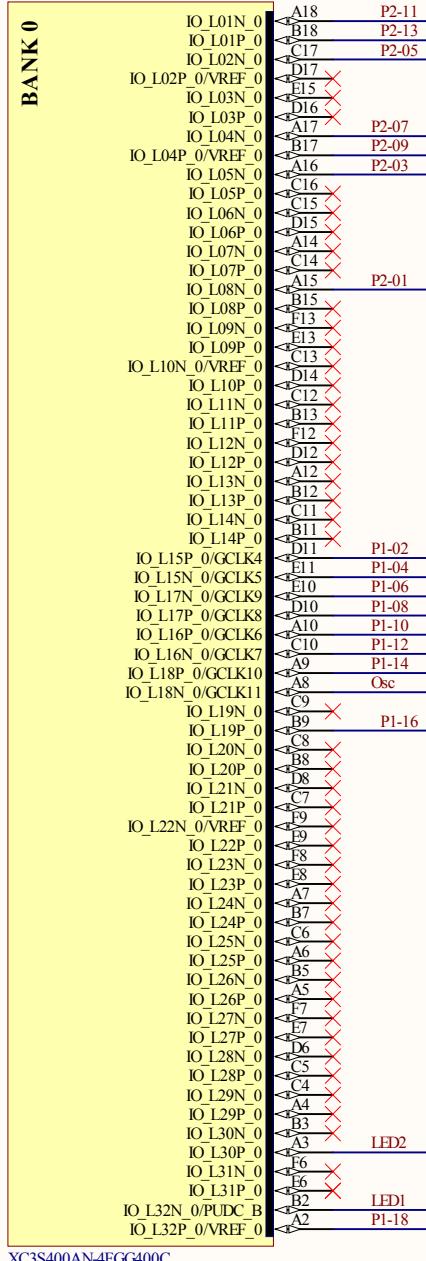


UIA



XC3S400AN4FGG400C

UIB

BANK 1

IO_L01N_1/LDC2	V20	P2-77
IO_L01P_1/HDC	V20	P2-81
IO_L02N_1/LDC0	U18	
IO_L02P_1/LDC1	V19	P2-79
IO_L03N_1/A1	R16	
IO_L03P_1/A0	T17	
IO_L05N_1	V20	P2-69
IO_L05P_1	T18	P2-71
IO_L06N_1	V20	P2-73
IO_L06P_1	V19	P2-75
IO_L07N_1	P17	
IO_L07P_1	P16	
IO_L08N_1	R17	
IO_L08P_1	R18	
IO_L09N_1	R20	P2-65
IO_L09P_1	R19	P2-67
IO_L10N_1/VREF_1	P20	P2-63
IO_L10P_1	P18	
IO_L12N_1/A3	N17	
IO_L12P_1/A2	N15	
IO_L13N_1/A5	N19	P2-61
IO_L13P_1/A4	N18	
IO_L14N_1/A7	M18	
IO_L14P_1/A6	M17	
IO_L16N_1/A9	J16	
IO_L16P_1/A8	J15	
IO_L21N_1/RHCLK7	J20	P2-45
IO_L20P_1/RHCLK4	K18	P2-49
IO_L21P_1/IRDY/RHCLK6	K20	P2-47
IO_L20N_1/RHCLK5	L17	P2-51
IO_L18N_1/TRDY/RHCLK3	L18	P2-53
IO_L18P_1/RHCLK2	L19	P2-55
IO_L17N_1/RHCLK1	M20	P2-57
IO_L17P_1/RHCLK0	M19	P2-59
IO_L22N_1/A11	J18	
IO_L22P_1/A10	J19	P2-43
IO_L24N_1	K16	
IO_L24P_1	J17	
IO_L25N_1/A13	H18	
IO_L25P_1/A12	H19	P2-39
IO_L26N_1/A15	G20	P2-37
IO_L26P_1/A14	H20	P2-41
IO_L28N_1	H17	
IO_L28P_1	G18	
IO_L29N_1/A17	F19	P2-31
IO_L29P_1/A16	F20	P2-33
IO_L30N_1/A19	F18	P2-35
IO_L30P_1/A18	G17	
IO_L32N_1	E19	P2-27
IO_L32P_1	F20	P2-29
IO_L33N_1	F17	
IO_L33P_1	E18	
IO_L34N_1	D18	P2-23
IO_L34P_1	D20	P2-25
IO_L36N_1/A21	F16	
IO_L36P_1/A20	G16	
IO_L37N_1/A23	C19	P2-19
IO_L37P_1/A22	C20	P1-21
IO_L38N_1/A25	B19	P2-15
IO_L38P_1/A24	B20	P2-17

XC3S400AN4FGG400C

Clock1

Title Bank0&1

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A4		
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A UIC BANK 2

IO_L01N_2/M0	V4
IO_L01P_2/M1	P1-94
IO_L36P_3	R5
IO_L02P_2/M2	W3 GND
IO_L03N_2	W4 P1-80
IO_L33P_3	I3
IO_L04N_2	R7
IO_L04P_2	I6
IO_L05N_2	U5
IO_L05P_2	V5
IO_L06N_2	U6
IO_L06P_2	I7
IO_L07N_2/VS2	U7
IO_L07P_2/RDWR_B	I8
IO_L34N_3	U8
IO_L36N_3	W6
IO_L09N_2/VS0	V6
IO_L09P_2/VS1	Y7
IO_L10N_2	Y6
IO_L10P_2	U9
IO_L11N_2	I9
IO_L11P_2	W8
IO_L12N_2/D6	V7
IO_L12P_2/D7	V9
IO_L13N_2	V8
IO_L13P_2	I10
IO_L14N_2/D4	U10
IO_L14P_2/D5	V12
IO_L18N_2/GCLK3	Y11 P2-83
IO_L17P_2/GCLK0	V11 P2-87
IO_L17N_2/GCLK1	U11 P2-85
IO_L18P_2/GCLK2	W10 P2-89
IO_L16N_2/GCLK15	Y10 P2-93
IO_L16P_2/GCLK14	V10 P2-91
IO_L15N_2/GCLK13	Y9 P2-95
IO_L15P_2/GCLK12	W9 P2-97
IO_L19N_2	R12
IO_L19P_2	W12
IO_L20N_2/MOSI/CSI_B	Y12
IO_L20P_2	W13
IO_L21N_2	Y13
IO_L21P_2	V13
IO_L22N_2/DOUT	U13
IO_L22P_2/AWAKE	R13
IO_L23N_2	I13
IO_L23P_2	W14
IO_L24N_2/D3	Y14
IO_L24P_2/INP_B	I14
IO_L25N_2	V14
IO_L25P_2	V15
IO_L26N_2/D1	I15
IO_L26P_2/D2	I15
IO_L27N_2	U15
IO_L27P_2	W16
IO_L28N_2	V16
IO_L28P_2	I16
IO_L29N_2	V16
IO_L29P_2	I17
IO_L30N_2	V17
IO_L30P_2	Y17
IO_L31N_2	Y17
IO_L31P_2	V18
IO_L32N_2/CCLK	Y18
IO_L32P_2/D0/DIN/MISO	W18

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B UID BANK 3

IO_L01N_3	D3
IO_L01P_3	P1-22
IO_L02N_3	C2
IO_L02P_3	B1 P1-20
IO_L03N_3	D2
IO_L03P_3	C1 P1-24
IO_L05N_3	E1 P1-32
IO_L05P_3	D1 P1-28
IO_L06N_3	F4
IO_L06P_3	I5
IO_L07N_3	J6
IO_L07P_3	H4
IO_L08N_3	H6
IO_L08P_3	G4
IO_L09N_3	F3
IO_L09P_3	F2 P1-34
IO_L10N_3	E3 P1-30
IO_L10P_3	D2 P1-42
IO_L12N_3	G3 P1-38
IO_L12P_3	G1 P1-40
IO_L13N_3/VREF_3	I1 P1-36
IO_L13P_3	H2 P1-44
IO_L14N_3	I4
IO_L14P_3	I2 P1-44
IO_L16N_3	J3
IO_L16P_3	I1 P1-46
IO_L17P_3/LHCLK0	K4 P1-52
IO_L20P_3/LHCLK4	K2 P1-48
IO_L17N_3/LHCLK1	K3 P1-50
IO_L18P_3/LHCLK2	L5 P1-60
IO_L20N_3/LHCLK5	J1 P1-54
IO_L21P_3/TRDY2/LHCLK6	J3 P1-56
IO_L18N_3/IRDY2/LHCLK3	M1 P1-58
IO_L21N_3/LHCLK7	M8
IO_L22N_3	M2
IO_L22P_3/VREF_3	M5
IO_L24N_3	M4
IO_L24P_3	P4
IO_L29N_3	P3
IO_L29P_3	N4 Test
IO_L26N_3	N4
IO_L26P_3	N3
IO_L33N_3	R4
IO_L30N_3	R3 P1-68
IO_L25P_3	N1 P1-62
IO_L25N_3	N2 P1-64
IO_L28P_3	P1 P1-66
IO_L28N_3	R1 P1-70
IO_L30P_3	R2 P1-72
IO_L32P_3/VREF_3	T1 P1-74
IO_L32N_3	T2 P1-76
IO_L34P_3	U1 P1-78
IO_L37P_3	V1 P1-82
IO_L37N_3	V2 P1-84
IO_L38P_3	W1 P1-86
IO_L38N_3	W2 P1-88
IO_L02N_2/CSO_B	Y3 P1-92
IO_L03P_2	Y4 P1-96
IO_L08P_2	Y5 P1-98
IO_L08N_2	

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C UIE

El4	IP_0
F11	IP_0
F14	IP_0
G8	IP_0
G9	IP_0
G10	IP_0
G12	IP_0
G13	IP_0
H9	IP_0
H10	IP_0
H11	IP_0
H12	IP_0
G11	IP_0/VREF_0
N14	IP_1/VREF_1
P15	IP_104N_1/VREF_1
P14	IP_L04P_1
M15	IP_L11N_1/VREF_1
M16	IP_L11P_1
M13	IP_L15N_1
M14	IP_L15P_1/VREF_1
L13	IP_L19N_1
L14	IP_L19P_1
K14	IP_L23N_1
K15	IP_L23P_1/VREF_1
J15	IP_L27N_1
J16	IP_L27P_1
J13	IP_L31N_1
J14	IP_L31P_1/VREF_1
H14	IP_L35N_1
H15	IP_L35P_1
G14	IP_L39N_1
G15	IP_L39P_1/VREF_1
P9	IP_2
P12	IP_2
P13	IP_2
R8	IP_2
R10	IP_2
T11	IP_2
N9	IP_2/VREF_2
N12	IP_2/VREF_2
P8	IP_2/VREF_2
P10	IP_2/VREF_2
P11	IP_2/VREF_2
R14	IP_2/VREF_2
H7	IP_3
G6	IP_L04N_3/VREF_3
G7	IP_L04P_3
J7	IP_L11N_3/VREF_3
J8	IP_L11P_3
K7	IP_L15N_3
K8	IP_L15P_3
K5	IP_L19N_3
K6	IP_L19P_3
L6	IP_L23N_3
L7	IP_L23P_3
M7	IP_L27N_3
M8	IP_L27P_3
N7	IP_L31N_3
M6	IP_L31P_3
N6	IP_L35N_3
P5	IP_L35P_3
P7	IP_L39N_3/VREF_3
P6	IP_L39P_3

XC3S400AN-4FGG400C

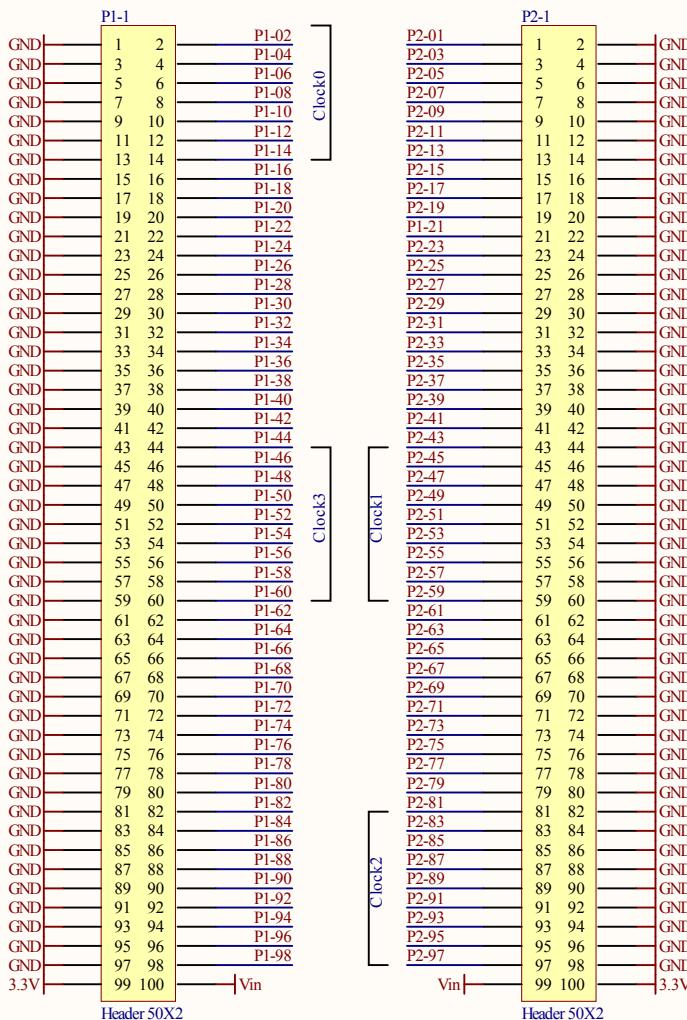


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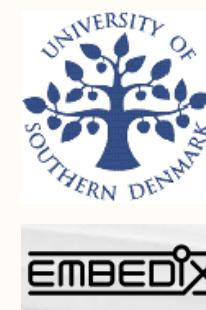
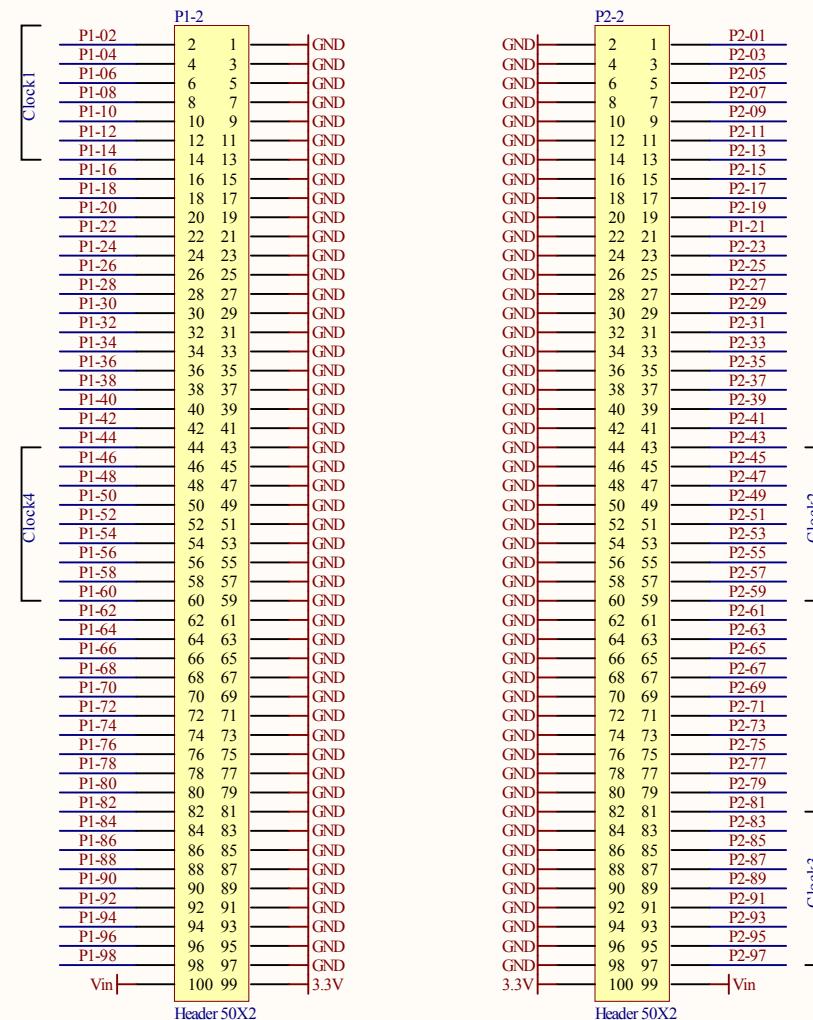
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Optional connectors, component side

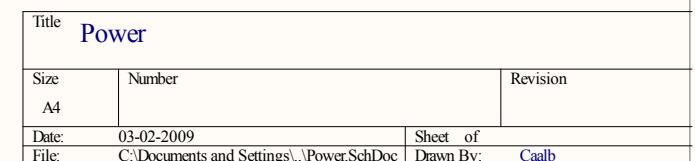
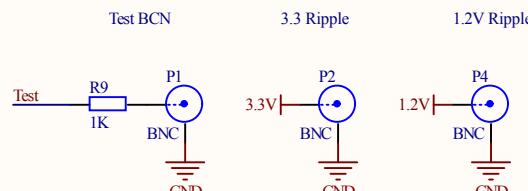
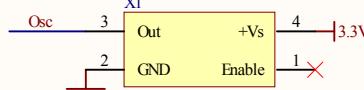
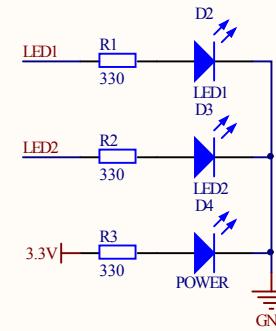
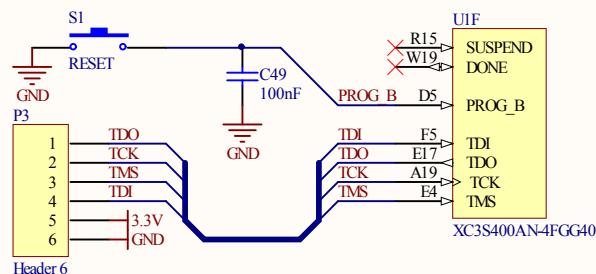
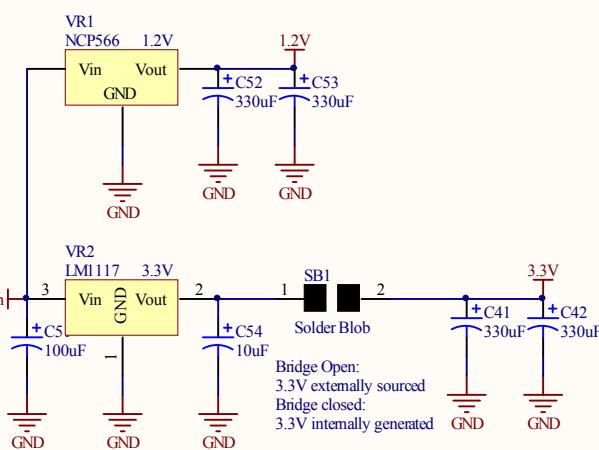
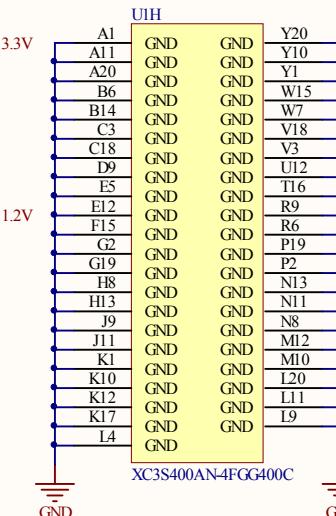
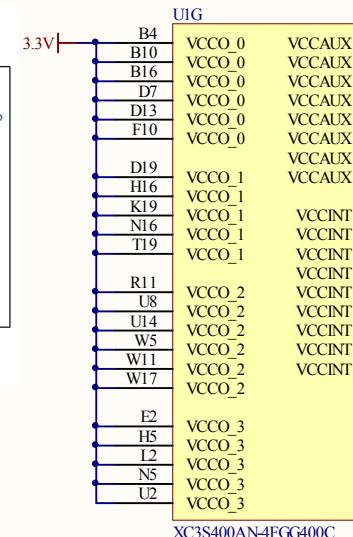
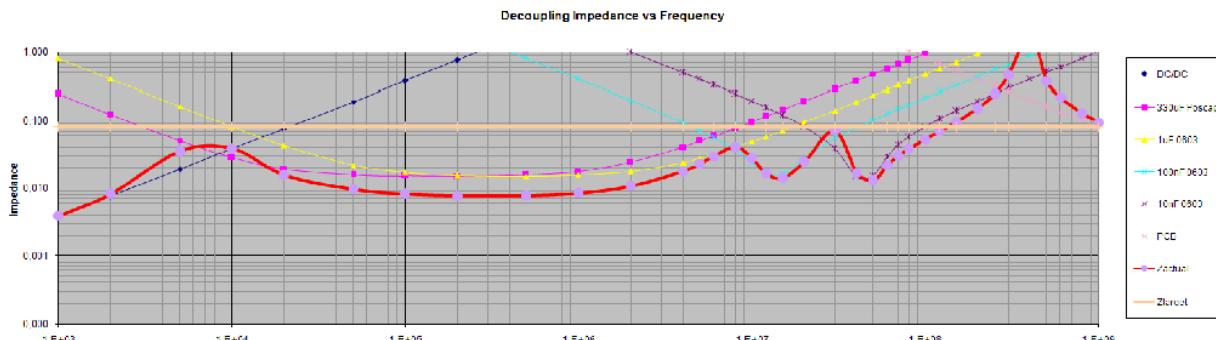


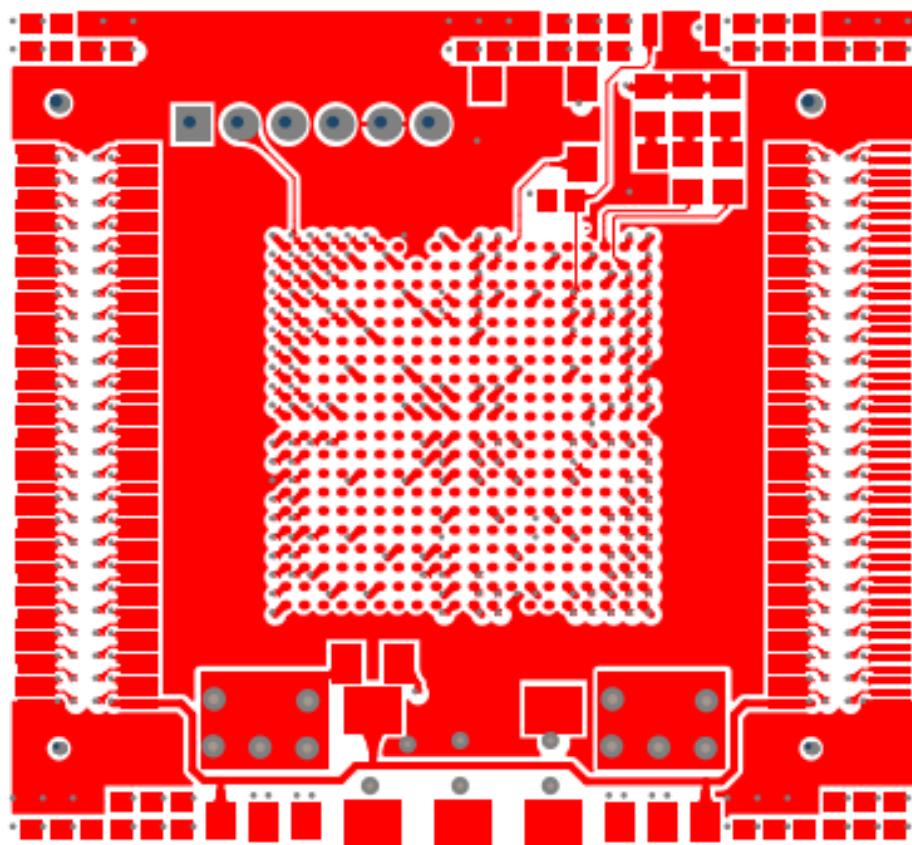
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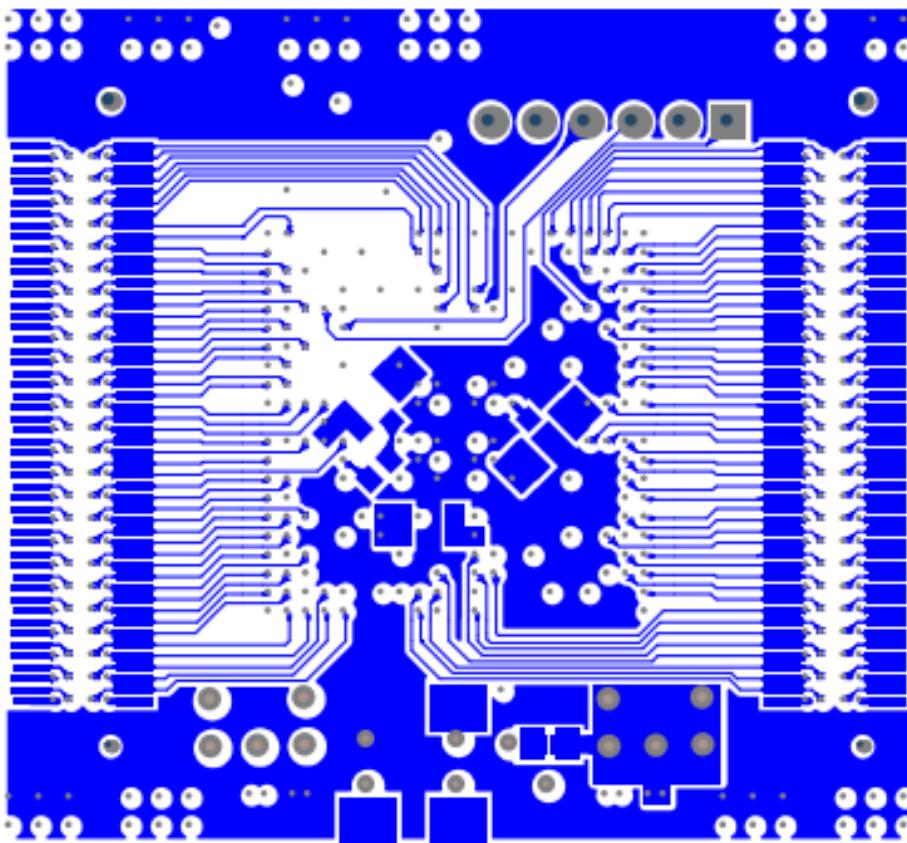


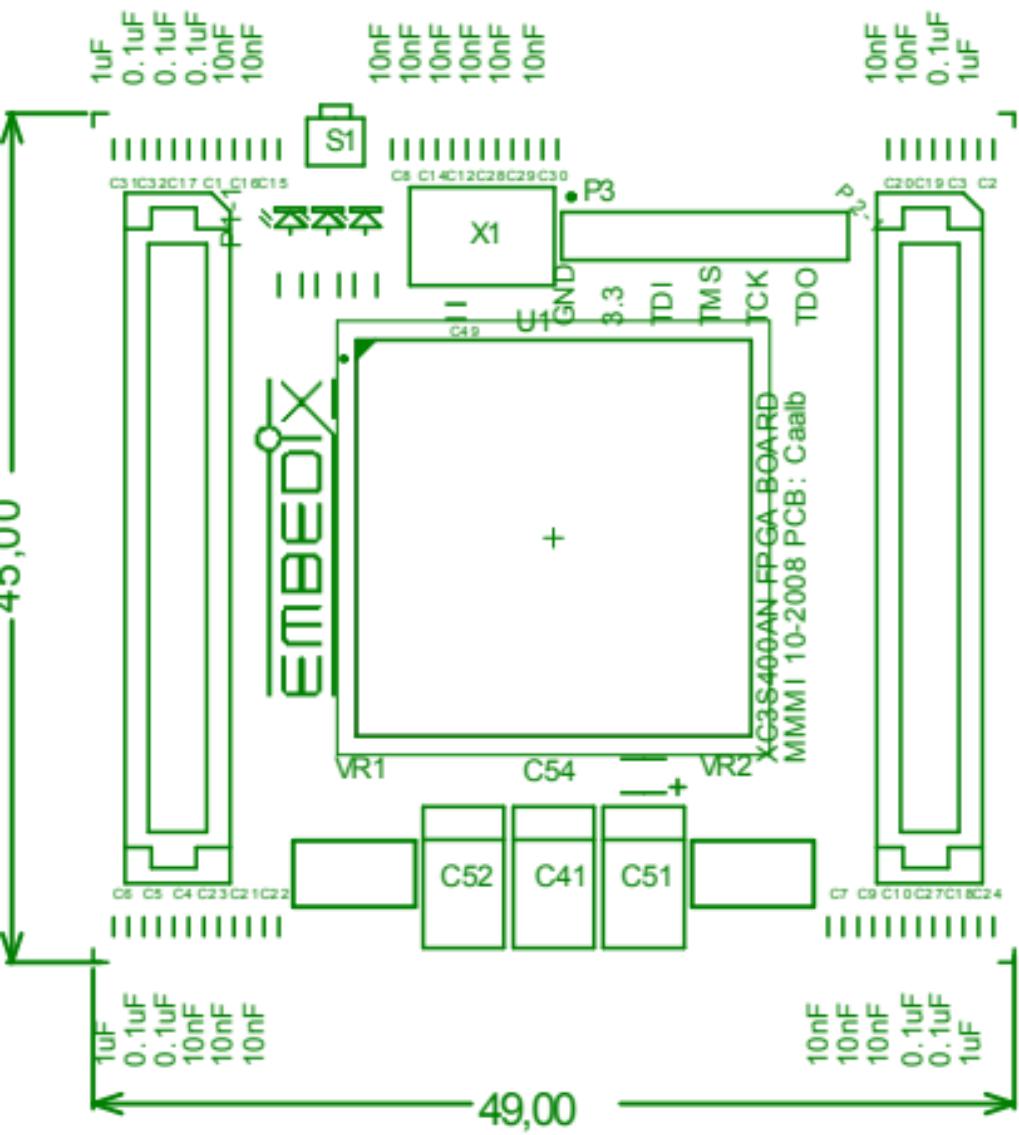
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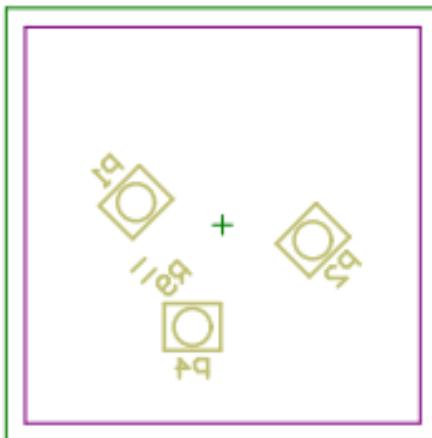


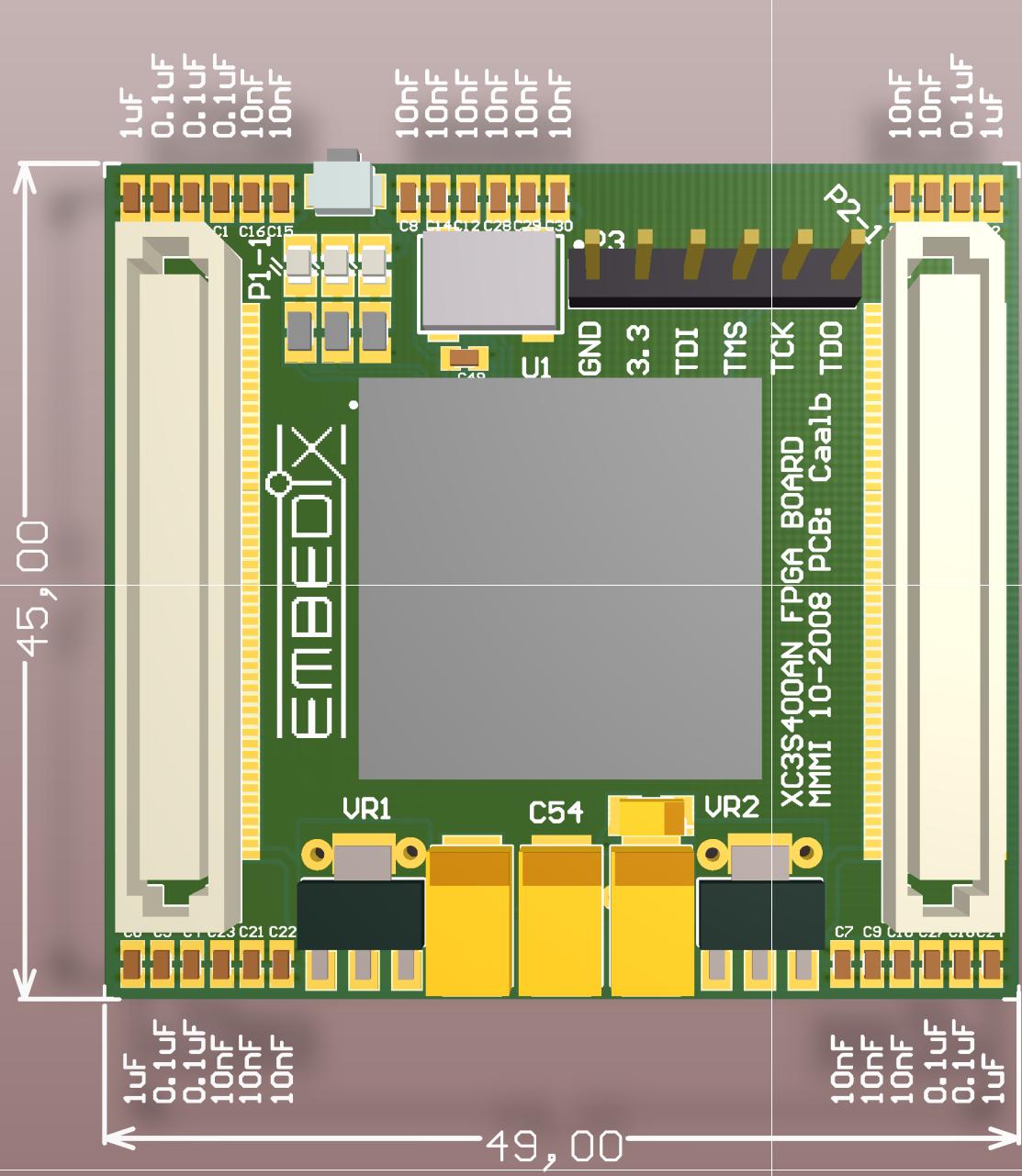


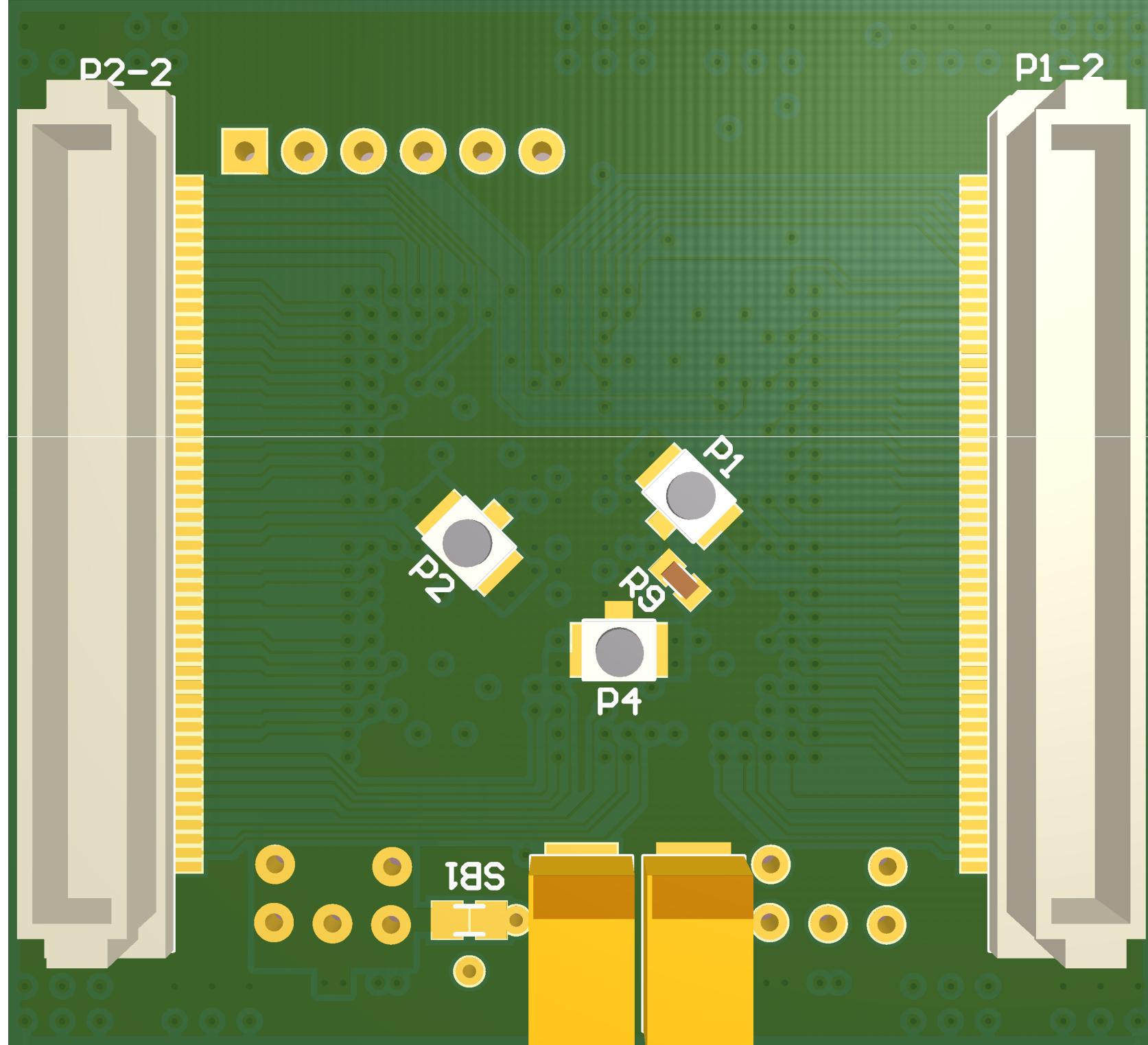
b1-2



b2-2







Value	Description	Designator	Footprint	LibRef	Quantity
		SB1	0805 v.solder_blob	Jumper	1
100nF	!Capacitor	C1, C3, C4, C5, C17, C18, C27, C32, C49	0603	Cap	9
10nF	!Capacitor	C7, C8, C9, C10, C12, C14, C15, C16, C19, C20, C21, C23, C28, C29, C30	0603	Cap	16
1uF	!Capacitor	C2, C6, C24, C31	0603	Cap	4
100uF	!Polarized Capacitor (Radial)	C51	Tantal size X	Cap Pol1	1
10uF	!Polarized Capacitor (Radial)	C54	1206Pol	Cap Pol1	1
330uF	!Polarized Capacitor (Radial)	C41, C42, C52, C53	Tantal size X	Cap Pol1	4
1K	!Resistor	R9	0603	Res2	1
330	!Resistor	R1, R2, R3	0805	Res2	3
50Mhz	3.3V, ultra miniature surface mount oscillator	X1	CB3LV-3C-50M000CFPS-39		1
3.3V	800mA Low-Dropout Linear Regulator	VR2	SOT-223	LM1117	1
	FX8C-100P-SV6(91)	P1-2, P2-2	FX8C-100P-SV6(91)	Header 50X2	2
	FX8C-100S-SV(91)	P1-1, P2-1	FX8C-100S-SV(91)	Header 50X2	2
	Header, 6-Pin	P3	HDR1X6	Header 6	1
Green	LED	D4	LED0805	LED0	1
Red	LED	D2	LED0805	LED0	1
Yellow	LED	D3	LED0805	LED0	1
	Miniature Coaxial Connectors	P1, P2, P4	Miniature Coaxial Connectors	BNC	3
	Spartan-3AN Non-Volatile FPGA, 311 User I/Os, 400-Pin FBGA, Standard Performance, Commercial Grade, Pb-Free	U1	FGG400	XC3S400AN-4FGG400C	1
	Switch	S1	B3U-3000P	SW-PB	1
1.2V	Volt Reg NCP566	VR1	SOT-223	Volt Reg	1