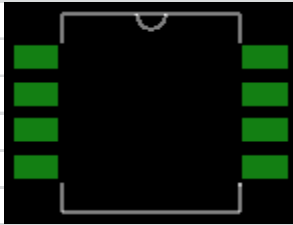
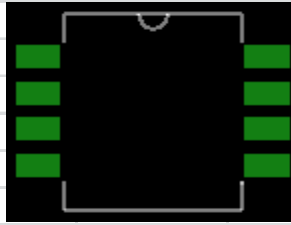
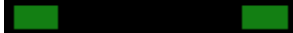
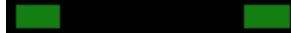
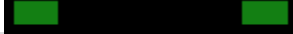
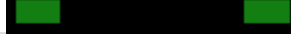
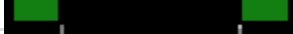
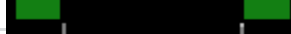


Borax Core Board Update:

BORAX CORE BOARD SCH UPDATE		
	V2.0	V3.0
P1.AB26	N.C.	GND
P1.AA26	N.C.	GND
P1.W24	N.C.	GND
P1.Y24	FPGA_CLKIN_50MHZ	GND
P1.E11	N.C.	FPGA_CLKIN_50MHZ
P1.B19	USB_RESETh	HPS_7A_I08
P1.B14	N.C.	USB_RESETh
J5.16	N.C.	HPS_7A_I08

J11 PCB FOOTPRINT UPDATE			
V2.0		V3.0	
Pin1		Pin2	
Pin3		Pin4	
Pin5		Pin6	
Pin7		Pin8	

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P1-2

IO_3B_W11/CLK0N,FPLL_BL_FBN/DIFFIO_RX_B31N
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IO_3B_AH4/FPLL_BL_CLKOUT1,FPLL_BL_CLKOUTN/DIFFIO_TX_B37N/DQ3B
IO_3B_AG5/FPLL_BL_CLKOUT0,FPLL_BL_CLKOUTP,FPLL_BL_FBN/DIFFIO_TX_B37P/DQ3B

IO_3A_AD5/DIFFIO_TX_B8P/DQ1B

IO_3B_AF4/DIFFIO_TX_B25N
IO_3B_AE9/DIFFIO_RX_B26N/DQ2B
IO_3B_AE4/DIFFIO_TX_B25P/DQ2B
IO_3B_AD10/DIFFIO_RX_B26P/DQ2B
IO_3B_U11/DIFFIO_RX_B27N/DQ3B
IO_3B_AF8/DIFFIO_TX_B28N/DQ2B
IO_3B_T11/DIFFIO_RX_B27P/DQ3B
IO_3B_AE7/DIFFIO_TX_B28P
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IO_3B_AH3/DIFFIO_TX_B36P
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IO_3B_AH5/DIFFIO_TX_B40N/DQ3B
IO_3B_AH6/DIFFIO_TX_B40P/DQ3B

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V11 5CSX_3B_I01
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AG5 5CSX_I0P11

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AE9 5CSX_3B_I03
AE4 5CSX_3B_I04
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AF8 5CSX_3B_I07
T11 5CSX_3B_I08
AE7 5CSX_3B_I09
AE7 5CSX_3B_I09
AE11 5CSX_3B_I011
AE8 5CSX_3B_I012
AD11 5CSX_3B_I013
AF6 5CSX_3B_I014
AF5 5CSX_3B_I015
AG6 5CSX_3B_I016
AF10 5CSX_3B_I017
AF7 5CSX_3B_I018
AF11 5CSX_3B_I019
T12 5CSX_3B_I020
AH2 5CSX_I0M10
T13 5CSX_3B_I021
AH3 5CSX_I0P10
AD12 5CSX_3B_I022
AE12 5CSX_3B_I023
AH5 5CSX_I0M9
AH6 5CSX_I0P9

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IO_5B_AB26/FPLL_BR_CLKOUT0,FPLL_BR_CLKOUTP,FPLL_BR_FBN/DIFFIO_TX_R22P
IO_5B_AA26/FPLL_BR_CLKOUT1,FPLL_BR_CLKOUTN/DIFFIO_TX_R22N
IO_5B_Y24/CLK4P,FPLL_BR_FBP/DIFFIO_RX_R23P
IO_5B_W24/CLK4N,FPLL_BR_FBN/DIFFIO_RX_R23N

IO_5A_Y17/DIFFIO_RX_R4P/DQ1R
IO_5A_Y18/DIFFIO_RX_R4N/DQ1R
IO_5A_Y16/DIFFIO_RX_R6P/DQ51R
IO_5A_AA24/DIFFIO_TX_R7P/DQ1R
IO_5A_V16/DIFFIO_RX_R8P/DQ1R
IO_5A_AA23/DIFFIO_TX_R7N
IO_5A_V15/DIFFIO_RX_R8N/DQ1R

AB26 5CSX_5A_I08
AA26 5CSX_5A_I09
Y24 5CSX_5A_I010
W24 5CSX_5A_I011
Y17 5CSX_5A_I012
Y18 5CSX_5A_I013
AA24 5CSX_5A_I014
V16 5CSX_5A_I015
AA23 5CSX_5A_I016
V15 5CSX_5A_I017

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IO_4A_AF13/DIFFIO_RX_B42N/DQ4B
IO_4A_AG8/DIFFIO_TX_B41P/DQ4B
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IO_4A_AH12/DIFFIO_TX_B49P/DQ5B
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IO_4A_V13/DIFFIO_RX_B51N/DQ5B
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AG8 5CSX_4A_I01
AG13 5CSX_4A_I02
U13 5CSX_4A_I03
AH8 5CSX_I0N8
U14 5CSX_4A_I04
AG9 5CSX_I0P8
AH9 5CSX_I0N7
AE15 5CSX_4A_I05
AG10 5CSX_I0P7
AF15 5CSX_4A_I06
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AG15 5CSX_I0P4
AD17 5CSX_I0N3
AH16 5CSX_I0P3
AD19 5CSX_4A_I014
AF18 5CSX_4A_I015
AE18 5CSX_4A_I016
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AF25 5CSX_4A_I042
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5CSX_4A_I0[0:44]
5CSX_5A_I0[0:14]
5CSX_I0P[0:11]
5CSX_I0N[0:11]

P1-8

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IO_4A_Y15/CLK3P/DIFFIO_RX_B56P
IO_5B_W21/CLK5P/DIFFIO_RX_R21P
IO_5B_W20/CLK5N/DIFFIO_RX_R21N
IO_8A_D12/CLK7P/DIFFIO_RX_T1P
IO_8A_C12/CLK7N/DIFFIO_RX_T1N

IO_4A_AH7/RZQ_0/DIFFIO_TX_B41N
IO_5A_AF26/RZQ_1/DIFFIO_TX_R1P/DQ1R
IO_5B_AB25/RZQ_2/DIFFIO_TX_R24N

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V12 5CSX_CLK1
AA13 5CSX_CLK2
Y13 5CSX_CLK3
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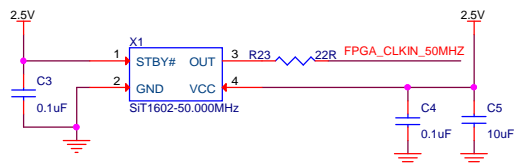
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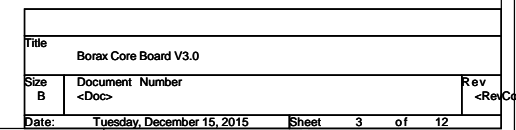
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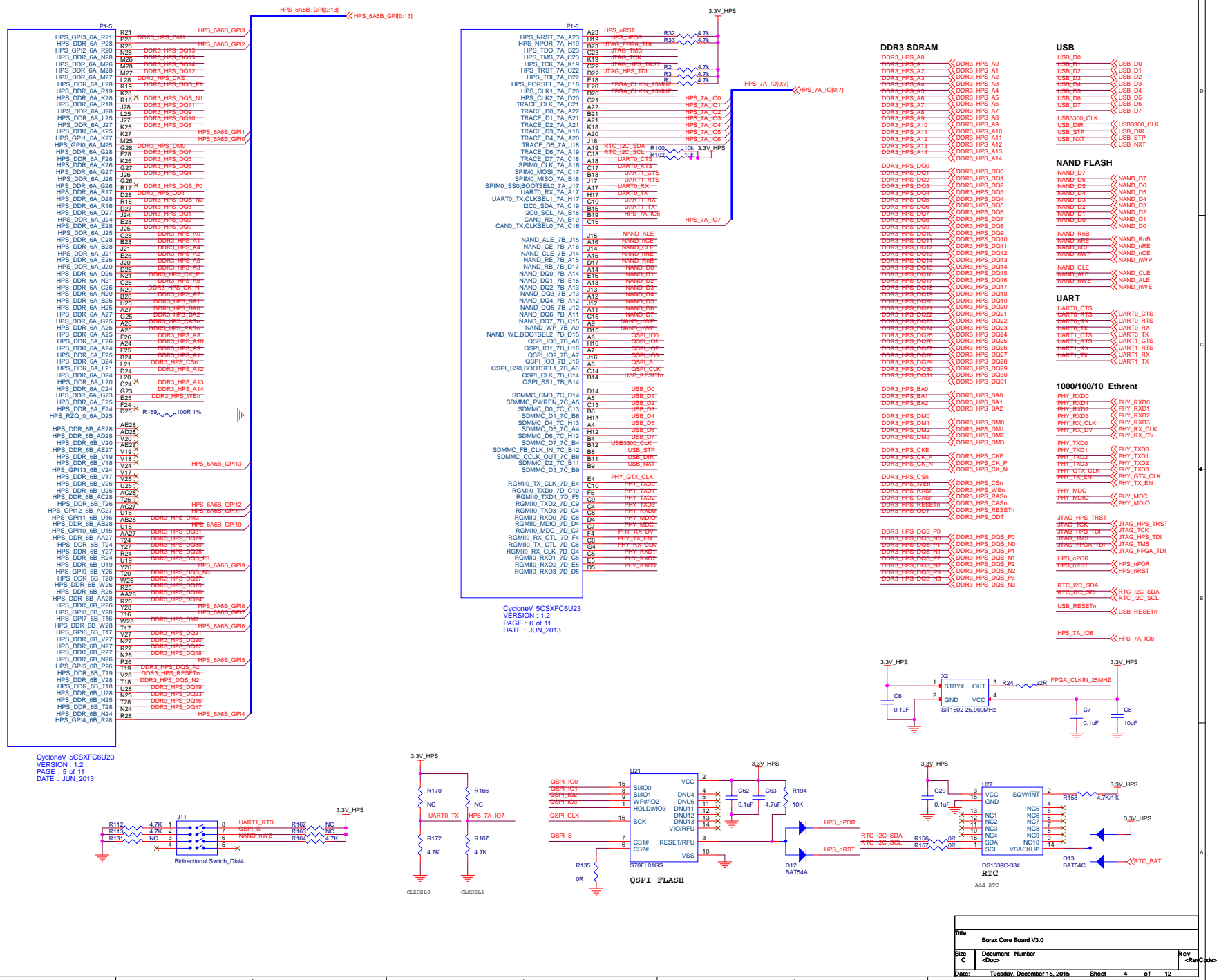
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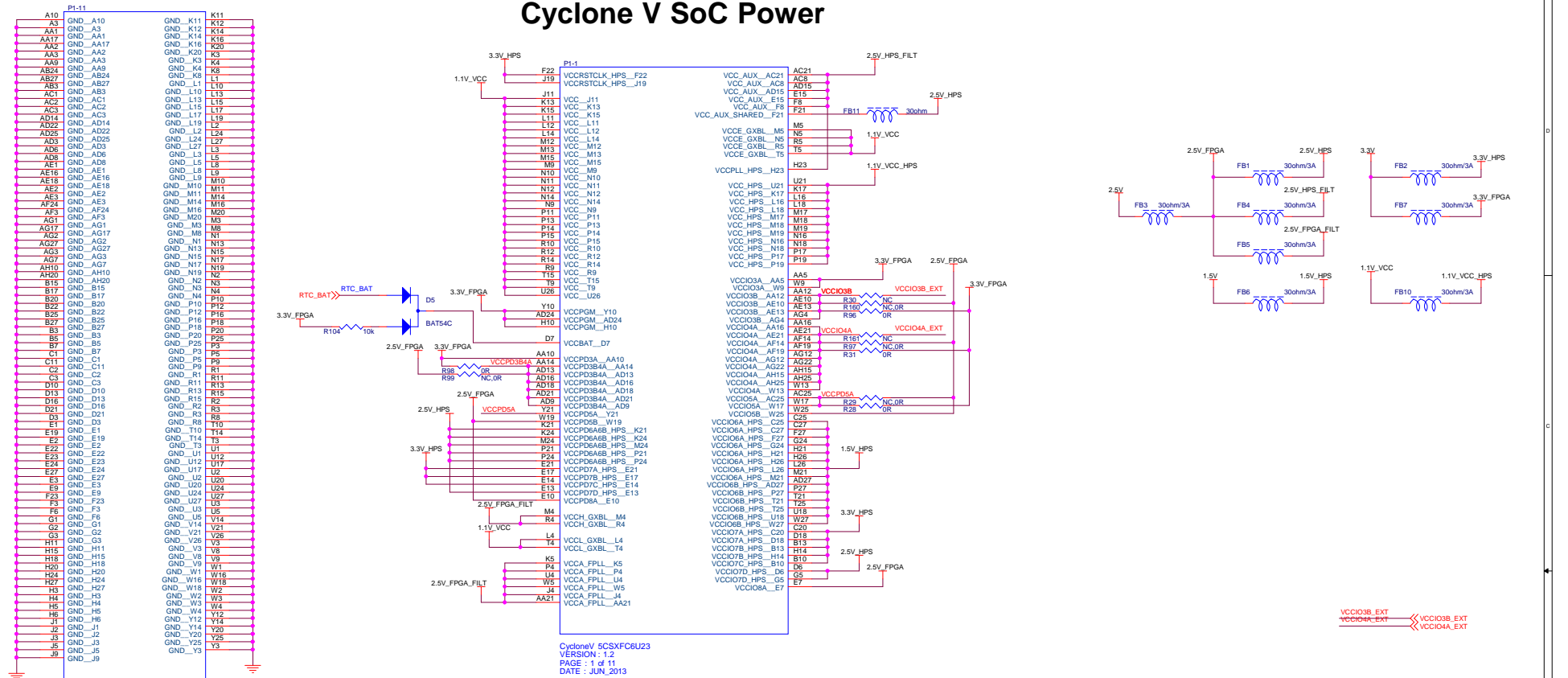


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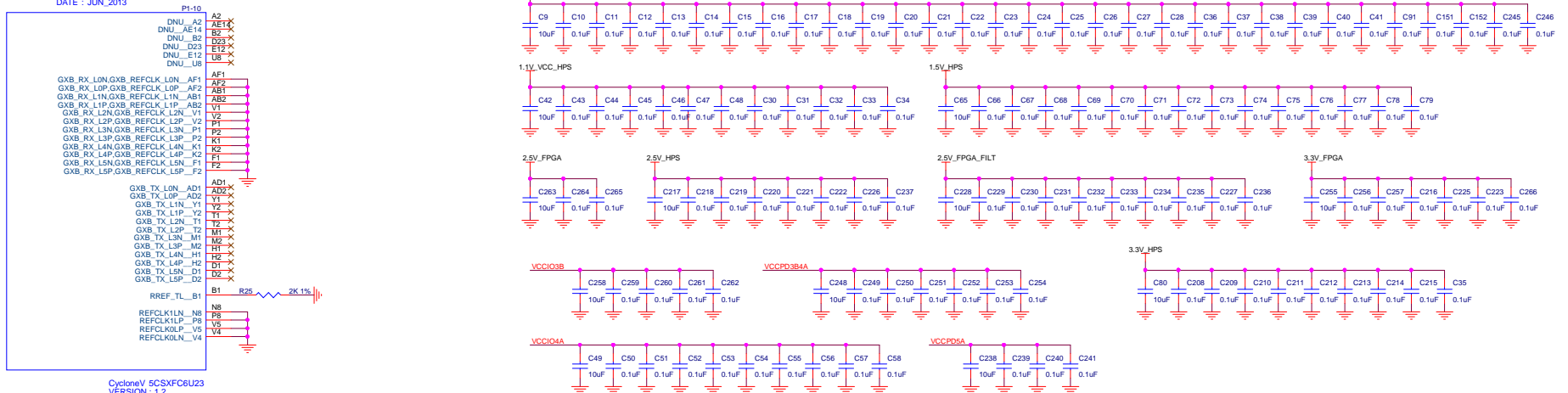


Cyclone V SoC Power



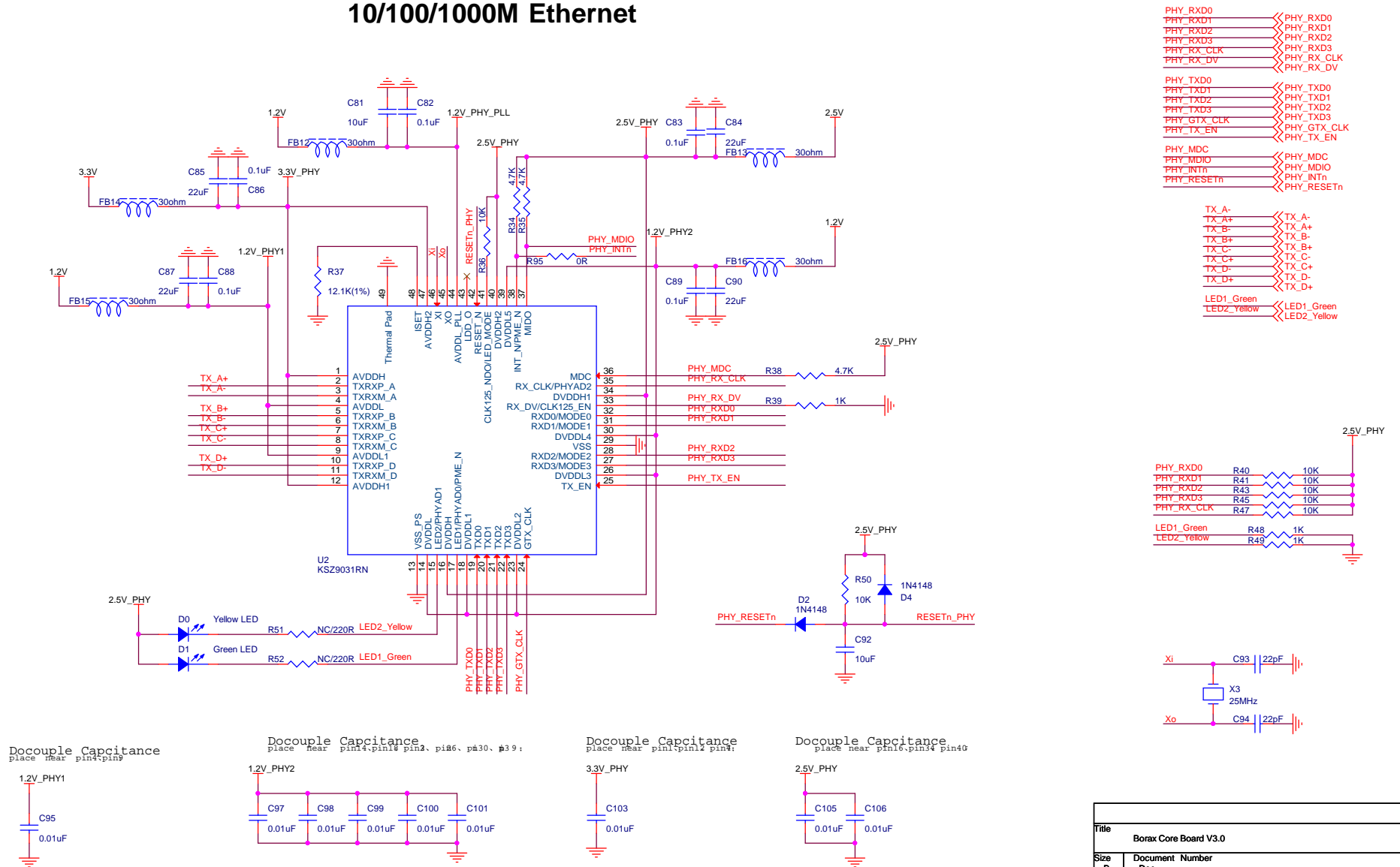
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10/100/1000M Ethernet



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DDR3 SDRAM

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DDR3_HPS_CKE, DDR3_HPS_CK_P, DDR3_HPS_CK_N

DDR3_HPS_CSn, DDR3_HPS_WEn, DDR3_HPS_RASn, DDR3_HPS_CASn

DDR3_HPS_BA0, DDR3_HPS_BA1, DDR3_HPS_BA2, DDR3_HPS_RESETn, DDR3_HPS_ODT

DDR3_HPS_DQ0, DDR3_HPS_DQ1, DDR3_HPS_DQ2, DDR3_HPS_DQ3, DDR3_HPS_DQ4, DDR3_HPS_DQ5, DDR3_HPS_DQ6, DDR3_HPS_DQ7, DDR3_HPS_DQ8, DDR3_HPS_DQ9, DDR3_HPS_DQ10, DDR3_HPS_DQ11, DDR3_HPS_DQ12, DDR3_HPS_DQ13, DDR3_HPS_DQ14, DDR3_HPS_DQ15, DDR3_HPS_DQ16, DDR3_HPS_DQ17, DDR3_HPS_DQ18, DDR3_HPS_DQ19, DDR3_HPS_DQ20, DDR3_HPS_DQ21, DDR3_HPS_DQ22, DDR3_HPS_DQ23, DDR3_HPS_DQ24, DDR3_HPS_DQ25, DDR3_HPS_DQ26, DDR3_HPS_DQ27, DDR3_HPS_DQ28, DDR3_HPS_DQ29, DDR3_HPS_DQ30, DDR3_HPS_DQ31

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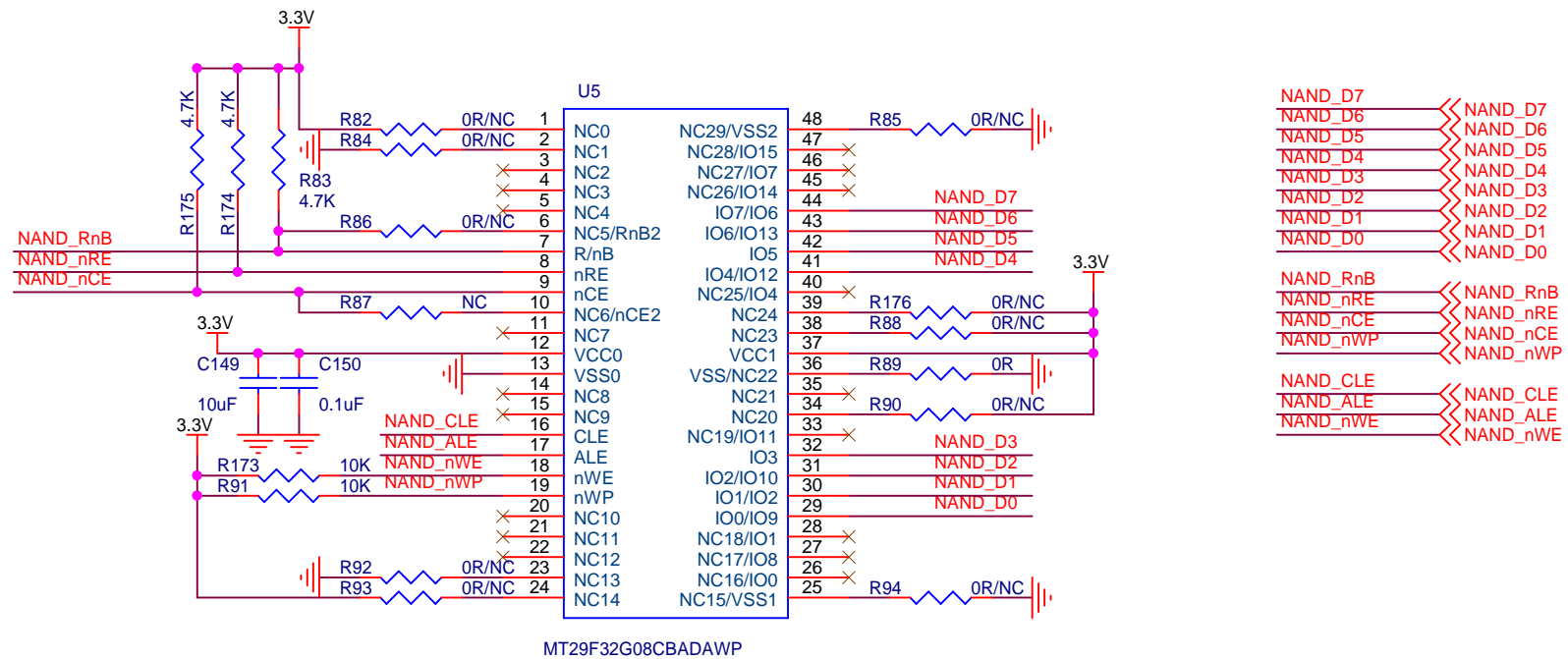
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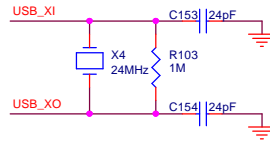
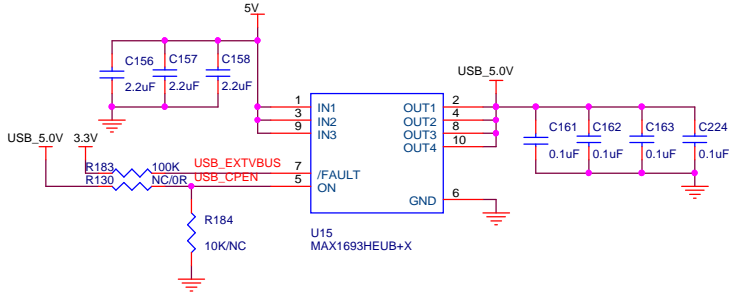
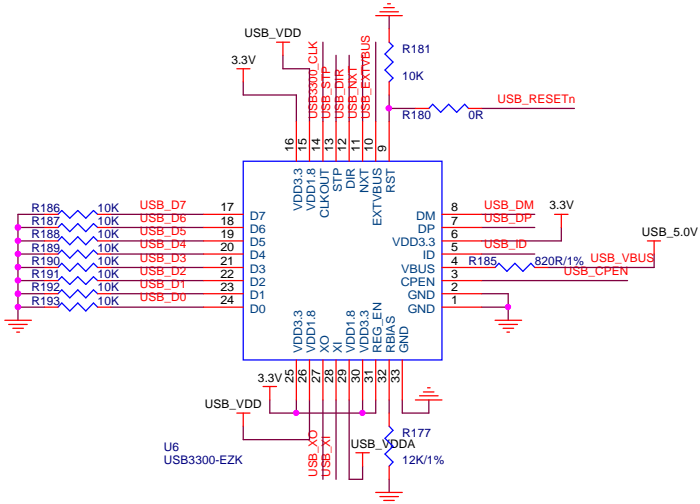
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NAND FLASH



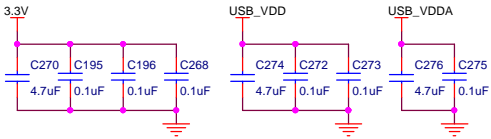
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USB2.0 OTG

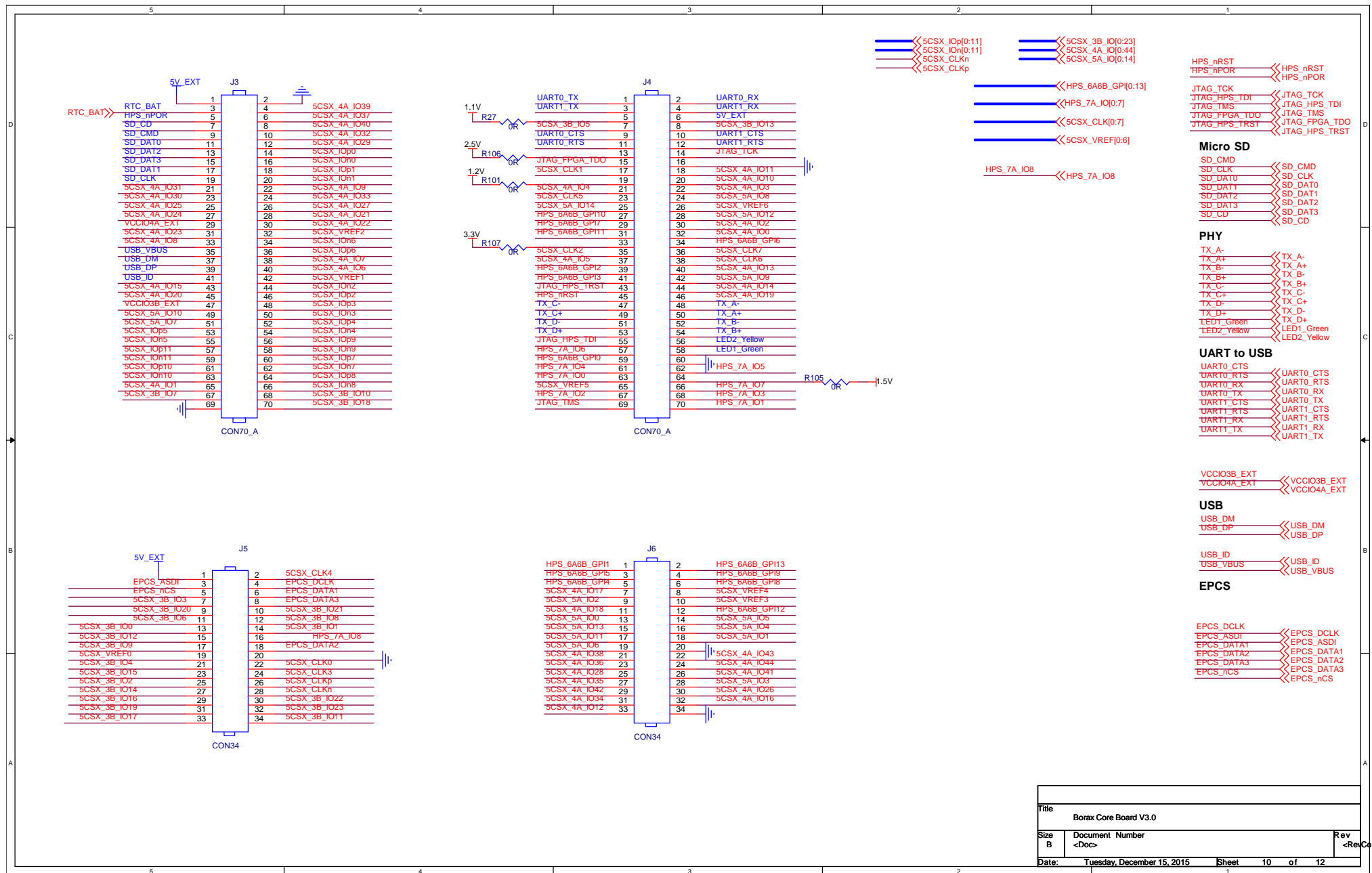


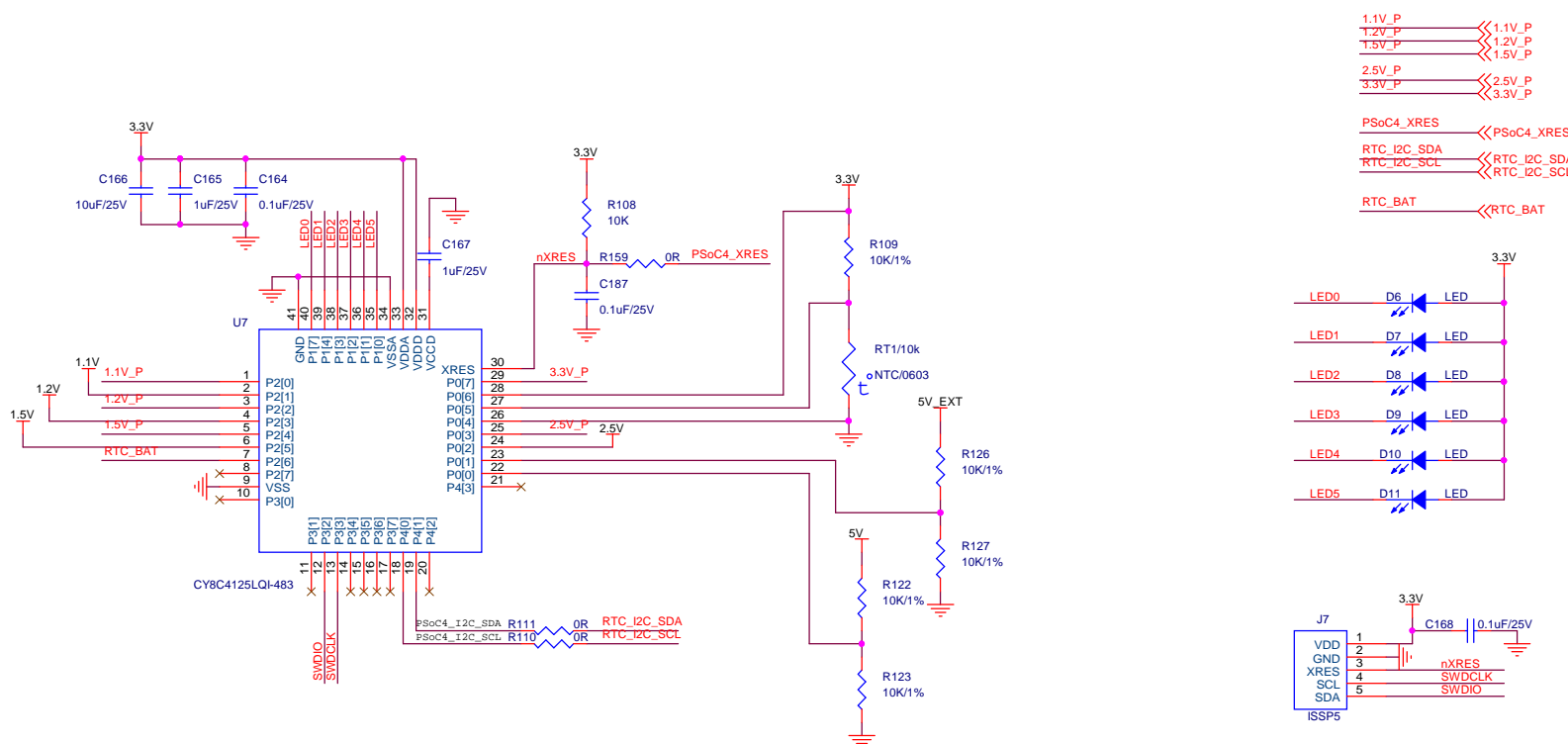
USB_D0	USB_D0
USB_D1	USB_D1
USB_D2	USB_D1
USB_D3	USB_D2
USB_D4	USB_D3
USB_D5	USB_D4
USB_D6	USB_D5
USB_D7	USB_D6
	USB_D7
USB_DIR	USB_DIR
USB_STP	USB_STP
USB_NXT	USB_NXT
USB_RESETn	USB_RESETn
USB_DM	USB_DM
USB_DP	USB_DP
USB3300_CLK	USB3300_CLK
USB_ID	USB_ID
USB_VBUS	USB_VBUS

Place Near USB3300-EZK



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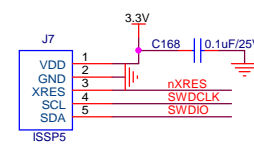
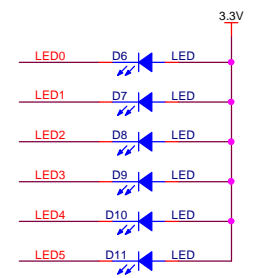


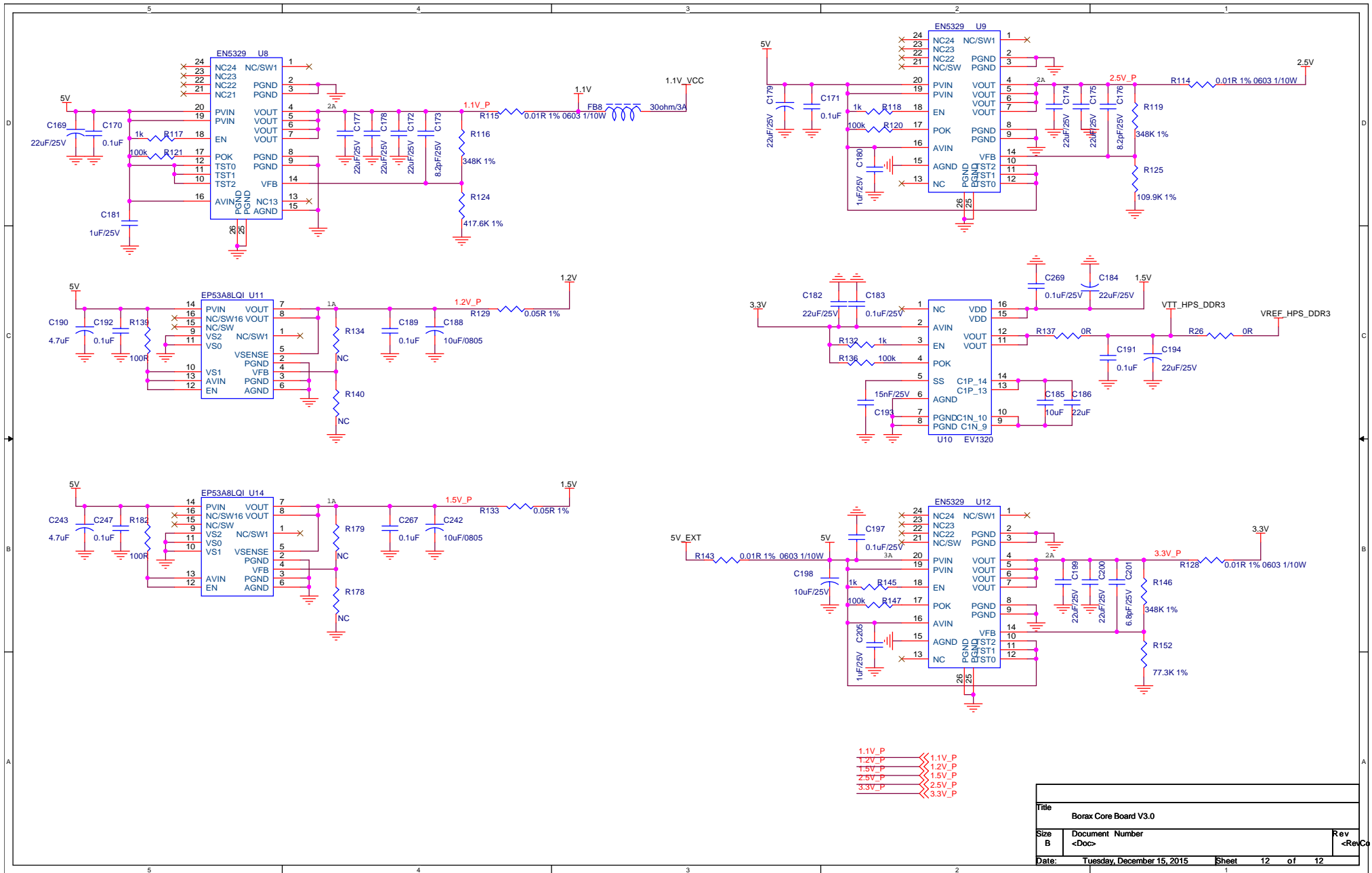


1.1V_P << 1.1V_P
 1.2V_P << 1.2V_P
 1.5V_P << 1.5V_P
 2.5V_P << 2.5V_P
 3.3V_P << 3.3V_P

PSoC4_XRES << PSoC4_XRES
 RTC_I2C_SDA << RTC_I2C_SDA
 RTC_I2C_SCL << RTC_I2C_SCL

RTC_BAT << RTC_BAT





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