IO_L20P_T3_16	Y33
AG36	IO_L6P_T0_16	IO_L19N_T3_VREF_16	Y32
AH36	IO_L6N_T0_VREF_16	IO_L19P_T3_16	AE30
Y37	IO_L7P_T1_16	IO_L18N_T2_16	AE29
AA37	IO_L7N_T1_16	IO_L18P_T2_16	AE35
Y35	IO_L8P_T1_16	IO_L17N_T2_16	AE34
AA36	IO_L8N_T1_16	IO_L17P_T2_16	AF32
AB36	IO_L9P_T1_DQS_16	IO_L16N_T2_16	AF31
AB37	IO_L9N_T1_DQS_16	IO_L16P_T2_16	AE33
AA34	IO_L10P_T1_16	IO_L15N_T2_DQS_16	AE32
AA35	IO_L10N_T1_16	IO_L15P_T2_DQS_16	AD35
AB31	IO_L11P_T1_SRCC_16	IO_L14N_T2_SRCC_16	AC34
AB32	IO_L11N_T1_SRCC_16	IO_L14P_T2_SRCC_16	AD33
AB33	IO_L12P_T1_MRCC_16	IO_L13N_T2_MRCC_16	AD32
AC33	IO_L12N_T1_MRCC_16	IO_L13P_T2_MRCC_16	

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N35	IO_0_VRN_18	IO_25_VRP_18	W35
T34	IO_L1P_T0_18	IO_L24N_T3_18	U42
R35	IO_L1N_T0_18	IO_L24P_T3_18	V41
N33	IO_L2P_T0_18	IO_L23N_T3_18	V38
N34	IO_L2N_T0_18	IO_L23P_T3_18	W38
R33	IO_L2N_T0_DQS_18	IO_L22N_T3_18	T42
R34	IO_L3P_T0_DQS_18	IO_L22P_T3_18	U41
P35	IO_L3N_T0_DQS_18	IO_L21N_T3_DQS_18	W42
P36	IO_L4P_T0_18	IO_L21P_T3_DQS_18	W41
T32	IO_L4N_T0_18	IO_L20N_T3_18	T41
R32	IO_L5P_T0_18	IO_L20P_T3_18	T40
P32	IO_L5N_T0_18	IO_L19N_T3_VREF_18	V40
P33	IO_L6P_T0_18	IO_L19P_T3_18	V39
T36	IO_L6N_T0_VREF_18	IO_L18N_T2_18	W33
R37	IO_L7P_T1_18	IO_L18P_T2_18	W32
P37	IO_L7N_T1_18	IO_L17N_T2_18	U33
P38	IO_L8P_T1_18	IO_L17P_T2_18	U32
U34	IO_L8N_T1_18	IO_L16N_T2_18	W37
T35	IO_L9P_T1_DQS_18	IO_L16P_T2_18	W36
R38	IO_L9N_T1_DQS_18	IO_L15N_T2_DQS_18	V34
R39	IO_L10P_T1_18	IO_L15P_T2_DQS_18	V33
U37	IO_L10N_T1_18	IO_L14N_T2_SRCC_18	V36
U38	IO_L11P_T1_SRCC_18	IO_L14P_T2_SRCC_18	V35
U39	IO_L11N_T1_SRCC_18	IO_L13N_T2_MRCC_18	T37
T39	IO_L12P_T1_MRCC_18	IO_L13P_T2_MRCC_18	U36

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AM14	IO_0_VRN_31	IO_25_VRP_31	AP15
AJ16	IO_L1P_T0_31	IO_L24N_T3_31	BB12
AJ15	IO_L1N_T0_31	IO_L24P_T3_31	BA12
AK14	IO_L2P_T0_31	IO_L23N_T3_31	BB13
AK13	IO_L2N_T0_31	IO_L23P_T3_31	BB14
AK15	IO_L2N_T0_DQS_31	IO_L22N_T3_31	AY13
AL14	IO_L3P_T0_DQS_31	IO_L22P_T3_31	AY14
AJ13	IO_L3N_T0_DQS_31	IO_L21N_T3_DQS_31	BA14
AJ12	IO_L4P_T0_31	IO_L21P_T3_DQS_31	BA15
AL16	IO_L4N_T0_31	IO_L20N_T3_31	AY12
AL15	IO_L5P_T0_31	IO_L20P_T3_31	AW12
AK12	IO_L5N_T0_31	IO_L19N_T3_VREF_31	AY15
AK12	IO_L6P_T0_31	IO_L19P_T3_31	AW15
AM12	IO_L6N_T0_VREF_31	IO_L18N_T2_31	AV14
AM13	IO_L7P_T1_31	IO_L18P_T2_31	AV15
AN13	IO_L7N_T1_31	IO_L17N_T2_31	AU12
AM12	IO_L8P_T1_31	IO_L17P_T2_31	AT12
AM11	IO_L8N_T1_31	IO_L16N_T2_31	AT15
AN15	IO_L9P_T1_DQS_31	IO_L16P_T2_31	AR15
AN14	IO_L9N_T1_DQS_31	IO_L15N_T2_DQS_31	AR12
AN11	IO_L10P_T1_31	IO_L15P_T2_DQS_31	AP12
AP11	IO_L10N_T1_31	IO_L14N_T2_SRCC_31	AW13
AR14	IO_L11P_T1_SRCC_31	IO_L14P_T2_SRCC_31	AV13
AT14	IO_L11N_T1_SRCC_31	IO_L13N_T2_MRCC_31	AU13
AP13	IO_L12P_T1_MRCC_31	IO_L13P_T2_MRCC_31	AU14
AR13	IO_L12N_T1_MRCC_31		

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AR20	IO_0_VRN_32	IO_25_VRP_32	AP16
AL19	IO_L1P_T0_32	IO_L24N_T3_32	BA19
AM19	IO_L1N_T0_32	IO_L24P_T3_32	AY19
AK17	IO_L2P_T0_32	IO_L23N_T3_32	BB16
AL17	IO_L2N_T0_32	IO_L23P_T3_32	BA16
AM18	IO_L3P_T0_DQS_32	IO_L22N_T3_32	BA20
AM17	IO_L3N_T0_DQS_32	IO_L22P_T3_32	AY20
AK19	IO_L4P_T0_32	IO_L21N_T3_DQS_32	BB17
AK18	IO_L4N_T0_32	IO_L21P_T3_DQS_32	BA17
AM16	IO_L5P_T0_32	IO_L20N_T3_32	AW20
AN16	IO_L5N_T0_32	IO_L20P_T3_32	AV20
AJ18	IO_L6P_T0_32	IO_L19N_T3_VREF_32	BB18
AJ17	IO_L6N_T0_VREF_32	IO_L19P_T3_32	BB19
AP18	IO_L7P_T1_32	IO_L18N_T2_32	AU16
AP17	IO_L7N_T1_32	IO_L18P_T2_32	AT16
AP20	IO_L8P_T1_32	IO_L17N_T2_32	AW16
AR19	IO_L8N_T1_32	IO_L17P_T2_32	AV16
AN19	IO_L9P_T1_DQS_32	IO_L16N_T2_32	AT19
AN18	IO_L9N_T1_DQS_32	IO_L16P_T2_32	AT20
AR18	IO_L10P_T1_32	IO_L15N_T2_DQS_32	AV19
AR17	IO_L10N_T1_32	IO_L15P_T2_DQS_32	AU19
AU18	IO_L11P_T1_SRCC_32	IO_L14N_T2_SRCC_32	AW17
AV18	IO_L11N_T1_SRCC_32	IO_L14P_T2_SRCC_32	AW18
AT17	IO_L12P_T1_MRCC_32	IO_L13N_T2_MRCC_32	AY17
AU17	IO_L12N_T1_MRCC_32	IO_L13P_T2_MRCC_32	AY18

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R29	IO_0_VRN_34	IO_25_VRP_34	U28
K35	IO_L1P_T0_34	IO_L24N_T3_34	Y30
J35	IO_L1N_T0_34	IO_L24P_T3_34	Y29
J32	IO_L2P_T0_34	IO_L23N_T3_34	U29
J33	IO_L2N_T0_34	IO_L23P_T3_34	V29
K33	IO_L3P_T0_DQS_34	IO_L22N_T3_34	W31
K34	IO_L3N_T0_DQS_34	IO_L22P_T3_34	W30
L34	IO_L4P_T0_34	IO_L21N_T3_DQS_34	T30
L35	IO_L4N_T0_34	IO_L21P_T3_DQS_34	T29
M33	IO_L5P_T0_34	IO_L20N_T3_34	V31
M34	IO_L5N_T0_34	IO_L20P_T3_34	V30
H34	IO_L6P_T0_34	IO_L19N_T3_VREF_34	T31
H35	IO_L6N_T0_VREF_34	IO_L19P_T3_34	U31
K29	IO_L7P_T1_34	IO_L18N_T2_34	P31
K30	IO_L7N_T1_34	IO_L18P_T2_34	R30
J30	IO_L8P_T1_34	IO_L17N_T2_34	N29
H30	IO_L8N_T1_34	IO_L17P_T2_34	N28
L29	IO_L9P_T1_DQS_34	IO_L16N_T2_34	P28
L30	IO_L9N_T1_DQS_34	IO_L16P_T2_34	R28
J31	IO_L10P_T1_34	IO_L15N_T2_DQS_34	M29
H31	IO_L10N_T1_34	IO_L15P_T2_DQS_34	M28
M32	IO_L11P_T1_SRCC_34	IO_L14N_T2_SRCC_34	N31
L32	IO_L11N_T1_SRCC_34	IO_L14P_T2_SRCC_34	P30
L31	IO_L12P_T1_MRCC_34	IO_L13N_T2_MRCC_34	M31
K32	IO_L12N_T1_MRCC_34	IO_L13P_T2_MRCC_34	N30

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M23	IO_0_VRN_36	IO_25_VRP_36	M26
H24	IO_L1P_T0_36	IO_L24N_T3_36	L27
G24	IO_L1N_T0_36	IO_L24P_T3_36	M27
J21	IO_L2P_T0_36	IO_L23N_T3_36	N24
H21	IO_L2N_T0_36	IO_L23P_T3_36	N23
H25	IO_L3P_T0_DQS_36	IO_L22N_T3_36	N26
H26	IO_L3N_T0_DQS_36	IO_L22P_T3_36	N25
G21	IO_L4P_T0_36	IO_L21N_T3_DQS_36	P23
G22	IO_L4N_T0_36	IO_L21P_T3_DQS_36	P22
G26	IO_L5P_T0_36	IO_L20N_T3_36	P26
G27	IO_L5N_T0_36	IO_L20P_T3_36	P25
H23	IO_L6P_T0_36	IO_L19N_T3_VREF_36	N21
G23	IO_L6N_T0_VREF_36	IO_L19P_T3_36	P21
G28	IO_L7P_T1_36	IO_L18N_T2_36	L21
G29	IO_L7N_T1_36	IO_L18P_T2_36	M21
K28	IO_L8P_T1_36	IO_L17N_T2_36	J22
J28	IO_L8N_T1_36	IO_L17P_T2_36	K22
H28	IO_L9P_T1_DQS_36	IO_L16N_T2_36	L26
H29	IO_L9N_T1_DQS_36	IO_L16P_T2_36	L25
K27	IO_L10P_T1_36	IO_L15N_T2_DQS_36	L22
J27	IO_L10N_T1_36	IO_L15P_T2_DQS_36	M22
K24	IO_L11P_T1_SRCC_36	IO_L14N_T2_SRCC_36	J23
K25	IO_L11N_T1_SRCC_36	IO_L14P_T2_SRCC_36	K23
J25	IO_L12P_T1_MRCC_36	IO_L13N_T2_MRCC_36	L24
J26	IO_L12N_T1_MRCC_36	IO_L13P_T2_MRCC_36	M24

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AL24	IO_0_VRN_33	IO_25_VRP_33	AN20
AJ23	IO_L1P_T0_33	IO_L24N_T3_33	BB23
AK23	IO_L1N_T0_33	IO_L24P_T3_33	BB24
AK20	IO_L2P_T0_33	IO_L23N_T3_33	BB21
AL20	IO_L2N_T0_33	IO_L23P_T3_33	BA21
AJ22	IO_L3P_T0_DQS_33	IO_L22N_T3_33	BA24
AK22	IO_L3N_T0_DQS_33	IO_L22P_T3_33	AY24
AL21	IO_L4P_T0_33	IO_L21N_T3_DQS_33	BB22
AM21	IO_L4N_T0_33	IO_L21P_T3_DQS_33	BA22
AJ21	IO_L5P_T0_33	IO_L20N_T3_33	BA25
AJ20	IO_L5N_T0_33	IO_L20P_T3_33	AY25
AL22	IO_L6P_T0_33	IO_L19N_T3_VREF_33	AY22
AM22	IO_L6N_T0_VREF_33	IO_L19P_T3_33	AY23
AM24	IO_L7P_T1_33	IO_L18N_T2_33	AV24
AN24	IO_L7N_T1_33	IO_L18P_T2_33	AU24
AM23	IO_L8P_T1_33	IO_L17N_T2_33	AW21
AN23	IO_L8N_T1_33	IO_L17P_T2_33	AV21
AP23	IO_L9P_T1_DQS_33	IO_L16N_T2_33	AT24
AP22	IO_L9N_T1_DQS_33	IO_L16P_T2_33	AR24
AN21	IO_L10P_T1_33	IO_L15N_T2_DQS_33	AU21
AP21	IO_L10N_T1_33	IO_L15P_T2_DQS_33	AT21
AR23	IO_L11P_T1_SRCC_33	IO_L14N_T2_SRCC_33	AW22
AR22	IO_L11N_T1_SRCC_33	IO_L14P_T2_SRCC_33	AW23
AT22	IO_L12P_T1_MRCC_33	IO_L13N_T2_MRCC_33	AV23
AU22	IO_L12N_T1_MRCC_33	IO_L13P_T2_MRCC_33	AU23

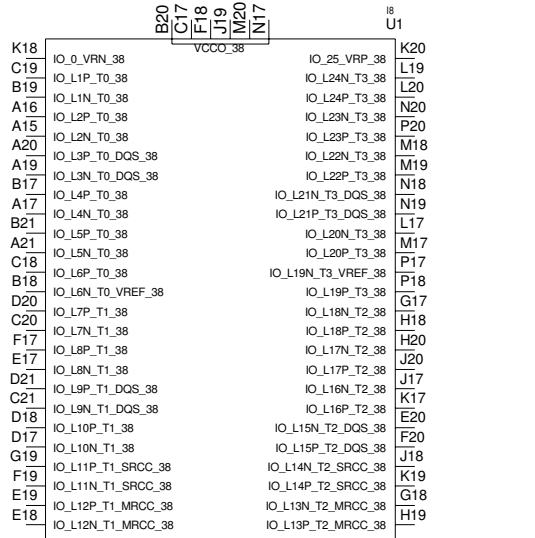
XC7VX690T-FFG1761

G31	IO_0_VRN_35	IO_25_VRP_35	G34
B36	IO_L1P_T0_AD4P_35	IO_L24N_T3_35	H36
A37	IO_L1N_T0_AD4N_35	IO_L24P_T3_35	J36
B34	IO_L2P_T0_AD12P_35	IO_L23N_T3_35	G38
A34	IO_L2N_T0_AD12N_35	IO_L23P_T3_35	H38
B39	IO_L3P_T0_DQS_AD5P_35	IO_L22N_T3_35	J38
A39	IO_L3N_T0_DQS_AD5N_35	IO_L22P_T3_35	J37
A35	IO_L4P_T0_35	IO_L21N_T3_DQS_35	E39
A36	IO_L4N_T0_35	IO_L21P_T3_DQS_35	F39
C38	IO_L5P_T0_AD13P_35	IO_L20N_T3_35	G37
C39	IO_L5N_T0_AD13N_35	IO_L20P_T3_35	G36
B37	IO_L6P_T0_35	IO_L19N_T3_VREF_35	E38
B38	IO_L6N_T0_VREF_35	IO_L19P_T3_35	E37
E32	IO_L7P_T1_AD6P_35	IO_L18N_T2_35	G33
D32	IO_L7N_T1_AD6N_35	IO_L18P_T2_35	H33
B32	IO_L8P_T1_AD14P_35	IO_L17N_T2_35	F35
B33	IO_L8N_T1_AD14N_35	IO_L17P_T2_35	F34
E33	IO_L9P_T1_DQS_AD7P_35	IO_L16N_T2_35	F37
D33	IO_L9N_T1_DQS_AD7N_35	IO_L16P_T2_35	F36
C33	IO_L10P_T1_AD15P_35	IO_L15N_T2_DQS_35	F32
C34	IO_L10N_T1_AD15N_35	IO_L15P_T2_DQS_35	G32
D35	IO_L11P_T1_SRCC_35	IO_L14N_T2_SRCC_35	D38
D36	IO_L11N_T1_SRCC_35	IO_L14P_T2_SRCC_35	D37
C35	IO_L12P_T1_MRCC_35	IO_L13N_T2_MRCC_35	E35
C36	IO_L12N_T1_MRCC_35	IO_L13P_T2_MRCC_35	E34

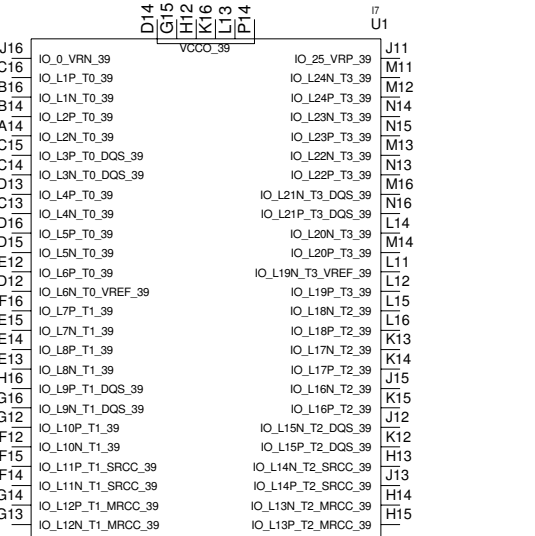
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F21	IO_0_VRN_37	IO_25_VRP_37	F24
A24	IO_L1P_T0_37	IO_L24N_T3_37	F31
A25	IO_L1N_T0_37	IO_L24P_T3_37	F30
B22	IO_L2P_T0_37	IO_L23N_T3_37	F27
A22	IO_L2N_T0_37	IO_L23P_T3_37	F26
A26	IO_L3P_T0_DQS_37	IO_L22N_T3_37	E29
A27	IO_L3N_T0_DQS_37	IO_L22P_T3_37	F29
C23	IO_L4P_T0_37	IO_L21N_T3_DQS_37	E28
B23	IO_L4N_T0_37	IO_L21P_T3_DQS_37	E27
B26	IO_L5P_T0_37	IO_L20N_T3_37	C30
B27	IO_L5N_T0_37	IO_L20P_T3_37	D30
C24	IO_L6P_T0_37	IO_L19N_T3_VREF_37	D31
B24	IO_L6N_T0_VREF_37	IO_L19P_T3_37	E30
E23	IO_L7P_T1_37	IO_L18N_T2_37	B31
E24	IO_L7N_T1_37	IO_L18P_T2_37	C31
F22	IO_L8P_T1_37	IO_L17N_T2_37	A30
E22	IO_L8N_T1_37	IO_L17P_T2_37	A29
F25	IO_L9P_T1_DQS_37	IO_L16N_T2_37	A32
E25	IO_L9N_T1_DQS_37	IO_L16P_T2_37	A31
D22	IO_L10P_T1_37	IO_L15N_T2_DQS_37	B29
D23	IO_L10N_T1_37	IO_L15P_T2_DQS_37	B28
D25	IO_L11P_T1_SRCC_37	IO_L14N_T2_SRCC_37	C29
D26	IO_L11N_T1_SRCC_37	IO_L14P_T2_SRCC_37	C28
C25	IO_L12P_T1_MRCC_37	IO_L13N_T2_MRCC_37	D28
C26	IO_L12N_T1_MRCC_37	IO_L13P_T2_MRCC_37	D27

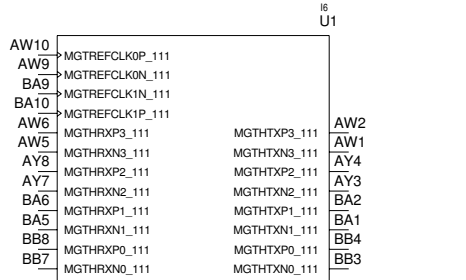
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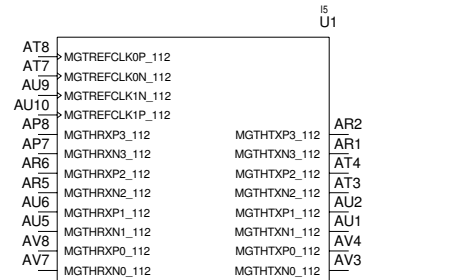
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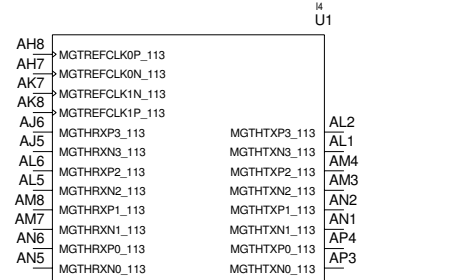
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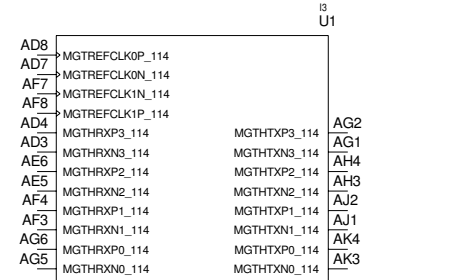
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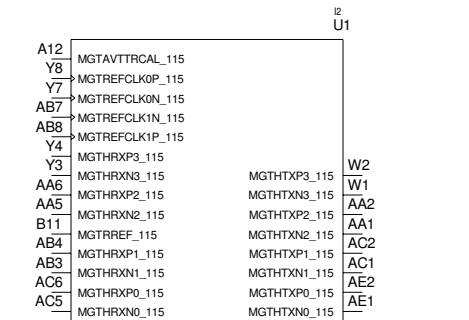
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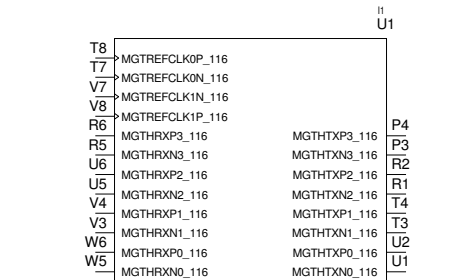
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XC7VX690T-FFG1761



XC7VX690T-FFG1761



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PAGE 6: SYMBOLS 30

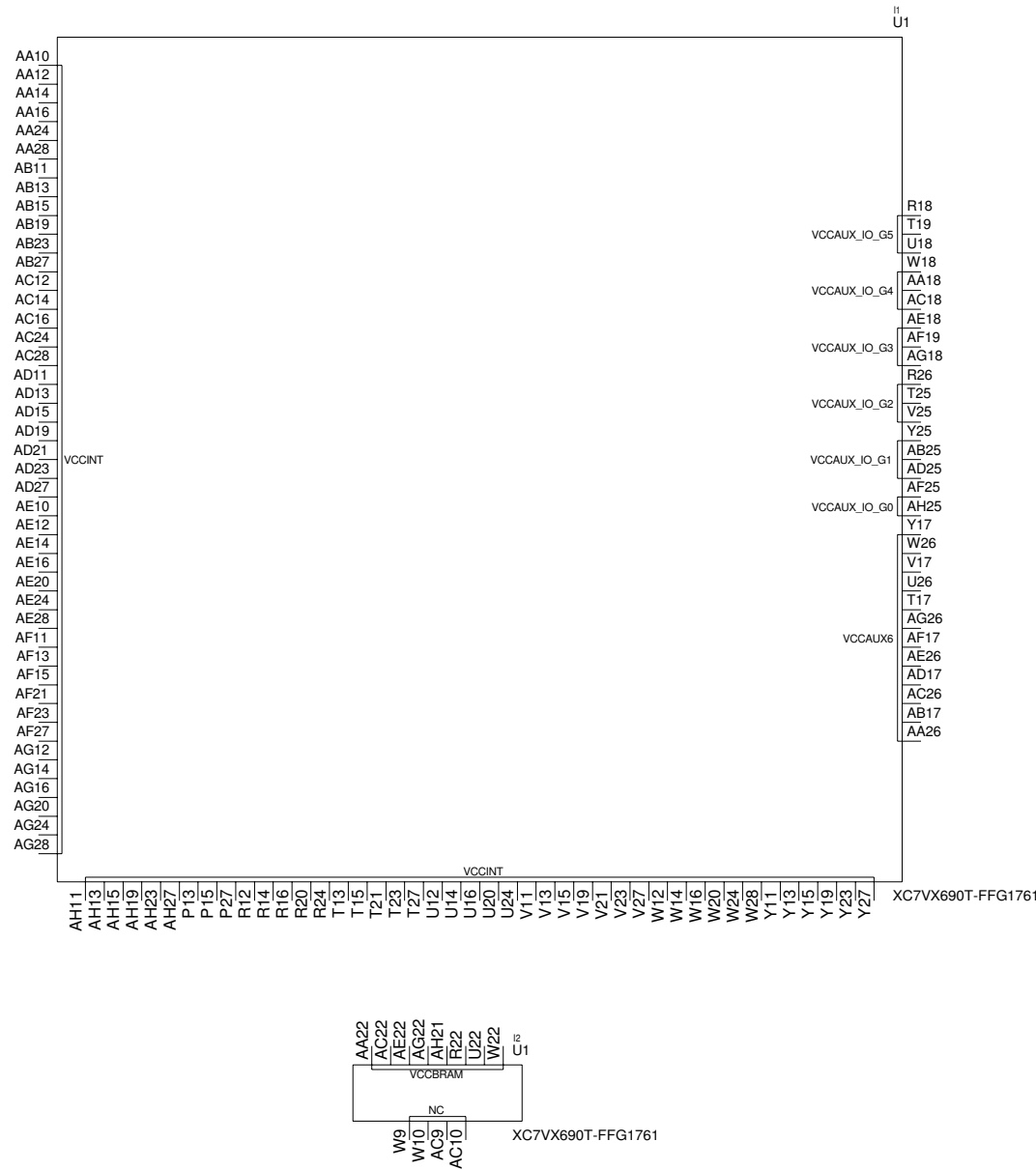
GND PINS

XC7VX690T-FFG1761

SIZE C	DRAWING NO. XXX-XXXXX-XXX	REV 1
top 6/8		SHEET 6 OF 19

CONVEY CONFIDENTIAL INFORMATION

PAGE 7: SYMBOLS 31 AND 32



The drawing shows a rectangular plate with a coordinate grid. The grid has columns labeled 1 through 8 and rows labeled A through D. Two rectangular features are shown:

- CADENHANCE_SYMBOL** (labeled I1): A rectangle located in the upper left quadrant, spanning approximately from column 4 to 5 and row C to D.
- CADENHANCE_SYMBOL_X1** (labeled I2): A rectangle located in the lower left quadrant, spanning approximately from column 4 to 5 and row A to B.

A title block is located in the bottom right corner, containing the following information:

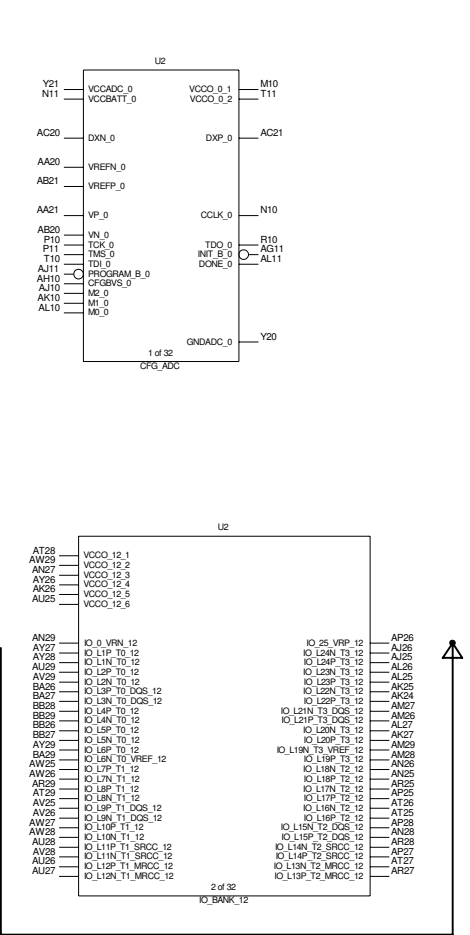
SIZE	DRAWING NO.	REV
B	XXX-XXXXX-XXX	1
top 8/8		SHEET 8 OF 19

CONVEY CONFIDENTIAL INFORMATION

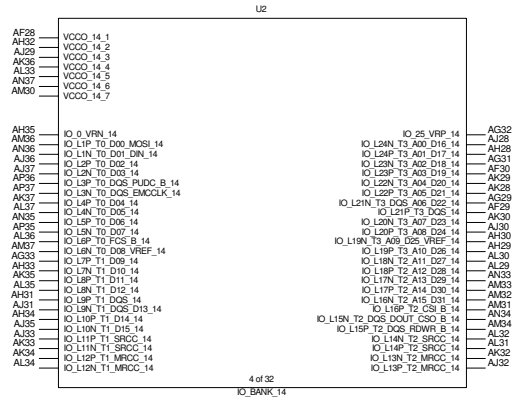
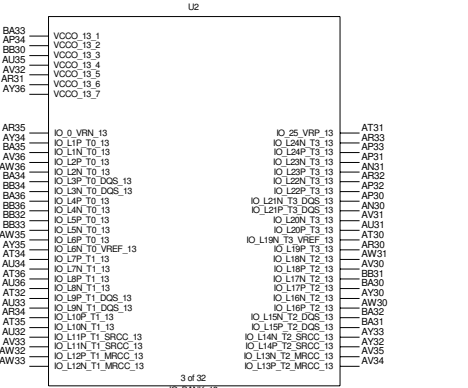
CADENHANCE PARTGEN XC7VX690T_FFG1761

GENERATED PART

PAGE:1 SYMBOLS 1-4



IO PINS WRAP AROUND PART
LIKE CUSTOMER WANTED



APPROVALS		DATE	CONVEY COMPUTER CORP. 1302 EAST COLLINS RICHARDSON, TEXAS 75081		
DRAWN WCL		10-25-2010	TITLE FPGA SYMBOL_TEST		
CHECKED xx		xx-xx-xx	SIZE C		DRAWING NO. XXX-XXXX-XXX
ENGINEER WCL		xx-xx-xx	REV 1		
RELEASED xx		xx-xx-xx	cadenhance_symbol		SHEET 9 OF 19

PAGE:2 SYMBOLS 5 -10

AW39	VCCO_15.1		
AR41	VCCO_15.2		
AM40	VCCO_15.3		
AV42	VCCO_15.4		
BB40	VCCO_15.5		
AT38	VCCO_15.6		
AM38	IO_0_VRN_15	IO_25_VRP_15	AL37
AN38	IO_L1P_T0_ADP_15	IO_L24N_T3_RS0_15	AW42
AP38	IO_L1N_T0_ADP_15	IO_L24P_T3_RS1_15	AW41
AM41	IO_L2P_T0_ADP_15	IO_L22N_T3_FWE_B_15	BA41
AM42	IO_L2N_T0_ADP_15	IO_L22P_T3_FWE_B_15	BA41
AR38	IO_L3P_T0_DOS_ADP_15	IO_L22N_T3_A16_15	AL41
AP39	IO_L3N_T0_DOS_ADP_15	IO_L22P_T3_A17_15	AL41
AN40	IO_L4P_T0_15	IO_L21N_T3_DOS_A16_15	BA42
AM41	IO_L4N_T0_15	IO_L21P_T3_DOS_15	AV42
AR37	IO_L4P_T0_ADP_15	IO_L21N_T3_A16_15	AL42
AT37	IO_L5N_T0_ADP_15	IO_L20P_T3_A20_15	AT41
AM39	IO_L4P_T0_15	IO_L19N_T3_A21_VREF_15	BA40
AN39	IO_L4N_T0_VREF_15	IO_L19P_T3_A22_15	BA39
AP40	IO_L7P_T1_ADP_15	IO_L18N_T2_A23_15	BB39
AR40	IO_L7N_T1_ADP_15	IO_L18P_T2_A24_15	BB38
AP41	IO_L8P_T1_ADP_15	IO_L17N_T2_A25_15	AV38
AT40	IO_L8N_T1_ADP_15	IO_L17P_T2_A26_15	AW38
AM42	IO_L8P_T1_DOS_ADP_15	IO_L16N_T2_A27_15	BB37
AR42	IO_L1P_T1_ADP_15	IO_L16P_T2_A28_15	BA37
AP42	IO_L1N_T1_ADP_15	IO_L15N_T2_DOS_ADP_15	AV37
AT42	IO_L1P_T1_DOS_15	IO_L15P_T2_DOS_15	AW37
AM38	IO_L1P_T1_SRCC_15	IO_L14N_T2_SRCC_15	AY40
AN39	IO_L1N_T1_SRCC_15	IO_L14P_T2_SRCC_15	AW40
AP38	IO_L1P_T1_MRCC_15	IO_L13N_T2_MRCC_15	AW40
AR38	IO_L1N_T1_MRCC_15	IO_L13P_T2_MRCC_15	AW40

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IO_BANK_15

AH42	VCCO_17.1		
AB40	VCCO_17.2		
AJ39	VCCO_17.3		
AF38	VCCO_17.4		
AE41	VCCO_17.5		
AC37	VCCO_17.6		
Y38	IO_0_VRN_17	IO_25_VRP_17	AG37
AB41	IO_L1P_T0_17	IO_L24N_T3_17	AW42
AN38	IO_L1N_T0_17	IO_L24P_T3_17	AW41
AP38	IO_L2P_T0_17	IO_L22N_T3_17	BA41
AM41	IO_L2N_T0_17	IO_L22P_T3_17	BA41
Y40	IO_L3P_T0_DOS_17	IO_L22N_T3_A16_17	AL41
W39	IO_L3N_T0_DOS_17	IO_L21N_T3_DOS_17	BA42
Y42	IO_L4P_T0_17	IO_L21P_T3_DOS_17	AV42
AN39	IO_L4N_T0_17	IO_L20P_T3_A20_17	AT41
AP40	IO_L7P_T1_ADP_17	IO_L19N_T3_A21_VREF_17	BA40
AR40	IO_L7N_T1_ADP_17	IO_L19P_T3_A22_17	BA39
AP41	IO_L8P_T1_ADP_17	IO_L18N_T2_A23_17	BB39
AT40	IO_L8N_T1_ADP_17	IO_L18P_T2_A24_17	BB38
AM42	IO_L1P_T1_ADP_17	IO_L17N_T2_A25_17	AV38
AR42	IO_L1N_T1_ADP_17	IO_L17P_T2_A26_17	AW38
AP42	IO_L1P_T1_DOS_17	IO_L16N_T2_A27_17	BB37
AT42	IO_L1P_T1_DOS_17	IO_L16P_T2_A28_17	BA37
AM38	IO_L1P_T1_SRCC_17	IO_L15N_T2_DOS_17	AV37
AN39	IO_L1N_T1_SRCC_17	IO_L15P_T2_DOS_17	AW37
AP38	IO_L1P_T1_MRCC_17	IO_L14N_T2_SRCC_17	AY40
AR38	IO_L1N_T1_MRCC_17	IO_L14P_T2_SRCC_17	AW40
AD41	IO_L1P_T1_MRCC_17	IO_L13N_T2_MRCC_17	AW40
	IO_L1N_T1_MRCC_17	IO_L13P_T2_MRCC_17	AW40

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IO_BANK_17

E41	VCCO_19.1		
H42	VCCO_19.2		
J39	VCCO_19.3		
N37	VCCO_19.4		
B40	VCCO_19.5		
R41	VCCO_19.6		
M40	VCCO_19.7		
L36	IO_0_VRN_19	IO_25_VRP_19	N36
E40	IO_L1P_T0_19	IO_L24N_T3_19	N40
D40	IO_L1N_T0_19	IO_L24P_T3_19	N39
A40	IO_L2P_T0_19	IO_L22N_T3_19	P40
A41	IO_L2N_T0_19	IO_L22P_T3_19	P40
D42	IO_L3P_T0_DOS_19	IO_L22N_T3_A16_19	N38
B41	IO_L3N_T0_DOS_19	IO_L21N_T3_DOS_19	P42
B42	IO_L4P_T0_19	IO_L21P_T3_DOS_19	M38
F42	IO_L4N_T0_19	IO_L20P_T3_A20_19	M37
E42	IO_L5P_T0_19	IO_L19N_T3_A21_VREF_19	N41
C40	IO_L5N_T0_19	IO_L19P_T3_A22_19	P41
C41	IO_L7P_T1_ADP_19	IO_L18N_T2_A23_19	M36
H40	IO_L7N_T1_ADP_19	IO_L18P_T2_A24_19	K38
G39	IO_L8P_T1_ADP_19	IO_L17N_T2_A25_19	K37
G40	IO_L8N_T1_ADP_19	IO_L17P_T2_A26_19	L42
G41	IO_L1P_T1_ADP_19	IO_L16N_T2_A27_19	M42
G42	IO_L1N_T1_ADP_19	IO_L16P_T2_A28_19	J42
F40	IO_L1P_T1_DOS_19	IO_L15N_T2_DOS_19	K42
J40	IO_L1N_T1_DOS_19	IO_L15P_T2_DOS_19	L41
J41	IO_L1P_T1_SRCC_19	IO_L14N_T2_SRCC_19	M41
K39	IO_L1N_T1_SRCC_19	IO_L14P_T2_SRCC_19	L40
K40	IO_L1P_T1_MRCC_19	IO_L13N_T2_MRCC_19	L39
	IO_L1N_T1_MRCC_19	IO_L13P_T2_MRCC_19	

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IO_BANK_19

Y36	VCCO_16.1		
AA33	VCCO_16.2		
AB30	VCCO_16.3		
AD34	VCCO_16.4		
AE31	VCCO_16.5		
AC35	VCCO_16.6		
Y34	IO_0_VRN_16	IO_25_VRP_16	AB34
AF36	IO_L1P_T0_16	IO_L24N_T3_16	AC39
AE37	IO_L1N_T0_16	IO_L24P_T3_16	AB30
AF37	IO_L2P_T0_16	IO_L22N_T3_16	AA30
AF34	IO_L2N_T0_16	IO_L22P_T3_16	AD30
AG34	IO_L3P_T0_DOS_16	IO_L22N_T3_A16_16	AC30
AD36	IO_L3N_T0_DOS_16	IO_L21N_T3_DOS_16	AA32
Y35	IO_L4P_T0_16	IO_L21P_T3_DOS_16	AC31
AC35	IO_L4N_T0_16	IO_L20P_T3_A20_16	P36
AC36	IO_L5P_T0_16	IO_L19N_T3_A21_VREF_16	Y32
AG36	IO_L5N_T0_16	IO_L19P_T3_A22_16	AE30
AH36	IO_L7P_T1_ADP_16	IO_L18N_T2_A23_16	E32
Y37	IO_L7N_T1_ADP_16	IO_L18P_T2_A24_16	E30
Y38	IO_L8P_T1_ADP_16	IO_L17N_T2_A25_16	R37
AB36	IO_L8N_T1_ADP_16	IO_L17P_T2_A26_16	P37
AB37	IO_L1P_T1_ADP_16	IO_L16N_T2_A27_16	AF32
AA34	IO_L1N_T1_ADP_16	IO_L16P_T2_A28_16	AF31
AA35	IO_L1P_T1_DOS_16	IO_L15N_T2_DOS_16	AE33
AB31	IO_L1N_T1_DOS_16	IO_L15P_T2_DOS_16	AE32
AB32	IO_L1P_T1_SRCC_16	IO_L14N_T2_SRCC_16	AD35
AB33	IO_L1N_T1_SRCC_16	IO_L14P_T2_SRCC_16	AD33
AC33	IO_L1P_T1_MRCC_16	IO_L13N_T2_MRCC_16	AD32
	IO_L1N_T1_MRCC_16	IO_L13P_T2_MRCC_16	

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IO_BANK_16

W39	VCCO_18.1		
P34	VCCO_18.2		
U35	VCCO_18.3		
V32	VCCO_18.4		
V42	VCCO_18.5		
T38	VCCO_18.6		
N35	IO_0_VRN_18	IO_25_VRP_18	W35
T34	IO_L1P_T0_18	IO_L24N_T3_18	U42
R35	IO_L1N_T0_18	IO_L24P_T3_18	U41
N33	IO_L2P_T0_18	IO_L22N_T3_18	Y38
N34	IO_L2N_T0_18	IO_L22P_T3_18	W38
R34	IO_L3P_T0_DOS_18	IO_L22N_T3_A16_18	U41
P35	IO_L3N_T0_DOS_18	IO_L21N_T3_DOS_18	W42
P36	IO_L4P_T0_18	IO_L21P_T3_DOS_18	W41
T32	IO_L4N_T0_18	IO_L20P_T3_A20_18	T41
P32	IO_L5P_T0_18	IO_L19N_T3_A21_VREF_18	V40
P33	IO_L5N_T0_18	IO_L19P_T3_A22_18	V39
T36	IO_L7P_T1_ADP_18	IO_L18N_T2_A23_18	W33
R37	IO_L7N_T1_ADP_18	IO_L18P_T2_A24_18	W32
P37	IO_L8P_T1_ADP_18	IO_L17N_T2_A25_18	U33
P38	IO_L8N_T1_ADP_18	IO_L17P_T2_A26_18	U32
U34	IO_L1P_T1_ADP_18	IO_L16N_T2_A27_18	W37
T35	IO_L1N_T1_ADP_18	IO_L16P_T2_A28_18	W36
R39	IO_L1P_T1_DOS_18	IO_L15N_T2_DOS_18	V34
U37	IO_L1N_T1_DOS_18	IO_L15P_T2_DOS_18	V33
U38	IO_L1P_T1_SRCC_18	IO_L14N_T2_SRCC_18	V36
U39	IO_L1N_T1_SRCC_18	IO_L14P_T2_SRCC_18	V35
T39	IO_L1P_T1_MRCC_18	IO_L13N_T2_MRCC_18	V37
	IO_L1N_T1_MRCC_18	IO_L13P_T2_MRCC_18	U36

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IO_BANK_18

BA13	VCCO_31.1		
AL13	VCCO_31.2		
AP14	VCCO_31.3		
AR11	VCCO_31.4		
AK16	VCCO_31.5		
AV12	VCCO_31.6		
AL15	VCCO_31.7		
AM14	IO_0_VRN_31	IO_25_VRP_31	AP15
AJ16	IO_L1P_T0_31	IO_L24N_T3_31	BB12
AJ15	IO_L1N_T0_31	IO_L24P_T3_31	BA12
AK13	IO_L2P_T0_31	IO_L22N_T3_31	BB13
F41	IO_L2N_T0_31	IO_L22P_T3_31	BB14
AK16	IO_L3P_T0_DOS_31	IO_L22N_T3_A16_31	AY13
AJ12	IO_L3N_T0_DOS_31	IO_L21N_T3_DOS_31	AY14
AJ13	IO_L4P_T0_31	IO_L21P_T3_DOS_31	BA14
AL16	IO_L4N_T0_31	IO_L20P_T3_A20_31	BA15
AL15	IO_L5P_T0_31	IO_L19N_T3_A21_VREF_31	AY12
AL12	IO_L5N_T0_31	IO_L19P_T3_A22_31	AW12
AM13	IO_L7P_T1_ADP_31	IO_L18N_T2_A23_31	AW15
AN13	IO_L7N_T1_ADP_31	IO_L18P_T2_A24_31	AV14
AM12	IO_L8P_T1_ADP_31	IO_L17N_T2_A25_31	AV15
AN15	IO_L8N_T1_ADP_31	IO_L17P_T2_A26_31	AT12
AN14	IO_L1P_T1_ADP_31	IO_L16N_T2_A27_31	AP15
AN11	IO_L1N_T1_ADP_31	IO_L16P_T2_A28_31	AP12
AP11	IO_L1P_T1_DOS_31	IO_L15N_T2_DOS_31	AW13
AR14	IO_L1N_T1_DOS_31	IO_L15P_T2_DOS_31	AV13
AT14	IO_L1P_T1_SRCC_31	IO_L14N_T2_SRCC_31	AL13
AP18	IO_L1N_T1_SRCC_31	IO_L14P_T2_SRCC_31	AL14
AR13	IO_L1P_T1_MRCC_31	IO_L13N_T2_MRCC_31	
	IO_L1N_T1_MRCC_31	IO_L13P_T2_MRCC_31	

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IO_BANK_31

PAGE3:SYMBOLS 11-16

U2		
AY16	VCCO_32.1	
AY19	VCCO_32.2	
BB20	VCCO_32.3	
AW19	VCCO_32.4	
AY17	VCCO_32.5	
AT18	VCCO_32.6	
AP20	IO_0_VRN_32	IO_25_VRP_32
AL19	IO_L1P_T0_32	IO_L24N_T3_32
AM19	IO_L1N_T0_32	IO_L24P_T3_32
AK17	IO_L2P_T0_32	IO_L22N_T3_32
AL17	IO_L2N_T0_32	IO_L22P_T3_32
AM16	IO_L3P_T0_DQS_32	IO_L22N_T3_32
AM17	IO_L3N_T0_DQS_32	IO_L22P_T3_32
AK19	IO_L4P_T0_32	IO_L21N_T3_DQS_32
AK18	IO_L4N_T0_32	IO_L21P_T3_DQS_32
AM16	IO_L5P_T0_32	IO_L20N_T3_32
AN16	IO_L5N_T0_32	IO_L20P_T3_32
AJ16	IO_L6P_T0_32	IO_L19N_T3_VREF_32
AJ17	IO_L6N_T0_VREF_32	IO_L19P_T3_32
AP19	IO_L7P_T1_32	IO_L18N_T2_32
AP17	IO_L7N_T1_32	IO_L18P_T2_32
AP20	IO_L8P_T1_32	IO_L17N_T2_32
AN19	IO_L8N_T1_32	IO_L17P_T2_32
AN18	IO_L9P_T1_DQS_32	IO_L16N_T2_32
AR18	IO_L9N_T1_DQS_32	IO_L16P_T2_32
AJ17	IO_L10P_T1_32	IO_L15N_T2_DQS_32
AJ18	IO_L10N_T1_32	IO_L15P_T2_DQS_32
AJ19	IO_L11P_T1_SRCC_32	IO_L14N_T2_SRCC_32
AV18	IO_L11N_T1_SRCC_32	IO_L14P_T2_SRCC_32
AJ17	IO_L12P_T1_MRCC_32	IO_L13N_T2_MRCC_32
AJ17	IO_L12N_T1_MRCC_32	IO_L13P_T2_MRCC_32

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IO_BANK_32

U2		
W29	VCCO_34.1	
M30	VCCO_34.2	
R31	VCCO_34.3	
T29	VCCO_34.4	
H32	VCCO_34.5	
H32	VCCO_34.6	
R29	IO_0_VRN_34	IO_25_VRP_34
K35	IO_L1P_T0_34	IO_L24N_T3_34
J35	IO_L1N_T0_34	IO_L24P_T3_34
J33	IO_L2P_T0_34	IO_L22N_T3_34
K33	IO_L2N_T0_34	IO_L22P_T3_34
K34	IO_L3P_T0_DQS_34	IO_L22N_T3_34
L34	IO_L3N_T0_DQS_34	IO_L22P_T3_34
L35	IO_L4P_T0_34	IO_L21N_T3_DQS_34
M33	IO_L4N_T0_34	IO_L21P_T3_DQS_34
H33	IO_L5P_T0_34	IO_L20N_T3_34
H34	IO_L5N_T0_34	IO_L20P_T3_34
H35	IO_L6P_T0_34	IO_L19N_T3_VREF_34
K30	IO_L6N_T0_VREF_34	IO_L19P_T3_34
K30	IO_L7P_T1_34	IO_L18N_T2_34
H30	IO_L7N_T1_34	IO_L18P_T2_34
L29	IO_L8P_T1_34	IO_L17N_T2_34
L29	IO_L8N_T1_34	IO_L17P_T2_34
J31	IO_L9P_T1_DQS_34	IO_L16N_T2_34
H31	IO_L9N_T1_DQS_34	IO_L16P_T2_34
H32	IO_L10P_T1_34	IO_L15N_T2_DQS_34
L32	IO_L10N_T1_34	IO_L15P_T2_DQS_34
L31	IO_L11P_T1_SRCC_34	IO_L14N_T2_SRCC_34
K32	IO_L11N_T1_SRCC_34	IO_L14P_T2_SRCC_34
K32	IO_L12P_T1_MRCC_34	IO_L13N_T2_MRCC_34
K32	IO_L12N_T1_MRCC_34	IO_L13P_T2_MRCC_34

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IO_BANK_34

U2		
P54	VCCO_36.1	
G25	VCCO_36.2	
H25	VCCO_36.3	
N27	VCCO_36.4	
K28	VCCO_36.5	
J26	VCCO_36.6	
J26	VCCO_36.7	
M23	IO_0_VRN_36	IO_25_VRP_36
H24	IO_L1P_T0_36	IO_L24N_T3_36
G24	IO_L1N_T0_36	IO_L24P_T3_36
J21	IO_L2P_T0_36	IO_L22N_T3_36
H21	IO_L2N_T0_36	IO_L22P_T3_36
H26	IO_L3P_T0_DQS_36	IO_L22N_T3_36
H26	IO_L3N_T0_DQS_36	IO_L22P_T3_36
G21	IO_L4P_T0_36	IO_L21N_T3_DQS_36
G21	IO_L4N_T0_36	IO_L21P_T3_DQS_36
G27	IO_L5P_T0_36	IO_L20N_T3_36
G27	IO_L5N_T0_36	IO_L20P_T3_36
G23	IO_L6P_T0_36	IO_L19N_T3_VREF_36
G23	IO_L6N_T0_VREF_36	IO_L19P_T3_36
G25	IO_L7P_T1_36	IO_L18N_T2_36
G25	IO_L7N_T1_36	IO_L18P_T2_36
K28	IO_L8P_T1_36	IO_L17N_T2_36
H28	IO_L8N_T1_36	IO_L17P_T2_36
H28	IO_L9P_T1_DQS_36	IO_L16N_T2_36
K27	IO_L9N_T1_DQS_36	IO_L16P_T2_36
J27	IO_L10P_T1_36	IO_L15N_T2_DQS_36
K25	IO_L10N_T1_36	IO_L15P_T2_DQS_36
K25	IO_L11P_T1_SRCC_36	IO_L14N_T2_SRCC_36
J26	IO_L11N_T1_SRCC_36	IO_L14P_T2_SRCC_36
J26	IO_L12P_T1_MRCC_36	IO_L13N_T2_MRCC_36
J26	IO_L12N_T1_MRCC_36	IO_L13P_T2_MRCC_36

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IO_BANK_36

U2		
BA23	VCCO_33.1	
AL23	VCCO_33.2	
AN20	VCCO_33.3	
AP24	VCCO_33.4	
AV22	VCCO_33.5	
AP21	VCCO_33.6	
AL24	IO_0_VRN_33	IO_25_VRP_33
AJ23	IO_L1P_T0_33	IO_L24N_T3_33
AK23	IO_L1N_T0_33	IO_L24P_T3_33
AK20	IO_L2P_T0_33	IO_L22N_T3_33
AL20	IO_L2N_T0_33	IO_L22P_T3_33
AK22	IO_L3P_T0_DQS_33	IO_L22N_T3_33
AK22	IO_L3N_T0_DQS_33	IO_L22P_T3_33
AL21	IO_L4P_T0_33	IO_L21N_T3_DQS_33
AK21	IO_L4N_T0_33	IO_L21P_T3_DQS_33
AJ21	IO_L5P_T0_33	IO_L20N_T3_33
AJ20	IO_L5N_T0_33	IO_L20P_T3_33
AL22	IO_L6P_T0_33	IO_L19N_T3_VREF_33
AM22	IO_L6N_T0_VREF_33	IO_L19P_T3_33
AN24	IO_L7P_T1_33	IO_L18N_T2_33
AN24	IO_L7N_T1_33	IO_L18P_T2_33
AN23	IO_L8P_T1_33	IO_L17N_T2_33
AN23	IO_L8N_T1_33	IO_L17P_T2_33
AP23	IO_L9P_T1_DQS_33	IO_L16N_T2_33
AP22	IO_L9N_T1_DQS_33	IO_L16P_T2_33
AN21	IO_L10P_T1_33	IO_L15N_T2_DQS_33
AP21	IO_L10N_T1_33	IO_L15P_T2_DQS_33
AP23	IO_L11P_T1_SRCC_33	IO_L14N_T2_SRCC_33
AP22	IO_L11N_T1_SRCC_33	IO_L14P_T2_SRCC_33
AL22	IO_L12P_T1_MRCC_33	IO_L13N_T2_MRCC_33
AL22	IO_L12N_T1_MRCC_33	IO_L13P_T2_MRCC_33

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IO_BANK_33

U2		
C37	VCCO_35.1	
G35	VCCO_35.2	
A33	VCCO_35.3	
F38	VCCO_35.4	
D34	VCCO_35.5	
K36	VCCO_35.6	
K36	VCCO_35.7	
G31	IO_0_VRN_35	IO_25_VRP_35
B36	IO_L1P_T0_ADAP_35	IO_L24N_T3_35
A37	IO_L1N_T0_ADAP_35	IO_L24P_T3_35
B34	IO_L2P_T0_ADAP_35	IO_L22N_T3_35
A34	IO_L2N_T0_ADAP_35	IO_L22P_T3_35
B38	IO_L3P_T0_DQS_ADAP_35	IO_L22N_T3_35
A38	IO_L3N_T0_DQS_ADAP_35	IO_L22P_T3_35
A35	IO_L4P_T0_35	IO_L21N_T3_DQS_35
A36	IO_L4N_T0_35	IO_L21P_T3_DQS_35
C38	IO_L5P_T0_ADAP_35	IO_L20N_T3_35
B37	IO_L5N_T0_ADAP_35	IO_L20P_T3_35
C38	IO_L6P_T0_35	IO_L19N_T3_VREF_35
B37	IO_L6N_T0_VREF_35	IO_L19P_T3_35
E32	IO_L7P_T1_ADAP_35	IO_L18N_T2_35
D32	IO_L7N_T1_ADAP_35	IO_L18P_T2_35
B33	IO_L8P_T1_ADAP_35	IO_L17N_T2_35
E33	IO_L8N_T1_ADAP_35	IO_L17P_T2_35
D33	IO_L9P_T1_DQS_ADAP_35	IO_L16N_T2_35
C33	IO_L9N_T1_DQS_ADAP_35	IO_L16P_T2_35
C34	IO_L10P_T1_ADAP_35	IO_L15N_T2_DQS_35
D33	IO_L10N_T1_ADAP_35	IO_L15P_T2_DQS_35
D36	IO_L11P_T1_SRCC_35	IO_L14N_T2_SRCC_35
C36	IO_L11N_T1_SRCC_35	IO_L14P_T2_SRCC_35
C36	IO_L12P_T1_MRCC_35	IO_L13N_T2_MRCC_35
C36	IO_L12N_T1_MRCC_35	IO_L13P_T2_MRCC_35

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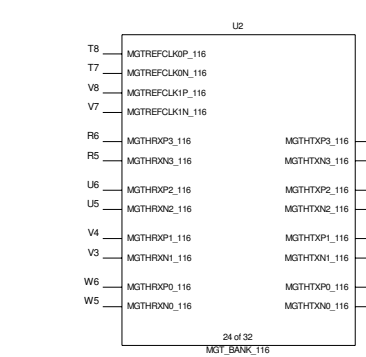
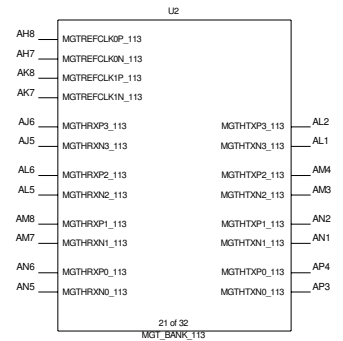
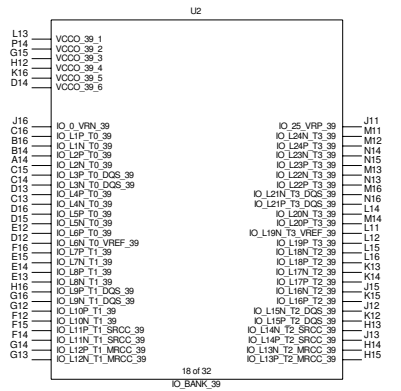
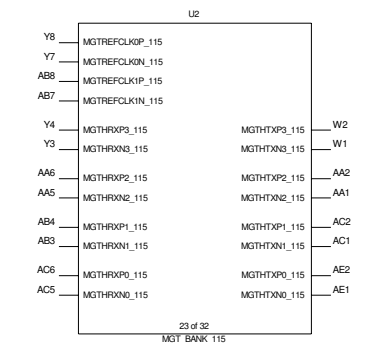
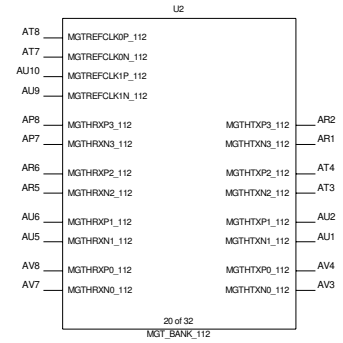
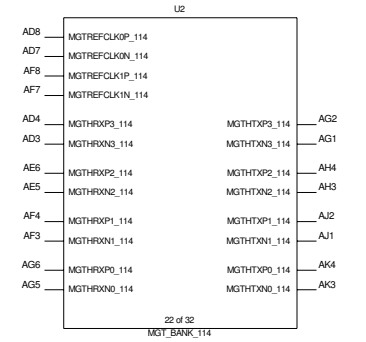
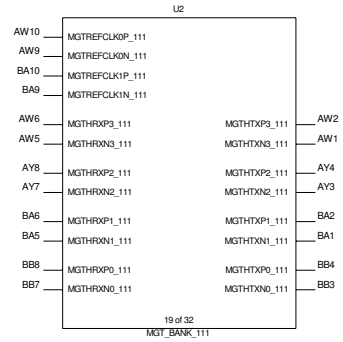
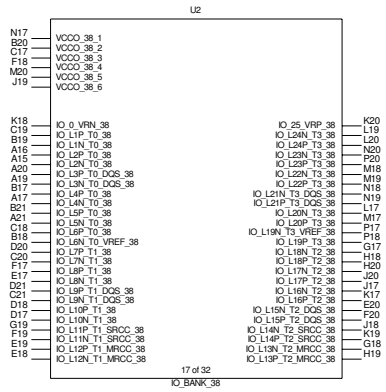
IO_BANK_35

U2		
E21	VCCO_37.1	
B30	VCCO_37.2	
F38	VCCO_37.3	
D24	VCCO_37.4	
A23	VCCO_37.5	
C27	VCCO_37.6	
F21	IO_0_VRN_37	IO_25_VRP_37
A24	IO_L1P_T0_37	IO_L24N_T3_37
B22	IO_L1N_T0_37	IO_L24P_T3_37
A22	IO_L2P_T0_37	IO_L22N_T3_37
A27	IO_L2N_T0_37	IO_L22P_T3_37
A23	IO_L3P_T0_DQS_37	IO_L22N_T3_37
B23	IO_L3N_T0_DQS_37	IO_L22P_T3_37
A24	IO_L4P_T0_37	IO_L21N_T3_DQS_37
B26	IO_L4N_T0_37	IO_L21P_T3_DQS_37
B27	IO_L5P_T0_37	IO_L20N_T3_37
B26	IO_L5N_T0_37	IO_L20P_T3_37
B24	IO_L6P_T0_37	IO_L19N_T3_VREF_37
E24	IO_L6N_T0_VREF_37	IO_L19P_T3_37
F22	IO_L7P_T1_37	IO_L18N_T2_37
F22	IO_L7N_T1_37	IO_L18P_T2_37
E22	IO_L8P_T1_37	IO_L17N_T2_37
F25	IO_L8N_T1_37	IO_L17P_T2_37
E25	IO_L9P_T1_DQS_37	IO_L16N_T2_37
D25	IO_L9N_T1_DQS_37	IO_L16P_T2_37
D23	IO_L10P_T1_37	IO_L15N_T2_DQS_37
D28	IO_L10N_T1_37	IO_L15P_T2_DQS_37
C25	IO_L11P_T1_SRCC_37	IO_L14N_T2_SRCC_37
C26	IO_L11N_T1_SRCC_37	IO_L14P_T2_SRCC_37
C25	IO_L12P_T1_MRCC_37	IO_L13N_T2_MRCC_37
C25	IO_L12N_T1_MRCC_37	IO_L13P_T2_MRCC_37

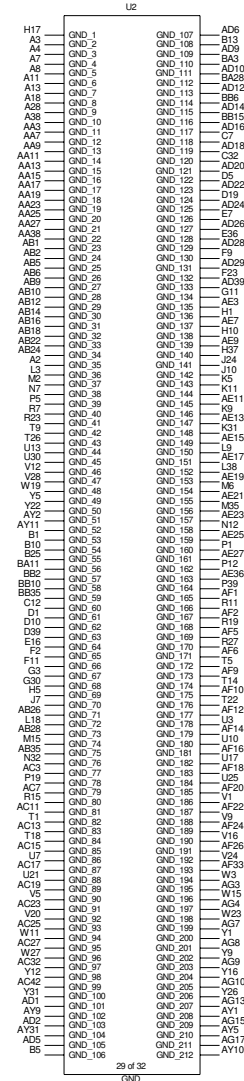
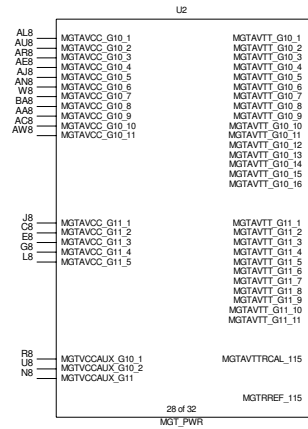
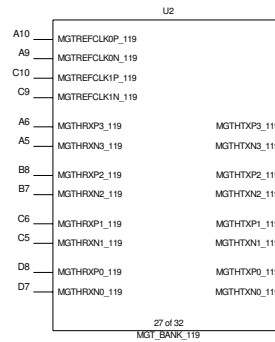
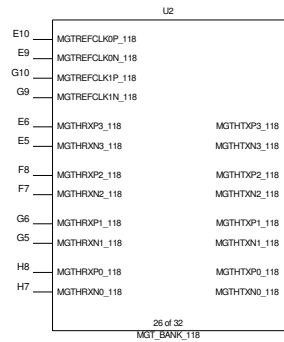
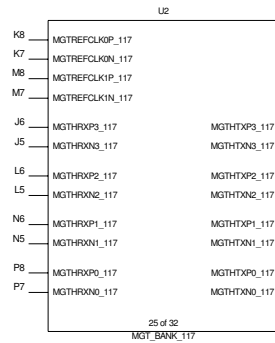
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IO_BANK_37

PAGE:4 SYMBOLS 18 -24



PAGE 5: SYMBOLS 25,26,27,28,29



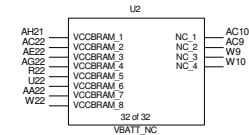
PAGE:6 SYMBOLS 30-32

U2			
AG19	GND 213	GND 319	AN7
AY21	GND 214	GND 320	N3
AG21	GND 215	GND 321	AN9
AY41	GND 216	GND 322	N9
AG23	GND 217	GND 323	AN10
B2	GND 218	GND 324	N22
AG25	GND 219	GND 325	N42
B9	GND 220	GND 326	AN12
AG27	GND 221	GND 327	AN22
B12	GND 222	GND 328	F2
AG30	GND 223	GND 329	AN32
B15	GND 224	GND 330	AN42
AG40	GND 225	GND 331	F16
B35	GND 226	GND 332	AP1
AH1	GND 227	GND 333	P29
AH2	GND 228	GND 334	AP2
BA18	GND 229	GND 335	R3
GND 230	GND 336		AP2
AH5	GND 231	GND 337	AP5
BA38	GND 232	GND 338	AP9
AH6	GND 233	GND 339	T13
BB5	GND 234	GND 340	AP10
AH9	GND 235	GND 341	R17
BB9	GND 236	GND 342	AP19
AH12	GND 237	GND 343	R21
BB11	GND 238	GND 344	AP29
AH14	GND 239	GND 345	R25
BB25	GND 240	GND 346	AP39
AH16	GND 241	GND 347	R36
C3	GND 242	GND 348	AR3
AH17	GND 243	GND 349	R2
C11	GND 244	GND 350	AR7
AH18	GND 245	GND 351	T6
C22	GND 246	GND 352	AP8
AH20	GND 247	GND 353	T12
C42	GND 248	GND 354	AR10
AH22	GND 249	GND 355	T16
D2	GND 250	GND 356	AR16
AH24	GND 251	GND 357	AR26
D9	GND 252	GND 358	T24
AH26	GND 253	GND 359	AR36
D11	GND 254	GND 360	T33
AH37	GND 255	GND 361	T11
D29	GND 256	GND 362	U4
A18	GND 257	GND 363	AT2
E3	GND 258	GND 364	AT5
AJ7	GND 259	GND 365	U11
E11	GND 260	GND 366	AT6
AJ9	GND 261	GND 367	U15
E26	GND 262	GND 368	AT9
AJ14	GND 263	GND 369	U19
F1	GND 264	GND 370	AT10
AJ24	GND 265	GND 371	L23
F5	GND 266	GND 372	AT11
AJ27	GND 267	GND 373	AT13
F10	GND 268	GND 374	U40
AJ34	GND 269	GND 375	AT23
F13	GND 270	GND 376	V2
AK1	GND 271	GND 377	V6
F33	GND 272	GND 378	UJ3
AK2	GND 273	GND 379	V10
G7	GND 274	GND 380	UJ7
AK5	GND 275	GND 381	V14
G20	GND 276	GND 382	UJ11
AK6	GND 277	GND 383	V18
G40	GND 278	GND 384	UJ20
AK9	GND 279	GND 385	V22
H2	GND 280	GND 386	UJ30
AK11	GND 281	GND 387	V26
H9	GND 282	GND 388	UJ40
AK21	GND 283	GND 389	V37
H11	GND 284	GND 390	AV1
AK31	GND 285	GND 391	AV2
H27	GND 286	GND 392	W13
AK41	GND 287	GND 393	AV5
I3	GND 288	GND 394	W17
AL3	GND 289	GND 395	AV9
J6	GND 290	GND 396	W21
AL7	GND 291	GND 397	AV10
J14	GND 292	GND 398	AV11
AL9	GND 293	GND 399	W34
J34	GND 294	GND 400	Y1
AL16	GND 295	GND 401	AV27
K2	GND 296	GND 402	Y6
AL28	GND 297	GND 403	AV37
K6	GND 298	GND 404	Y10
AL38	GND 299	GND 405	AW3
K10	GND 300	GND 406	AW7
AK1	GND 301	GND 407	AW11
K21	GND 302	GND 408	Y24
K41	GND 303	GND 409	AW14
AM5	GND 304	GND 410	Q28
L7	GND 305	GND 411	AW24
AM9	GND 306	GND 412	Y41
L10	GND 307	GND 413	AW34
AM10	GND 308	GND 414	K1
L28	GND 309	GND 415	
AM15	GND 310	GND 416	
M1	GND 311	GND 417	
AM25	GND 312	GND 418	
M5	GND 313	GND 419	
AM35	GND 314	GND 420	
M9	GND 315	GND 421	
AN3	GND 316	GND 422	
M25	GND 317	GND 423	
	GND 318	GND 424	

30 of 32
GND_1

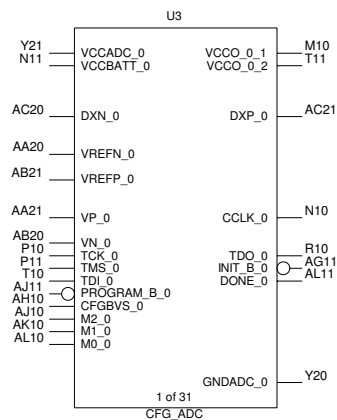
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AG20	VCCINT 2	VCCALX 2	U26
AG24	VCCINT 3	VCCALX 3	AD17
AG28	VCCINT 4	VCCALX 4	V17
AH11	VCCINT 5	VCCALX 5	AE26
AH13	VCCINT 6	VCCALX 6	Y17
AH15	VCCINT 7	VCCALX 7	AF17
AH19	VCCINT 8	VCCALX 8	AA26
AH23	VCCINT 9	VCCALX 9	AG26
AH27	VCCINT 10	VCCALX 10	T17
F13	VCCINT 11	VCCALX 11	T17
P15	VCCINT 12	VCCALX 12	AC26
P27	VCCINT 13	VCCALX 13	AB17
R12	VCCINT 14		
R14	VCCINT 15	VCCALX_IO_G0_1	AF25
R16	VCCINT 16	VCCALX_IO_G0_2	AH25
R20	VCCINT 17		
R24	VCCINT 18		
T13	VCCINT 19	VCCALX_IO_G1_1	AD25
T15	VCCINT 20	VCCALX_IO_G1_2	Y25
T21	VCCINT 21	VCCALX_IO_G1_3	AB25
T23	VCCINT 22		
T27	VCCINT 23		
U12	VCCINT 24	VCCALX_IO_G2_1	R26
U14	VCCINT 25	VCCALX_IO_G2_2	V25
U16	VCCINT 26	VCCALX_IO_G2_3	T25
U20	VCCINT 27		
U26	VCCINT 28		
AB19	VCCINT 29	VCCALX_IO_G3_1	AG18
AB27	VCCINT 30	VCCALX_IO_G3_2	AE18
V15	VCCINT 31	VCCALX_IO_G3_3	AF19
V19	VCCINT 32		
V21	VCCINT 33		
V23	VCCINT 34	VCCALX_IO_G4_1	W18
V27	VCCINT 35	VCCALX_IO_G4_2	AC18
W12	VCCINT 36	VCCALX_IO_G4_3	AA18
W14	VCCINT 37		
W16	VCCINT 38		
W20	VCCINT 39	VCCALX_IO_G5_1	T19
W24	VCCINT 40	VCCALX_IO_G5_2	R18
AG16	VCCINT 41	VCCALX_IO_G5_3	U18
Y11	VCCINT 42		
Y13	VCCINT 43		
AC12	VCCINT 44		
Y19	VCCINT 45		
Y23	VCCINT 46		
Y27	VCCINT 47		
AC24	VCCINT 48		
AA10	VCCINT 49		
AA12	VCCINT 50		
AA14	VCCINT 51		
AA16	VCCINT 52		
AA24	VCCINT 53		
AA28	VCCINT 54		
AB11	VCCINT 55		
AB15	VCCINT 56		
AB19	VCCINT 57		
AC28	VCCINT 58		
AD11	VCCINT 59		
AD13	VCCINT 60		
AD15	VCCINT 61		
AD19	VCCINT 62		
AD21	VCCINT 63		
AD23	VCCINT 64		
AD27	VCCINT 65		
AE10	VCCINT 66		
AE12	VCCINT 67		
AE14	VCCINT 68		
AE16	VCCINT 69		
AE20	VCCINT 70		
AE24	VCCINT 71		
AE28	VCCINT 72		
AF11	VCCINT 73		
AF13	VCCINT 74		
AF15	VCCINT 75		
AF21	VCCINT 76		
AF23	VCCINT 77		
AF27	VCCINT 78		
AG12	VCCINT 79		
W28	VCCINT 80		
U24	VCCINT 81		
AB23	VCCINT 82		
Y11	VCCINT 83		
Y13	VCCINT 84		
Y15	VCCINT 85		
Y17	VCCINT 86		


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VCCINT



CADENHANCE PARTGEN XC7VX690T_FFG1761_X1 PART

PAGE 1: CONFIG AND XADC PINS (SYMBOL 1)



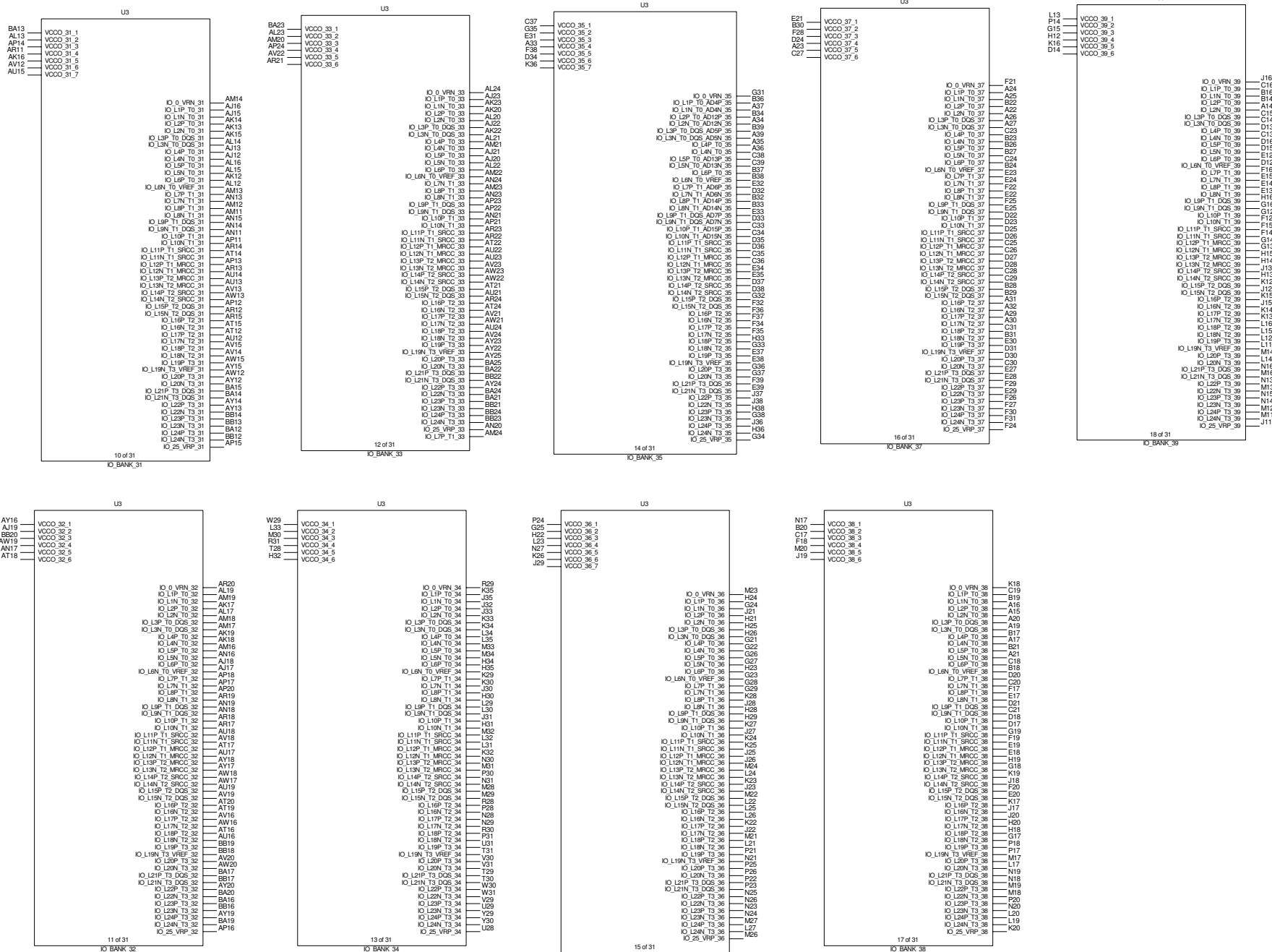
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APPROVALS	DATE	TITLE FPGA SYMBOL_TEST			
DRAWN WOL	10-25-2010				
CHECKED xx	xx-xx-xx				
ENGINEER WOL	xx-xx-xx				
RELEASED xx	xx-xx-xx	SIZE B	DRAWING NO. xxx-xxxxx-xxx		REV 1
		cadenhance_symbol_x1 1/5		SHEET 15 OF 19	

CONVEY CONFIDENTIAL INFORMATION

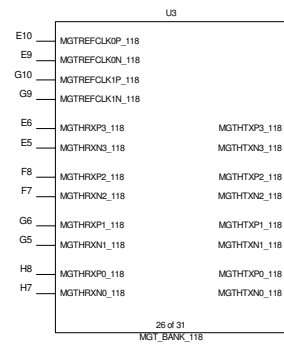
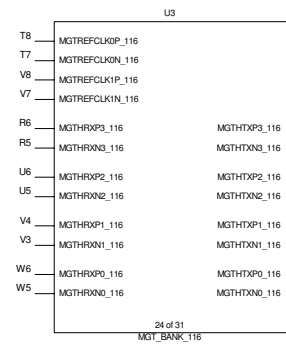
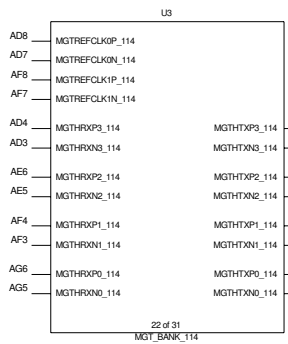
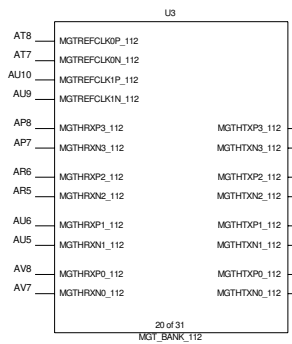
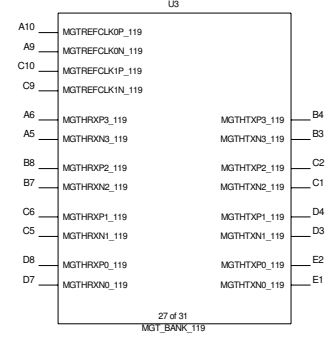
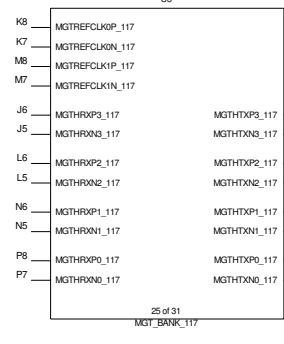
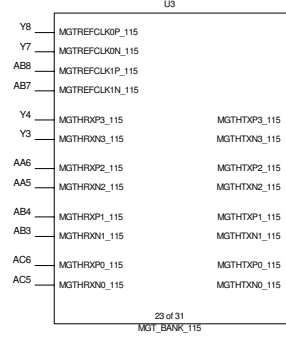
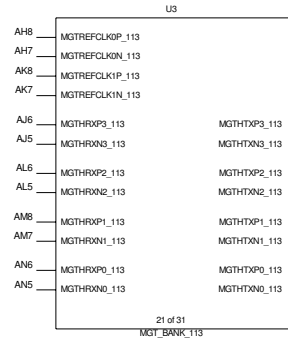
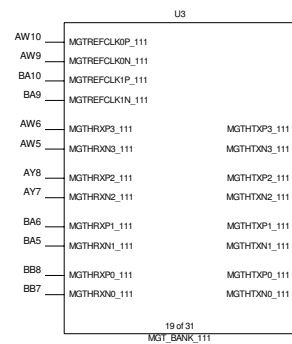
PAGE 2: IO_BANKS 12-19 (SYMBOLS 2-9)

US		US		US		US	
AT28 AV25 AY25 AK28 AU25	VCCO_12.1 VCCO_12.2 VCCO_12.3 VCCO_12.4 VCCO_12.5 VCCO_12.6	AF28 AH32 AJ29 AK36 AL33 AN37 AM50	VCCO_14.1 VCCO_14.2 VCCO_14.3 VCCO_14.4 VCCO_14.5 VCCO_14.6 VCCO_14.7	Y36 AA33 AB30 AC35 AE31 AG35	VCCO_16.1 VCCO_16.2 VCCO_16.3 VCCO_16.4 VCCO_16.5 VCCO_16.6	W39 P34 U35 V32 V42 T38	VCCO_18.1 VCCO_18.2 VCCO_18.3 VCCO_18.4 VCCO_18.5 VCCO_18.6
2 of 31 IO_BANK_12		4 of 31 IO_BANK_14		6 of 31 IO_BANK_16		8 of 31 IO_BANK_18	
US		US		US		US	
BA33 BB30 BU35 AV32 AR31 AT38	VCCO_13.1 VCCO_13.2 VCCO_13.3 VCCO_13.4 VCCO_13.5 VCCO_13.6 VCCO_13.7	AW39 AR41 AM40 BB40 AT38	VCCO_15.1 VCCO_15.2 VCCO_15.3 VCCO_15.4 VCCO_15.5 VCCO_15.6	AH42 AJ39 VCCO_17.2 VCCO_17.3 VCCO_17.4 VCCO_17.5 VCCO_17.6	Y38 AB41 AB42 W40 Y40 AA39 AA42 AA43 AA44 AA45 AA46 AA47 AA48 AA49 AA50 AA51 AA52 AA53 AA54 AA55 AA56 AA57 AA58 AA59 AA60 AA61 AA62 AA63 AA64 AA65 AA66 AA67 AA68 AA69 AA70 AA71 AA72 AA73 AA74 AA75 AA76 AA77 AA78 AA79 AA80 AA81 AA82 AA83 AA84 AA85 AA86 AA87 AA88 AA89 AA90 AA91 AA92 AA93 AA94 AA95 AA96 AA97 AA98 AA99 AA100	VCCO_19.1 VCCO_19.2 VCCO_19.3 VCCO_19.4 VCCO_19.5 VCCO_19.6 VCCO_19.7	
3 of 31 IO_BANK_13		5 of 31 IO_BANK_15		7 of 31 IO_BANK_17		9 of 31 IO_BANK_19	

PAGE 3: IO_BANKS 31-39 (SYMBOLS 10-18)



PAGE 4: MGTH_BANK 111- 119 (SYMBOLS 19-27)



PAGE 5: POWER AND GROUND (SYMBOLS 28-31)

US									
AL8	MGTAVCC_G10_1	MGTAVTT_G10_1	AV6	AG14	VOCINT_1	VCCBRAM_1	AH21	H17	US
ALB	MGTAVCC_G10_2	MGTAVTT_G10_2	AV6	AG20	VOCINT_2	VCCBRAM_2	AC22	A3	GND_1
AR0	MGTAVCC_G10_3	MGTAVTT_G10_3	AV6	AG24	VOCINT_3	VCCBRAM_3	AC22	A7	GND_2
AEB	MGTAVCC_G10_4	MGTAVTT_G10_4	AW4	AG28	VOCINT_4	VCCBRAM_4	AC22	A7	GND_3
AJ8	MGTAVCC_G10_5	MGTAVTT_G10_5	AA4	AH11	VOCINT_5	VCCBRAM_5	R22	A8	GND_4
AN6	MGTAVCC_G10_6	MGTAVTT_G10_6	AE4	AH15	VOCINT_6	VCCBRAM_6	U22	A11	GND_5
WB8	MGTAVCC_G10_7	MGTAVTT_G10_7	RA	AH15	VOCINT_7	VCCBRAM_7	U22	A11	GND_6
BA6	MGTAVCC_G10_8	MGTAVTT_G10_8	WA	AH15	VOCINT_8	VCCBRAM_8	W22	A18	GND_7
AC8	MGTAVCC_G10_9	MGTAVTT_G10_9	AL4	AH23	VOCINT_9	VCCBRAM_9	W22	A18	GND_8
AW6	MGTAVCC_G10_10	MGTAVTT_G10_10	AC4	AH27	VOCINT_10	VCCBRAM_10	W22	A38	GND_9
	MGTAVCC_G10_11	MGTAVTT_G10_11	AM6	P15	VOCINT_11	VCCALX_1	U26	A38	GND_10
		MGTAVTT_G10_12	AJ4	P15	VOCINT_12	VCCALX_2	U26	A38	GND_11
		MGTAVTT_G10_13	AR4	P15	VOCINT_13	VCCALX_3	AD17	A38	GND_12
		MGTAVTT_G10_14	AL4	R12	VOCINT_14	VCCALX_4	V17	AA7	GND_13
		MGTAVTT_G10_15	BA4	R14	VOCINT_15	VCCALX_5	AE26	AA11	GND_14
		MGTAVTT_G10_16	BA6	R16	VOCINT_16	VCCALX_6	AF17	AA13	GND_15
				R20	VOCINT_17	VCCALX_7	AA26	AA15	GND_16
				T13	VOCINT_18	VCCALX_8	AA26	AA17	GND_17
J8	MGTAVCC_G11_1	MGTAVTT_G11_1	N4	T15	VOCINT_19	VCCALX_9	AA26	AA18	GND_18
CB	MGTAVCC_G11_2	MGTAVTT_G11_2	C4	T21	VOCINT_20	VCCALX_10	AA26	AA19	GND_19
EB	MGTAVCC_G11_3	MGTAVTT_G11_3	B6	T23	VOCINT_21	VCCALX_11	AA26	AA20	GND_20
GB	MGTAVCC_G11_4	MGTAVTT_G11_4	E4	T27	VOCINT_22	VCCALX_12	AB17	AA25	GND_21
LB	MGTAVCC_G11_5	MGTAVTT_G11_5	F6	T27	VOCINT_23			AA25	GND_22
		MGTAVTT_G11_6	L4	U12	VOCINT_24			AA36	GND_23
		MGTAVTT_G11_7	F6	U16	VOCINT_25	VCCALX_IO_G0_1	AF25	AB1	GND_24
		MGTAVTT_G11_8	D6	U20	VOCINT_26	VCCALX_IO_G0_2	AF25	AB5	GND_25
		MGTAVTT_G11_9	G4	U20	VOCINT_27	VCCALX_IO_G0_3	AF25	AB5	GND_26
		MGTAVTT_G11_10		U20	VOCINT_28	VCCALX_IO_G0_4	AF25	AB5	GND_27
		MGTAVTT_G11_11		U20	VOCINT_29	VCCALX_IO_G0_5	AF25	AB5	GND_28
		MGTAVTT_G11_12		U20	VOCINT_30	VCCALX_IO_G0_6	AF25	AB5	GND_29
		MGTAVTT_G11_13		U20	VOCINT_31	VCCALX_IO_G0_7	AF25	AB5	GND_30
		MGTAVTT_G11_14		U20	VOCINT_32	VCCALX_IO_G0_8	AF25	AB5	GND_31
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		MGTAVTT_G11_30		U20	VOCINT_48	VCCALX_IO_G0_24	AF25	AB5	GND_47
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		MGTAVTT_G11_36		U20	VOCINT_54	VCCALX_IO_G0_30	AF25	AB5	GND_53
		MGTAVTT_G11_37		U20	VOCINT_55	VCCALX_IO_G0_31	AF25	AB5	GND_54
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		MGTAVTT_G11_48		U20	VOCINT_66	VCCALX_IO_G0_42	AF25	AB5	GND_65
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		MGTAVTT_G11_81		U20	VOCINT_99	VCCALX_IO_G0_75	AF25	AB5	GND_98
		MGTAVTT_G11_82		U20	VOCINT_100	VCCALX_IO_G0_76	AF25	AB5	GND_99
		MGTAVTT_G11_83		U20	VOCINT_101	VCCALX_IO_G0_77	AF25	AB5	GND_100
		MGTAVTT_G11_84		U20	VOCINT_102	VCCALX_IO_G0_78	AF25	AB5	GND_101
		MGTAVTT_G11_85		U20	VOCINT_103	VCCALX_IO_G0_79	AF25	AB5	GND_102
		MGTAVTT_G11_86		U20	VOCINT_104	VCCALX_IO_G0_80	AF25	AB5	GND_103
		MGTAVTT_G11_87		U20	VOCINT_105	VCCALX_IO_G0_81	AF25	AB5	GND_104
		MGTAVTT_G11_88		U20	VOCINT_106	VCCALX_IO_G0_82	AF25	AB5	GND_105
		MGTAVTT_G11_89		U20	VOCINT_107	VCCALX_IO_G0_83	AF25	AB5	GND_106
		MGTAVTT_G11_90		U20	VOCINT_108	VCCALX_IO_G0_84	AF25	AB5	GND_107
		MGTAVTT_G11_91		U20	VOCINT_109	VCCALX_IO_G0_85	AF25	AB5	GND_108
		MGTAVTT_G11_92		U20	VOCINT_110	VCCALX_IO_G0_86	AF25	AB5	GND_109
		MGTAVTT_G11_93		U20	VOCINT_111	VCCALX_IO_G0_87	AF25	AB5	GND_110
		MGTAVTT_G11_94		U20	VOCINT_112	VCCALX_IO_G0_88	AF25	AB5	GND_111
		MGTAVTT_G11_95		U20	VOCINT_113	VCCALX_IO_G0_89	AF25	AB5	GND_112
		MGTAVTT_G11_96		U20	VOCINT_114	VCCALX_IO_G0_90	AF25	AB5	GND_113
		MGTAVTT_G11_97		U20	VOCINT_115	VCCALX_IO_G0_91	AF25	AB5	GND_114
		MGTAVTT_G11_98		U20	VOCINT_116	VCCALX_IO_G0_92	AF25	AB5	GND_115
		MGTAVTT_G11_99		U20	VOCINT_117	VCCALX_IO_G0_93	AF25	AB5	GND_116
		MGTAVTT_G11_100		U20	VOCINT_118	VCCALX_IO_G0_94	AF25	AB5	GND_117
		MGTAVTT_G11_101		U20	VOCINT_119	VCCALX_IO_G0_95	AF25	AB5	GND_118
		MGTAVTT_G11_102		U20	VOCINT_120	VCCALX_IO_G0_96	AF25	AB5	GND_119
		MGTAVTT_G11_103		U20	VOCINT_121	VCCALX_IO_G0_97	AF25	AB5	GND_120
		MGTAVTT_G11_104		U20	VOCINT_122	VCCALX_IO_G0_98	AF25	AB5	GND_121
		MGTAVTT_G11_105		U20	VOCINT_123	VCCALX_IO_G0_99	AF25	AB5	GND_122
		MGTAVTT_G11_106		U20	VOCINT_124	VCCALX_IO_G0_100	AF25	AB5	GND_123
		MGTAVTT_G11_107		U20	VOCINT_125	VCCALX_IO_G0_101	AF25	AB5	GND_124
		MGTAVTT_G11_108		U20	VOCINT_126	VCCALX_IO_G0_102	AF25	AB5	GND_125
		MGTAVTT_G11_109		U20	VOCINT_127	VCCALX_IO_G0_103	AF25	AB5	GND_126
		MGTAVTT_G11_110		U20	VOCINT_128	VCCALX_IO_G0_104	AF25	AB5	GND_127
		MGTAVTT_G11_111		U20	VOCINT_129	VCCALX_IO_G0_105	AF25	AB5	GND_128
		MGTAVTT_G11_112		U20	VOCINT_130	VCCALX_IO_G0_106	AF25	AB5	GND_129
		MGTAVTT_G11_113		U20	VOCINT_131	VCCALX_IO_G0_107	AF25	AB5	GND_130
		MGTAVTT_G11_114		U20	VOCINT_132	VCCALX_IO_G0_108	AF25	AB5	GND_131
		MGTAVTT_G11_115		U20	VOCINT_133	VCCALX_IO_G0_109	AF25	AB5	GND_132
		MGTAVTT_G11_116		U20	VOCINT_134	VCCALX_IO_G0_110	AF25	AB5	GND_133
		MGTAVTT_G11_117		U20	VOCINT_135	VCCALX_IO_G0_111	AF25	AB5	GND_134
		MGTAVTT_G11_118		U20	VOCINT_136	VCCALX_IO_G0_112	AF25	AB5	GND_135
		MGTAVTT_G11_119		U20	VOCINT_137	VCCALX_IO_G0_113	AF25	AB5	GND_136
		MGTAVTT_G11_120		U20	VOCINT_138	VCCALX_IO_G0_114	AF25	AB5	GND_137
		MGTAVTT_G11_121		U20	VOCINT_139	VCCALX_IO_G0_115	AF25	AB5	GND_138
		MGTAVTT_G11_122		U20	VOCINT_140	VCCALX_IO_G0_116	AF25	AB5	GND_