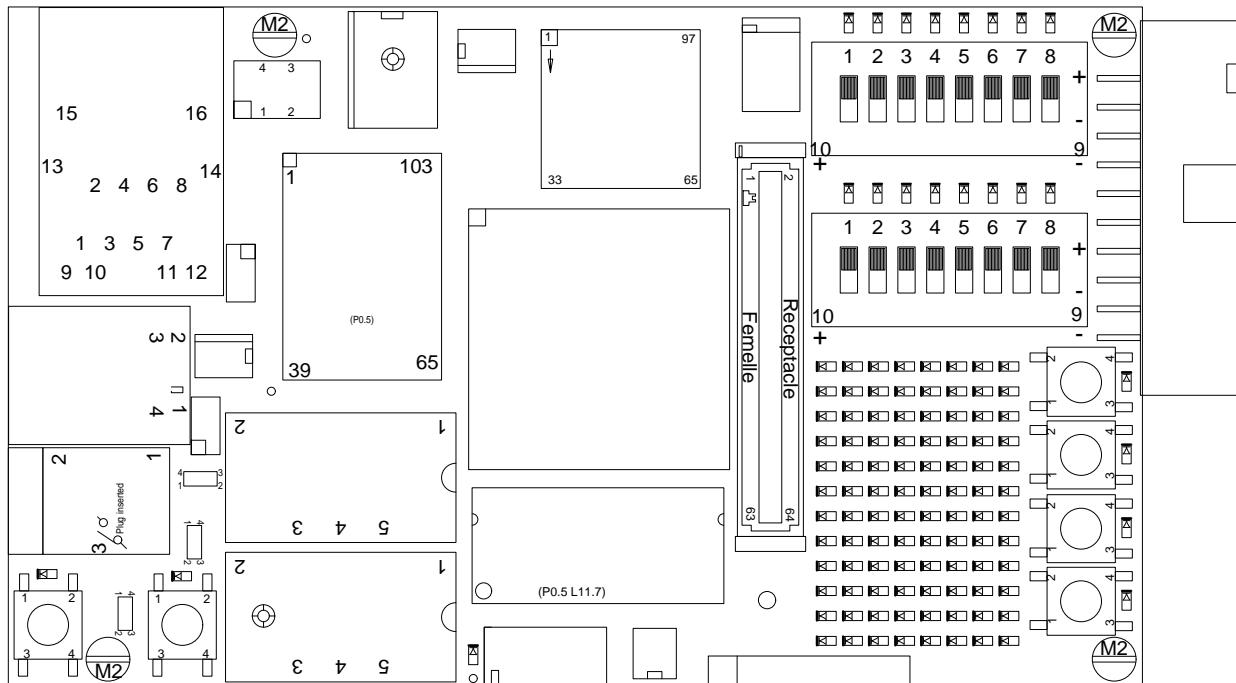


FPGA4U_C

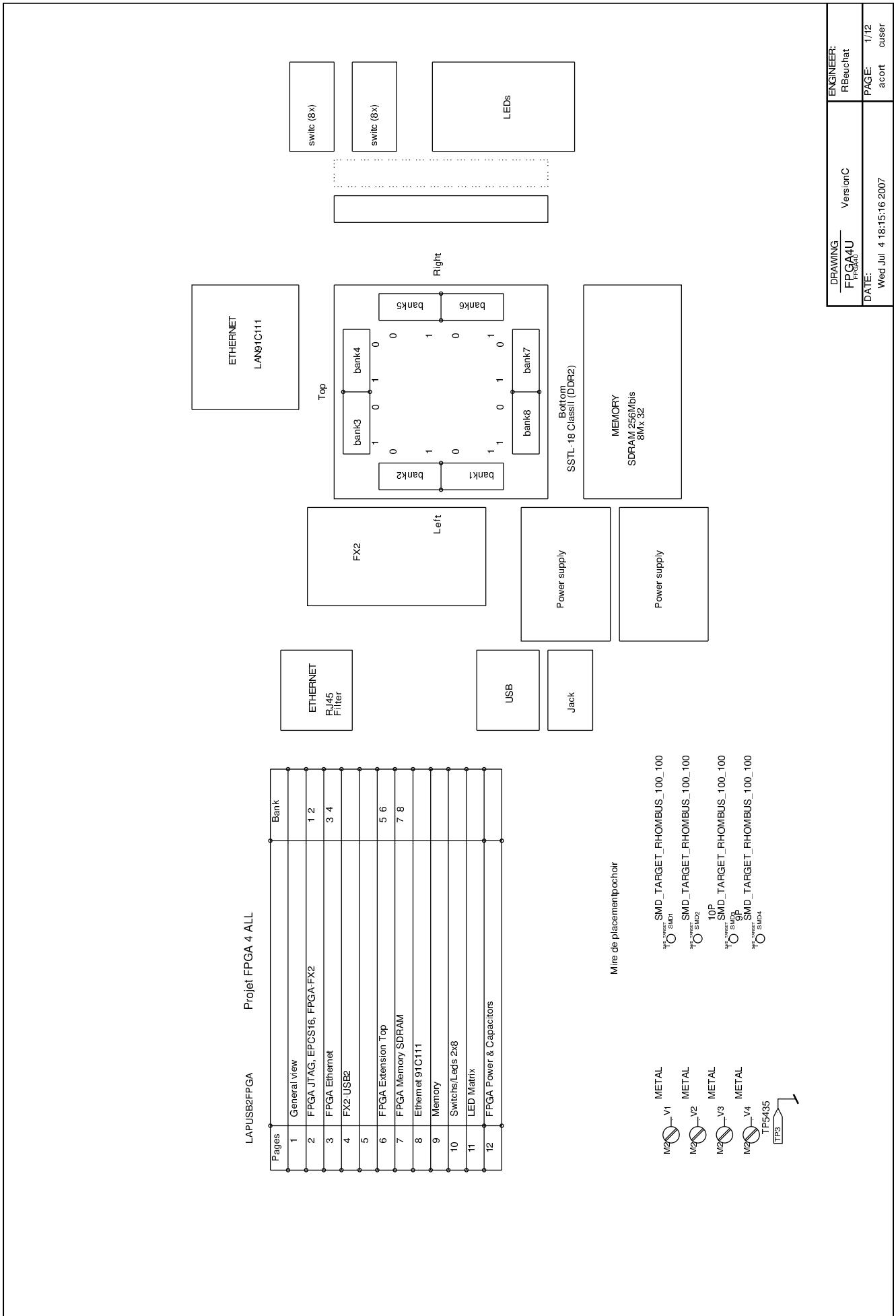
LAP R.Beuchat
 Phone: +41 21 693 3903
 Fri Jul 6 11:12:28 MET DST 2007

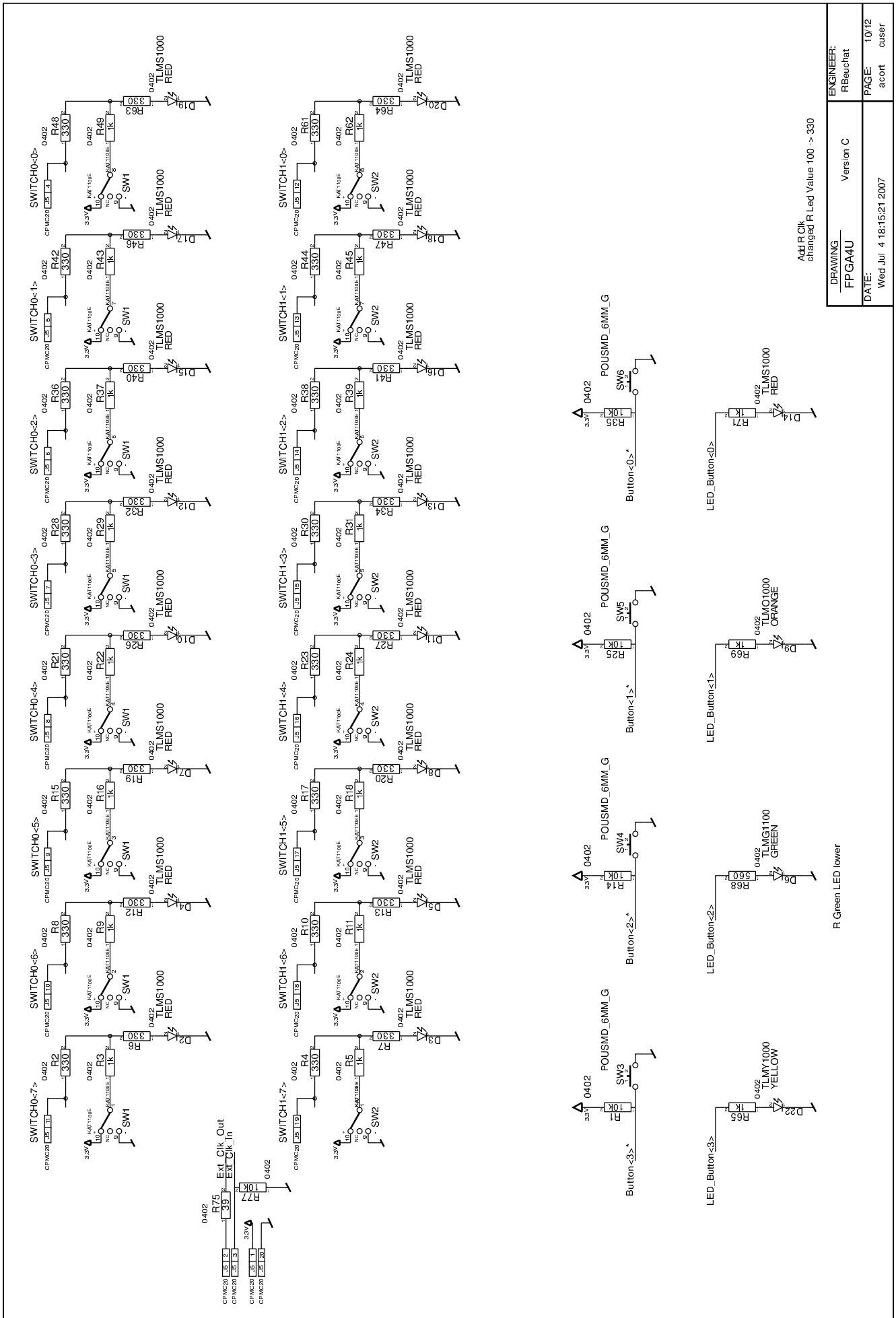
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 QUANTITY: 1
 SOLDERMASK: mtop mbot
 MATERIAL: FR4 : 1.6 mm

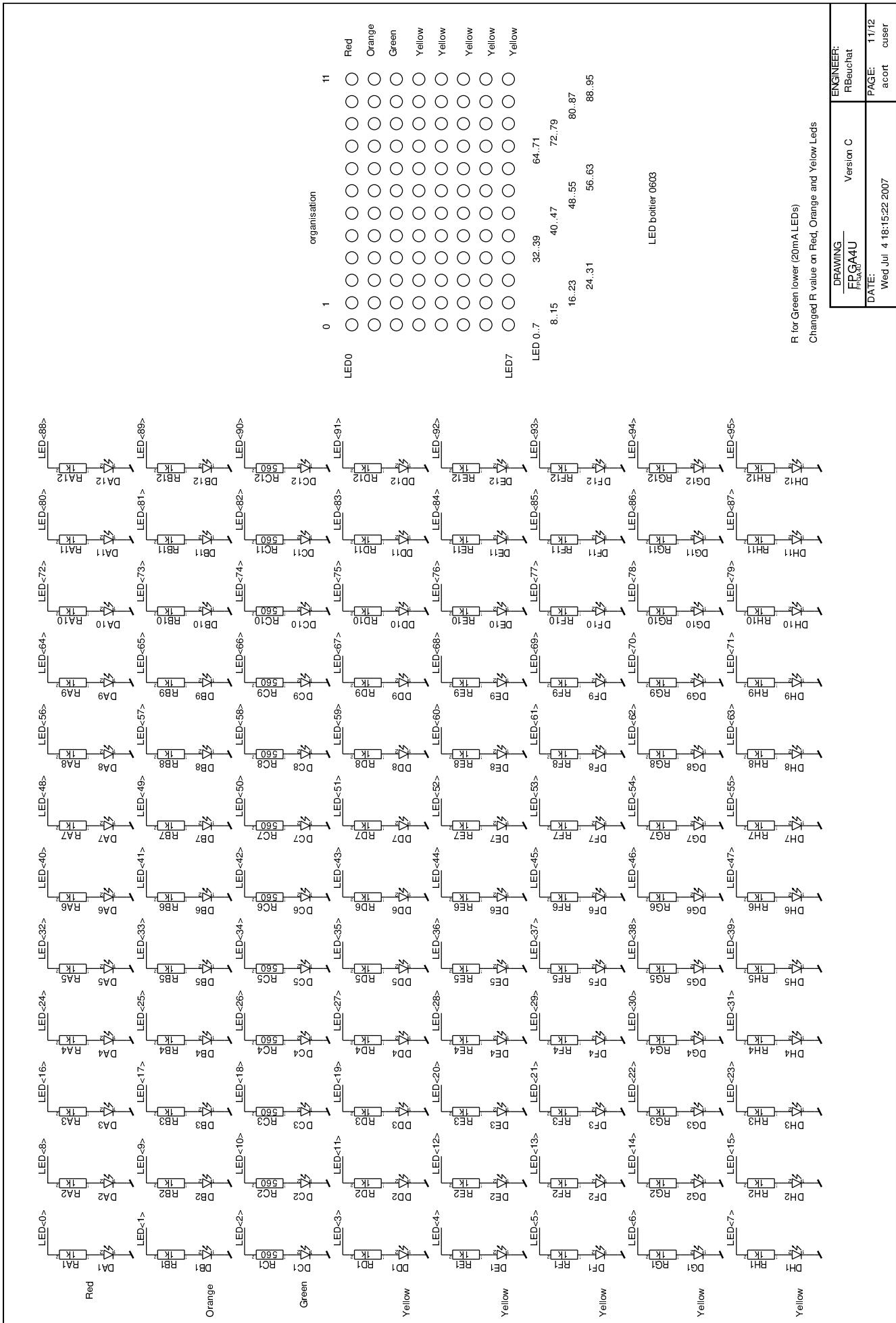


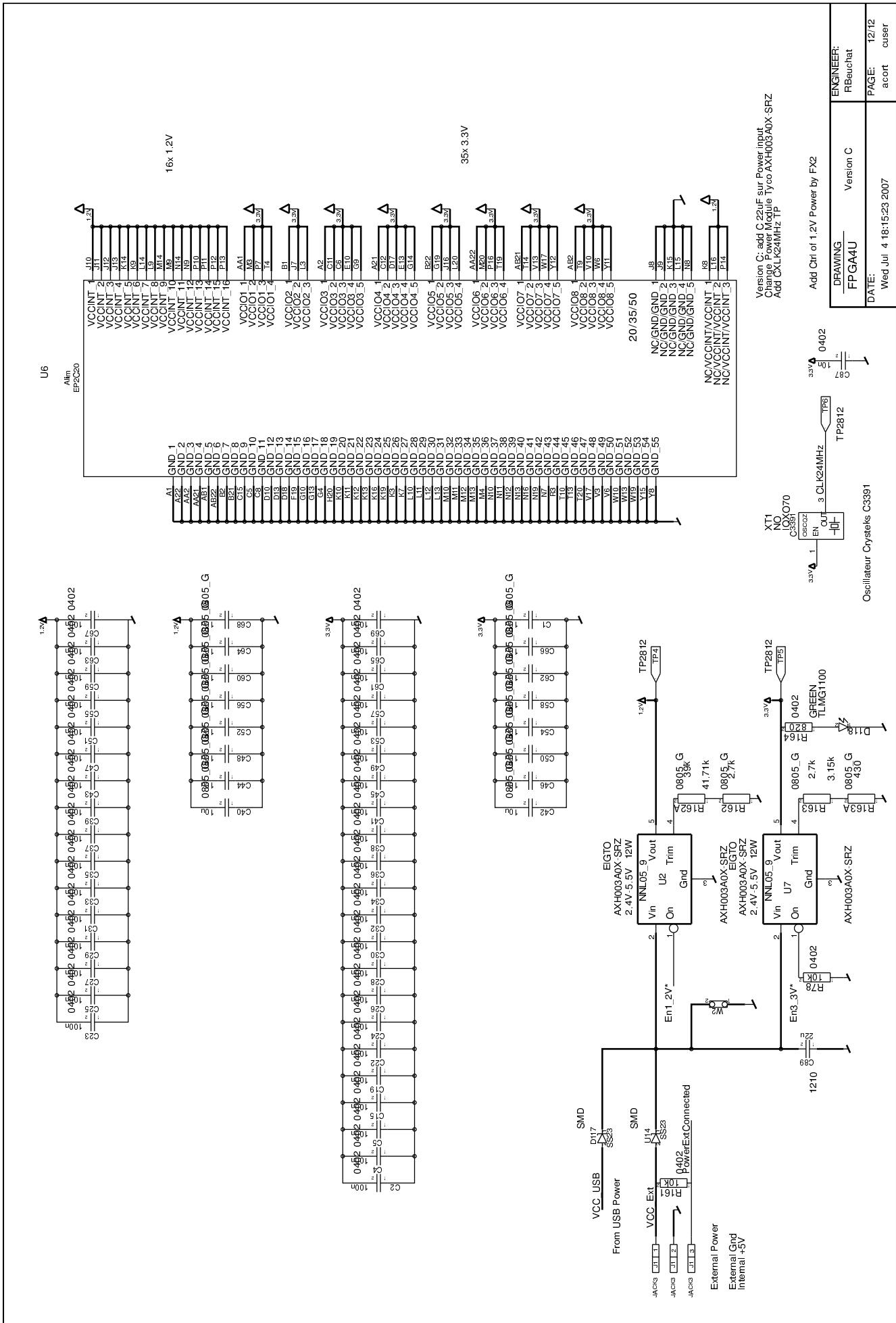
CONTENTS	PAGE
Root Schema fpga4u	2 - 13
Xref fpga4u	14 - 16
Drill	17
Etch	18
Outline_Bot_Scale2_0	19
Outline_Top	20
Outline_Top_Scale2_0	21
Gerber_ptop	22
Gerber_mtop	23
Gerber_top	24
Gerber_top1	25
Gerber_top2	26
Gerber_bot2	27
Gerber_bot1	28

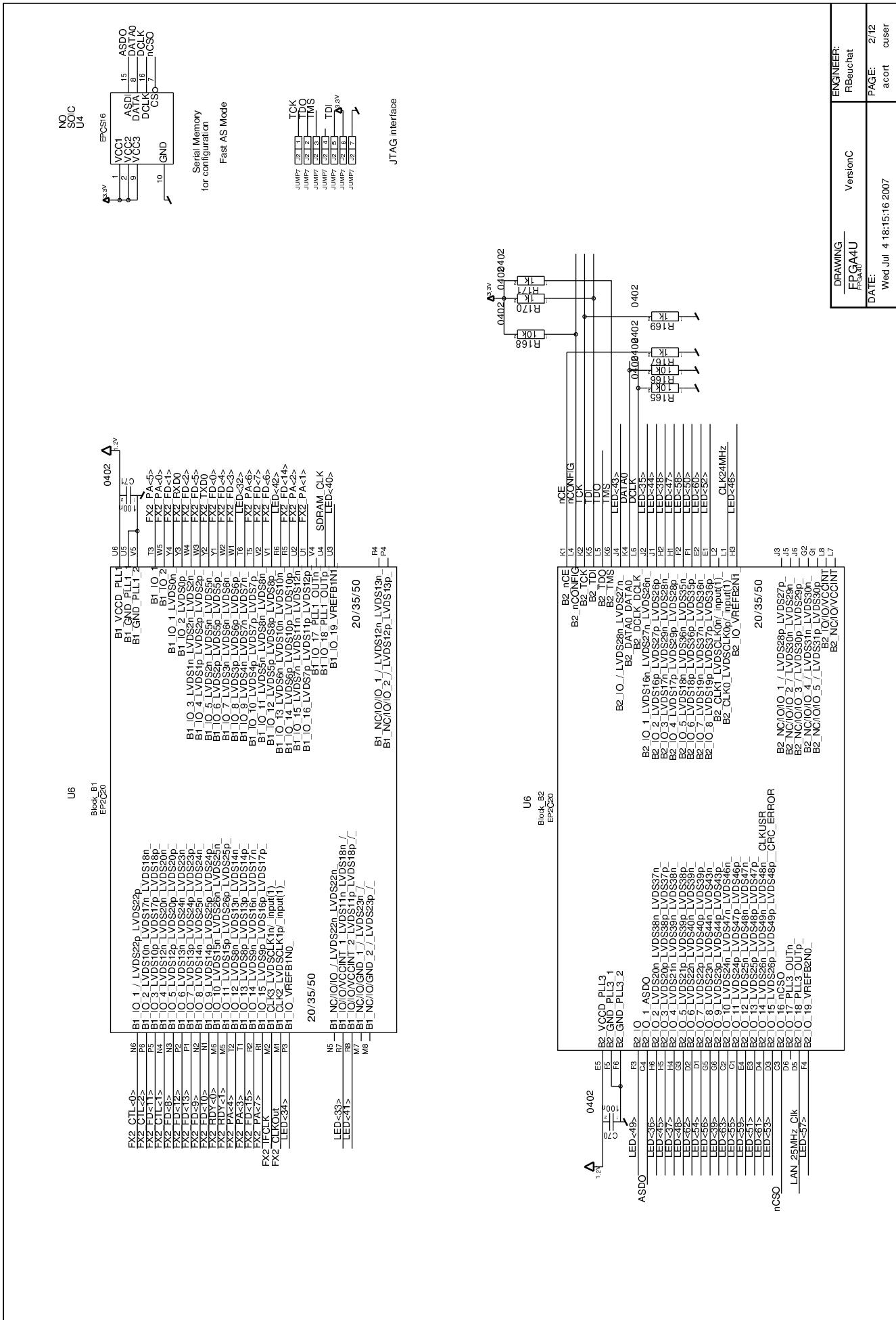
CONTENTS	PAGE
Gerber_bot	29
Gerber_mbot	30
Gerber_pbot	31
Gerber_cont	32
Component Report	33 - 41
BOM Report	42 - 44
NC-Pins Report	45
Power-Pins Report	46 - 49
Single Node Nets	50

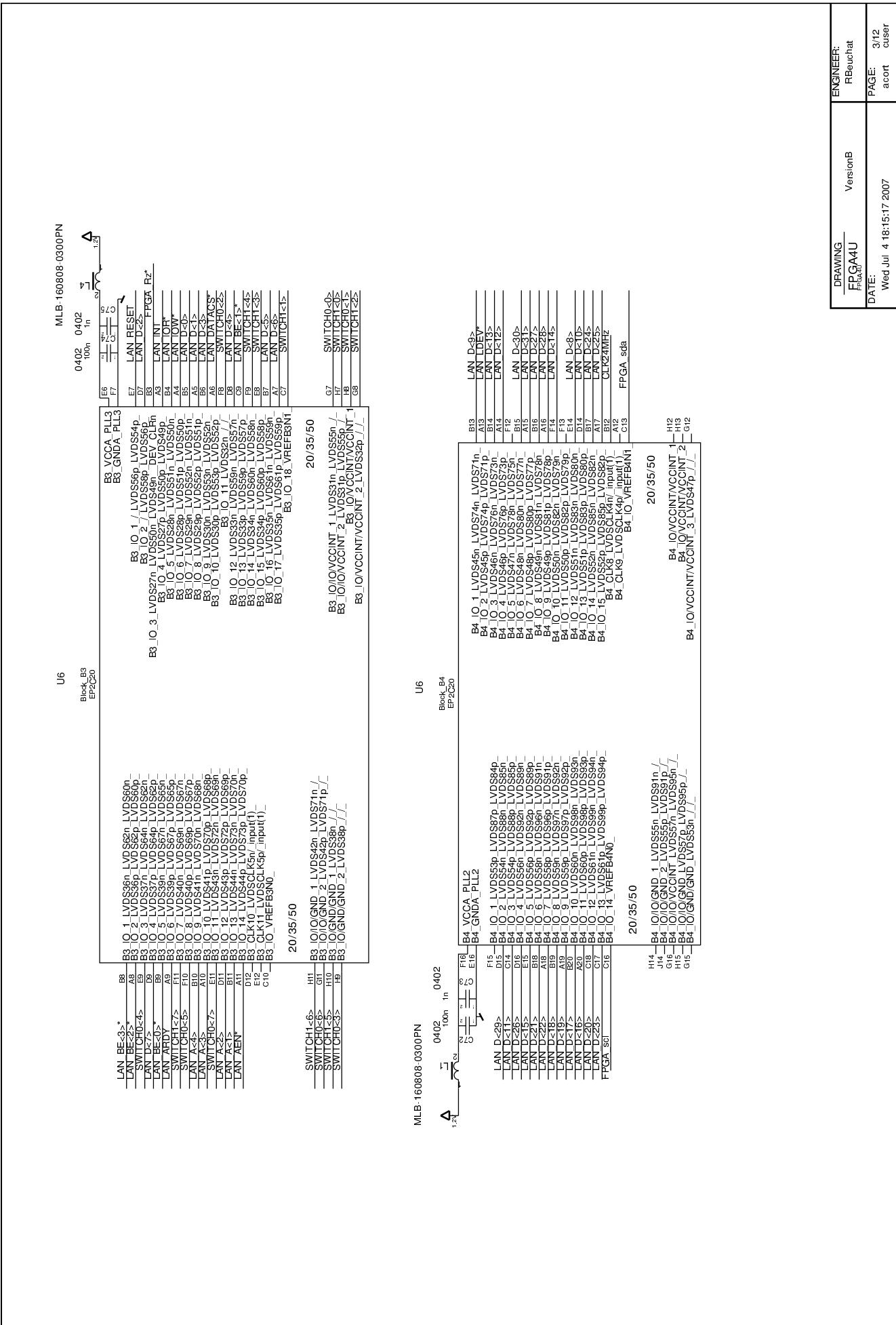


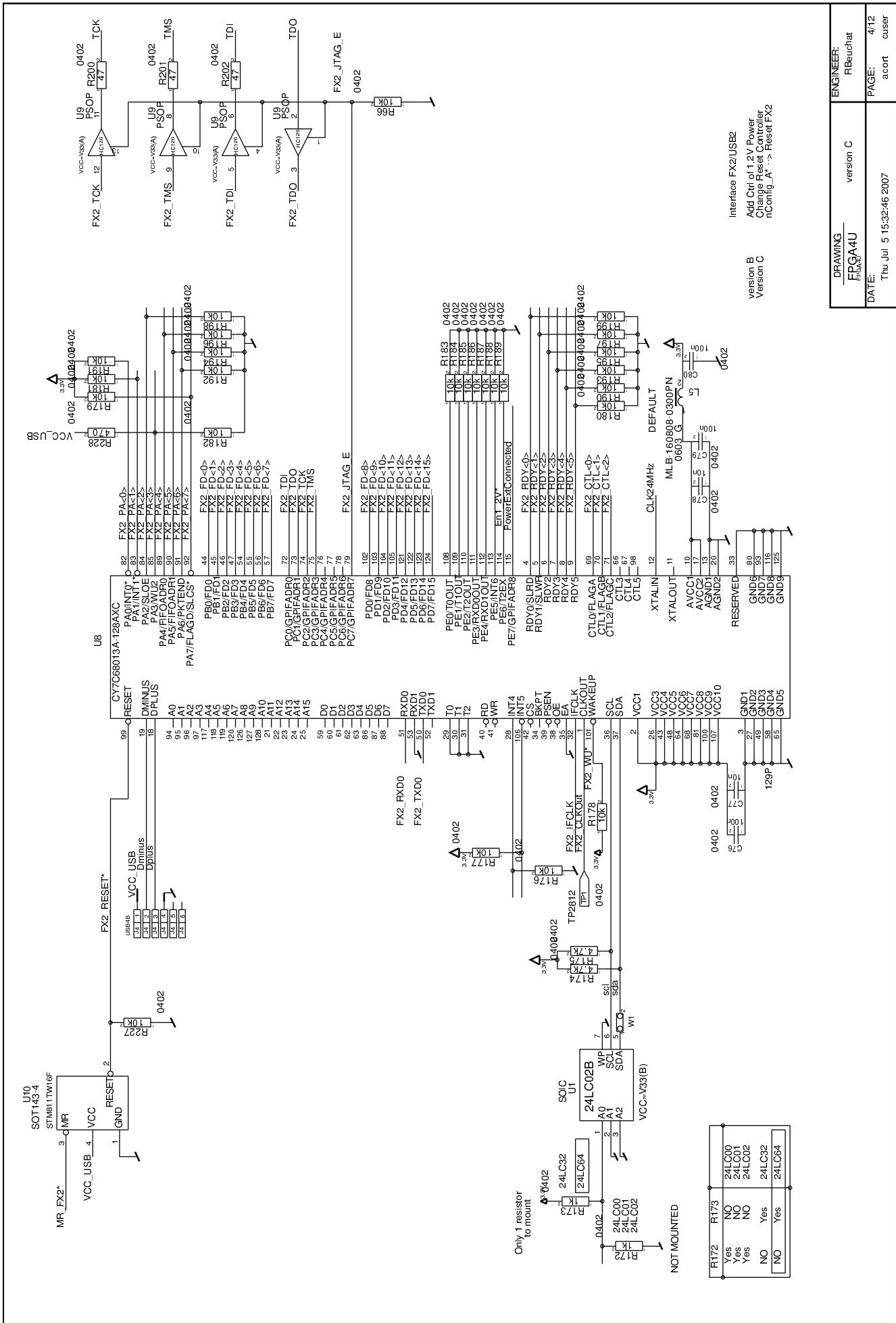


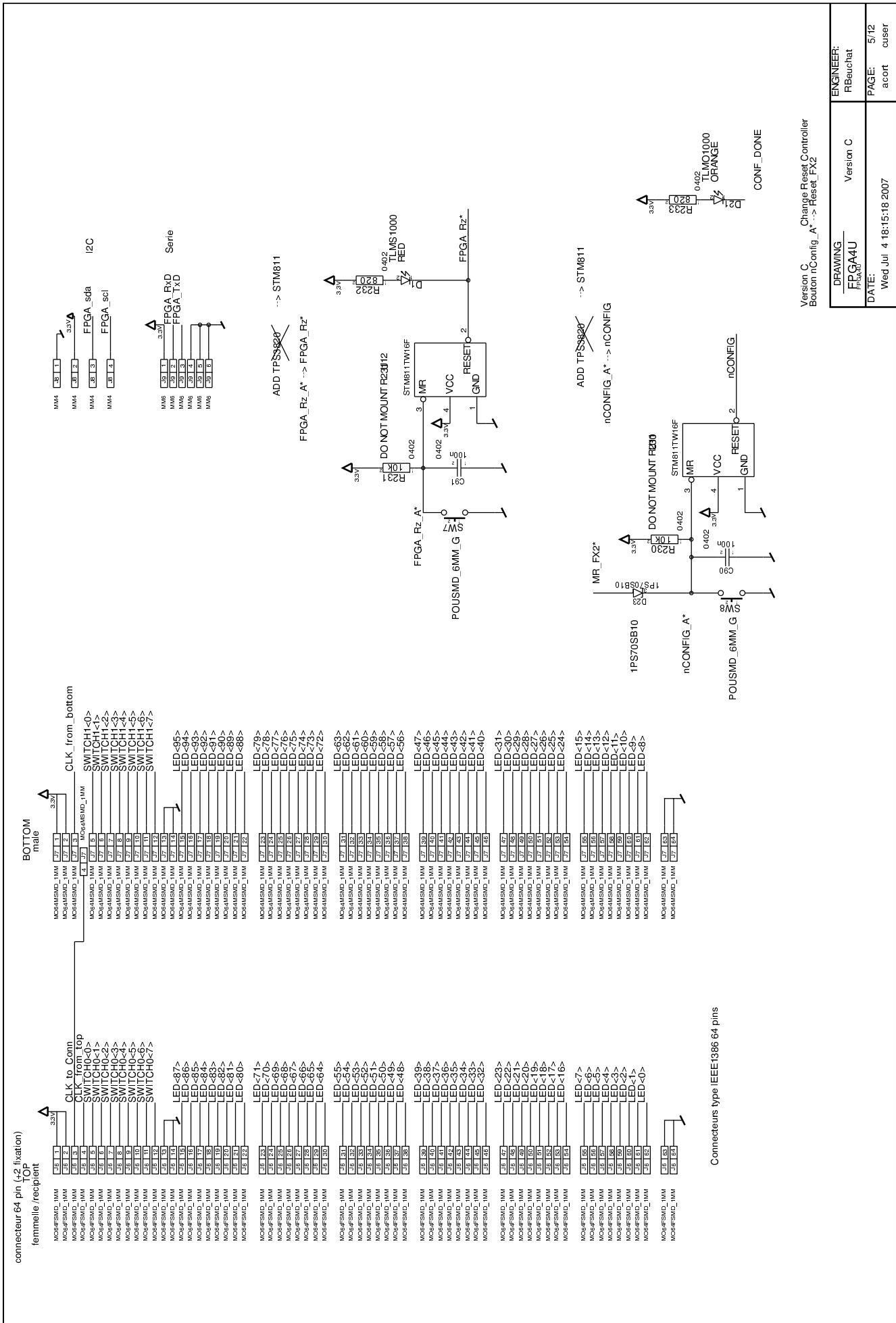


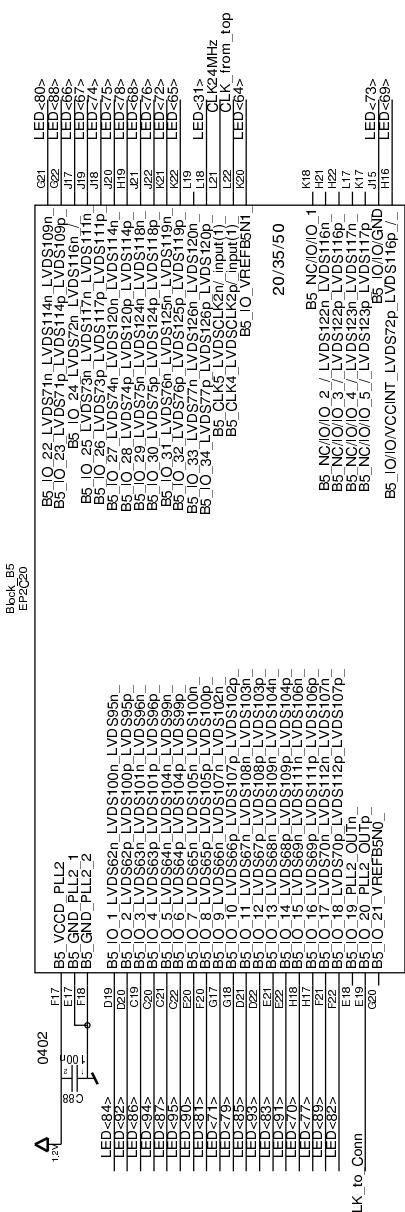




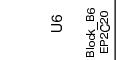
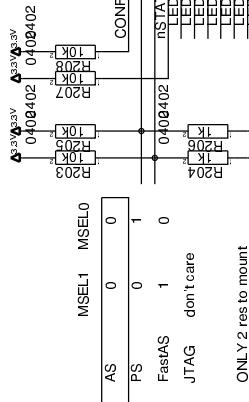








NOT mount R203, R205



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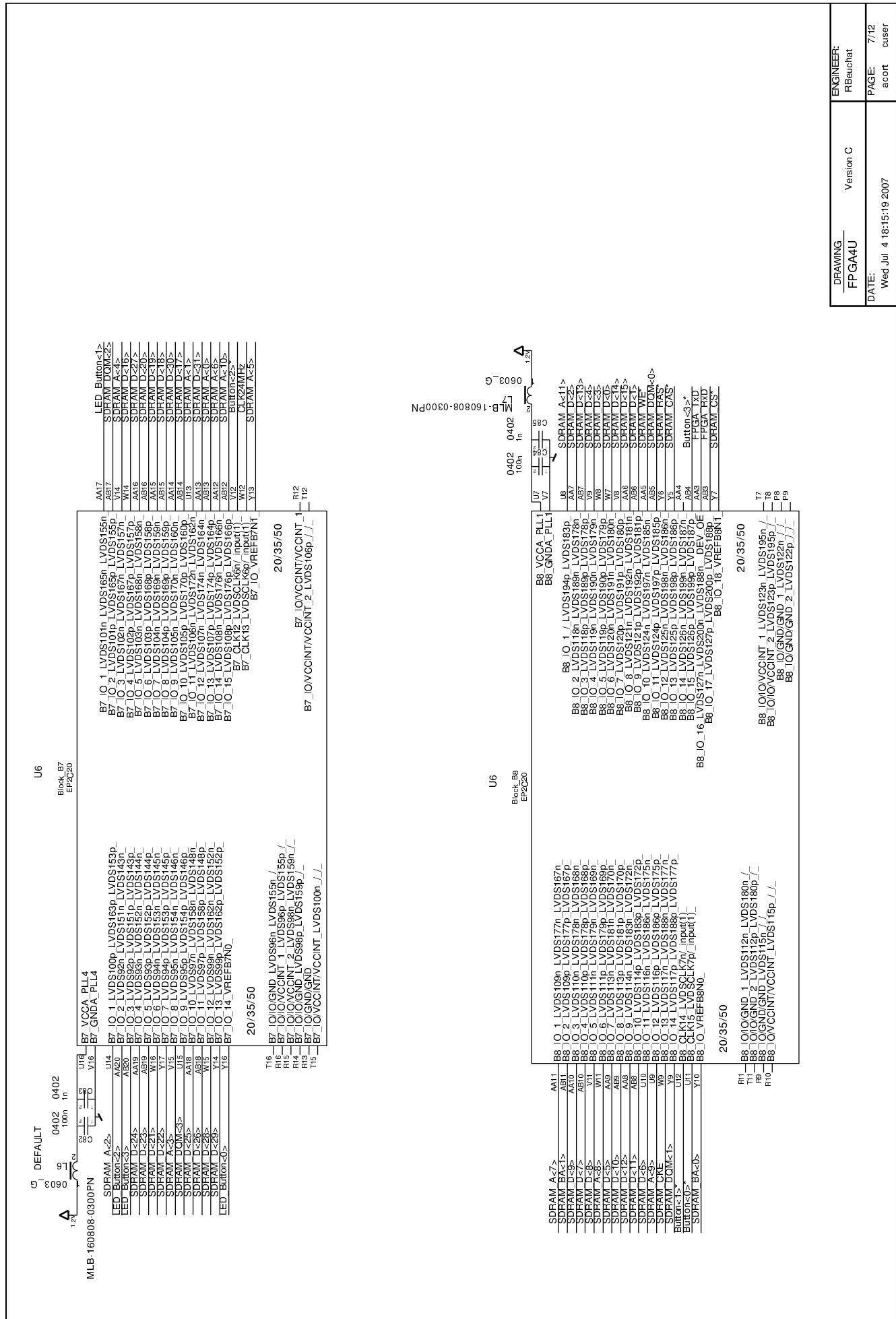
20/35/50

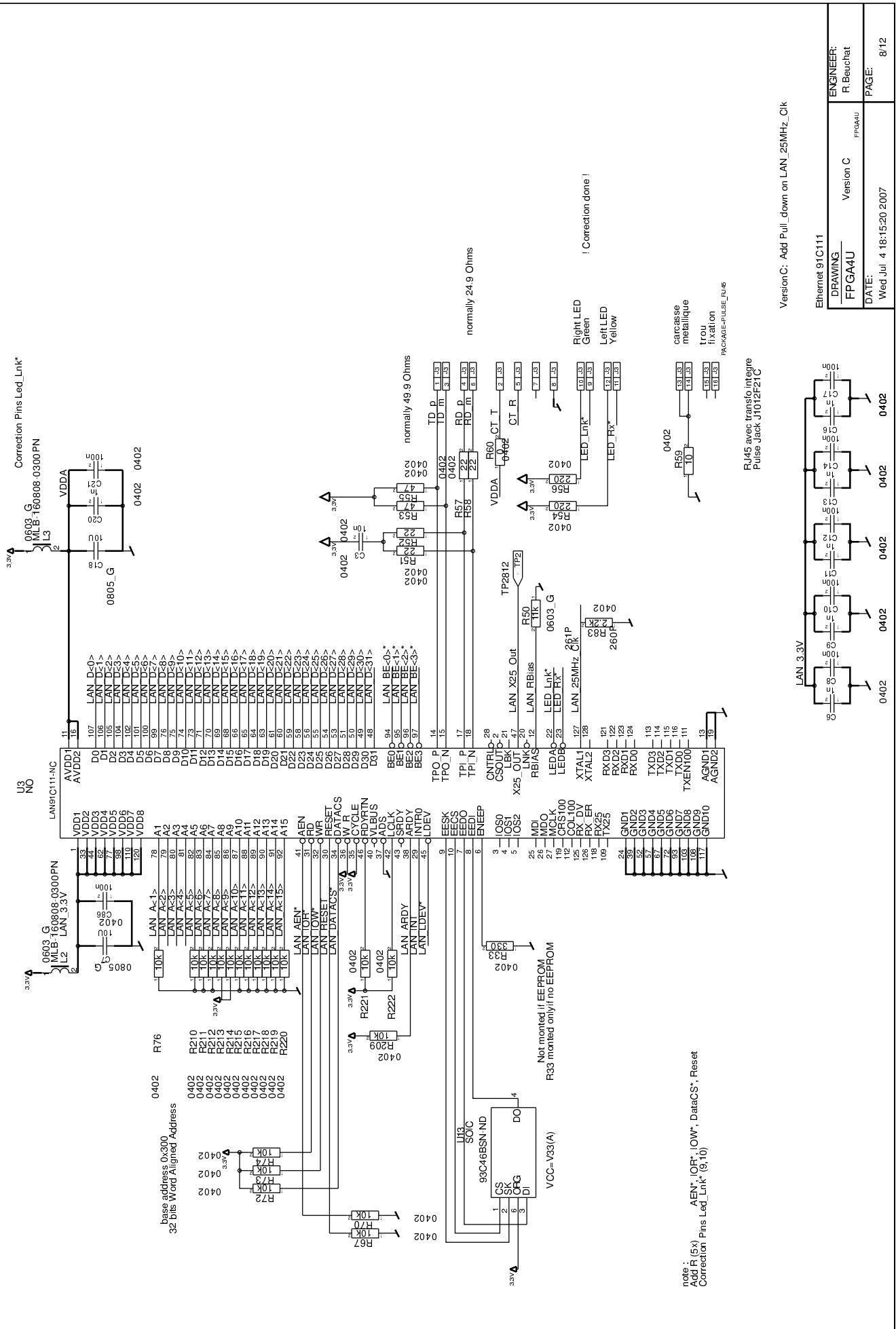
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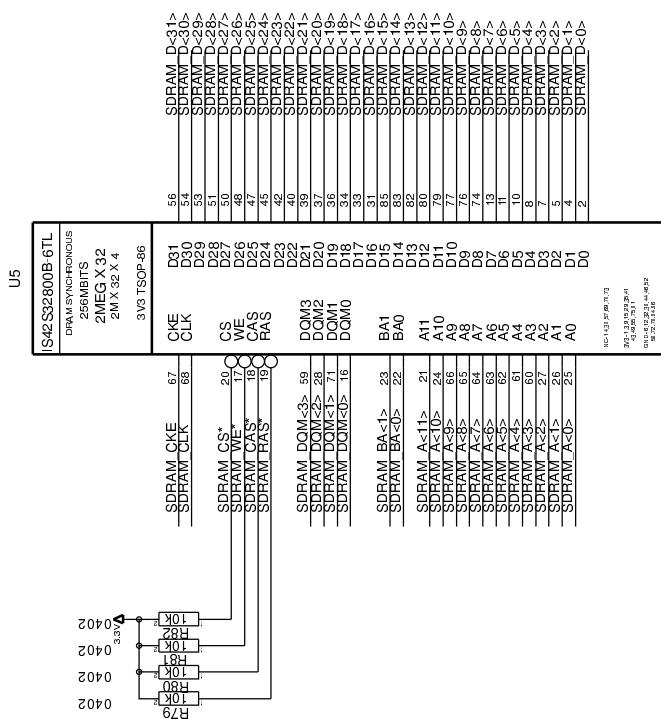
10

1

10 of 10







Add R pull_up

DRAWING FP GA4U	Version C	ENGINEER: RBeuchat
DATE: Wed Jul 4 18:15:20 2007		PAGE: 9/12 acort ouser

Signal Page Ref fpga4u_c

fpga4u

Fri Jul 6 11:12:30 MET DST 2007

Ref Des	Pages	Ref Des	Pages
ASDO	2 2	FX2_RDY<2>	4
Button<0>*	10 7	FX2_RDY<3>	4
Button<1>*	10 7	FX2_RDY<4>	4
Button<2>*	10 7	FX2_RDY<5>	4
Button<3>*	10 7	FX2_RESET*	4
CLK24MHz	12 2 3 4 6 7	FX2_RXD0	2 4
CLK_from_bottom	5 6	FX2_TCK	4 4
CLK_from_top	5 6	FX2_TDI	4 4
CLK_to_Conn	5 6	FX2_TDO	4 4
CONF_DONE	5 6	FX2_TMS	4 4
CT_R	8	FX2_TXD0	2 4
CT_T	8	FX2_WU*	4
DATA0	2 2	LAN_25MHz_Clk	2 8
DCLK	2 2	LAN_3.3V	8 8
Dminus	4	LAN_A<1>	3 8
Dplus	4	LAN_A<2>	3 8
En1_2V*	12 4	LAN_A<3>	3 8
En3_3V*	12	LAN_A<4>	3 8
Ext_Clk_In	10 6	LAN_A<5>	8
Ext_Clk_Out	10 6	LAN_A<6>	8
FPGA_RxD	5 7	LAN_A<7>	8
FPGA_Rz*	3 5	LAN_A<8>	8
FPGA_Rz_A*	5	LAN_A<9>	8
FPGA_scl	3 5	LAN_A<10>	8
FPGA_sda	3 5	LAN_A<11>	8
FPGA_TxD	5 7	LAN_A<12>	8
FX2_CLKOut	2 4	LAN_A<13>	8
FX2_CTL<0>	2 4	LAN_A<14>	8
FX2_CTL<1>	2 4	LAN_A<15>	8
FX2_CTL<2>	2 4	LAN_AEN*	3 8
FX2_FD<0>	2 4	LAN_ARDY	3 8
FX2_FD<1>	2 4	LAN_BE<0>*	3 8
FX2_FD<2>	2 4	LAN_BE<1>*	3 8
FX2_FD<3>	2 4	LAN_BE<2>*	3 8
FX2_FD<4>	2 4	LAN_BE<3>*	3 8
FX2_FD<5>	2 4	LAN_D<0>	3 8
FX2_FD<6>	2 4	LAN_D<1>	3 8
FX2_FD<7>	2 4	LAN_D<2>	3 8
FX2_FD<8>	2 4	LAN_D<3>	3 8
FX2_FD<9>	2 4	LAN_D<4>	3 8
FX2_FD<10>	2 4	LAN_D<5>	3 8
FX2_FD<11>	2 4	LAN_D<6>	3 8
FX2_FD<12>	2 4	LAN_D<7>	3 8
FX2_FD<13>	2 4	LAN_D<8>	3 8
FX2_FD<14>	2 4	LAN_D<9>	3 8
FX2_FD<15>	2 4	LAN_D<10>	3 8
FX2_IFCLK	2 4	LAN_D<11>	3 8
FX2_JTAG_E	4 4	LAN_D<12>	3 8
FX2_PA<0>	2 4	LAN_D<13>	3 8
FX2_PA<1>	2 4	LAN_D<14>	3 8
FX2_PA<2>	2 4	LAN_D<15>	3 8
FX2_PA<3>	2 4	LAN_D<16>	3 8
FX2_PA<4>	2 4	LAN_D<17>	3 8
FX2_PA<5>	2 4	LAN_D<18>	3 8
FX2_PA<6>	2 4	LAN_D<19>	3 8
FX2_PA<7>	2 4	LAN_D<20>	3 8
FX2_RDY<0>	2 4	LAN_D<21>	3 8
FX2_RDY<1>	2 4	LAN_D<22>	3 8

Signal Page Ref fpga4u_c

fpga4u

Fri Jul 6 11:12:30 MET DST 2007

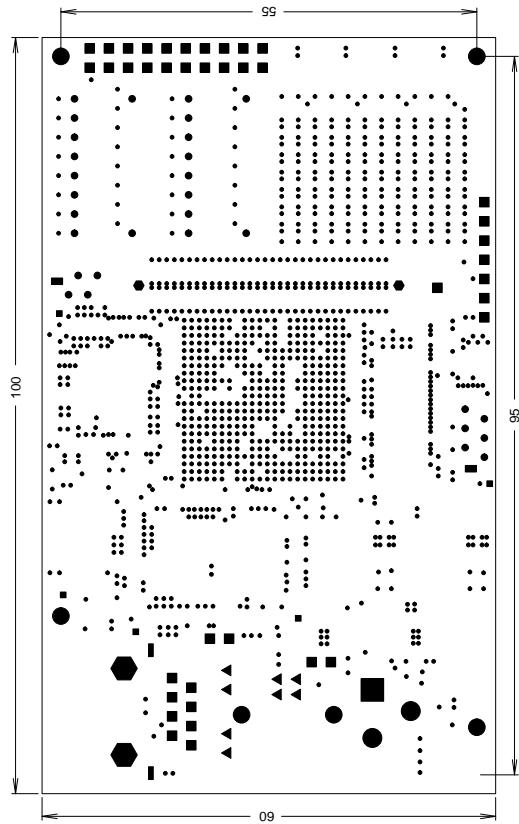
Ref Des	Pages	Ref Des	Pages
LAN_D<23>	3 8	LED<41>	11 2 5
LAN_D<24>	3 8	LED<42>	11 2 5
LAN_D<25>	3 8	LED<43>	11 2 5
LAN_D<26>	3 8	LED<44>	11 2 5
LAN_D<27>	3 8	LED<45>	11 2 5
LAN_D<28>	3 8	LED<46>	11 2 5
LAN_D<29>	3 8	LED<47>	11 2 5
LAN_D<30>	3 8	LED<48>	11 2 5
LAN_D<31>	3 8	LED<49>	11 2 5
LAN_DATACS*	3 8	LED<50>	11 2 5
LAN_INT	3 8	LED<51>	11 2 5
LAN_IOR*	3 8	LED<52>	11 2 5
LAN_IOW*	3 8	LED<53>	11 2 5
LAN_LDEV*	3 8	LED<54>	11 2 5
LAN_RBias	8	LED<55>	11 2 5
LAN_RESET	3 8	LED<56>	11 2 5
LAN_X25_Out	8	LED<57>	11 2 5
LED<0>	11 5 6	LED<58>	11 2 5
LED<1>	11 5 6	LED<59>	11 2 5
LED<2>	11 5 6	LED<60>	11 2 5
LED<3>	11 5 6	LED<61>	11 2 5
LED<4>	11 5 6	LED<62>	11 2 5
LED<5>	11 5 6	LED<63>	11 2 5
LED<6>	11 5 6	LED<64>	11 5 6
LED<7>	11 5 6	LED<65>	11 5 6
LED<8>	11 5 6	LED<66>	11 5 6
LED<9>	11 5 6	LED<67>	11 5 6
LED<10>	11 5 6	LED<68>	11 5 6
LED<11>	11 5 6	LED<69>	11 5 6
LED<12>	11 5 6	LED<70>	11 5 6
LED<13>	11 5 6	LED<71>	11 5 6
LED<14>	11 5 6	LED<72>	11 5 6
LED<15>	11 5 6	LED<73>	11 5 6
LED<16>	11 5 6	LED<74>	11 5 6
LED<17>	11 5 6	LED<75>	11 5 6
LED<18>	11 5 6	LED<76>	11 5 6
LED<19>	11 5 6	LED<77>	11 5 6
LED<20>	11 5 6	LED<78>	11 5 6
LED<21>	11 5 6	LED<79>	11 5 6
LED<22>	11 5 6	LED<80>	11 5 6
LED<23>	11 5 6	LED<81>	11 5 6
LED<24>	11 5 6	LED<82>	11 5 6
LED<25>	11 5 6	LED<83>	11 5 6
LED<26>	11 5 6	LED<84>	11 5 6
LED<27>	11 5 6	LED<85>	11 5 6
LED<28>	11 5 6	LED<86>	11 5 6
LED<29>	11 5 6	LED<87>	11 5 6
LED<30>	11 5 6	LED<88>	11 5 6
LED<31>	11 5 6	LED<89>	11 5 6
LED<32>	11 2 5	LED<90>	11 5 6
LED<33>	11 2 5	LED<91>	11 5 6
LED<34>	11 2 5	LED<92>	11 5 6
LED<35>	11 2 5	LED<93>	11 5 6
LED<36>	11 2 5	LED<94>	11 5 6
LED<37>	11 2 5	LED<95>	11 5 6
LED<38>	11 2 5	LED_Button<0>	10 7
LED<39>	11 2 5	LED_Button<1>	10 7
LED<40>	11 2 5	LED_Button<2>	10 7

Signal Page Ref fpga4u_c

fpga4u

Fri Jul 6 11:12:30 MET DST 2007

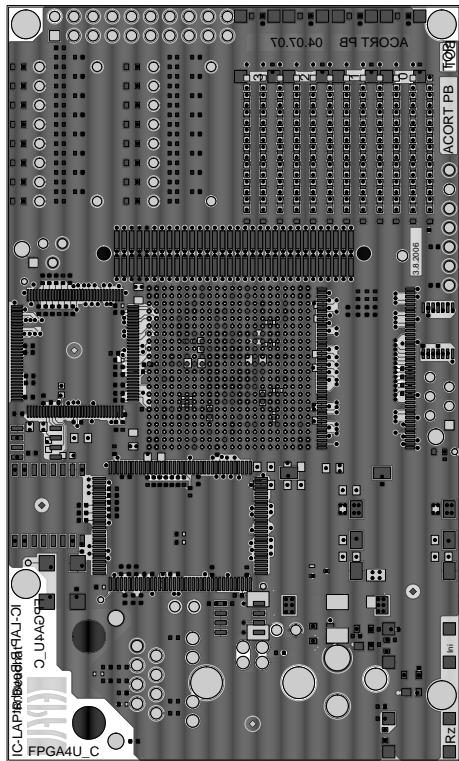
Ref Des	Pages	Ref Des	Pages
LED_Button<3>	10 7	SDRAM_D<26>	7 9
LED_Lnk*	8 8	SDRAM_D<27>	7 9
LED_Rx*	8 8	SDRAM_D<28>	7 9
MR_FX2*	4 5	SDRAM_D<29>	7 9
nCE	2	SDRAM_D<30>	7 9
nCONFIG	2 5	SDRAM_D<31>	7 9
nCONFIG_A*	5	SDRAM_DQM<0>	7 9
nCSO	2 2	SDRAM_DQM<1>	7 9
nSTATUS	6	SDRAM_DQM<2>	7 9
PowerExtConnected	12 4	SDRAM_DQM<3>	7 9
RD_m	8	SDRAM_RAS*	7 9
RD_p	8	SDRAM_WE*	7 9
scl	4	SWITCH0<0>	10 3 5
sda	4	SWITCH0<1>	10 3 5
SDRAM_A<0>	7 9	SWITCH0<2>	10 3 5
SDRAM_A<1>	7 9	SWITCH0<3>	10 3 5
SDRAM_A<2>	7 9	SWITCH0<4>	10 3 5
SDRAM_A<3>	7 9	SWITCH0<5>	10 3 5
SDRAM_A<4>	7 9	SWITCH0<6>	10 3 5
SDRAM_A<5>	7 9	SWITCH0<7>	10 3 5
SDRAM_A<6>	7 9	SWITCH1<0>	10 3 5
SDRAM_A<7>	7 9	SWITCH1<1>	10 3 5
SDRAM_A<8>	7 9	SWITCH1<2>	10 3 5
SDRAM_A<9>	7 9	SWITCH1<3>	10 3 5
SDRAM_A<10>	7 9	SWITCH1<4>	10 3 5
SDRAM_A<11>	7 9	SWITCH1<5>	10 3 5
SDRAM_BA<0>	7 9	SWITCH1<6>	10 3 5
SDRAM_BA<1>	7 9	SWITCH1<7>	10 3 5
SDRAM_CAS*	7 9	TCK	2 2 4
SDRAM_CKE	7 9	TDI	2 2 4
SDRAM_CLK	2 9	TDO	2 2 4
SDRAM_CS*	7 9	TD_m	8
SDRAM_D<0>	7 9	TD_p	8
SDRAM_D<1>	7 9	TMS	2 2 4
SDRAM_D<2>	7 9	VCC_Ext	12
SDRAM_D<3>	7 9	VCC_USB	12 4 4 4
SDRAM_D<4>	7 9	VDDA	8 8
SDRAM_D<5>	7 9	Total Signals count 327	
SDRAM_D<6>	7 9		
SDRAM_D<7>	7 9		
SDRAM_D<8>	7 9		
SDRAM_D<9>	7 9		
SDRAM_D<10>	7 9		
SDRAM_D<11>	7 9		
SDRAM_D<12>	7 9		
SDRAM_D<13>	7 9		
SDRAM_D<14>	7 9		
SDRAM_D<15>	7 9		
SDRAM_D<16>	7 9		
SDRAM_D<17>	7 9		
SDRAM_D<18>	7 9		
SDRAM_D<19>	7 9		
SDRAM_D<20>	7 9		
SDRAM_D<21>	7 9		
SDRAM_D<22>	7 9		
SDRAM_D<23>	7 9		
SDRAM_D<24>	7 9		
SDRAM_D<25>	7 9		



Vias 0.15mm must be filled and covered by solermask

Pad soldermask is set to same as copper pad size.
It must be extended in order to suit mask technology
but not more than 0.080 mm.

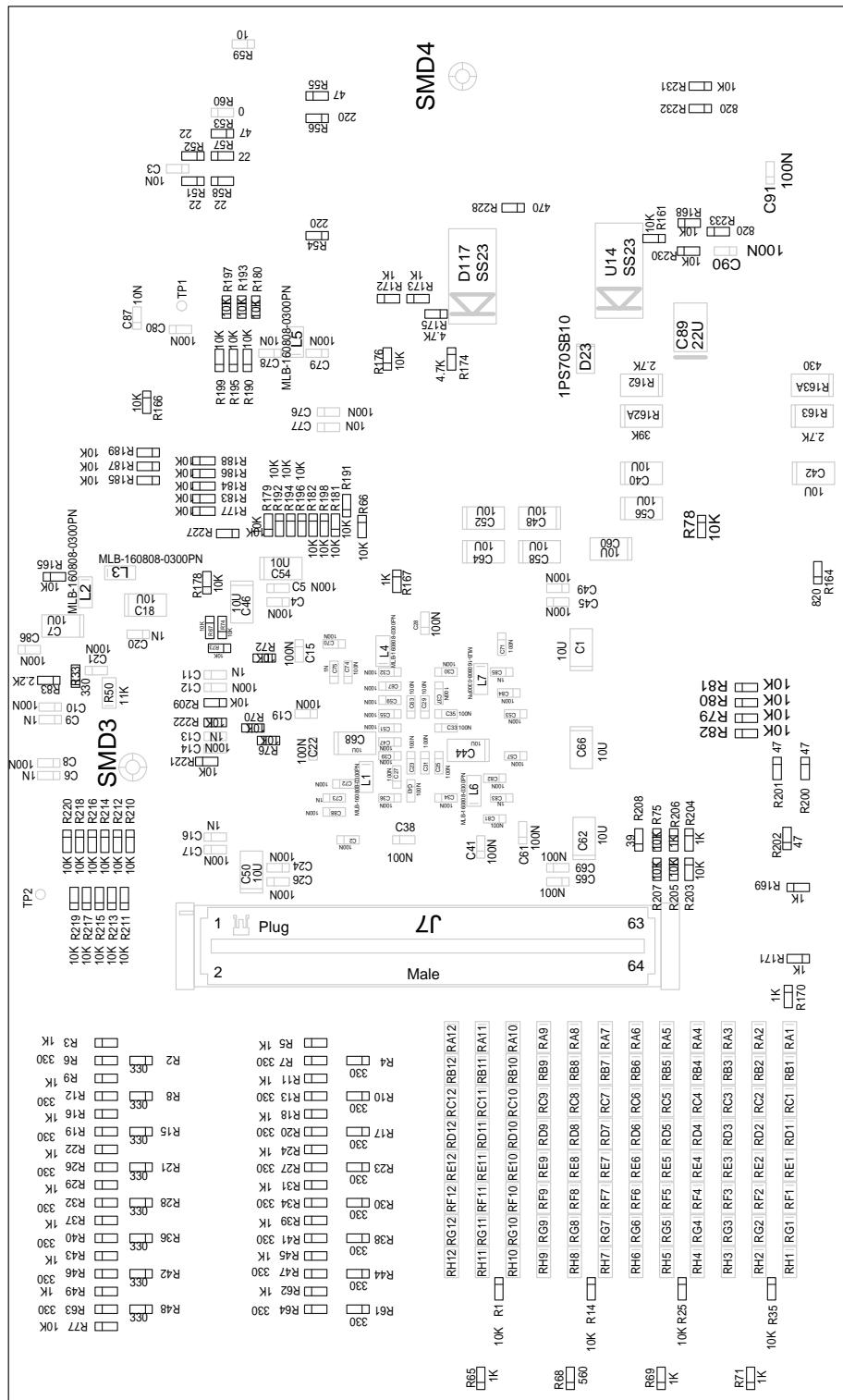
DRILL CHART				
FIGURE	SIZE	PLATED	QTY	
•	0.15	PLATED	1209	
■	0.508	PLATED	5	
●	0.787	PLATED	30	
■	0.889	PLATED	40	
▲	1.016	PLATED	8	
■	1.499	PLATED	2	
■	1.7	PLATED	2	
●	2.2	PLATED	6	
●	2.5	PLATED	2	
■	3.0	PLATED	1	
●	1.4	NOT PLATED	2	
■	3.5	NOT PLATED	2	

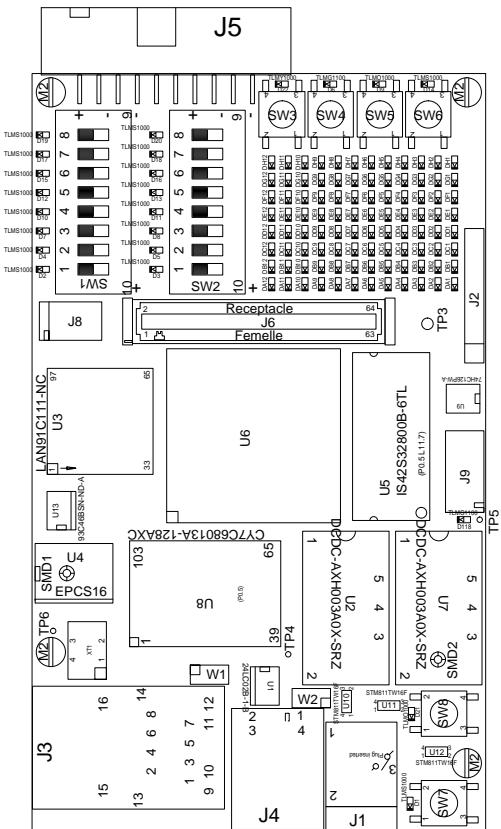


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LABORATOIRE:IC-LAP
ENGINEER:R.Beuchat

DATE:04.07.07
EPFL-ACORT-PB

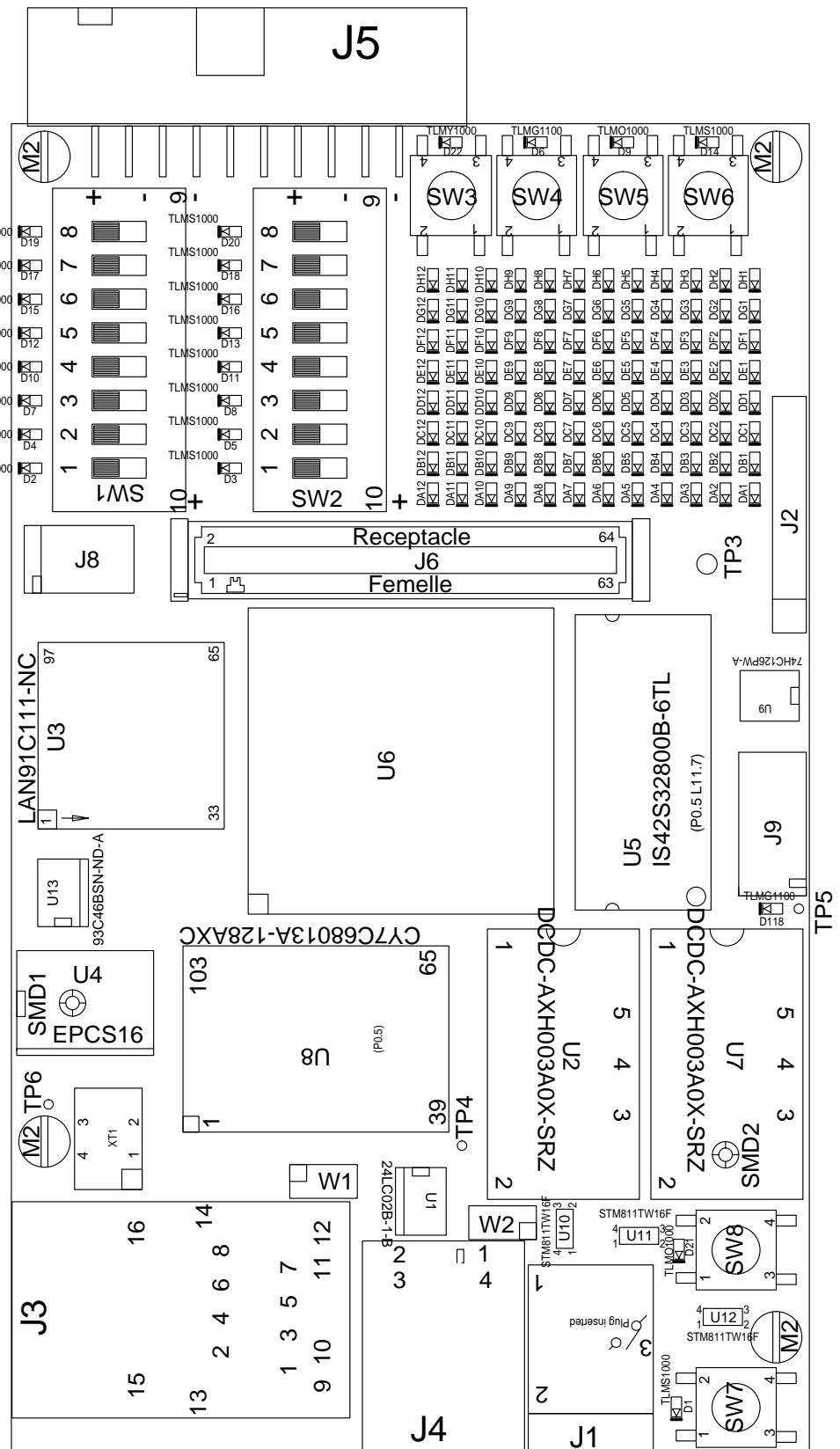


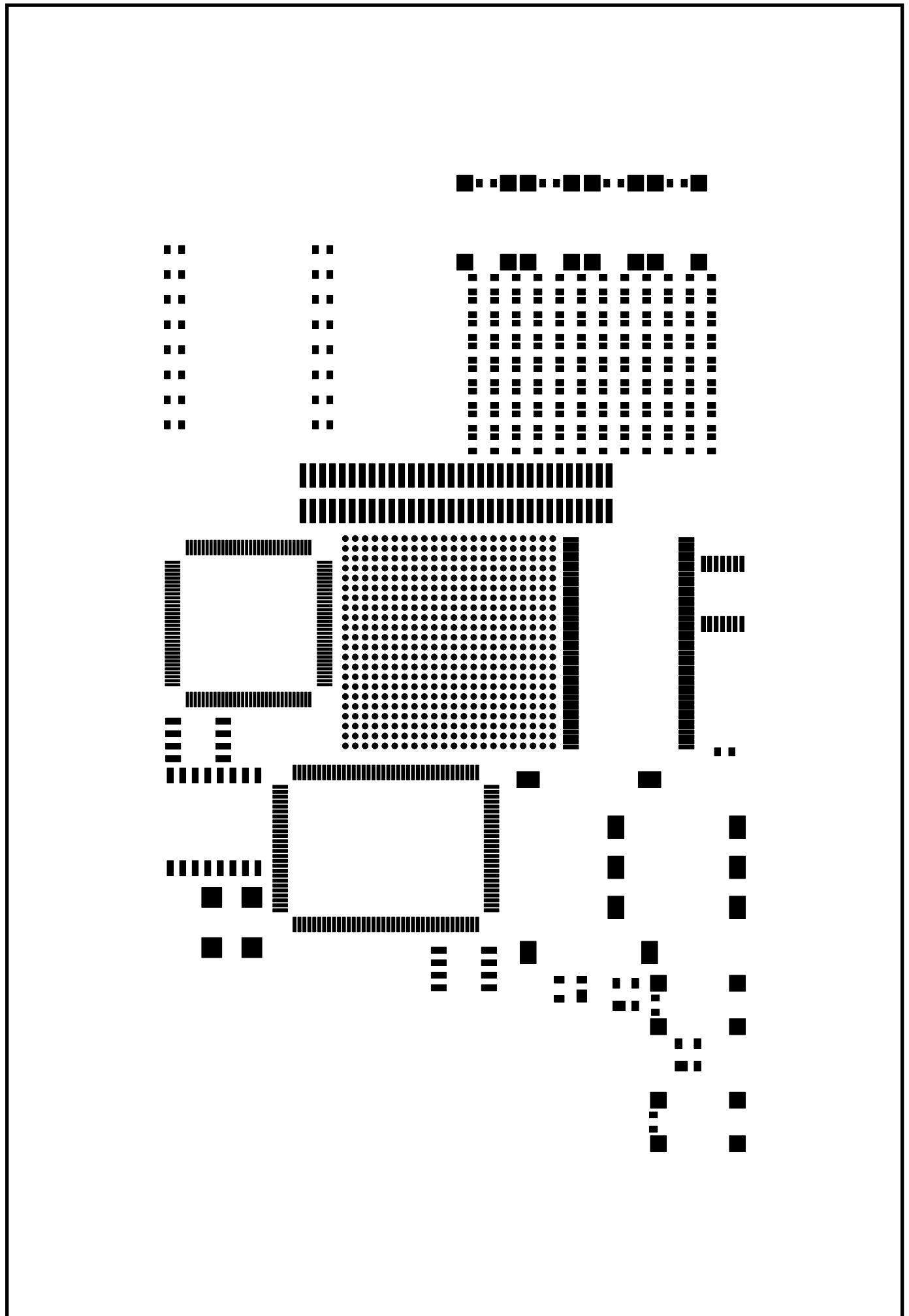


TITRE:FPGA4U_C

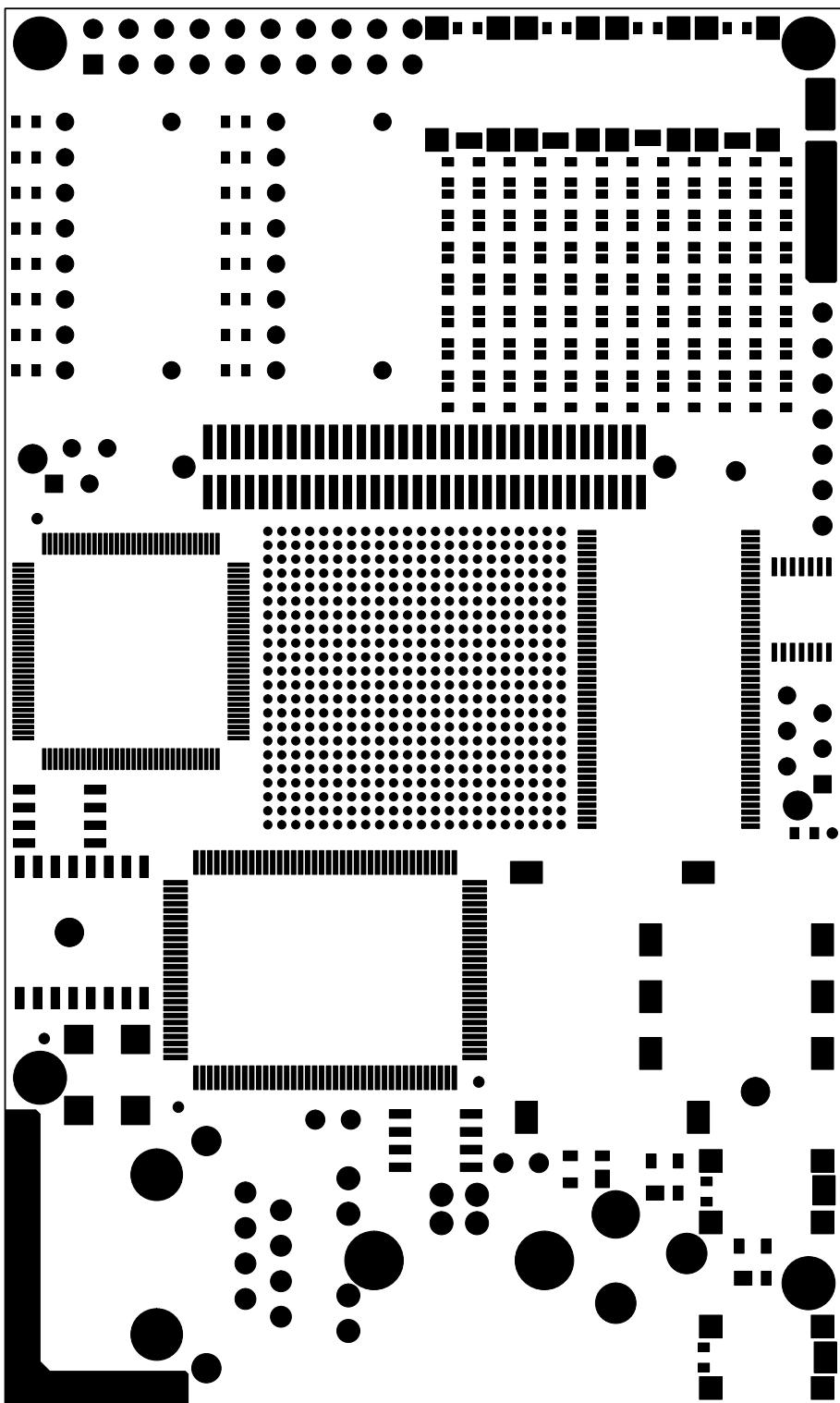
LABORATOIRE:IC-LAP
ENGINEER:R.Beachat

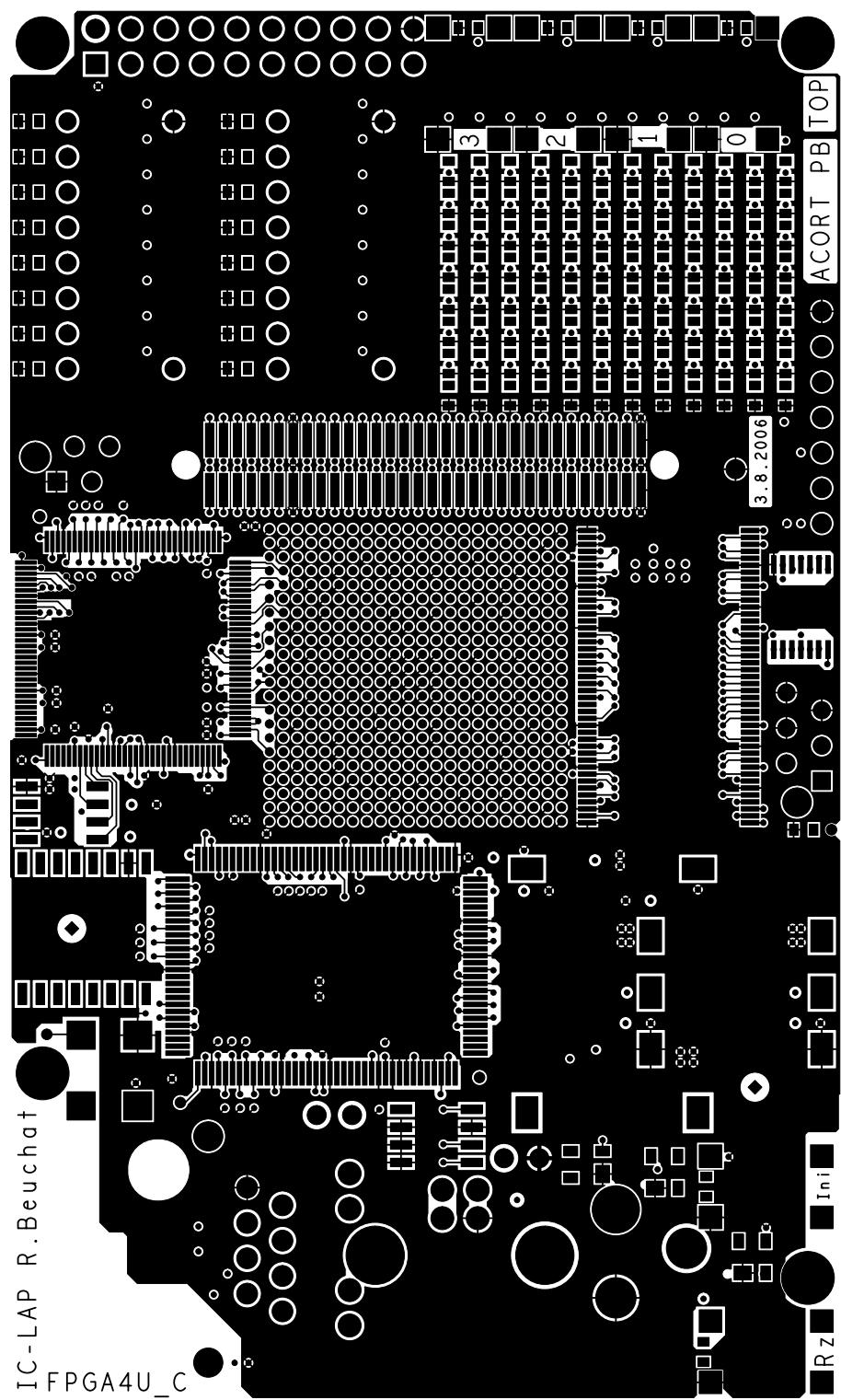
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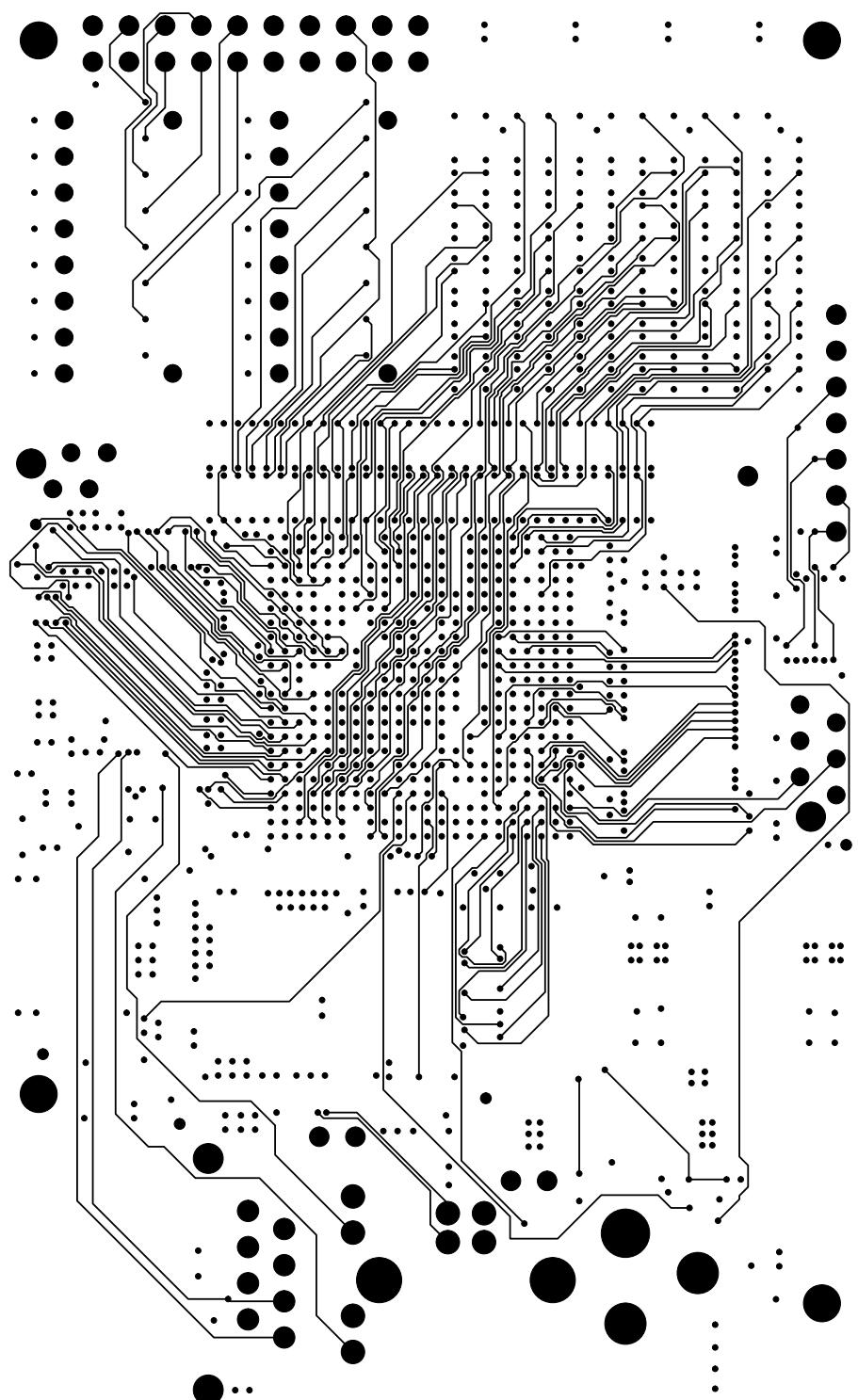


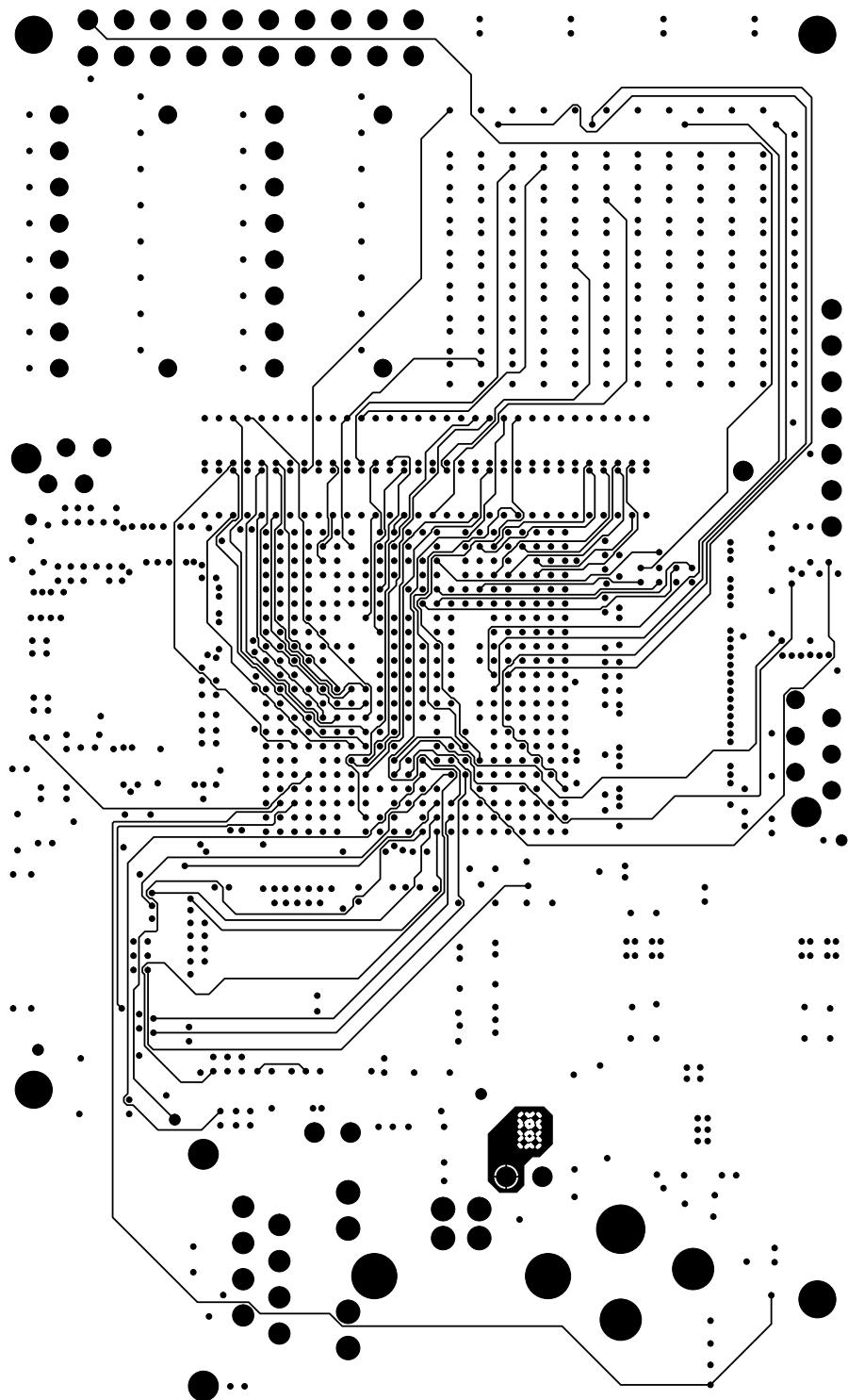


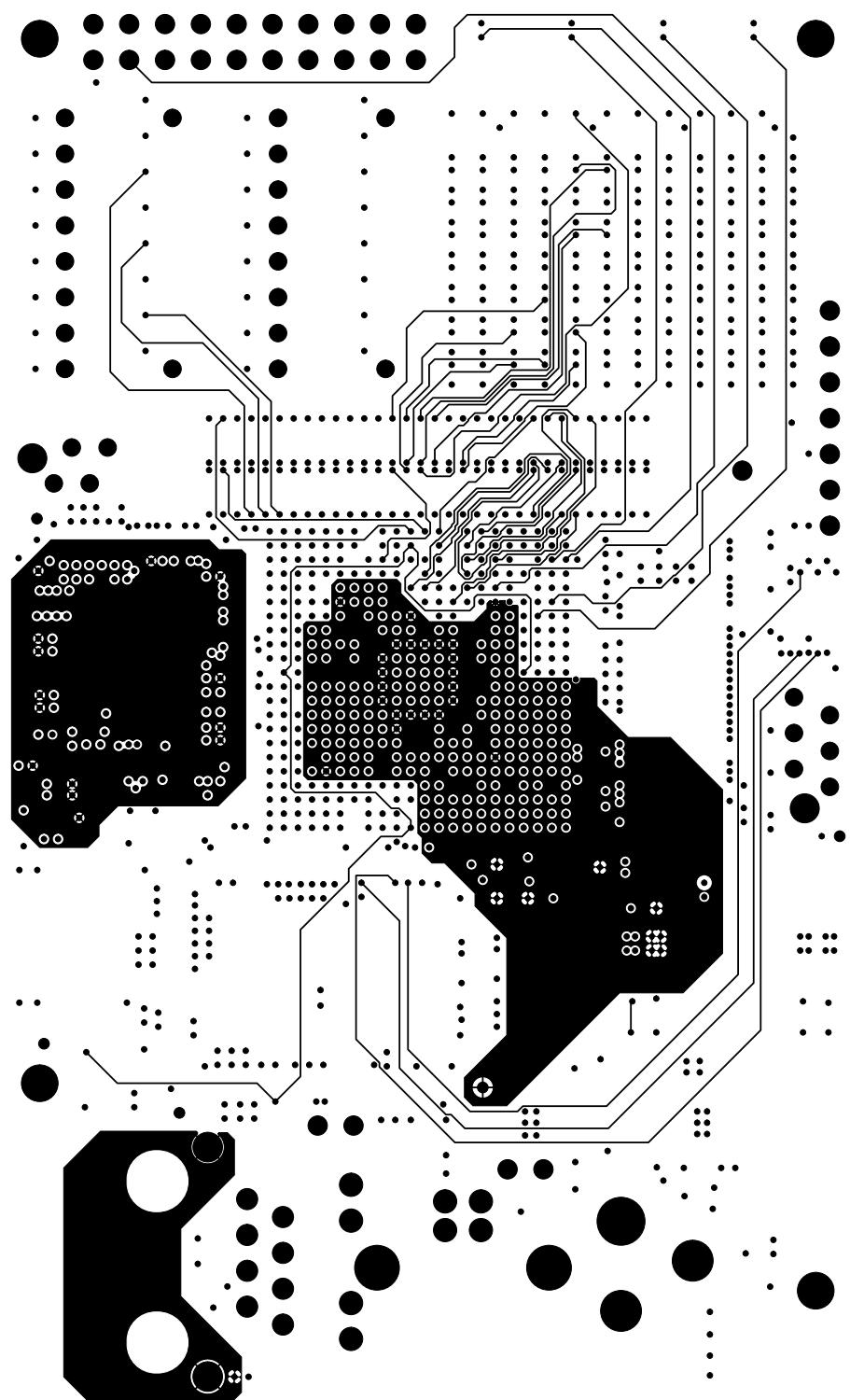
EPFL ACORT Fri Jul 6 11:12:04 2007 Project = fpga4u_c File = fpga4u_gloss,ptop Scale = 2 0.5 cm = _____

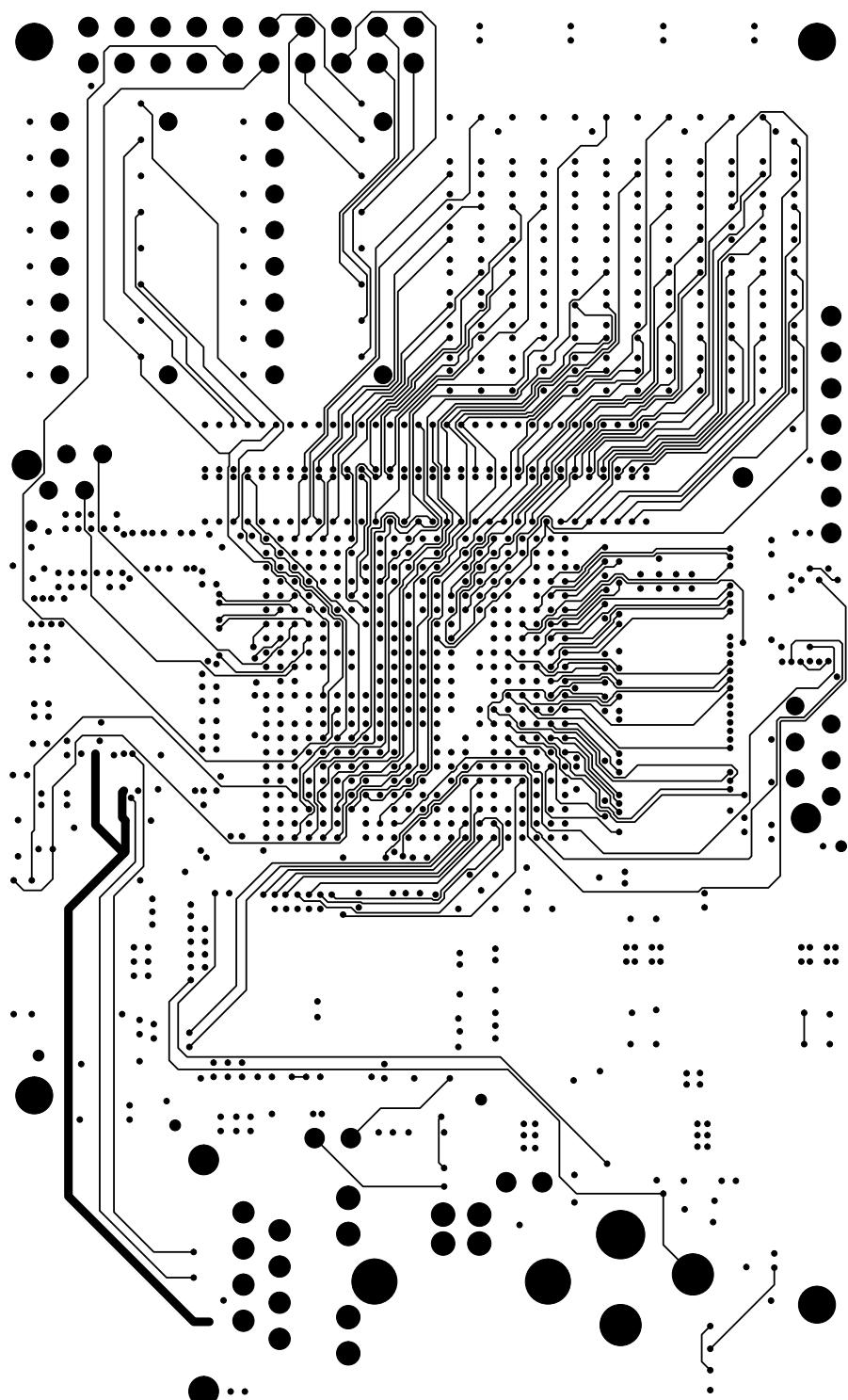


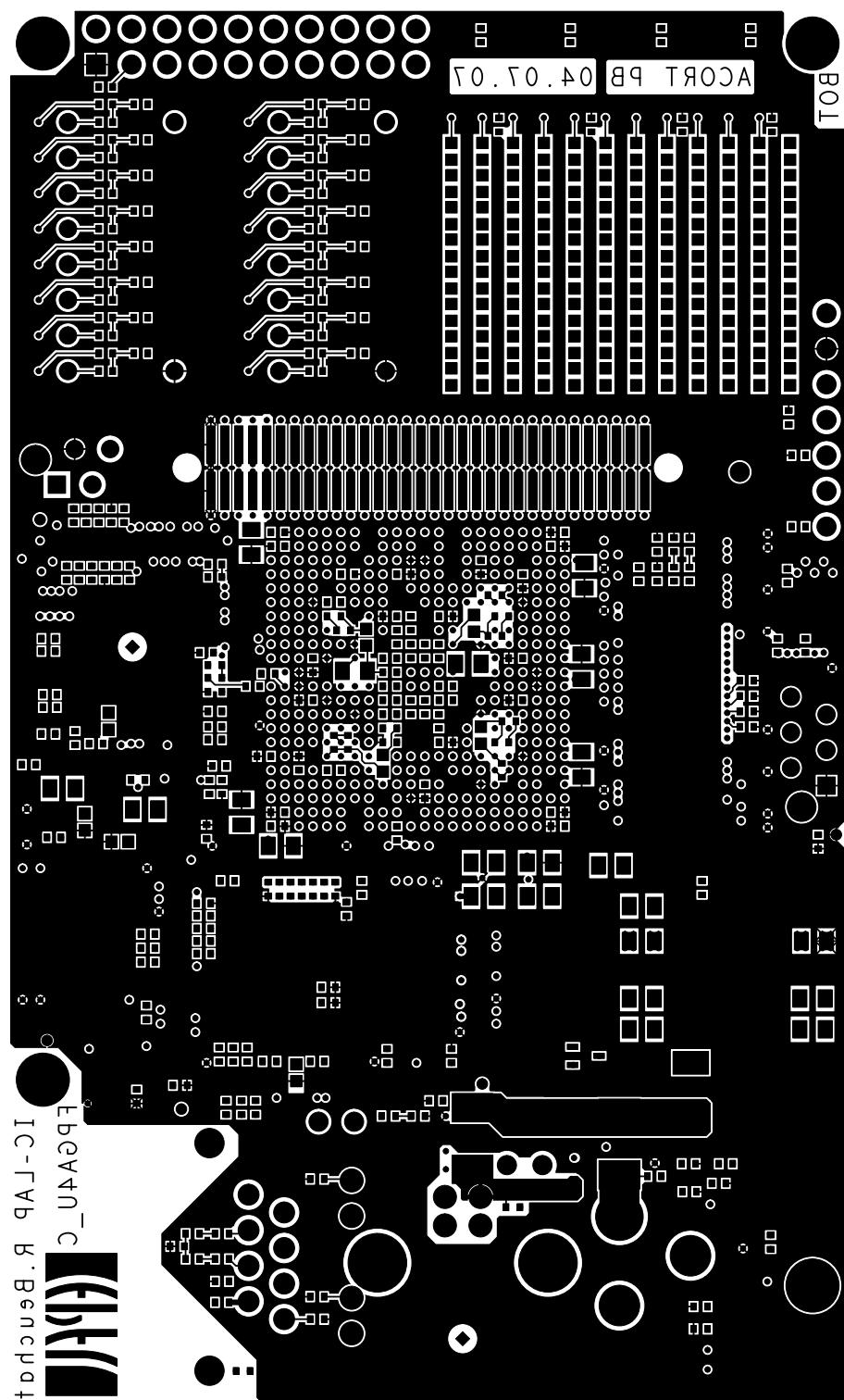


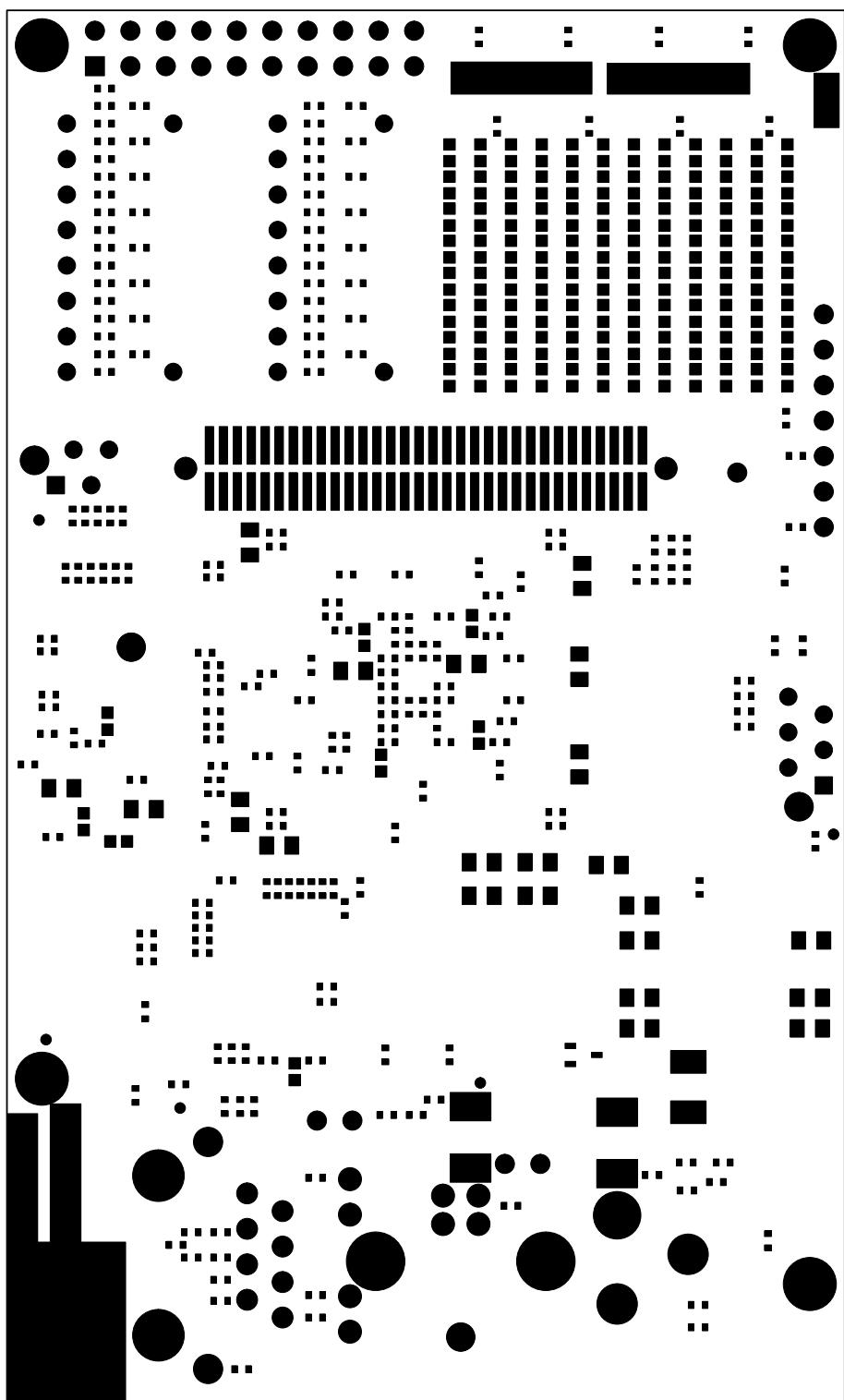


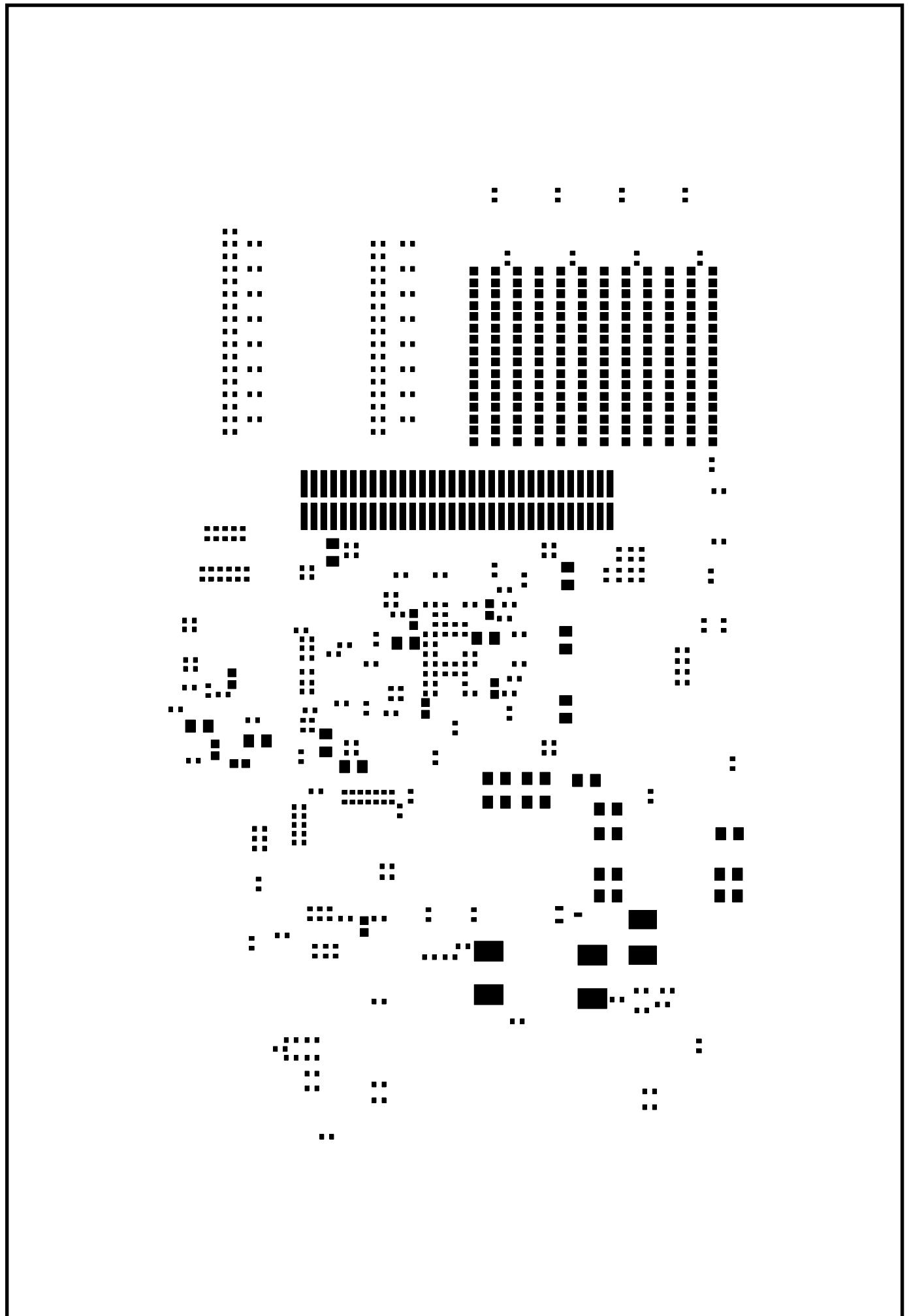


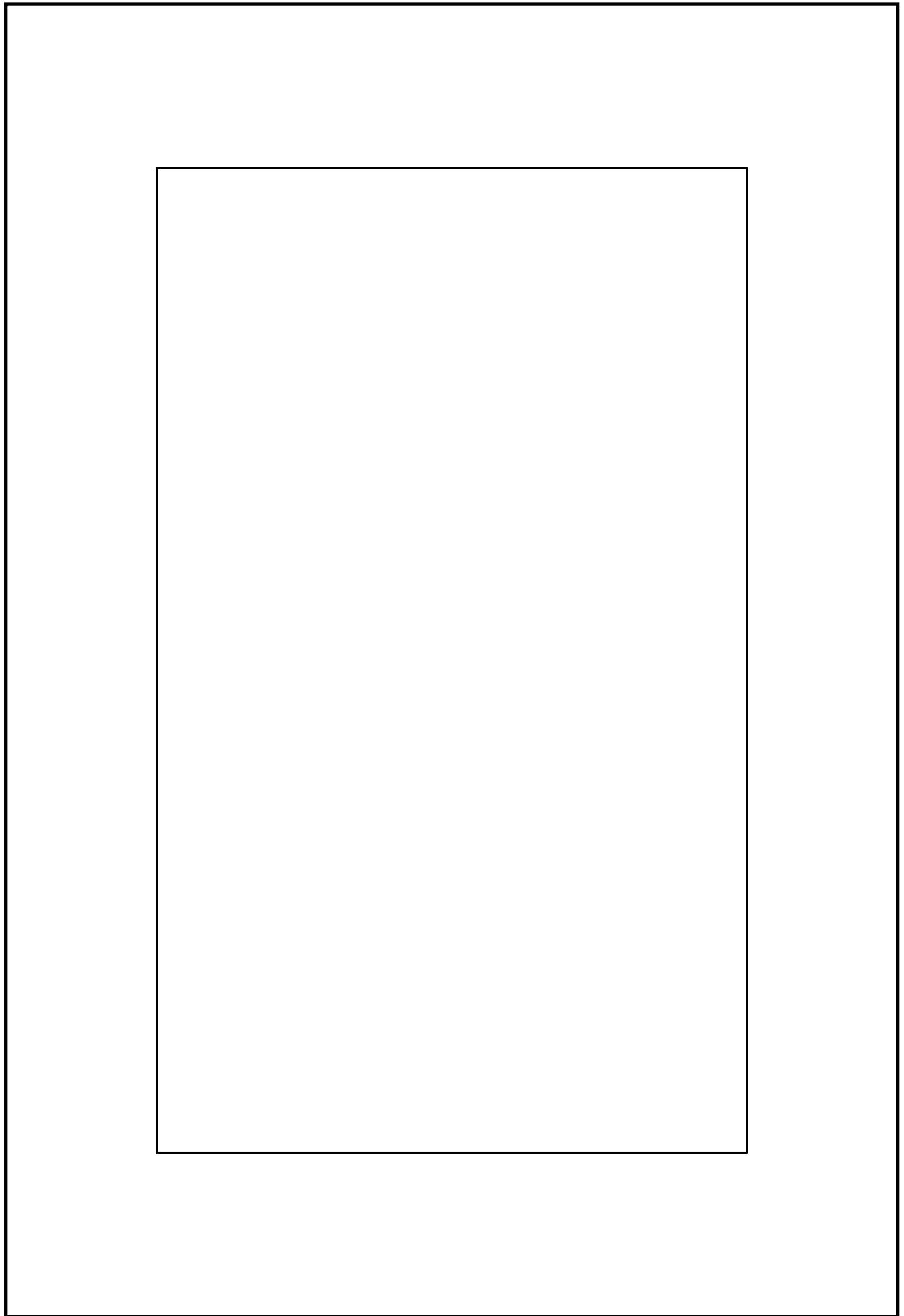












Component Report FPGA4U_C

fpga4u_gloss

Fri Jul 6 11:12:31 MET DST 2007

Ref Des	Device Type	Value	Package Type	x	y	ang	Mir	Remark
C1	0805	10U	0805_G	46.000	19.000	270.000	YES	
C2	0402	100N	0402	59.600	35.700	0.000	YES	
C3	0402	10N	0402	11.600	47.900	180.000	YES	
C4	0402	100N	0402	42.600	40.700	180.000	YES	
C5	0402	100N	0402	41.600	40.700	0.000	YES	
C6	0402	1N	0402	55.000	57.100	180.000	YES	
C7	0805	10U	0805_G	44.300	56.100	180.000	YES	
C8	0402	100N	0402	54.100	57.100	180.000	YES	
C9	0402	1N	0402	51.000	57.000	180.000	YES	
C10	0402	100N	0402	50.100	57.000	180.000	YES	
C11	0402	1N	0402	47.800	45.200	0.000	YES	
C12	0402	100N	0402	48.700	45.200	0.000	YES	
C13	0402	1N	0402	52.200	45.200	0.000	YES	
C14	0402	100N	0402	53.100	45.200	0.000	YES	
C15	0402	100N	0402	46.100	39.200	90.000	YES	
C16	0402	1N	0402	59.400	45.200	0.000	YES	
C17	0402	100N	0402	60.300	45.200	0.000	YES	
C18	0805	10U	0805_G	42.800	50.200	0.000	YES	
C19	0402	100N	0402	50.600	38.700	180.000	YES	
C20	0402	1N	0402	44.900	50.700	180.000	YES	
C21	0402	100N	0402	47.500	53.700	0.000	YES	
C22	0402	100N	0402	53.100	38.200	270.000	YES	
C23	0402	100N	0402	54.100	31.200	90.000	YES	
C24	0402	100N	0402	61.600	40.700	180.000	YES	
C25	0402	100N	0402	54.100	29.200	90.000	YES	
C26	0402	100N	0402	62.600	40.700	0.000	YES	
C27	0402	100N	0402	55.100	32.200	270.000	YES	
C28	0402	100N	0402	44.100	30.200	270.000	YES	
C29	0402	100N	0402	50.100	30.200	270.000	YES	
C30	0402	100N	0402	47.600	28.700	0.000	YES	
C31	0402	100N	0402	54.100	30.200	90.000	YES	
C32	0402	100N	0402	47.600	32.700	180.000	YES	
C33	0402	100N	0402	51.600	28.700	0.000	YES	
C34	0402	100N	0402	56.600	28.700	0.000	YES	
C35	0402	100N	0402	50.600	28.700	0.000	YES	
C36	0402	100N	0402	56.600	32.700	180.000	YES	
C37	0402	100N	0402	49.100	29.200	90.000	YES	
C38	0402	100N	0402	59.600	31.700	0.000	YES	
C39	0402	100N	0402	53.600	32.700	180.000	YES	
C40	0805	10U	0805_G	33.400	14.700	0.000	YES	
C41	0402	100N	0402	60.100	26.200	270.000	YES	
C42	0805	10U	0805_G	33.400	2.400	0.000	YES	
C43	0402	100N	0402	56.100	31.200	90.000	YES	
C44	0805	10U	0805_G	53.200	27.100	180.000	YES	
C45	0402	100N	0402	42.600	20.700	0.000	YES	
C46	0805	10U	0805_G	42.600	43.300	90.000	YES	
C47	0402	100N	0402	52.600	32.700	180.000	YES	
C48	0805	10U	0805_G	36.600	22.000	180.000	YES	
C49	0402	100N	0402	41.600	20.700	180.000	YES	
C50	0805	10U	0805_G	61.900	42.600	270.000	YES	
C51	0402	100N	0402	51.600	32.700	180.000	YES	
C52	0805	10U	0805_G	36.600	26.000	0.000	YES	
C53	0402	100N	0402	50.600	23.700	180.000	YES	
C54	0805	10U	0805_G	40.200	40.500	0.000	YES	
C55	0402	100N	0402	50.600	32.700	180.000	YES	
C56	0805	10U	0805_G	35.900	14.700	0.000	YES	
C57	0402	100N	0402	53.600	23.700	180.000	YES	
C58	0805	10U	0805_G	39.000	22.000	0.000	YES	

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Ref Des	Device Type	Value	Package Type	x	y	ang	Mir	Remark
C59	0402	100N	0402	49.600	32.700	0.000	YES	
C60	0805	10U	0805_G	38.800	16.900	180.000	YES	
C61	0402	100N	0402	59.100	23.200	270.000	YES	
C62	0805	10U	0805_G	59.500	18.800	270.000	YES	
C63	0402	100N	0402	50.100	31.200	270.000	YES	
C64	0805	10U	0805_G	39.000	26.000	0.000	YES	
C65	0402	100N	0402	62.600	20.700	180.000	YES	
C66	0805	10U	0805_G	53.000	19.000	90.000	YES	
C67	0402	100N	0402	48.600	32.700	0.000	YES	
C68	0805	10U	0805_G	52.700	35.200	0.000	YES	
C69	0402	100N	0402	61.600	20.700	0.000	YES	
C70	0402	100N	0402	45.600	36.700	180.000	YES	
C71	0402	100N	0402	45.600	24.700	90.000	YES	
C72	0402	100N	0402	55.600	36.000	0.000	YES	
C73	0402	1N	0402	56.600	36.700	0.000	YES	
C74	0402	100N	0402	47.600	35.700	270.000	YES	
C75	0402	1N	0402	47.600	36.700	270.000	YES	
C76	0402	100N	0402	29.000	37.100	0.000	YES	
C77	0402	10N	0402	30.100	37.100	0.000	YES	
C78	0402	10N	0402	24.800	41.300	180.000	YES	
C79	0402	100N	0402	24.800	37.900	180.000	YES	
C80	0402	100N	0402	23.100	47.700	0.000	YES	
C81	0402	100N	0402	58.100	25.200	180.000	YES	
C82	0402	100N	0402	55.200	25.200	180.000	YES	
C83	0402	1N	0402	56.600	24.700	180.000	YES	
C84	0402	100N	0402	49.100	24.200	180.000	YES	
C85	0402	1N	0402	47.600	24.700	180.000	YES	
C86	0402	100N	0402	46.000	58.500	0.000	YES	
C87	0402	10N	0402	22.300	50.800	270.000	YES	
C88	0402	100N	0402	57.600	36.700	0.000	YES	
C89	1210	22U	1210	22.900	11.200	270.000	YES	
C90	0402	100N	0402	17.500	8.700	180.000	YES	
C91	0402	100N	0402	11.900	5.500	270.000	YES	
D1	TLMS1000	TLMS1000	SMDLED_0603	3.500	10.000	90.000	NO	
D2	TLMS1000	TLMS1000	SMDLED_0603	74.110	58.500	0.000	NO	
D3	TLMS1000	TLMS1000	SMDLED_0603	74.110	43.500	0.000	NO	
D4	TLMS1000	TLMS1000	SMDLED_0603	76.650	58.500	0.000	NO	
D5	TLMS1000	TLMS1000	SMDLED_0603	76.650	43.500	0.000	NO	
D6	TLMG1100	TLMG1100	SMDLED_0603	98.600	20.500	0.000	NO	
D7	TLMS1000	TLMS1000	SMDLED_0603	79.190	58.500	0.000	NO	
D8	TLMS1000	TLMS1000	SMDLED_0603	79.190	43.500	0.000	NO	
D9	TLMO1000	TLMO1000	SMDLED_0603	98.600	14.000	0.000	NO	
D10	TLMS1000	TLMS1000	SMDLED_0603	81.730	58.500	0.000	NO	
D11	TLMS1000	TLMS1000	SMDLED_0603	81.730	43.500	0.000	NO	
D12	TLMS1000	TLMS1000	SMDLED_0603	84.270	58.500	0.000	NO	
D13	TLMS1000	TLMS1000	SMDLED_0603	84.270	43.500	0.000	NO	
D14	TLMS1000	TLMS1000	SMDLED_0603	98.600	7.600	0.000	NO	
D15	TLMS1000	TLMS1000	SMDLED_0603	86.810	58.500	0.000	NO	
D16	TLMS1000	TLMS1000	SMDLED_0603	86.810	43.500	0.000	NO	
D17	TLMS1000	TLMS1000	SMDLED_0603	89.350	58.500	0.000	NO	
D18	TLMS1000	TLMS1000	SMDLED_0603	89.350	43.500	0.000	NO	
D19	TLMS1000	TLMS1000	SMDLED_0603	91.890	58.500	0.000	NO	
D20	TLMS1000	TLMS1000	SMDLED_0603	91.890	43.500	0.000	NO	
D21	TLMO1000	TLMO1000	SMDLED_0603	15.350	9.800	90.000	NO	
D22	TLMY1000	TLMY1000	SMDLED_0603	98.600	26.900	0.000	NO	
D23	1PS70SB10	1PS70SB10	SC70_3	25.200	18.700	90.000	YES	
D117	SS23	SS23	DO214AA	19.300	26.800	270.000	YES	
D118	TLMG1100	TLMG1100	SMDLED_0603	41.000	2.800	0.000	NO	

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Ref Des	Device Type	Value	Package Type	x	y	ang	Mir	Remark
DA1	TLMS1000	TLMS1000	SMDLED_0603	72.200	4.100	90.000	NO	
DA2	TLMS1000	TLMS1000	SMDLED_0603	72.200	6.300	90.000	NO	
DA3	TLMS1000	TLMS1000	SMDLED_0603	72.200	8.500	90.000	NO	
DA4	TLMS1000	TLMS1000	SMDLED_0603	72.200	10.700	90.000	NO	
DA5	TLMS1000	TLMS1000	SMDLED_0603	72.200	12.900	90.000	NO	
DA6	TLMS1000	TLMS1000	SMDLED_0603	72.200	15.100	90.000	NO	
DA7	TLMS1000	TLMS1000	SMDLED_0603	72.200	17.300	90.000	NO	
DA8	TLMS1000	TLMS1000	SMDLED_0603	72.200	19.500	90.000	NO	
DA9	TLMS1000	TLMS1000	SMDLED_0603	72.200	21.700	90.000	NO	
DA10	TLMS1000	TLMS1000	SMDLED_0603	72.200	23.900	90.000	NO	
DA11	TLMS1000	TLMS1000	SMDLED_0603	72.200	26.100	90.000	NO	
DA12	TLMS1000	TLMS1000	SMDLED_0603	72.200	28.300	90.000	NO	
DB1	TLMO1000	TLMO1000	SMDLED_0603	74.500	4.100	90.000	NO	
DB2	TLMO1000	TLMO1000	SMDLED_0603	74.500	6.300	90.000	NO	
DB3	TLMO1000	TLMO1000	SMDLED_0603	74.500	8.500	90.000	NO	
DB4	TLMO1000	TLMO1000	SMDLED_0603	74.500	10.700	90.000	NO	
DB5	TLMO1000	TLMO1000	SMDLED_0603	74.500	12.900	90.000	NO	
DB6	TLMO1000	TLMO1000	SMDLED_0603	74.500	15.100	90.000	NO	
DB7	TLMO1000	TLMO1000	SMDLED_0603	74.500	17.300	90.000	NO	
DB8	TLMO1000	TLMO1000	SMDLED_0603	74.500	19.500	90.000	NO	
DB9	TLMO1000	TLMO1000	SMDLED_0603	74.500	21.700	90.000	NO	
DB10	TLMO1000	TLMO1000	SMDLED_0603	74.500	23.900	90.000	NO	
DB11	TLMO1000	TLMO1000	SMDLED_0603	74.500	26.100	90.000	NO	
DB12	TLMO1000	TLMO1000	SMDLED_0603	74.500	28.300	90.000	NO	
DC1	TLMG1100	TLMG1100	SMDLED_0603	76.800	4.100	90.000	NO	
DC2	TLMG1100	TLMG1100	SMDLED_0603	76.800	6.300	90.000	NO	
DC3	TLMG1100	TLMG1100	SMDLED_0603	76.800	8.500	90.000	NO	
DC4	TLMG1100	TLMG1100	SMDLED_0603	76.800	10.700	90.000	NO	
DC5	TLMG1100	TLMG1100	SMDLED_0603	76.800	12.900	90.000	NO	
DC6	TLMG1100	TLMG1100	SMDLED_0603	76.800	15.100	90.000	NO	
DC7	TLMG1100	TLMG1100	SMDLED_0603	76.800	17.300	90.000	NO	
DC8	TLMG1100	TLMG1100	SMDLED_0603	76.800	19.500	90.000	NO	
DC9	TLMG1100	TLMG1100	SMDLED_0603	76.800	21.700	90.000	NO	
DC10	TLMG1100	TLMG1100	SMDLED_0603	76.800	23.900	90.000	NO	
DC11	TLMG1100	TLMG1100	SMDLED_0603	76.800	26.100	90.000	NO	
DC12	TLMG1100	TLMG1100	SMDLED_0603	76.800	28.300	90.000	NO	
DD1	TLMY1000	TLMY1000	SMDLED_0603	79.100	4.100	90.000	NO	
DD2	TLMY1000	TLMY1000	SMDLED_0603	79.100	6.300	90.000	NO	
DD3	TLMY1000	TLMY1000	SMDLED_0603	79.100	8.500	90.000	NO	
DD4	TLMY1000	TLMY1000	SMDLED_0603	79.100	10.700	90.000	NO	
DD5	TLMY1000	TLMY1000	SMDLED_0603	79.100	12.900	90.000	NO	
DD6	TLMY1000	TLMY1000	SMDLED_0603	79.100	15.100	90.000	NO	
DD7	TLMY1000	TLMY1000	SMDLED_0603	79.100	17.300	90.000	NO	
DD8	TLMY1000	TLMY1000	SMDLED_0603	79.100	19.500	90.000	NO	
DD9	TLMY1000	TLMY1000	SMDLED_0603	79.100	21.700	90.000	NO	
DD10	TLMY1000	TLMY1000	SMDLED_0603	79.100	23.900	90.000	NO	
DD11	TLMY1000	TLMY1000	SMDLED_0603	79.100	26.100	90.000	NO	
DD12	TLMY1000	TLMY1000	SMDLED_0603	79.100	28.300	90.000	NO	
DE1	TLMY1000	TLMY1000	SMDLED_0603	81.400	4.100	90.000	NO	
DE2	TLMY1000	TLMY1000	SMDLED_0603	81.400	6.300	90.000	NO	
DE3	TLMY1000	TLMY1000	SMDLED_0603	81.400	8.500	90.000	NO	
DE4	TLMY1000	TLMY1000	SMDLED_0603	81.400	10.700	90.000	NO	
DE5	TLMY1000	TLMY1000	SMDLED_0603	81.400	12.900	90.000	NO	
DE6	TLMY1000	TLMY1000	SMDLED_0603	81.400	15.100	90.000	NO	
DE7	TLMY1000	TLMY1000	SMDLED_0603	81.400	17.300	90.000	NO	
DE8	TLMY1000	TLMY1000	SMDLED_0603	81.400	19.500	90.000	NO	
DE9	TLMY1000	TLMY1000	SMDLED_0603	81.400	21.700	90.000	NO	
DE10	TLMY1000	TLMY1000	SMDLED_0603	81.400	23.900	90.000	NO	

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Ref Des	Device Type	Value	Package Type	x	y	ang	Mir	Remark
DE11	TLMY1000	TLMY1000	SMDLED_0603	81.400	26.100	90.000	NO	
DE12	TLMY1000	TLMY1000	SMDLED_0603	81.400	28.300	90.000	NO	
DF1	TLMY1000	TLMY1000	SMDLED_0603	83.700	4.100	90.000	NO	
DF2	TLMY1000	TLMY1000	SMDLED_0603	83.700	6.300	90.000	NO	
DF3	TLMY1000	TLMY1000	SMDLED_0603	83.700	8.500	90.000	NO	
DF4	TLMY1000	TLMY1000	SMDLED_0603	83.700	10.700	90.000	NO	
DF5	TLMY1000	TLMY1000	SMDLED_0603	83.700	12.900	90.000	NO	
DF6	TLMY1000	TLMY1000	SMDLED_0603	83.700	15.100	90.000	NO	
DF7	TLMY1000	TLMY1000	SMDLED_0603	83.700	17.300	90.000	NO	
DF8	TLMY1000	TLMY1000	SMDLED_0603	83.700	19.500	90.000	NO	
DF9	TLMY1000	TLMY1000	SMDLED_0603	83.700	21.700	90.000	NO	
DF10	TLMY1000	TLMY1000	SMDLED_0603	83.700	23.900	90.000	NO	
DF11	TLMY1000	TLMY1000	SMDLED_0603	83.700	26.100	90.000	NO	
DF12	TLMY1000	TLMY1000	SMDLED_0603	83.700	28.300	90.000	NO	
DG1	TLMY1000	TLMY1000	SMDLED_0603	86.000	4.100	90.000	NO	
DG2	TLMY1000	TLMY1000	SMDLED_0603	86.000	6.300	90.000	NO	
DG3	TLMY1000	TLMY1000	SMDLED_0603	86.000	8.500	90.000	NO	
DG4	TLMY1000	TLMY1000	SMDLED_0603	86.000	10.700	90.000	NO	
DG5	TLMY1000	TLMY1000	SMDLED_0603	86.000	12.900	90.000	NO	
DG6	TLMY1000	TLMY1000	SMDLED_0603	86.000	15.100	90.000	NO	
DG7	TLMY1000	TLMY1000	SMDLED_0603	86.000	17.300	90.000	NO	
DG8	TLMY1000	TLMY1000	SMDLED_0603	86.000	19.500	90.000	NO	
DG9	TLMY1000	TLMY1000	SMDLED_0603	86.000	21.700	90.000	NO	
DG10	TLMY1000	TLMY1000	SMDLED_0603	86.000	23.900	90.000	NO	
DG11	TLMY1000	TLMY1000	SMDLED_0603	86.000	26.100	90.000	NO	
DG12	TLMY1000	TLMY1000	SMDLED_0603	86.000	28.300	90.000	NO	
DH1	TLMY1000	TLMY1000	SMDLED_0603	88.300	4.100	90.000	NO	
DH2	TLMY1000	TLMY1000	SMDLED_0603	88.300	6.300	90.000	NO	
DH3	TLMY1000	TLMY1000	SMDLED_0603	88.300	8.500	90.000	NO	
DH4	TLMY1000	TLMY1000	SMDLED_0603	88.300	10.700	90.000	NO	
DH5	TLMY1000	TLMY1000	SMDLED_0603	88.300	12.900	90.000	NO	
DH6	TLMY1000	TLMY1000	SMDLED_0603	88.300	15.100	90.000	NO	
DH7	TLMY1000	TLMY1000	SMDLED_0603	88.300	17.300	90.000	NO	
DH8	TLMY1000	TLMY1000	SMDLED_0603	88.300	19.500	90.000	NO	
DH9	TLMY1000	TLMY1000	SMDLED_0603	88.300	21.700	90.000	NO	
DH10	TLMY1000	TLMY1000	SMDLED_0603	88.300	23.900	90.000	NO	
DH11	TLMY1000	TLMY1000	SMDLED_0603	88.300	26.100	90.000	NO	
DH12	TLMY1000	TLMY1000	SMDLED_0603	88.300	28.300	90.000	NO	
J1	CO3		JACK3	9.910	16.300	90.000	NO	
J2	CO7		JUMP7	63.000	1.500	0.000	NO	
J3	CO16		PULSE_RJ45	6.400	42.800	0.000	NO	
J4	CO6		USB4B	15.000	27.500	270.000	NO	
J5	CO20		CPMC20	96.000	53.700	270.000	NO	
J6	CO64		MO64FSMD_1MM	67.200	30.000	270.000	NO	
J7	CO64		MO64MSMD_1MM	67.200	30.000	90.000	YES	
J8	CO4		MM4	66.000	56.500	270.000	NO	
J9	CO6		MM6	44.500	1.500	0.000	NO	
L1	BEAD	MLB-160808-0300P N 603_G		55.100	34.400	90.000	YES	
L2	BEAD	MLB-160808-0300P N 603_G		41.900	54.500	90.000	YES	
L3	BEAD	MLB-160808-0300P N 603_G		40.500	52.000	0.000	YES	
L4	BEAD	MLB-160808-0300P N 603_G		46.100	33.200	270.000	YES	
L5	BEAD	MLB-160808-0300P N 603_G		24.000	39.400	270.000	YES	
L6	BEAD	MLB-160808-0300P N 603_G		56.100	26.700	270.000	YES	
L7	BEAD	MLB-160808-0300P N 603_G		48.100	26.200	90.000	YES	
R1	R	10K	0402	91.700	24.900	90.000	YES	
R2	R	330	0402	75.380	50.500	180.000	YES	
R3	R	1K	0402	74.110	53.000	0.000	YES	
R4	R	330	0402	75.380	35.000	180.000	YES	

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Ref Des	Device Type	Value	Package Type	x	y	ang	Mir	Remark
R5	R	1K	0402	74.110	38.000	0.000	YES	
R6	R	330	0402	75.380	53.000	0.000	YES	
R7	R	330	0402	75.380	38.000	0.000	YES	
R8	R	330	0402	77.920	50.500	180.000	YES	
R9	R	1K	0402	76.650	53.000	0.000	YES	
R10	R	330	0402	77.920	35.000	180.000	YES	
R11	R	1K	0402	76.650	38.000	0.000	YES	
R12	R	330	0402	77.920	53.000	0.000	YES	
R13	R	330	0402	77.920	38.000	0.000	YES	
R14	R	10K	0402	91.700	18.300	90.000	YES	
R15	R	330	0402	80.460	50.500	180.000	YES	
R16	R	1K	0402	79.190	53.000	0.000	YES	
R17	R	330	0402	80.460	35.000	180.000	YES	
R18	R	1K	0402	79.190	38.000	0.000	YES	
R19	R	330	0402	80.460	53.000	0.000	YES	
R20	R	330	0402	80.460	38.000	0.000	YES	
R21	R	330	0402	83.000	50.500	180.000	YES	
R22	R	1K	0402	81.730	53.000	0.000	YES	
R23	R	330	0402	83.000	35.000	180.000	YES	
R24	R	1K	0402	81.730	38.000	0.000	YES	
R25	R	10K	0402	91.700	11.800	90.000	YES	
R26	R	330	0402	83.000	53.000	0.000	YES	
R27	R	330	0402	83.000	38.000	0.000	YES	
R28	R	330	0402	85.540	50.500	180.000	YES	
R29	R	1K	0402	84.270	53.000	0.000	YES	
R30	R	330	0402	85.540	35.000	180.000	YES	
R31	R	1K	0402	84.270	38.000	0.000	YES	
R32	R	330	0402	85.540	53.000	0.000	YES	
R33	R	330	0402	47.900	55.200	270.000	YES	
R34	R	330	0402	85.540	38.000	0.000	YES	
R35	R	10K	0402	91.700	5.400	90.000	YES	
R36	R	330	0402	88.080	50.500	180.000	YES	
R37	R	1K	0402	86.810	53.000	0.000	YES	
R38	R	330	0402	88.080	35.000	180.000	YES	
R39	R	1K	0402	86.810	38.000	0.000	YES	
R40	R	330	0402	88.080	53.000	0.000	YES	
R41	R	330	0402	88.080	38.000	0.000	YES	
R42	R	330	0402	90.620	50.500	180.000	YES	
R43	R	1K	0402	89.350	53.000	0.000	YES	
R44	R	330	0402	90.620	35.000	180.000	YES	
R45	R	1K	0402	89.350	38.000	0.000	YES	
R46	R	330	0402	90.620	53.000	0.000	YES	
R47	R	330	0402	90.620	38.000	0.000	YES	
R48	R	330	0402	93.160	50.500	180.000	YES	
R49	R	1K	0402	91.890	53.000	0.000	YES	
R50	R	11K	0603_G	49.100	52.800	270.000	YES	
R51	R	22	0402	12.500	46.800	180.000	YES	
R52	R	22	0402	10.700	46.800	180.000	YES	
R53	R	47	0402	9.100	44.700	180.000	YES	
R54	R	220	0402	16.400	37.900	180.000	YES	
R55	R	47	0402	6.400	37.900	0.000	YES	
R56	R	220	0402	8.000	37.900	180.000	YES	
R57	R	22	0402	10.700	44.700	0.000	YES	
R58	R	22	0402	12.500	44.700	0.000	YES	
R59	R	10	0402	2.700	43.200	180.000	YES	
R60	R	0	0402	7.600	44.700	0.000	YES	
R61	R	330	0402	93.160	35.000	180.000	YES	
R62	R	1K	0402	91.890	38.000	0.000	YES	

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Ref Des	Device Type	Value	Package Type	x	y	ang	Mir	Remark
R63	R	330	0402	93.160	53.000	0.000	YES	
R64	R	330	0402	93.160	38.000	0.000	YES	
R65	R	1K	0402	98.100	26.200	270.000	YES	
R66	R	10K	0402	37.200	34.700	90.000	YES	
R67	R	10K	0402	44.400	45.600	90.000	YES	
R68	R	560	0402	98.100	19.800	270.000	YES	
R69	R	1K	0402	98.100	13.300	270.000	YES	
R70	R	10K	0402	51.600	42.500	0.000	YES	
R71	R	1K	0402	98.100	6.900	270.000	YES	
R72	R	10K	0402	46.600	41.700	180.000	YES	
R73	R	10K	0402	45.900	44.900	180.000	YES	
R74	R	10K	0402	44.400	44.700	270.000	YES	
R75	R	39	0402	59.600	14.900	270.000	YES	
R76	R	10K	0402	52.500	41.400	0.000	YES	
R77	R	10K	0402	94.400	53.000	0.000	YES	
R78	R	10K	0402	37.200	10.400	90.000	YES	
R79	R	10K	0402	50.900	7.200	0.000	YES	
R80	R	10K	0402	49.800	7.200	0.000	YES	
R81	R	10K	0402	48.700	7.200	0.000	YES	
R82	R	10K	0402	52.000	7.200	0.000	YES	
R83	R	2.2K	0402	48.200	57.100	180.000	YES	
R161	R	10K	0402	16.600	13.800	180.000	YES	
R162	R	2.7K	0805_G	27.100	14.700	180.000	YES	
R163	R	2.7K	0805_G	29.300	2.500	0.000	YES	
R164	R	820	0402	40.500	2.100	270.000	YES	
R165	R	10K	0402	40.800	56.700	0.000	YES	
R166	R	10K	0402	28.300	50.100	90.000	YES	
R167	R	1K	0402	41.100	32.200	90.000	YES	
R168	R	10K	0402	15.500	11.300	0.000	YES	
R169	R	1K	0402	63.000	3.500	0.000	YES	
R170	R	1K	0402	70.800	4.200	90.000	YES	
R171	R	1K	0402	68.100	3.500	180.000	YES	
R172	R	1K	0402	20.900	32.800	0.000	YES	
R173	R	1K	0402	20.900	30.700	0.000	YES	
R174	R	4.7K	0402	25.200	28.300	90.000	YES	
R175	R	4.7K	0402	22.000	29.400	180.000	YES	
R176	R	10K	0402	25.200	32.900	270.000	YES	
R177	R	10K	0402	36.100	46.000	0.000	YES	
R178	R	10K	0402	41.200	45.800	270.000	YES	
R179	R	10K	0402	37.100	41.400	270.000	YES	
R180	R	10K	0402	21.500	42.300	90.000	YES	
R181	R	10K	0402	37.100	36.600	270.000	YES	
R182	R	10K	0402	37.100	38.200	90.000	YES	
R183	R	10K	0402	35.200	46.000	0.000	YES	
R184	R	10K	0402	34.300	46.000	0.000	YES	
R185	R	10K	0402	33.900	50.000	180.000	YES	
R186	R	10K	0402	33.400	46.000	0.000	YES	
R187	R	10K	0402	32.900	50.000	180.000	YES	
R188	R	10K	0402	32.500	46.000	0.000	YES	
R189	R	10K	0402	31.900	50.000	180.000	YES	
R190	R	10K	0402	25.300	42.900	270.000	YES	
R191	R	10K	0402	35.700	35.800	270.000	YES	
R192	R	10K	0402	37.100	40.600	90.000	YES	
R193	R	10K	0402	21.500	43.300	90.000	YES	
R194	R	10K	0402	37.100	39.800	90.000	YES	
R195	R	10K	0402	25.300	43.900	270.000	YES	
R196	R	10K	0402	37.100	39.000	90.000	YES	
R197	R	10K	0402	21.500	44.400	90.000	YES	

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Ref Des	Device Type	Value	Package Type	x	y	ang	Mir	Remark
R198	R	10K	0402	37.100	37.400	90.000	YES	
R199	R	10K	0402	25.300	44.900	270.000	YES	
R200	R	47	0402	54.500	3.000	90.000	YES	
R201	R	47	0402	54.500	5.000	90.000	YES	
R202	R	47	0402	59.500	4.300	270.000	YES	
R203	R	10K	0402	61.700	11.300	90.000	YES	
R204	R	1K	0402	59.600	11.300	90.000	YES	
R205	R	10K	0402	61.700	12.400	90.000	YES	
R206	R	1K	0402	59.600	12.400	90.000	YES	
R207	R	10K	0402	61.700	13.600	90.000	YES	
R208	R	10K	0402	59.600	13.600	90.000	YES	
R209	R	10K	0402	49.800	45.200	180.000	YES	
R210	R	10K	0402	59.700	51.300	90.000	YES	
R211	R	10K	0402	63.800	51.700	270.000	YES	
R212	R	10K	0402	59.700	52.200	90.000	YES	
R213	R	10K	0402	63.800	52.600	270.000	YES	
R214	R	10K	0402	59.700	53.100	90.000	YES	
R215	R	10K	0402	63.800	53.500	270.000	YES	
R216	R	10K	0402	59.700	54.000	90.000	YES	
R217	R	10K	0402	63.800	54.400	270.000	YES	
R218	R	10K	0402	59.700	54.900	90.000	YES	
R219	R	10K	0402	63.800	55.300	270.000	YES	
R220	R	10K	0402	59.700	55.800	90.000	YES	
R221	R	10K	0402	54.000	45.800	0.000	YES	
R222	R	10K	0402	51.200	45.200	0.000	YES	
R227	R	10K	0402	37.700	44.300	180.000	YES	
R228	R	470	0402	14.400	23.900	180.000	YES	
R230	R	10K	0402	17.500	11.350	0.000	YES	
R231	R	10K	0402	5.700	10.500	180.000	YES	
R232	R	820	0402	7.300	10.500	180.000	YES	
R233	R	820	0402	16.100	9.200	0.000	YES	
R162A	R	39K	0805_G	29.300	14.700	0.000	YES	
R163A	R	430	0805_G	27.100	2.500	180.000	YES	
RA1	R	1K	0603_G	73.700	4.100	90.000	YES	
RA2	R	1K	0603_G	73.700	6.300	90.000	YES	
RA3	R	1K	0603_G	73.700	8.500	90.000	YES	
RA4	R	1K	0603_G	73.700	10.700	90.000	YES	
RA5	R	1K	0603_G	73.700	12.900	90.000	YES	
RA6	R	1K	0603_G	73.700	15.100	90.000	YES	
RA7	R	1K	0603_G	73.700	17.300	90.000	YES	
RA8	R	1K	0603_G	73.700	19.500	90.000	YES	
RA9	R	1K	0603_G	73.700	21.700	90.000	YES	
RA10	R	1K	0603_G	73.700	23.900	90.000	YES	
RA11	R	1K	0603_G	73.700	26.100	90.000	YES	
RA12	R	1K	0603_G	73.700	28.300	90.000	YES	
RB1	R	1K	0603_G	76.000	4.100	90.000	YES	
RB2	R	1K	0603_G	76.000	6.300	90.000	YES	
RB3	R	1K	0603_G	76.000	8.500	90.000	YES	
RB4	R	1K	0603_G	76.000	10.700	90.000	YES	
RB5	R	1K	0603_G	76.000	12.900	90.000	YES	
RB6	R	1K	0603_G	76.000	15.100	90.000	YES	
RB7	R	1K	0603_G	76.000	17.300	90.000	YES	
RB8	R	1K	0603_G	76.000	19.500	90.000	YES	
RB9	R	1K	0603_G	76.000	21.700	90.000	YES	
RB10	R	1K	0603_G	76.000	23.900	90.000	YES	
RB11	R	1K	0603_G	76.000	26.100	90.000	YES	
RB12	R	1K	0603_G	76.000	28.300	90.000	YES	
RC1	R	560	0603_G	78.300	4.100	90.000	YES	

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RC2	R	560	0603_G	78.300	6.300	90.000	YES	
RC3	R	560	0603_G	78.300	8.500	90.000	YES	
RC4	R	560	0603_G	78.300	10.700	90.000	YES	
RC5	R	560	0603_G	78.300	12.900	90.000	YES	
RC6	R	560	0603_G	78.300	15.100	90.000	YES	
RC7	R	560	0603_G	78.300	17.300	90.000	YES	
RC8	R	560	0603_G	78.300	19.500	90.000	YES	
RC9	R	560	0603_G	78.300	21.700	90.000	YES	
RC10	R	560	0603_G	78.300	23.900	90.000	YES	
RC11	R	560	0603_G	78.300	26.100	90.000	YES	
RC12	R	560	0603_G	78.300	28.300	90.000	YES	
RD1	R	1K	0603_G	80.600	4.100	90.000	YES	
RD2	R	1K	0603_G	80.600	6.300	90.000	YES	
RD3	R	1K	0603_G	80.600	8.500	90.000	YES	
RD4	R	1K	0603_G	80.600	10.700	90.000	YES	
RD5	R	1K	0603_G	80.600	12.900	90.000	YES	
RD6	R	1K	0603_G	80.600	15.100	90.000	YES	
RD7	R	1K	0603_G	80.600	17.300	90.000	YES	
RD8	R	1K	0603_G	80.600	19.500	90.000	YES	
RD9	R	1K	0603_G	80.600	21.700	90.000	YES	
RD10	R	1K	0603_G	80.600	23.900	90.000	YES	
RD11	R	1K	0603_G	80.600	26.100	90.000	YES	
RD12	R	1K	0603_G	80.600	28.300	90.000	YES	
RE1	R	1K	0603_G	82.900	4.100	90.000	YES	
RE2	R	1K	0603_G	82.900	6.300	90.000	YES	
RE3	R	1K	0603_G	82.900	8.500	90.000	YES	
RE4	R	1K	0603_G	82.900	10.700	90.000	YES	
RE5	R	1K	0603_G	82.900	12.900	90.000	YES	
RE6	R	1K	0603_G	82.900	15.100	90.000	YES	
RE7	R	1K	0603_G	82.900	17.300	90.000	YES	
RE8	R	1K	0603_G	82.900	19.500	90.000	YES	
RE9	R	1K	0603_G	82.900	21.700	90.000	YES	
RE10	R	1K	0603_G	82.900	23.900	90.000	YES	
RE11	R	1K	0603_G	82.900	26.100	90.000	YES	
RE12	R	1K	0603_G	82.900	28.300	90.000	YES	
RF1	R	1K	0603_G	85.200	4.100	90.000	YES	
RF2	R	1K	0603_G	85.200	6.300	90.000	YES	
RF3	R	1K	0603_G	85.200	8.500	90.000	YES	
RF4	R	1K	0603_G	85.200	10.700	90.000	YES	
RF5	R	1K	0603_G	85.200	12.900	90.000	YES	
RF6	R	1K	0603_G	85.200	15.100	90.000	YES	
RF7	R	1K	0603_G	85.200	17.300	90.000	YES	
RF8	R	1K	0603_G	85.200	19.500	90.000	YES	
RF9	R	1K	0603_G	85.200	21.700	90.000	YES	
RF10	R	1K	0603_G	85.200	23.900	90.000	YES	
RF11	R	1K	0603_G	85.200	26.100	90.000	YES	
RF12	R	1K	0603_G	85.200	28.300	90.000	YES	
RG1	R	1K	0603_G	87.500	4.100	90.000	YES	
RG2	R	1K	0603_G	87.500	6.300	90.000	YES	
RG3	R	1K	0603_G	87.500	8.500	90.000	YES	
RG4	R	1K	0603_G	87.500	10.700	90.000	YES	
RG5	R	1K	0603_G	87.500	12.900	90.000	YES	
RG6	R	1K	0603_G	87.500	15.100	90.000	YES	
RG7	R	1K	0603_G	87.500	17.300	90.000	YES	
RG8	R	1K	0603_G	87.500	19.500	90.000	YES	
RG9	R	1K	0603_G	87.500	21.700	90.000	YES	
RG10	R	1K	0603_G	87.500	23.900	90.000	YES	
RG11	R	1K	0603_G	87.500	26.100	90.000	YES	

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Ref Des	Device Type	Value	Package Type	x	y	ang	Mir	Remark
RG12	R	1K	0603_G	87.500	28.300	90.000	YES	
RH1	R	1K	0603_G	89.800	4.100	90.000	YES	
RH2	R	1K	0603_G	89.800	6.300	90.000	YES	
RH3	R	1K	0603_G	89.800	8.500	90.000	YES	
RH4	R	1K	0603_G	89.800	10.700	90.000	YES	
RH5	R	1K	0603_G	89.800	12.900	90.000	YES	
RH6	R	1K	0603_G	89.800	15.100	90.000	YES	
RH7	R	1K	0603_G	89.800	17.300	90.000	YES	
RH8	R	1K	0603_G	89.800	19.500	90.000	YES	
RH9	R	1K	0603_G	89.800	21.700	90.000	YES	
RH10	R	1K	0603_G	89.800	23.900	90.000	YES	
RH11	R	1K	0603_G	89.800	26.100	90.000	YES	
RH12	R	1K	0603_G	89.800	28.300	90.000	YES	
SMD1	SMD_TARGET_RHOMBUS_1		SMD_TARGET_RHOMBUS_10033.900	55.400	0.000	NO		
SMD2	SMD_TARGET_RHOMBUS_1		SMD_TARGET_RHOMBUS_10022.500	6.300	0.000	NO		
SMD3	SMD_TARGET_RHOMBUS_1		SMD_TARGET_RHOMBUS_10054.400	51.100	0.000	YES		
SMD4	SMD_TARGET_RHOMBUS_1		SMD_TARGET_RHOMBUS_100_3.000	27.500	0.000	YES		
SW1	KAT1108E		KAT1108E	83.000	51.900	90.000	NO	
SW2	KAT1108E		KAT1108E	83.000	36.800	90.000	NO	
SW3	SWPOU		POUSMD_6MM_G	94.600	26.900	90.000	NO	
SW4	SWPOU		POUSMD_6MM_G	94.600	20.500	90.000	NO	
SW5	SWPOU		POUSMD_6MM_G	94.600	14.000	90.000	NO	
SW6	SWPOU		POUSMD_6MM_G	94.600	7.600	90.000	NO	
SW7	SWPOU		POUSMD_6MM_G	3.500	5.500	0.000	NO	
SW8	SWPOU		POUSMD_6MM_G	15.350	5.500	0.000	NO	
TP1	TP		TP2812	21.400	47.600	0.000	YES	
TP2	TP		TP2812	63.500	57.700	0.000	YES	
TP3	TP		TP5435	66.900	7.700	0.000	NO	
TP4	TP		TP2812	23.200	26.100	0.000	NO	
TP5	TP		TP2812	41.000	0.800	0.000	NO	
TP6	TP		TP2812	26.300	57.200	0.000	NO	
U1	24LC02B		SO8	19.000	29.200	270.000	NO	
U2	DCDC		DCDC5_NNL05	29.300	18.500	180.000	NO	
U3	LAN91C111		TQFP128_2	54.000	51.000	0.000	NO	
U4	EPCS16		SO16L	33.905	54.500	0.000	NO	
U5	IS42S32800B		TSOP86	52.000	12.500	90.000	NO	
U6	EP2C20		PBGA484_1MM	52.100	30.700	0.000	NO	
U7	DCDC		DCDC5_NNL05	29.300	6.200	180.000	NO	
U8	CY7C68013A		TQFP128	31.200	37.100	0.000	NO	
U9	74HC126PW		TSSOP14	57.000	3.000	180.000	NO	
U10	STM811TW16F		SOT143	16.950	18.400	0.000	NO	
U11	STM811TW16F		SOT143	16.400	12.800	270.000	NO	
U12	STM811TW16F		SOT143	10.300	6.500	270.000	NO	
U13	93C46BSN		SO8	42.200	56.100	90.000	NO	
U14	SS23	SS23	DO214AA	18.900	16.300	270.000	YES	
V1	VIS_METAL		VIS2	23.500	57.500	0.000	NO	
V2	VIS_METAL		VIS2	8.800	2.500	0.000	NO	
V3	VIS_METAL		VIS2	97.500	2.500	0.000	NO	
V4	VIS_METAL		VIS2	97.500	57.500	0.000	NO	
W1	JUMP2		JUMP2	20.500	37.800	180.000	NO	
W2	JUMP2		JUMP2	17.400	21.800	0.000	NO	
XT1	C3391		OSCNMSO_SMD	23.700	52.700	0.000	NO	

Total Component count 516

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Device	Package	Value	Nb	Reference Designators					Remark
0402-100N	0402	100N	58	C2	C4	C5	C8	C10	
				C12	C14	C15	C17	C19	
				C21	C22	C23	C24	C25	
				C26	C27	C28	C29	C30	
				C31	C32	C33	C34	C35	
				C36	C37	C38	C39	C41	
				C43	C45	C47	C49	C51	
				C53	C55	C57	C59	C61	
				C63	C65	C67	C69	C70	
				C71	C72	C74	C76	C79	
				C80	C81	C82	C84	C86	
				C88	C90	C91			
0402-10N	0402	10N	4	C3	C77	C78	C87		
0402-1N	0402	1N	10	C6	C9	C11	C13	C16	
				C20	C73	C75	C83	C85	
0805-1-10U	0805_G	10U	18	C1	C7	C18	C40	C42	
				C44	C46	C48	C50	C52	
				C54	C56	C58	C60	C62	
				C64	C66	C68			
1210-22U	1210	22U	1	C89					
1PS70SB10	SC70_3	1PS70SB10	1	D23					
24LC02B-1-B	SO8		1	U1					
74HC126PW-A	TSSOP14		1	U9					
93C46BSN-ND-A	SO8		1	U13					
BEAD-0604-MLB-160808	0603_G	MLB-160808-0300PNL	1	L2	L3	L4	L5		
				L6	L7				
C3391	OSCNMSO_SMD		1	XT1					
CO16-PULSE-RJ45	PULSE_RJ45		1	J3					
CO20-CPMC20	CPMC20		1	J5					
CO3-JACK3-DC10A	JACK3		1	J1					
CO4-MM4	MM4		1	J8					
CO6-MM6	MM6		1	J9					
CO6-USB4B	USB4B		1	J4					
CO64-MO64FSMD_1MM	MO64FSMD_1MM		1	J6					
CO64-MO64MSMD_1MM	MO64MSMD_1MM		1	J7					
CO7-JUMP7	JUMP7		1	J2					
CY7C68013A-128AXC	TQFP128		1	U8					
DCDC-AKH003A0X-SRZ	DCDC5_NNL05		2	U2	U7				
EP2C20	PBGA484_1MM		1	U6					
EPCS16	SO16L		1	U4					
IS42S32800B-6TL	TSOP86		1	U5					
JUMP2-0	JUMP2		2	W1	W2				
KAT1108E	KAT1108E		2	SW1	SW2				
LAN91C111-NC	TQFP128_2		1	U3					
R-0402-0	0402	0	1	R60					
R-0402-10	0402	10	1	R59					

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Device	Package	Value	Nb	Reference Designators					Remark
R-0402-10K	0402	10K	66	R1	R14	R25	R35	R66	
				R67	R70	R72	R73	R74	
				R76	R77	R78	R79	R80	
				R81	R82	R161	R165	R166	
				R168	R176	R177	R178	R179	
				R180	R181	R182	R183	R184	
				R185	R186	R187	R188	R189	
				R190	R191	R192	R193	R194	
				R195	R196	R197	R198	R199	
				R203	R205	R207	R208	R209	
				R210	R211	R212	R213	R214	
				R215	R216	R217	R218	R219	
				R220	R221	R222	R227	R230	
				R231					
R-0402-1K	0402	1K	27	R3	R5	R9	R11	R16	
				R18	R22	R24	R29	R31	
				R37	R39	R43	R45	R49	
				R62	R65	R69	R71	R167	
				R169	R170	R171	R172	R173	
				R204	R206				
R-0402-2.2K	0402	2.2K	1	R83					
R-0402-22	0402	22	4	R51	R52	R57	R58		
R-0402-220	0402	220	2	R54	R56				
R-0402-330	0402	330	33	R2	R4	R6	R7	R8	
				R10	R12	R13	R15	R17	
				R19	R20	R21	R23	R26	
				R27	R28	R30	R32	R33	
				R34	R36	R38	R40	R41	
				R42	R44	R46	R47	R48	
				R61	R63	R64			
R-0402-39	0402	39	1	R75					
R-0402-4.7K	0402	4.7K	2	R174	R175				
R-0402-47	0402	47	5	R53	R55	R200	R201	R202	
R-0402-470	0402	470	1	R228					
R-0402-560	0402	560	1	R68					
R-0402-820	0402	820	3	R164	R232	R233			
R-0603_G-11K	0603_G	11K	1	R50					
R-0603_G-1K	0603_G	1K	84	RA1	RA2	RA3	RA4	RA5	
				RA6	RA7	RA8	RA9	RA10	
				RA11	RA12	RB1	RB2	RB3	
				RB4	RB5	RB6	RB7	RB8	
				RB9	RB10	RB11	RB12	RD1	
				RD2	RD3	RD4	RD5	RD6	
				RD7	RD8	RD9	RD10	RD11	
				RD12	RE1	RE2	RE3	RE4	
				RE5	RE6	RE7	RE8	RE9	
				RE10	RE11	RE12	RF1	RF2	
				RF3	RF4	RF5	RF6	RF7	
				RF8	RF9	RF10	RF11	RF12	
				RG1	RG2	RG3	RG4	RG5	
				RG6	RG7	RG8	RG9	RG10	
				RG11	RG12	RH1	RH2	RH3	
				RH4	RH5	RH6	RH7	RH8	
				RH9	RH10	RH11	RH12		
R-0603_G-560	0603_G	560	12	RC1	RC2	RC3	RC4	RC5	
				RC6	RC7	RC8	RC9	RC10	
				RC11	RC12				
R-0805_G-2.7K	0805_G	2.7K	2	R162	R163				

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Device	Package	Value	Nb	Reference Designators					Remark
R-0805_G-39K	0805_G	39K	1	R162A					
R-0805_G-430	0805_G	430	1	R163A					
SMD_TARGET_RHOMBUS_1	SMD_TARGET_RHOMBUS_100_1004			SMD1	SMD2	SMD3	SMD4		
SS23	DO214AA	SS23	2	D117	U14				
STM811TW16F	SOT143		3	U10	U11	U12			
SWPOU-POUSMD_6MM_G	POUSMD_6MM_G		6	SW3 SW8	SW4	SW5	SW6	SW7	
TLMG1100	SMDLED_0603	TLMG1100	14	D6 DC4 DC9	D118 DC5 DC10	DC1 DC6 DC11	DC2 DC7 DC12	DC3	
TLMO1000	SMDLED_0603	TLMO1000	14	D9 DB4 DB9	D21 DB5 DB10	DB1 DB6 DB11	DB2 DB7 DB12	DB3	
TLMS1000	SMDLED_0603	TLMS1000	30	D1 D7 D13 D18 DA3 DA8	D2 D8 D14 D19 DA4 DA9	D3 D10 D15 D20 DA5 DA10	D4 D11 D16 DA1 DA6 DA11	D5 D12 D17 DA2 DA7 DA12	
TLMY1000	SMDLED_0603	TLMY1000	61	D22 DD5 DD10 DE3 DE8 DF1 DF6 DF11 DG4 DG9 DH2 DH7 DH12	DD1 DD6 DD11 DE4 DE9 DF2 DF7 DF12 DG5 DG10 DH3 DH8	DD2 DD7 DD12 DE5 DE10 DF3 DF8 DG1 DG6 DG11 DH4 DH9	DD3 DD8 DE1 DE6 DE11 DF4 DF9 DG2 DG7 DG12 DH5 DH10	DD4 DD9 DE2 DE7 DE12 DF5 DF10 DG3 DG8 DH1 DH6 DH11	
TP-18K	TP2812		5	TP1	TP2	TP4	TP5	TP6	
TP-2	TP5435		1	TP3					
VIS_METAL-M2	VIS2		4	V1	V2	V3	V4		

Total Component count 516

NC Pins Report FPGA4U_C

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Ref Des	Device	Nb	Not Connected Pins										Remark
J2	CO7-JUMP7	1	4										
J3	CO16-PULSE-RJ45	3	7 15 16										
J4	CO6-USB4B	2	5 6										
SMD1	SMD_TARGET_RHOMBUS_1	1	1										
SMD2	SMD_TARGET_RHOMBUS_1	1	1										
SMD3	SMD_TARGET_RHOMBUS_1	1	1										
SMD4	SMD_TARGET_RHOMBUS_1	1	1										
U3	LAN91C111-NC	28	2	3	4	5	20	21	25	26	27	28	
			40	43	109	111	112	113	114	115	116	118	
			119	121	122	123	124	125	126	128			
U6	EP2C20	64	A12	AA4	C10	D6	D12	E12	E18	F12	F13	F15	
			G1	G2	G12	G15	G16	G20	H12	H13	H14	H15	
			H21	H22	J3	J5	J6	J14	K17	K18	L2	L7	
			L8	L17	L19	M7	M8	M15	M16	M21	N5	P4	
			P8	P9	P19	P20	P21	P22	R4	R9	R10	R11	
			R12	R13	R14	R15	R16	T7	T8	T11	T12	T15	
			T16	V4	W18	W20							
U8	CY7C68013A-128AXC	38	11	21	22	23	24	25	34	38	39	40	
			41	42	52	59	60	61	62	63	66	67	
			76	77	78	86	87	88	94	95	96	97	
			98	117	118	119	120	126	127	128			
V1	VIS_METAL-M2	1	1										
V2	VIS_METAL-M2	1	1										
V3	VIS_METAL-M2	1	1										
V4	VIS_METAL-M2	1	1										

Total count 144

Power Pins Report FPGA4U_C

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Ref Des	Device	Name	Power Pins	Remark
D2	TLMS1000	GND	1	
D3	TLMS1000	GND	1	
D4	TLMS1000	GND	1	
D5	TLMS1000	GND	1	
D6	TLMG1100	GND	1	
D7	TLMS1000	GND	1	
D8	TLMS1000	GND	1	
D9	TLMO1000	GND	1	
D10	TLMS1000	GND	1	
D11	TLMS1000	GND	1	
D12	TLMS1000	GND	1	
D13	TLMS1000	GND	1	
D14	TLMS1000	GND	1	
D15	TLMS1000	GND	1	
D16	TLMS1000	GND	1	
D17	TLMS1000	GND	1	
D18	TLMS1000	GND	1	
D19	TLMS1000	GND	1	
D20	TLMS1000	GND	1	
D22	TLMY1000	GND	1	
D118	TLMG1100	GND	1	
DA1	TLMS1000	GND	1	
DA2	TLMS1000	GND	1	
DA3	TLMS1000	GND	1	
DA4	TLMS1000	GND	1	
DA5	TLMS1000	GND	1	
DA6	TLMS1000	GND	1	
DA7	TLMS1000	GND	1	
DA8	TLMS1000	GND	1	
DA9	TLMS1000	GND	1	
DA10	TLMS1000	GND	1	
DA11	TLMS1000	GND	1	
DA12	TLMS1000	GND	1	
DB1	TLMO1000	GND	1	
DB2	TLMO1000	GND	1	
DB3	TLMO1000	GND	1	
DB4	TLMO1000	GND	1	
DB5	TLMO1000	GND	1	
DB6	TLMO1000	GND	1	
DB7	TLMO1000	GND	1	
DB8	TLMO1000	GND	1	
DB9	TLMO1000	GND	1	
DB10	TLMO1000	GND	1	
DB11	TLMO1000	GND	1	
DB12	TLMO1000	GND	1	
DC1	TLMG1100	GND	1	
DC2	TLMG1100	GND	1	
DC3	TLMG1100	GND	1	
DC4	TLMG1100	GND	1	
DC5	TLMG1100	GND	1	
DC6	TLMG1100	GND	1	
DC7	TLMG1100	GND	1	
DC8	TLMG1100	GND	1	
DC9	TLMG1100	GND	1	
DC10	TLMG1100	GND	1	
DC11	TLMG1100	GND	1	
DC12	TLMG1100	GND	1	

Power Pins Report FPGA4U_C

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Ref Des	Device	Name	Power Pins	Remark
DD1	TLMY1000	GND	1	
DD2	TLMY1000	GND	1	
DD3	TLMY1000	GND	1	
DD4	TLMY1000	GND	1	
DD5	TLMY1000	GND	1	
DD6	TLMY1000	GND	1	
DD7	TLMY1000	GND	1	
DD8	TLMY1000	GND	1	
DD9	TLMY1000	GND	1	
DD10	TLMY1000	GND	1	
DD11	TLMY1000	GND	1	
DD12	TLMY1000	GND	1	
DE1	TLMY1000	GND	1	
DE2	TLMY1000	GND	1	
DE3	TLMY1000	GND	1	
DE4	TLMY1000	GND	1	
DE5	TLMY1000	GND	1	
DE6	TLMY1000	GND	1	
DE7	TLMY1000	GND	1	
DE8	TLMY1000	GND	1	
DE9	TLMY1000	GND	1	
DE10	TLMY1000	GND	1	
DE11	TLMY1000	GND	1	
DE12	TLMY1000	GND	1	
DF1	TLMY1000	GND	1	
DF2	TLMY1000	GND	1	
DF3	TLMY1000	GND	1	
DF4	TLMY1000	GND	1	
DF5	TLMY1000	GND	1	
DF6	TLMY1000	GND	1	
DF7	TLMY1000	GND	1	
DF8	TLMY1000	GND	1	
DF9	TLMY1000	GND	1	
DF10	TLMY1000	GND	1	
DF11	TLMY1000	GND	1	
DF12	TLMY1000	GND	1	
DG1	TLMY1000	GND	1	
DG2	TLMY1000	GND	1	
DG3	TLMY1000	GND	1	
DG4	TLMY1000	GND	1	
DG5	TLMY1000	GND	1	
DG6	TLMY1000	GND	1	
DG7	TLMY1000	GND	1	
DG8	TLMY1000	GND	1	
DG9	TLMY1000	GND	1	
DG10	TLMY1000	GND	1	
DG11	TLMY1000	GND	1	
DG12	TLMY1000	GND	1	
DH1	TLMY1000	GND	1	
DH2	TLMY1000	GND	1	
DH3	TLMY1000	GND	1	
DH4	TLMY1000	GND	1	
DH5	TLMY1000	GND	1	
DH6	TLMY1000	GND	1	
DH7	TLMY1000	GND	1	
DH8	TLMY1000	GND	1	
DH9	TLMY1000	GND	1	
DH10	TLMY1000	GND	1	

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Ref Des	Device	Name	Power Pins								Remark
DH11	TLMY1000	GND	1								
DH12	TLMY1000	GND	1								
J1	CO3-JACK3-DC10A	GND	2								
J2	CO7-JUMP7	GND	7								
		V33	6								
J3	CO16-PULSE-RJ45	GND	8								
J4	CO6-USB4B	GND	4								
J5	CO20-CPMC20	GND	20								
		V33	1								
J6	CO64-MO64FSMD_1MM	GND	13	14	63	64					
		V33	1	2							
J7	CO64-MO64MSMD_1MM	GND	13	14	63	64					
		V33	1	2							
J8	CO4-MM4	GND	1								
		V33	2								
J9	CO6-MM6	GND	4	5	6						
		V33	1								
R163A	R-0805_G-430	GND	1								
SW1	KAT1108E	GND	9								
		V33	10								
SW2	KAT1108E	GND	9								
		V33	10								
SW3	SWPOU-POUSMD_6MM_G	GND	2								
SW4	SWPOU-POUSMD_6MM_G	GND	2								
SW5	SWPOU-POUSMD_6MM_G	GND	2								
SW6	SWPOU-POUSMD_6MM_G	GND	2								
SW7	SWPOU-POUSMD_6MM_G	GND	1								
SW8	SWPOU-POUSMD_6MM_G	GND	1								
TP3	TP-2	GND	1								
TP5	TP-18K	V33	1								
U1	24LC02B-1-B	GND	2	3	4	7					
		V33	8								
U2	DCDC-AXH003A0X-SRZ	GND	3								
U3	LAN91C111-NC	GND	13	19	24	37	39	52	57	67	72
			103	108	117						93
		V33	35	36							
U4	EPCS16	VDDA	11	16							
		GND	10								
		V33	1	2	9						
U5	IS42S32800B-6TL	GND	6	12	32	38	44	46	52	58	72
			84	86							78
		V33	1	3	9	15	29	35	41	43	49
U6	EP2C20	GND	75	81							55
			A1	A22	AA2	AA21	AB1	AB22	B2	B21	C5
			C15	D10	D13	D18	E16	E17	F5	F6	C8
			F19	G4	G10	G13	H20	J8	J9	K3	F18
			K11	K12	K13	K15	K16	K19	L10	L11	K7
			L15	M4	M10	M11	M12	M13	N7	N8	K10
			N12	N13	N16	N19	R3	T10	T13	T17	N10
			V3	V5	V6	V7	V16	V17	V18	W10	N11
			Y8	Y15						W13	U5
											W19

Power Pins Report FPGA4U_C

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Ref Des	Device	Name	Power Pins										Remark
		V33	A2	A21	AA1	AA22	AB2	AB21	B1	B22	C6	C11	
			C12	D17	E10	E13	G9	G14	G19	J7	J16	L3	
			L20	M3	M20	P7	P16	T4	T9	T14	T19	V10	
			V13	W6	W17	Y11	Y12						
U7	DCDC-AXH003A0X-SRZ	GND	3										
		V33	5										
U8	CY7C68013A-128AXC	GND	3	13	20	27	29	30	31	33	35	49	
			53	58	65	80	93	116	125				
		V33	2	26	43	48	64	68	81	100	107		
U9	74HC126PW-A	GND	7										
		V33	14										
U10	STM811TW16F	GND	1										
U11	STM811TW16F	GND	1										
		V33	4										
U12	STM811TW16F	GND	1										
		V33	4										
U13	93C46BSN-ND-A	GND	5										
		V33	6	8									
W2	JUMP2-0	GND	1										
XT1	C3391	GND	2										
		V33	1	4									

Total count 152

Single Node Nets Report FPGA4U_C

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