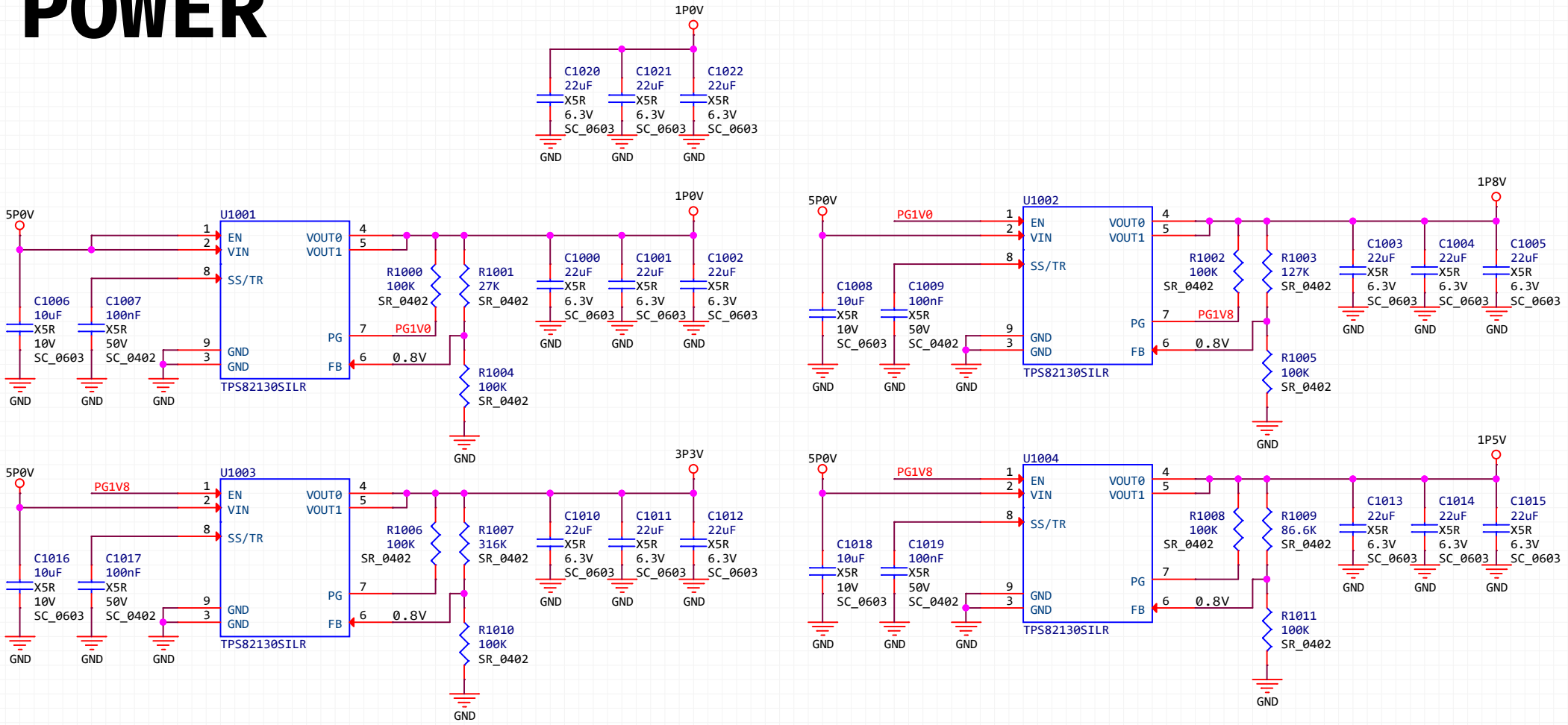
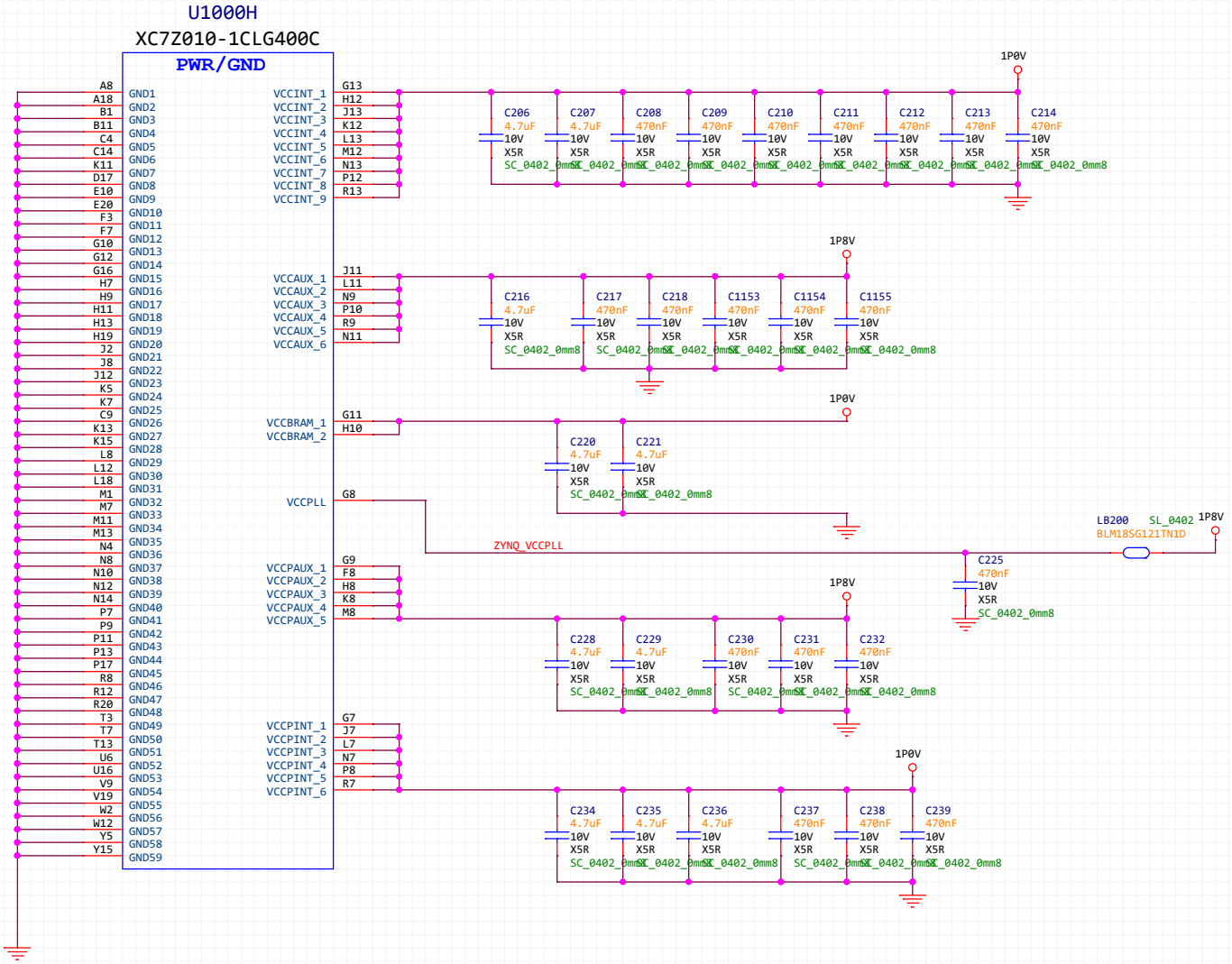
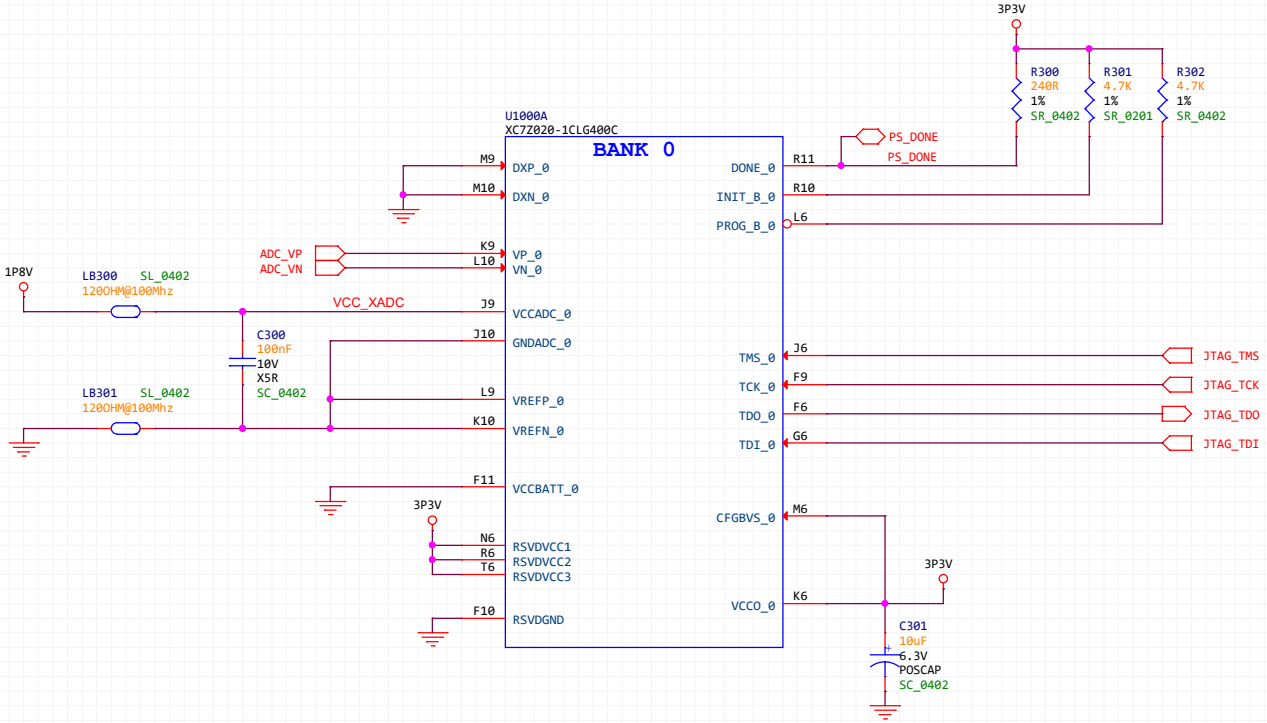
POWER


1P0V
C1020 22uF X5R 6.3V SC_0603
C1021 22uF X5R 6.3V SC_0603
C1022 22uF X5R 6.3V SC_0603
GND
5P0V
U1001
EN
VIN
SS/TR
PG
GND
GND
FB
VOUT0
VOUT1
TPS82130SILR
C1006 10uF X5R 10V SC_0603
C1007 100nF X5R 50V SC_0402
R1000 100K SR_0402
R1001 27K SR_0402
R1004 100K SR_0402
PG1V0
0.8V
C1000 22uF X5R 6.3V SC_0603
C1001 22uF X5R 6.3V SC_0603
C1002 22uF X5R 6.3V SC_0603
U1002
1P8V
C1008 10uF X5R 10V SC_0603
C1009 100nF X5R 50V SC_0402
R1002 100K SR_0402
R1003 127K SR_0402
R1005 100K SR_0402
PG1V8
C1003 22uF X5R 6.3V SC_0603
C1004 22uF X5R 6.3V SC_0603
C1005 22uF X5R 6.3V SC_0603
U1003
3P3V
C1016 10uF X5R 10V SC_0603
C1017 100nF X5R 50V SC_0402
R1006 100K SR_0402
R1007 316K SR_0402
R1010 100K SR_0402
C1010 22uF X5R 6.3V SC_0603
C1011 22uF X5R 6.3V SC_0603
C1012 22uF X5R 6.3V SC_0603
U1004
1P5V
C1018 10uF X5R 10V SC_0603
C1019 100nF X5R 50V SC_0402
R1008 100K SR_0402
R1009 86.6K SR_0402
R1011 100K SR_0402
C1013 22uF X5R 6.3V SC_0603
C1014 22uF X5R 6.3V SC_0603
C1015 22uF X5R 6.3V SC_0603

ZYNQ POWER

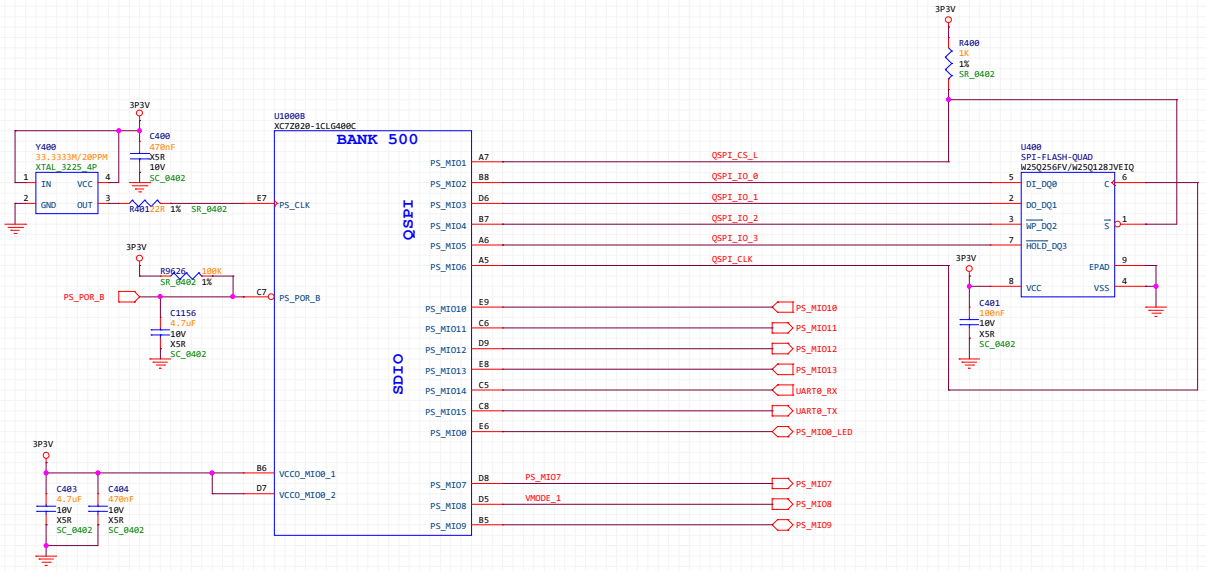

U1000H
XC7Z010-1CLG400C
PWR/GND
GND1 A8
GND2 A18
GND3 B1
GND4 B11
GND5 C4
GND6 C14
GND7 K11
GND8 D17
GND9 E10
GND10 E20
GND11 F3
GND12 F7
GND13 G10
GND14 G12
GND15 G16
GND16 H7
GND17 H9
GND18 H11
GND19 H13
GND20 H19
GND21 J2
GND22 J8
GND23 J12
GND24 K5
GND25 K7
GND26 C9
GND27 K13
GND28 K15
GND29 L8
GND30 L12
GND31 L18
GND32 M1
GND33 M7
GND34 M11
GND35 M13
GND36 N4
GND37 N8
GND38 N10
GND39 N12
GND40 N14
GND41 P7
GND42 P9
GND43 P11
GND44 P13
GND45 P17
GND46 R8
GND47 R12
GND48 R20
GND49 T3
GND50 T7
GND51 T13
GND52 U6
GND53 U16
GND54 V9
GND55 V19
GND56 W2
GND57 W12
GND58 Y5
GND59 Y15
VCCINT_1 G13
VCCINT_2 H12
VCCINT_3 J13
VCCINT_4 K12
VCCINT_5 L13
VCCINT_6 M12
VCCINT_7 N13
VCCINT_8 P12
VCCINT_9 R13
VCCAUX_1 J11
VCCAUX_2 L11
VCCAUX_3 N9
VCCAUX_4 P10
VCCAUX_5 R9
VCCAUX_6 N11
VCCBRAM_1 G11
VCCBRAM_2 H10
VCCPLL G8
VCCPAUX_1 G9
VCCPAUX_2 F8
VCCPAUX_3 H8
VCCPAUX_4 K8
VCCPAUX_5 M8
VCCPINT_1 G7
VCCPINT_2 J7
VCCPINT_3 L7
VCCPINT_4 N7
VCCPINT_5 P8
VCCPINT_6 R7
1P0V
C206 4.7uF 10V X5R SC_0402_0mm8
C207 4.7uF 10V X5R SC_0402_0mm8
C208 470nF 10V X5R SC_0402_0mm8
C209 470nF 10V X5R SC_0402_0mm8
C210 470nF 10V X5R SC_0402_0mm8
C211 470nF 10V X5R SC_0402_0mm8
C212 470nF 10V X5R SC_0402_0mm8
C213 470nF 10V X5R SC_0402_0mm8
C214 470nF 10V X5R SC_0402_0mm8
1P8V
C216 4.7uF 10V X5R SC_0402_0mm8
C217 470nF 10V X5R SC_0402_0mm8
C218 470nF 10V X5R SC_0402_0mm8
C1153 470nF 10V X5R SC_0402_0mm8
C1154 470nF 10V X5R SC_0402_0mm8
C1155 470nF 10V X5R SC_0402_0mm8
1P0V
C220 4.7uF 10V X5R SC_0402_0mm8
C221 4.7uF 10V X5R SC_0402_0mm8
ZYNQ_VCCPLL
LB200 SL_0402 BLM18SG121TN1D
1P8V
C225 470nF 10V X5R SC_0402_0mm8
1P8V
C228 4.7uF 10V X5R SC_0402_0mm8
C229 4.7uF 10V X5R SC_0402_0mm8
C230 470nF 10V X5R SC_0402_0mm8
C231 470nF 10V X5R SC_0402_0mm8
C232 470nF 10V X5R SC_0402_0mm8
1P0V
C234 4.7uF 10V X5R SC_0402_0mm8
C235 4.7uF 10V X5R SC_0402_0mm8
C236 4.7uF 10V X5R SC_0402_0mm8
C237 470nF 10V X5R SC_0402_0mm8
C238 470nF 10V X5R SC_0402_0mm8
C239 470nF 10V X5R SC_0402_0mm8

ZYNQ BANK0



BANK 0 OPERATING VOLTAGE = 3.3V

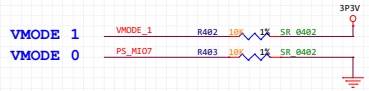
ZYNQ BANK500



ZYNQ CONFIG MODE SELECT

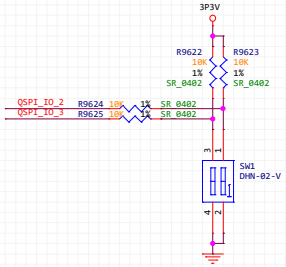
Layout Note:

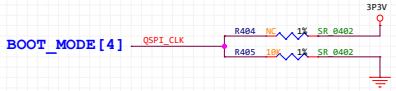
Limit the Stub length to less than 10mm



VMODE 1 = 1 --------> MIO Bank 1 Voltage = 1.8V

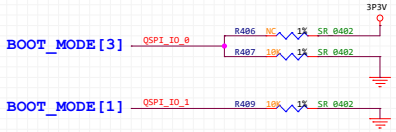
VMODE 0 = 0 --------> MIO Bank 0 Voltage = 3.3V





BOOT_MODE4 = 1 ---------> PLL Bypassed

BOOT_MODE4 = 0 ---------> PLL Used

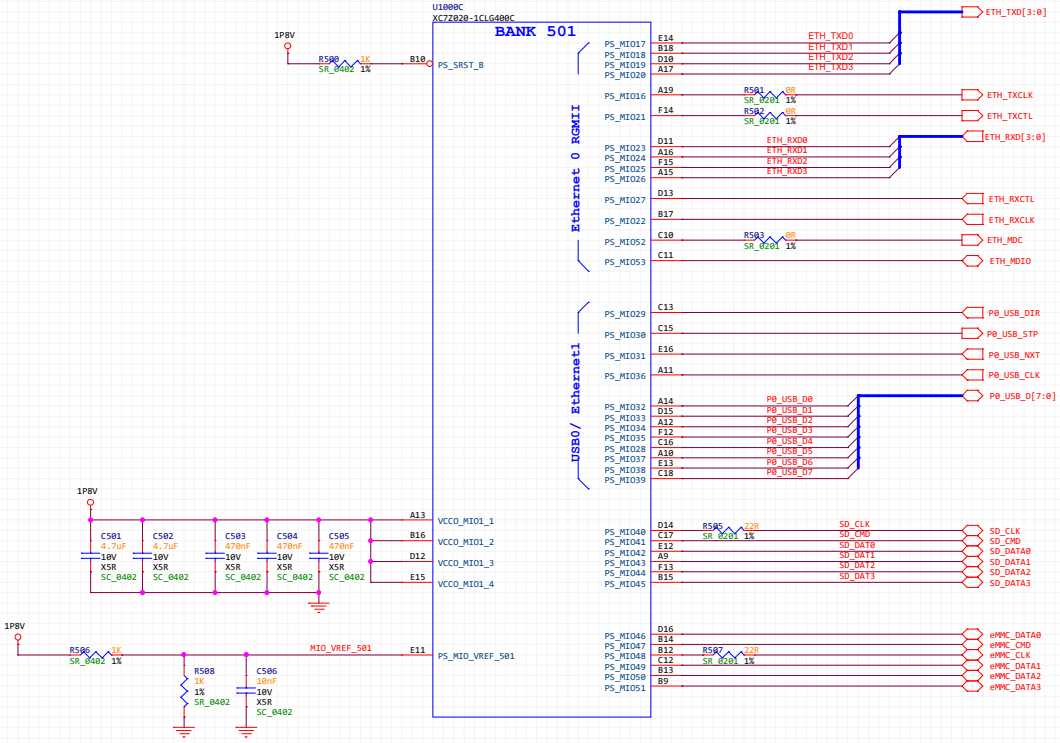


BOOT_MODE3 = 1 ---------> Independant JTAG

BOOT_MODE3 = 0 ---------> Cascaded JTAG

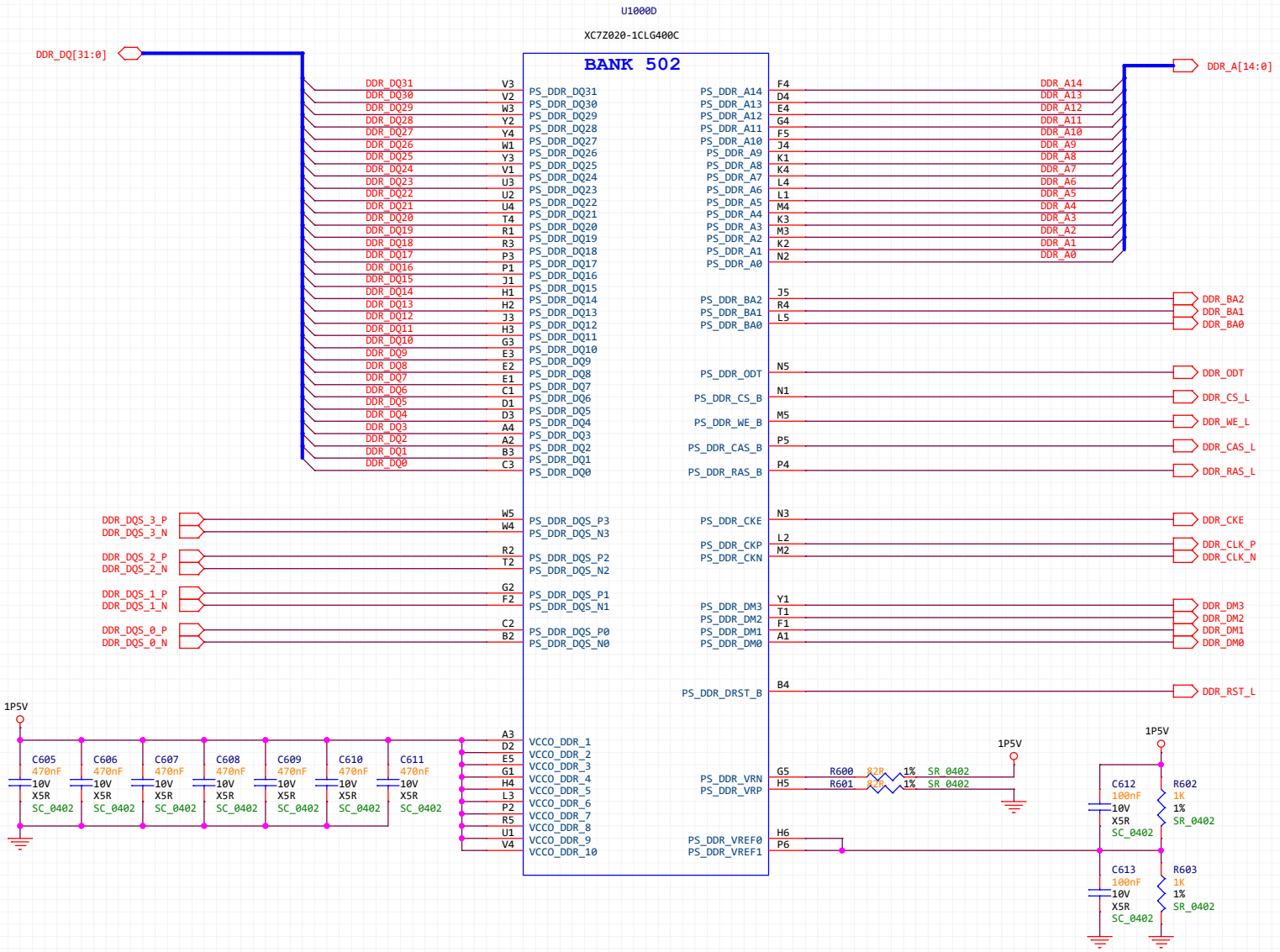
BOOT_MODE[0]	BOOT_MODE[1]	BOOT_MODE[2]	BOOT_MODE[3]	
0	0	0	0	Boot from JTAG
1	0	0	x	Boot from QSPI

ZYNQ
BANK501



1.8V Interface IO

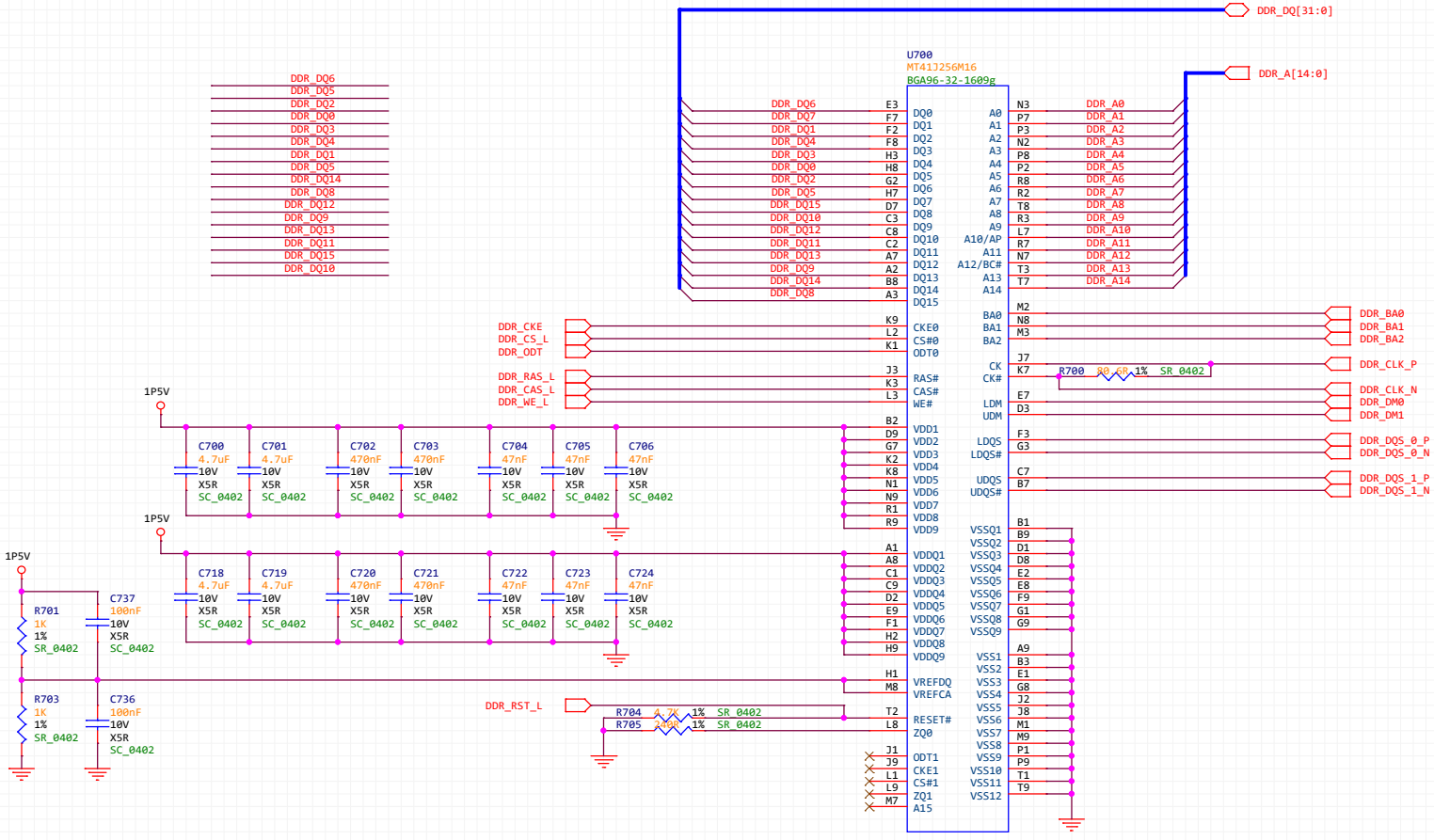
ZYNQ BANK502



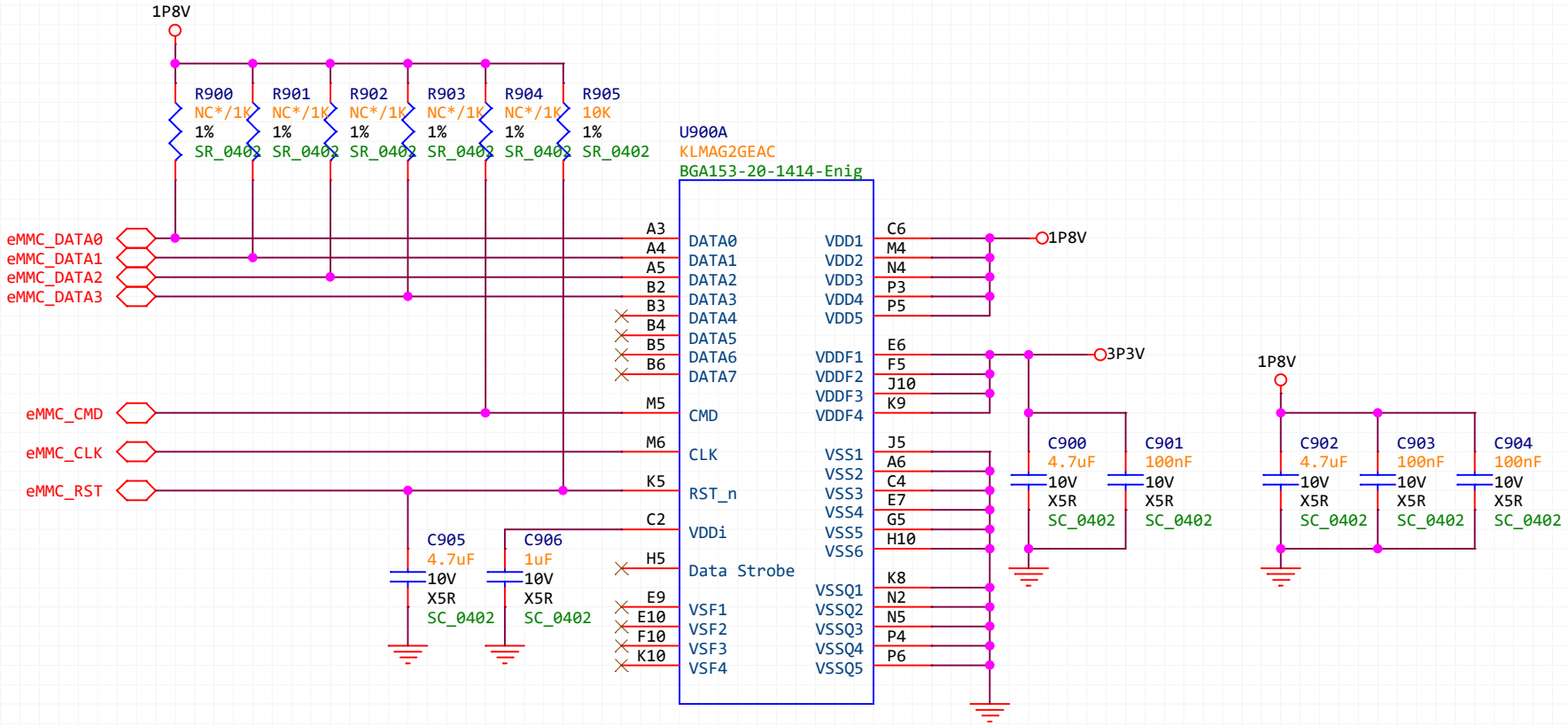
ZYNQ
BANK34&35

Enable 100-ohm internal termination on all LVDS inputs

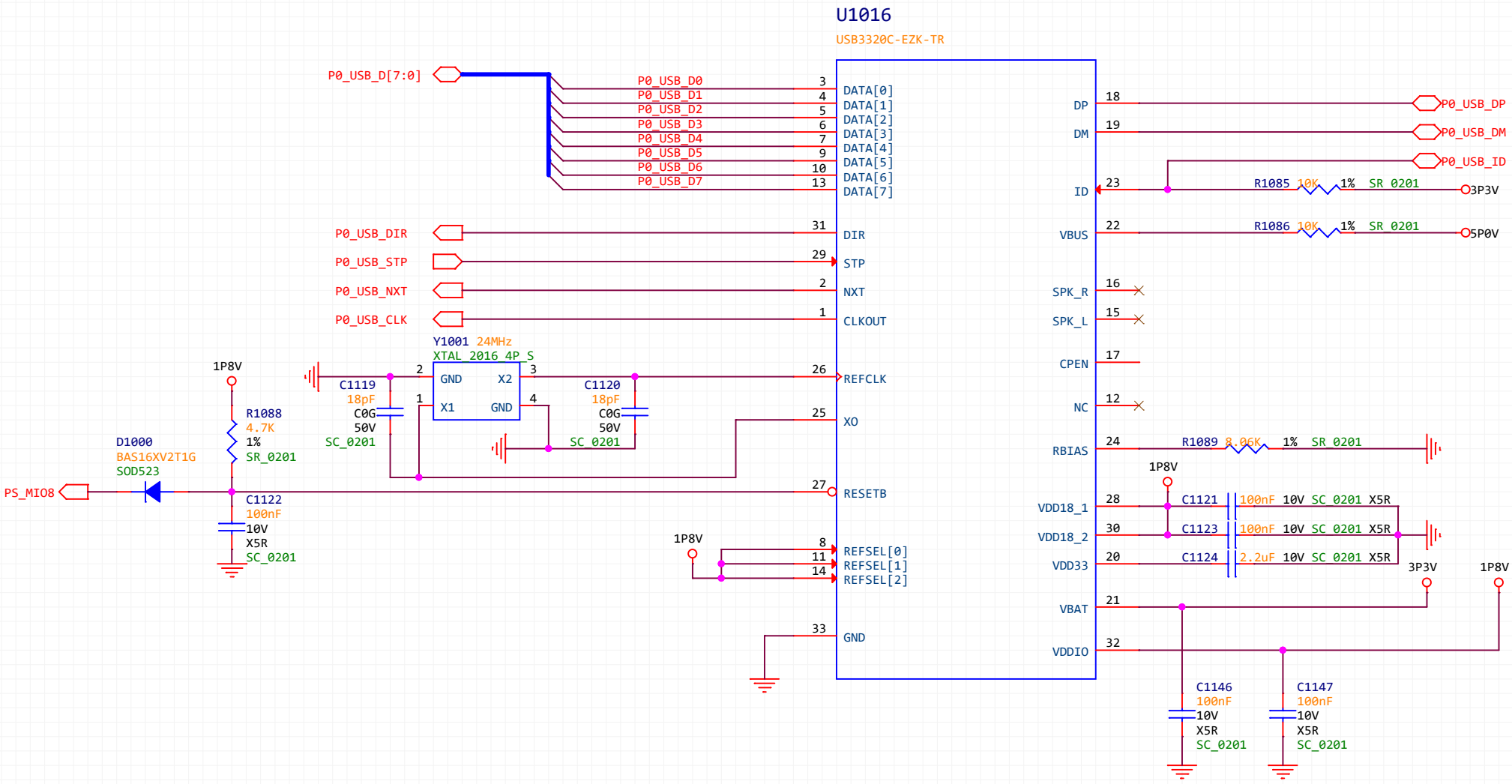
DDR3


DDR_DQ[31:0]
DDR_A[14:0]
U700
MT41J256M16
BGA96-32-1609g
DDR_DQ6
DDR_DQ7
DDR_DQ1
DDR_DQ4
DDR_DQ3
DDR_DQ0
DDR_DQ2
DDR_DQ5
DDR_DQ15
DDR_DQ10
DDR_DQ12
DDR_DQ11
DDR_DQ13
DDR_DQ9
DDR_DQ14
DDR_DQ8
DDR_A0
DDR_A1
DDR_A2
DDR_A3
DDR_A4
DDR_A5
DDR_A6
DDR_A7
DDR_A8
DDR_A9
DDR_A10
DDR_A11
DDR_A12
DDR_A13
DDR_A14
DDR_BA0
DDR_BA1
DDR_BA2
DDR_CLK_P
DDR_CLK_N
DDR_DM0
DDR_DM1
DDR_DQS_0_P
DDR_DQS_0_N
DDR_DQS_1_P
DDR_DQS_1_N
DDR_CKE
DDR_CS_L
DDR_ODT
DDR_RAS_L
DDR_CAS_L
DDR_WE_L
DDR_RST_L
R700 80.6R 1% SR_0402
R704 4.7K 1% SR_0402
R705 240R 1% SR_0402
1P5V
C700 4.7uF 10V X5R SC_0402
C701 4.7uF 10V X5R SC_0402
C702 470nF 10V X5R SC_0402
C703 470nF 10V X5R SC_0402
C704 47nF 10V X5R SC_0402
C705 47nF 10V X5R SC_0402
C706 47nF 10V X5R SC_0402
C718 4.7uF 10V X5R SC_0402
C719 4.7uF 10V X5R SC_0402
C720 470nF 10V X5R SC_0402
C721 470nF 10V X5R SC_0402
C722 47nF 10V X5R SC_0402
C723 47nF 10V X5R SC_0402
C724 47nF 10V X5R SC_0402
R701 1K 1% SR_0402
C737 100nF 10V X5R SC_0402
R703 1K 1% SR_0402
C736 100nF 10V X5R SC_0402

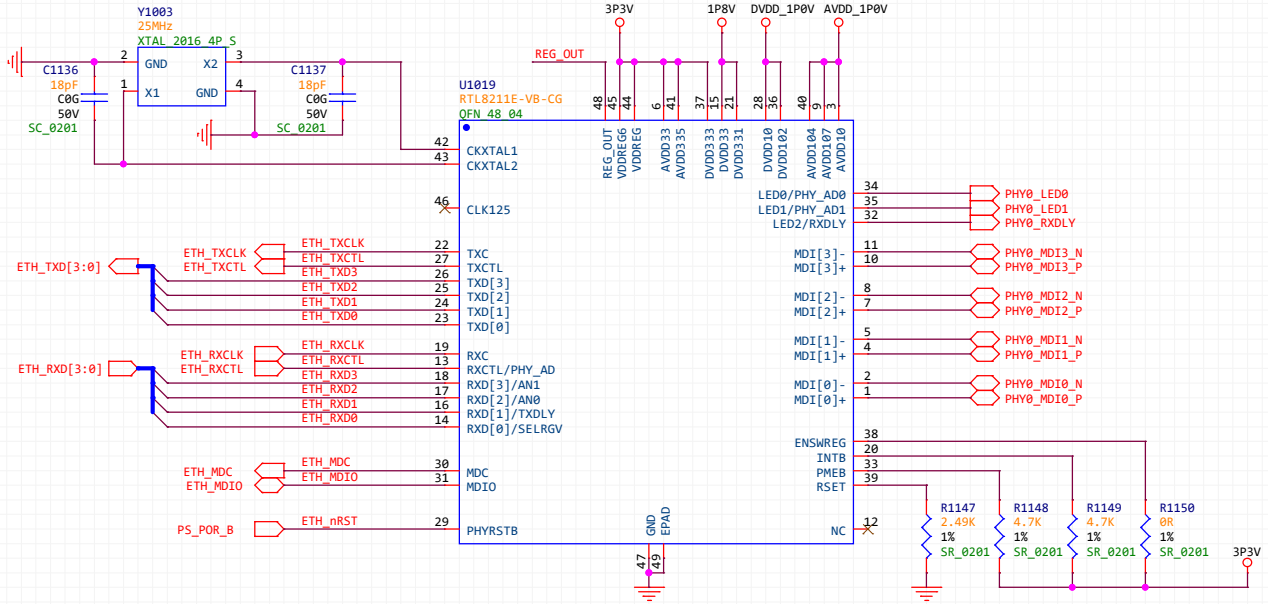
eMMC

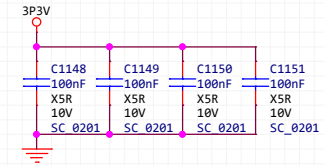

1P8V
R900 NC*/1K 1% SR_0402
R901 NC*/1K 1% SR_0402
R902 NC*/1K 1% SR_0402
R903 NC*/1K 1% SR_0402
R904 NC*/1K 1% SR_0402
R905 10K 1% SR_0402
U900A
KLMAG2GEAC
BGA153-20-1414-Enig
eMMC_DATA0
eMMC_DATA1
eMMC_DATA2
eMMC_DATA3
eMMC_CMD
eMMC_CLK
eMMC_RST
A3 DATA0
A4 DATA1
A5 DATA2
B2 DATA3
B3 DATA4
B4 DATA5
B5 DATA6
B6 DATA7
M5 CMD
M6 CLK
K5 RST_n
C2 VDDi
H5 Data Strobe
E9 VSF1
E10 VSF2
F10 VSF3
K10 VSF4
C6 VDD1
M4 VDD2
N4 VDD3
P3 VDD4
P5 VDD5
E6 VDDF1
F5 VDDF2
J10 VDDF3
K9 VDDF4
J5 VSS1
A6 VSS2
C4 VSS3
E7 VSS4
G5 VSS5
H10 VSS6
K8 VSSQ1
N2 VSSQ2
N5 VSSQ3
P4 VSSQ4
P6 VSSQ5
C905 4.7uF 10V X5R SC_0402
C906 1uF 10V X5R SC_0402
3P3V
C900 4.7uF 10V X5R SC_0402
C901 100nF 10V X5R SC_0402
1P8V
C902 4.7uF 10V X5R SC_0402
C903 100nF 10V X5R SC_0402
C904 100nF 10V X5R SC_0402

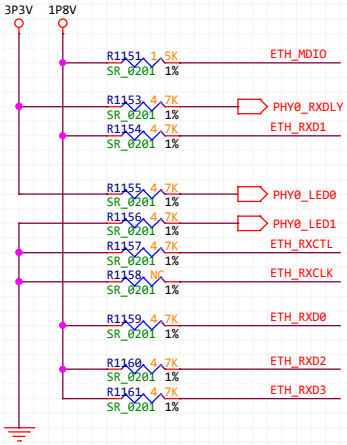
USB PHY


U1016
USB3320C-EZK-TR
P0_USB_D[7:0]
P0_USB_D0
P0_USB_D1
P0_USB_D2
P0_USB_D3
P0_USB_D4
P0_USB_D5
P0_USB_D6
P0_USB_D7
DATA[0]
DATA[1]
DATA[2]
DATA[3]
DATA[4]
DATA[5]
DATA[6]
DATA[7]
P0_USB_DIR
P0_USB_STP
P0_USB_NXT
P0_USB_CLK
DIR
STP
NXT
CLKOUT
Y1001 24MHz
XTAL_2016_4P_S
GND
X2
X1
GND
C1119
18pF
C0G
50V
SC_0201
C1120
18pF
C0G
50V
SC_0201
REFCLK
XO
RESETB
REFSEL[0]
REFSEL[1]
REFSEL[2]
GND
1P8V
R1088
4.7K
1%
SR_0201
D1000
BAS16XV2T1G
SOD523
PS_MIO8
C1122
100nF
10V
X5R
SC_0201
DP
DM
ID
VBUS
SPK_R
SPK_L
CPEN
NC
RBIAS
VDD18_1
VDD18_2
VDD33
VBAT
VDDIO
P0_USB_DP
P0_USB_DM
P0_USB_ID
R1085 10K 1% SR_0201
3P3V
R1086 10K 1% SR_0201
5P0V
R1089 8.06K 1% SR_0201
C1121 100nF 10V SC_0201 X5R
C1123 100nF 10V SC_0201 X5R
C1124 2.2uF 10V SC_0201 X5R
C1146
100nF
10V
X5R
SC_0201
C1147
100nF
10V
X5R
SC_0201

ETH PHY





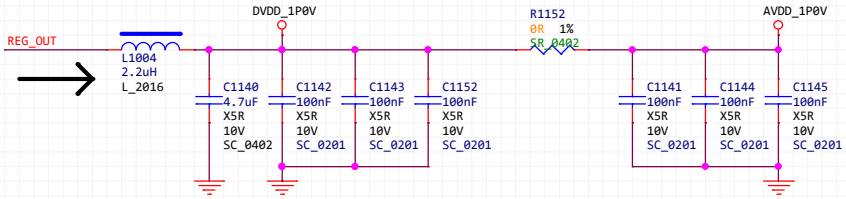


RGMII clock timing control

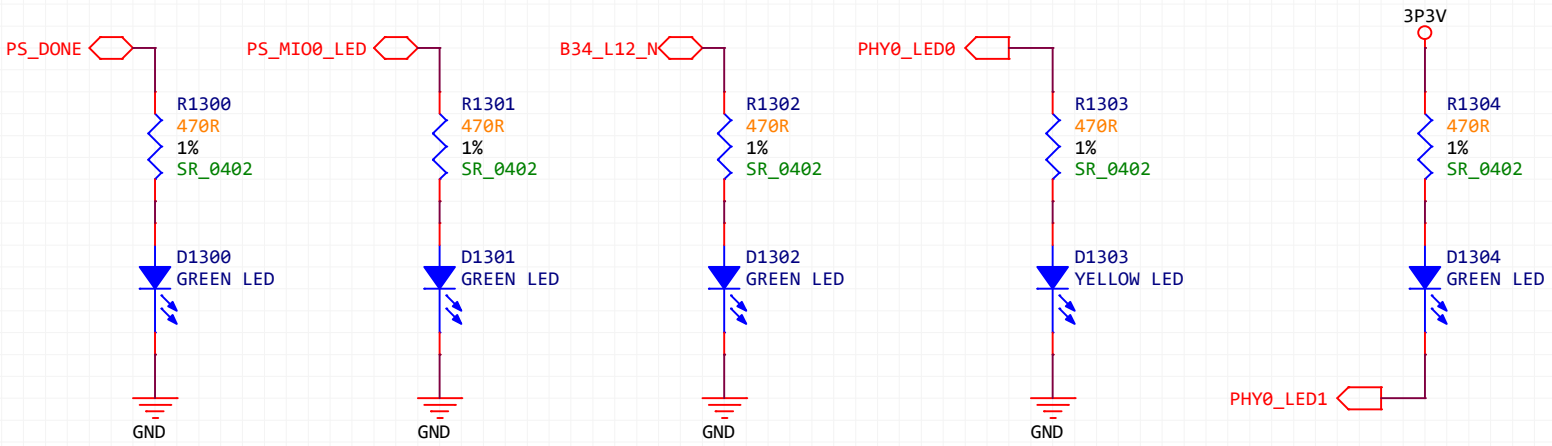
PHY Address is 0x01

Pull up for RGMII 1.8V

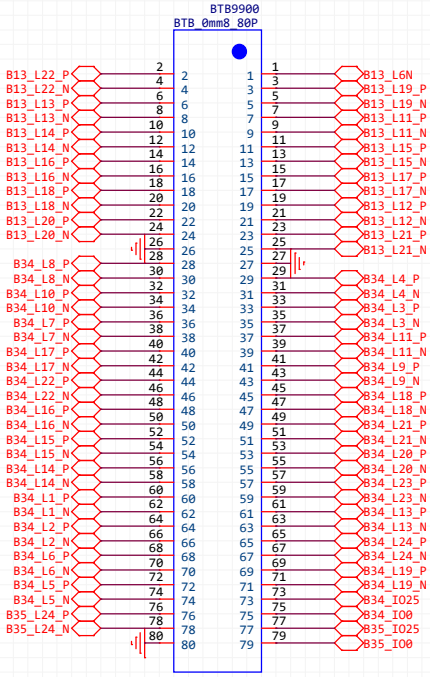
Nway,Advertise all capabilities

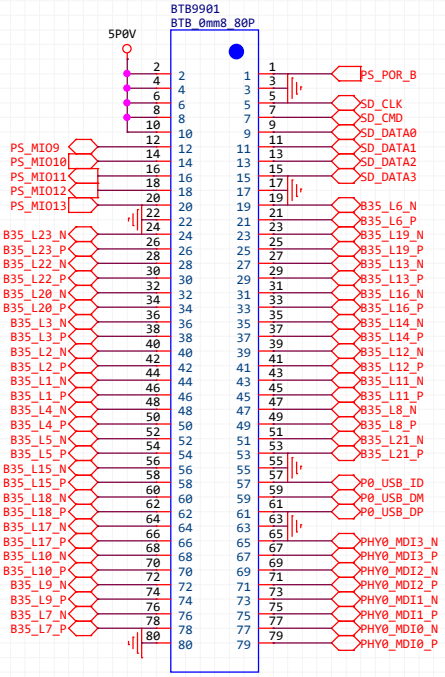


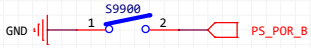
LED

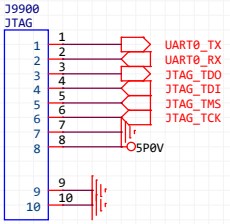

PS_DONE
R1300
470R
1%
SR_0402
D1300
GREEN LED
GND
PS_MIO0_LED
R1301
470R
1%
SR_0402
D1301
GREEN LED
GND
B34_L12_N
R1302
470R
1%
SR_0402
D1302
GREEN LED
GND
PHY0_LED0
R1303
470R
1%
SR_0402
D1303
YELLOW LED
GND
3P3V
R1304
470R
1%
SR_0402
D1304
GREEN LED
PHY0_LED1

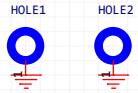
Connector


BTB9900
BTB_0mm8_80P
B13_L22_P
B13_L22_N
B13_L13_P
B13_L13_N
B13_L14_P
B13_L14_N
B13_L16_P
B13_L16_N
B13_L18_P
B13_L18_N
B13_L20_P
B13_L20_N
B34_L8_P
B34_L8_N
B34_L10_P
B34_L10_N
B34_L7_P
B34_L7_N
B34_L17_P
B34_L17_N
B34_L22_P
B34_L22_N
B34_L16_P
B34_L16_N
B34_L15_P
B34_L15_N
B34_L14_P
B34_L14_N
B34_L1_P
B34_L1_N
B34_L2_P
B34_L2_N
B34_L6_P
B34_L6_N
B34_L5_P
B34_L5_N
B35_L24_P
B35_L24_N
B13_L6N
B13_L19_P
B13_L19_N
B13_L11_P
B13_L11_N
B13_L15_P
B13_L15_N
B13_L17_P
B13_L17_N
B13_L12_P
B13_L12_N
B13_L21_P
B13_L21_N
B34_L4_P
B34_L4_N
B34_L3_P
B34_L3_N
B34_L11_P
B34_L11_N
B34_L9_P
B34_L9_N
B34_L18_P
B34_L18_N
B34_L21_P
B34_L21_N
B34_L20_P
B34_L20_N
B34_L23_P
B34_L23_N
B34_L13_P
B34_L13_N
B34_L24_P
B34_L24_N
B34_L19_P
B34_L19_N
B34_IO25
B34_IO0
B35_IO25
B35_IO0


BTB9901
BTB_0mm8_80P
5P0V
PS_MIO9
PS_MIO10
PS_MIO11
PS_MIO12
PS_MIO13
B35_L23_N
B35_L23_P
B35_L22_N
B35_L22_P
B35_L20_N
B35_L20_P
B35_L3_N
B35_L3_P
B35_L2_N
B35_L2_P
B35_L1_N
B35_L1_P
B35_L4_N
B35_L4_P
B35_L5_N
B35_L5_P
B35_L15_N
B35_L15_P
B35_L18_N
B35_L18_P
B35_L17_N
B35_L17_P
B35_L10_N
B35_L10_P
B35_L9_N
B35_L9_P
B35_L7_N
B35_L7_P
PS_POR_B
SD_CLK
SD_CMD
SD_DATA0
SD_DATA1
SD_DATA2
SD_DATA3
B35_L6_N
B35_L6_P
B35_L19_N
B35_L19_P
B35_L13_N
B35_L13_P
B35_L16_N
B35_L16_P
B35_L14_N
B35_L14_P
B35_L12_N
B35_L12_P
B35_L11_N
B35_L11_P
B35_L8_N
B35_L8_P
B35_L21_N
B35_L21_P
P0_USB_ID
P0_USB_DM
P0_USB_DP
PHY0_MDI3_N
PHY0_MDI3_P
PHY0_MDI2_N
PHY0_MDI2_P
PHY0_MDI1_N
PHY0_MDI1_P
PHY0_MDI0_N
PHY0_MDI0_P


S9900
GND
PS_POR_B


J9900
JTAG
UART0_TX
UART0_RX
JTAG_TDO
JTAG_TDI
JTAG_TMS
JTAG_TCK
5P0V


HOLE1
HOLE2