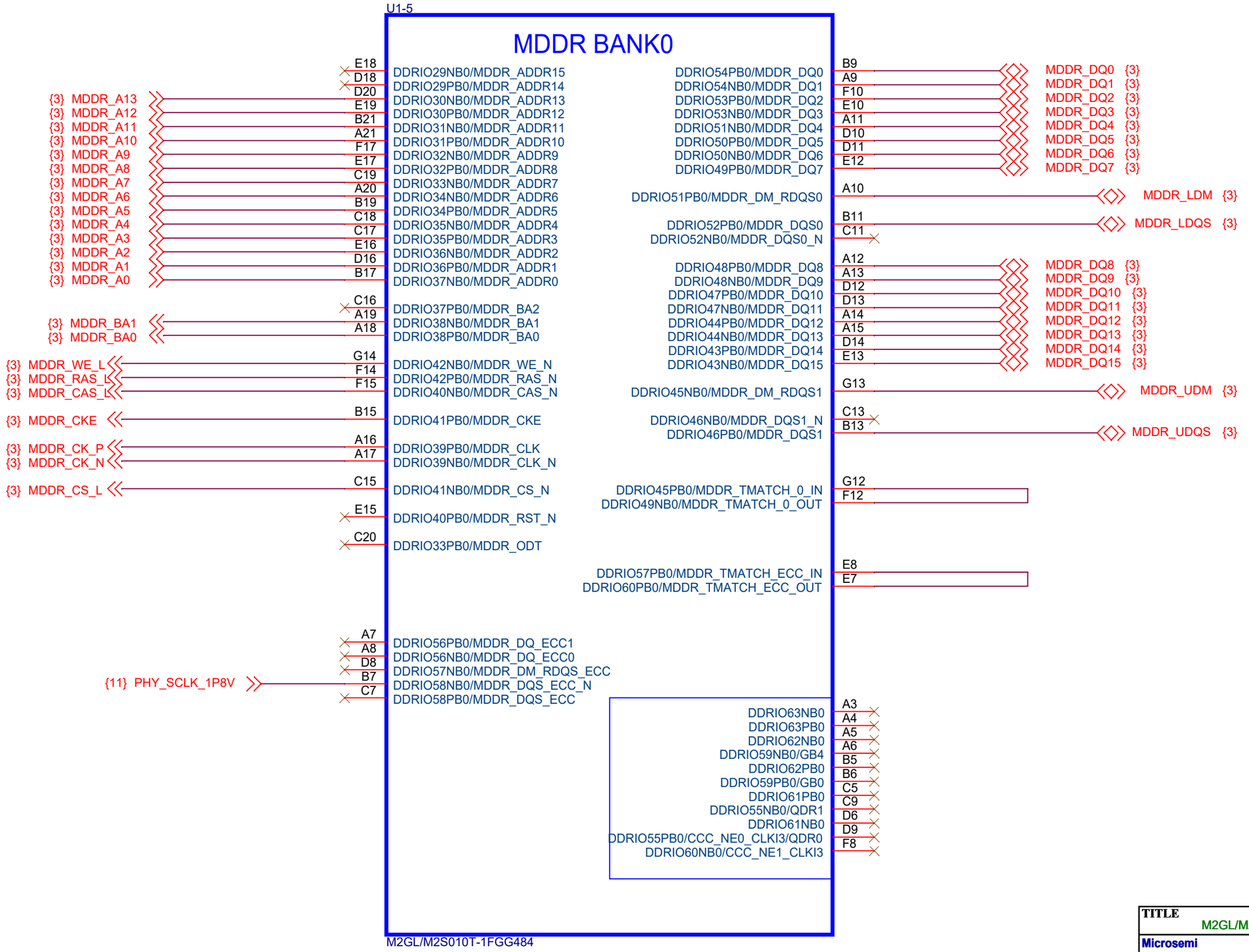
M2GL/M2S-EVAL-KIT

DVP-100-000402-002 RevF

Microsemi Corporation

TITLE: M2GL/M2S-EVAL-KIT		
Microsemi		
SIZE: B	DOCUMENT NO.	REV: F
DATE: Tuesday, May 09, 2023	SH 1 OF 21	

MDDR - BANK0 INTERFACES



TITLE: M2GL/M2S-EVAL-KIT		
Microsemi		
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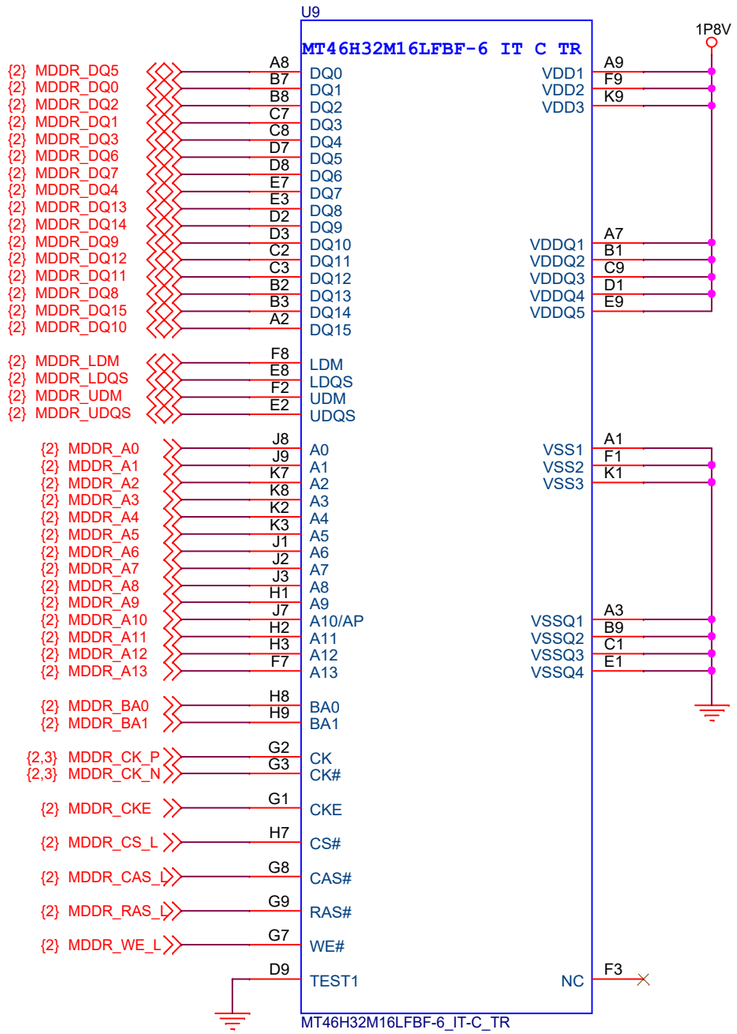
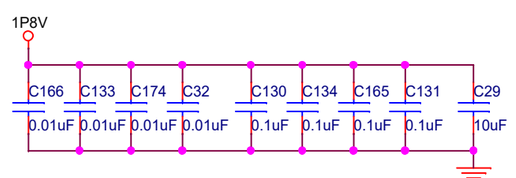
LPDDR MEMORY INTERFACE





TITLE: M2GL/M2S-EVAL-KIT		
Microsemi		
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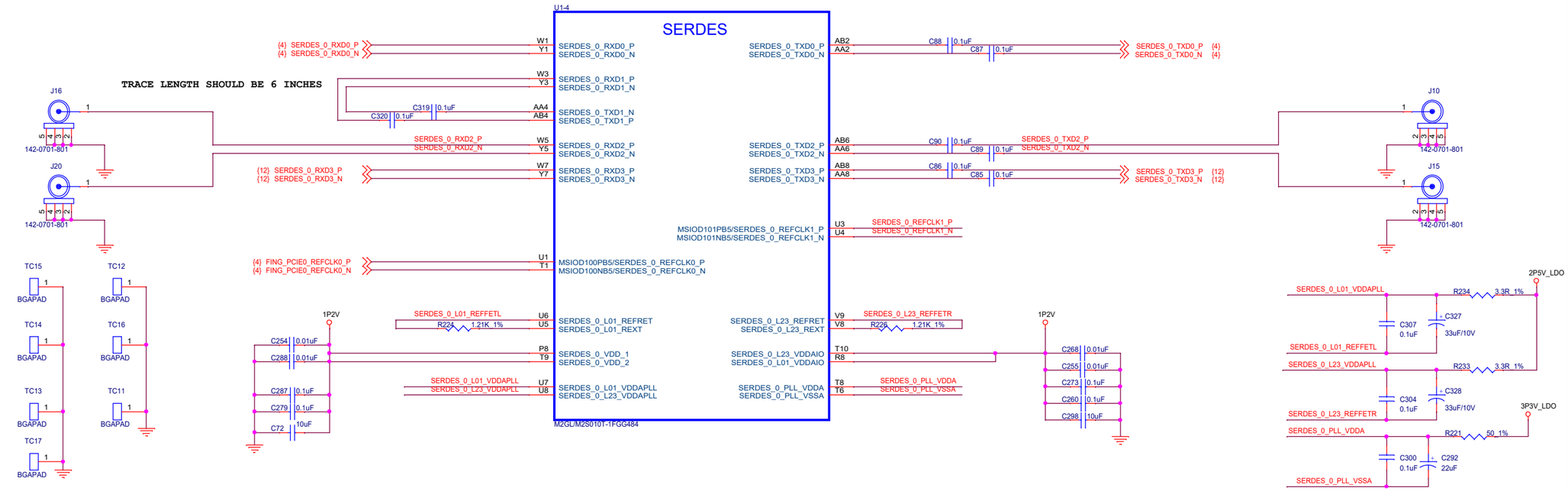
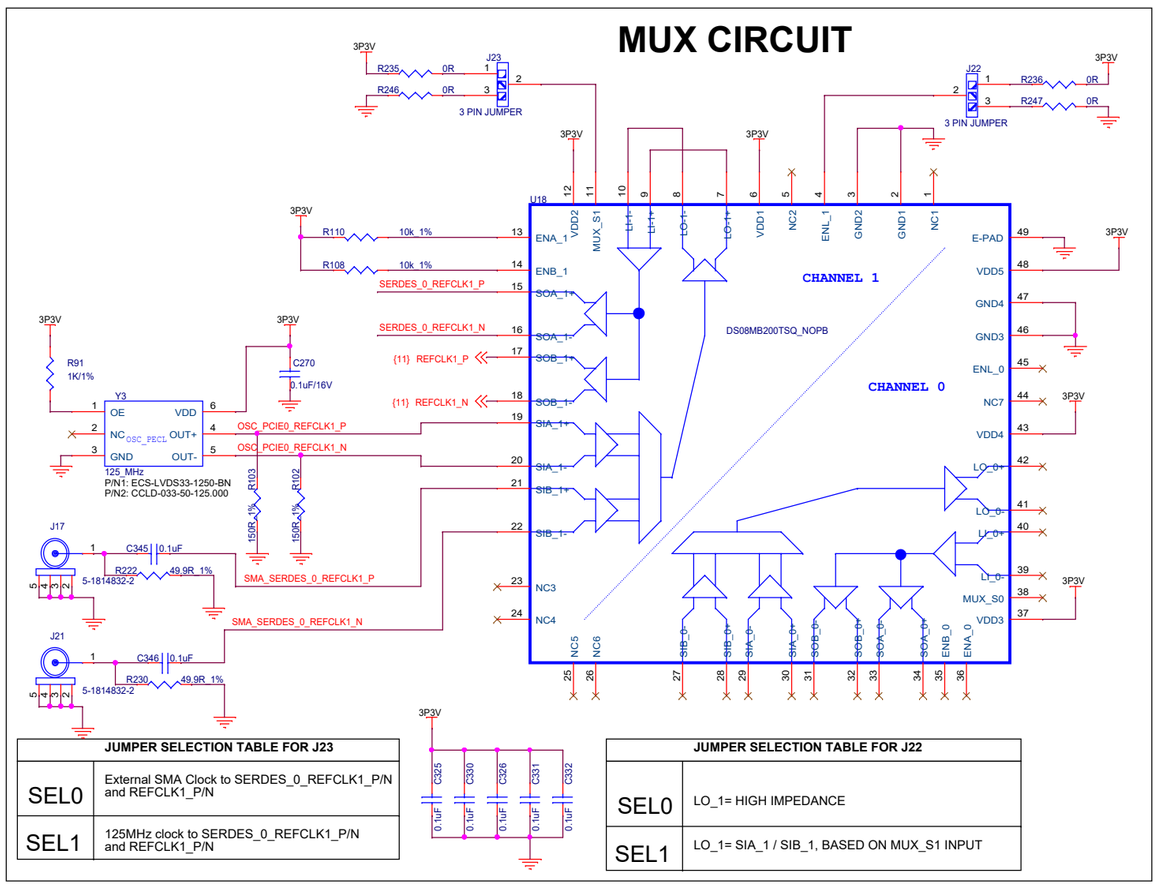
SERDES0 (PCIe & SMA INTERFACES)



MUX CIRCUIT



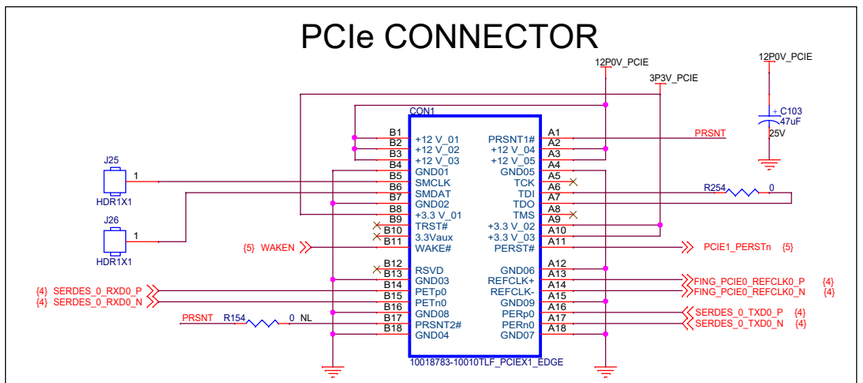
JUMPER SELECTION TABLE FOR J23

SEL0	External SMA Clock to SERDES_0_REFCLK1_P/N and REFCLK1_P/N
SEL1	125MHz clock to SERDES_0_REFCLK1_P/N and REFCLK1_P/N

JUMPER SELECTION TABLE FOR J22

SEL0	LO_1= HIGH IMPEDANCE
SEL1	LO_1= SIA_1 / SIB_1, BASED ON MUX_S1 INPUT

PCIe CONNECTOR



TITLE	M2GL/M2S-EVAL-KIT		
Microsemi			
SIZE C	DOCUMENT NO.		REV F
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BANK1 & BANK2 CONNECTIONS

U1-9

BANK 1

MSIO22NB1/MMUART_1_RXD/GPIO_26_B/USB_DATA3_C	G18	MMUART_1_RXD {14}
MSIO21NB1/MMUART_1_TXD/GPIO_24_B/USB_DATA2_C	H19	MMUART_1_TXD {14}
MSIO21PB1/GB5/USB_XCLK_C	H20	
MSIO22PB1/GB6/MMUART_1_CLK/GPIO_25_B/USB_DATA4_C	G19	
MSIO23PB1/MMUART_0_RTS/GPIO_17_B/USB_DATA5_C	F21	ETM_TRACECLK {13}
MSIO23NB1/MMUART_0_DTR/GPIO_18_B/USB_DATA6_C	F20	ETM_TRACEDATA0 {13}
MSIO24PB1/MMUART_0_CTS/GPIO_19_B/USB_DATA7_C	F19	ETM_TRACEDATA1 {13}
MSIO24NB1/MMUART_0_DSR/GPIO_20_B	F18	ETM_TRACEDATA2 {13}
MSIO25PB1/MMUART_0_RI/GPIO_21_B	E22	ETM_TRACEDATA3 {13}
MSIO25NB1/MMUART_0_DCD/GPIO_22_B	E21	WAKEN {4}
MSI26NB1/MMUART_0_TXD/GPIO_27_B/USB_DIR_C	D21	
MSIO27PB1/MMUART_0_RXD/GPIO_28_B/USB_STP_C	C22	
MSIO27NB1/MMUART_0_CLK/GPIO_29_B/USB_NXT_C	B22	MSIO27PB1 {7}
		MSIO27NB1 {7}
MSIO28NB1/I2C_0_SCL/GPIO_31_B/USB_DATA1_C	G16	I2C0_SCL {8}
MSIO28PB1/I2C_0_SDA/GPIO_30_B/USB_DATA0_C	G17	I2C0_SDA {8}

NC_30	G21	
NC_31	G22	
NC_32	H21	
NC_33	H22	
NC_34	J19	
NC_35	J20	

M2GL/M2S010T-1FGG484

U1-8

BANK 2

{8} SPI_SCK	N19	MSIO12PB2/SPI_0_CLK/USB_XCLK_A
{8} SPI_SDI	N20	MSIO12NB2/SPI_0_SDI/GPIO_5_A/USB_DIR_A
{8} SPI_SDO	N21	MSIO13PB2/SPI_0_SDO/GPIO_6_A/USB_STP_A
{8} SPI_SS	N22	MSIO13NB2/SPI_0_SS0/GPIO_7_A/USB_NXT_A
{8} SPI_WP	L16	MSIO18PB2/SPI_0_SS1/GPIO_8_A/USB_DATA5_A
{8} SPI_RESET	K15	MSIO18NB2/SPI_0_SS2/GPIO_9_A/USB_DATA6_A
MSIO7PB3_K17	K17	MSIO19PB2/SPI_0_SS3/GPIO_10_A/USB_DATA7_A
MSIO7NB3_P16	P16	MSIO7NB2/CAN_TX/GPIO_2_A/USB_DATA0_A
	N16	MSIO8PB2/CAN_RX/GPIO_3_A/USB_DATA1_A
	N17	MSIO8NB2/CAN_TX_EN_N/GPIO_4_A/USB_DATA2_A
{4} PCIE1_PERSTn	P18	MSIO6NB2
	U19	MSIO0PB2

MSIO3PB2/USB_DATA0_B	V22	USB_DATA0 {10}
MSIO3NB2/USB_DATA1_B	V21	USB_DATA1 {10}
MSIO4PB2/USB_DATA2_B	U22	USB_DATA2 {10}
MSIO4NB2/USB_DATA3_B	U21	USB_DATA3 {10}
MSIO5PB2/USB_DATA4_B	T20	USB_DATA4 {10}
MSIO5NB2/USB_DATA5_B	T21	USB_DATA5 {10}
MSIO6PB2/USB_DATA6_B	P17	USB_DATA6 {10}
MSIO0NB2/USB_DATA7_B	V19	USB_DATA7 {10}
MSIO1NB2/USB_DIR_B	R18	USB_DIR {10}
MSIO1PB2/USB_XCLK_B	R17	USB_CLKOUT {10}
MSIO2NB2/USB_NXT_B	T19	USB_NXT {10}
MSIO2PB2/USB_STP_B	T18	USB_STP {10}
MSIO7PB2	R16	
		MSIO7PB3_R16

MSIO11NB2/CCC_NE0_CLKI2/I2C_1_SCL/GPIO_1_A/USB_DATA4_A	R22	I2C1_SCL {8}
MSIO11PB2/CCC_NE0_CLKI1/I2C_1_SDA/GPIO_0_A/USB_DATA3_A	P22	I2C1_SDA {8}

J22		
K22	NC_29	
M16	NC_30	
M17	NC_31	
M18	NC_32	
M19	NC_33	
	NC_34	

M2GL/M2S010T-1FGG484

MSIO15NB2/SPI_1_SS0/GPIO_13_A	L20	SPI_1_SS0
MSIO19NB2/SPI_1_SS1/GPIO_14_A	K16	SWITCH2 {15}
MSIO20PB2/SPI_1_SS2/GPIO_15_A	K18	SWITCH3 {15}
MSIO20NB2/SPI_1_SS3/GPIO_16_A	J18	SWITCH4 {15}
MSIO16PB2/SPI_1_SS4/GPIO_17_A	L19	DIP1 {15}
MSIO16NB2/SPI_1_SS5/GPIO_18_A	L18	DIP2 {15}
MSIO17PB2/SPI_1_SS6/GPIO_23_A	K21	DIP3 {15}
MSIO17NB2/SPI_1_SS7/GPIO_24_A	K20	DIP4 {15}
MSIO14NB2/SPI_1_SDI/GPIO_11_A	M22	
MSIO15PB2/SPI_1_SDO/GPIO_12_A	L21	
MSIO14PB2/SPI_1_CLK	M21	

SPI_1_CLK	R390	22R 1%
SPI_1_SDO		
SPI_1_SDI		

Place close to FPGA

SPI_1_SS0	1	J37
MSIO7NB3_P16	2	SWITCH1 {15}
	3	

3 PIN JUMPER

1	
2	
3	J38

HEADER 3

Header	Default POS
J37	2-1

MSIO7PB3_K17	1	J40
MSIO7PB3_R16	2	USB_RESET {10}
	3	

3 PIN JUMPER

Default Jumper at pin 2 and 3

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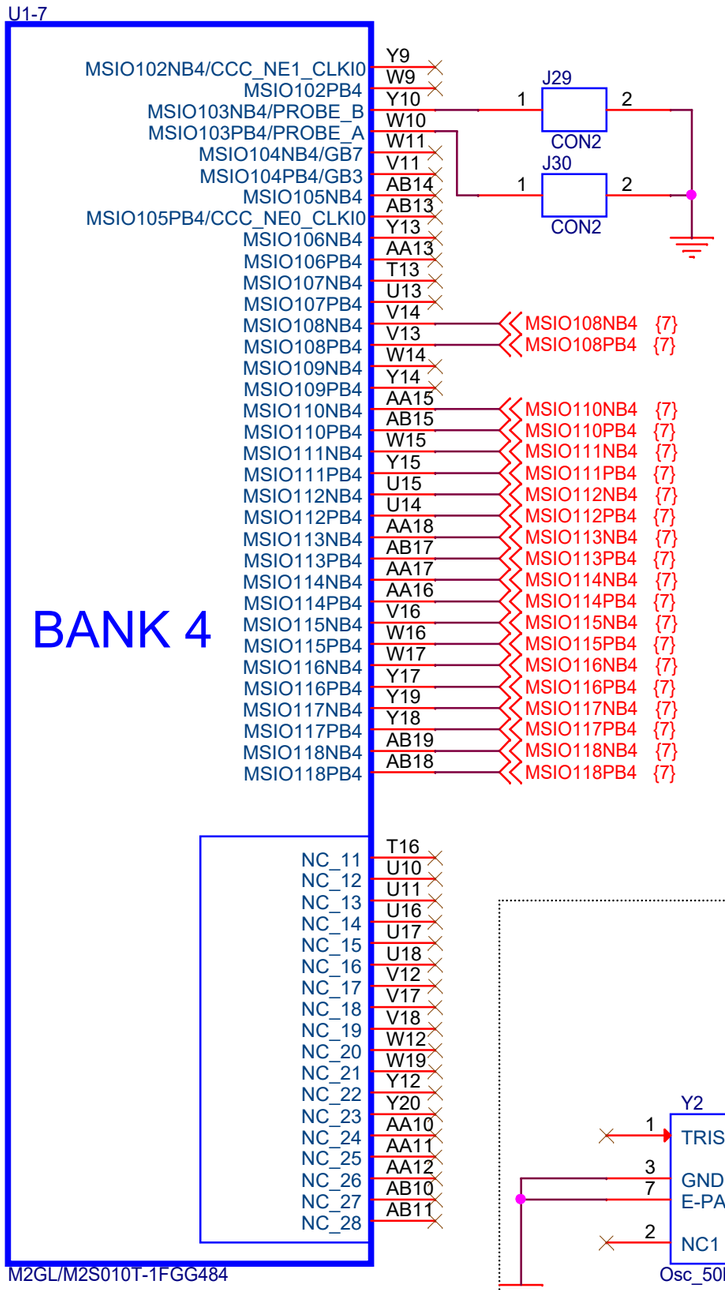
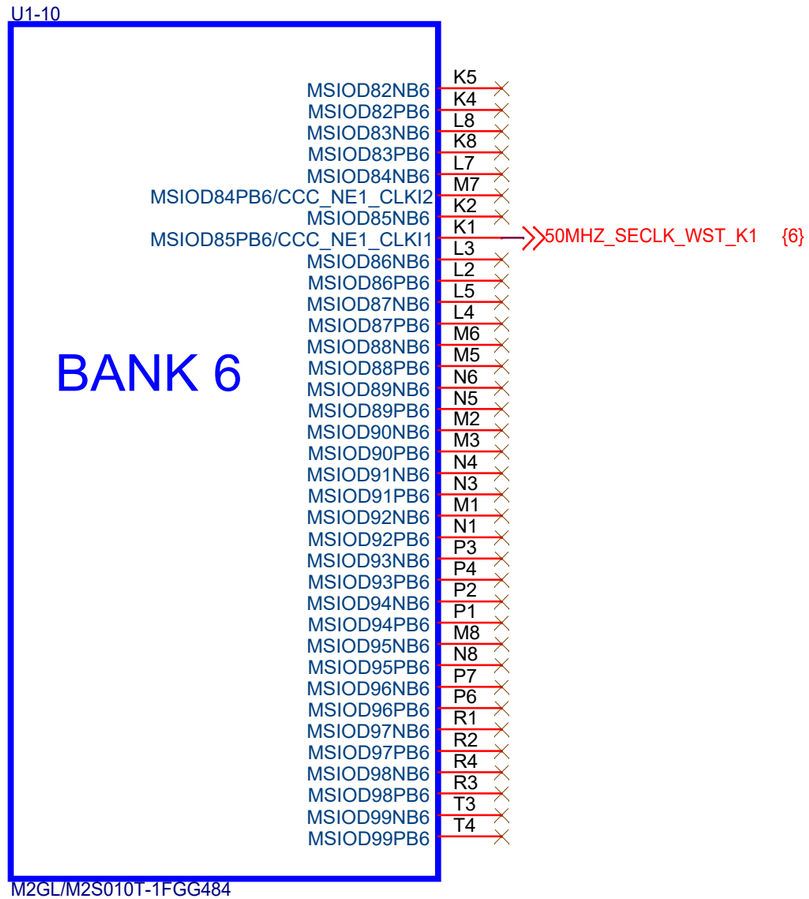
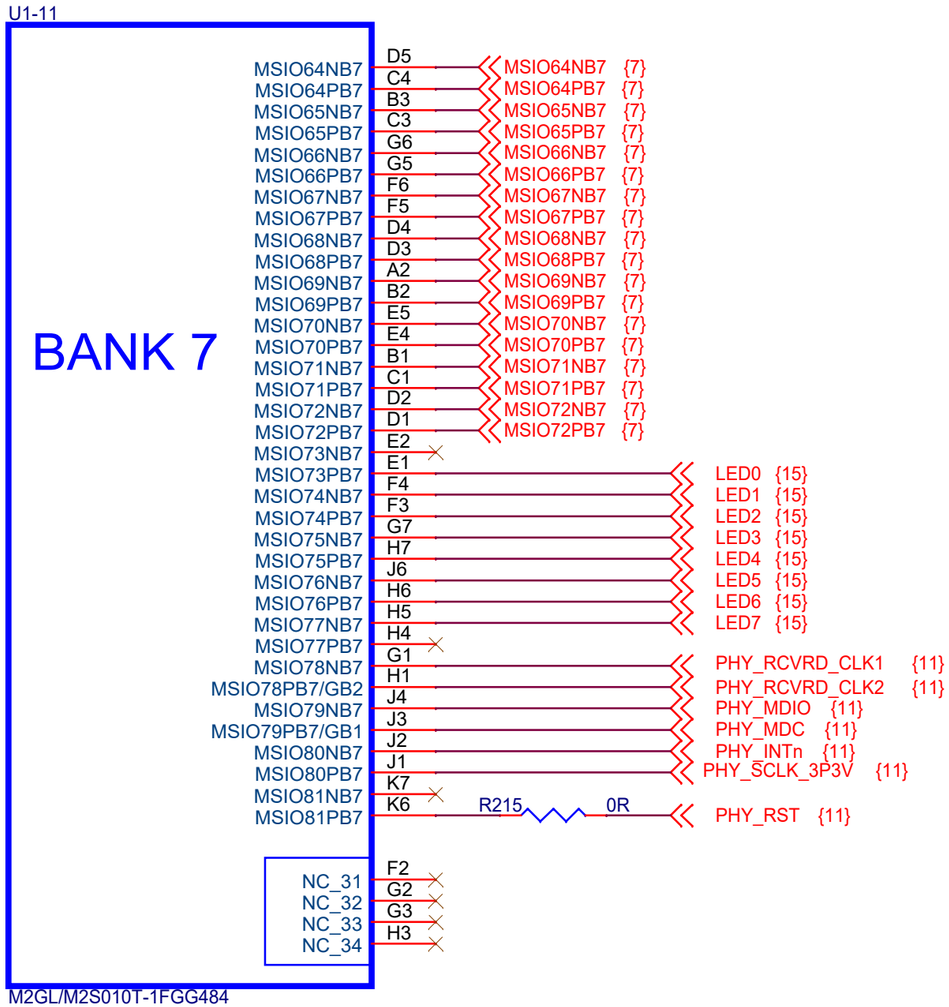
BANK 4, 6 and 7 CONNECTIONS







TITLE: M2GL/M2S-EVAL-KIT		
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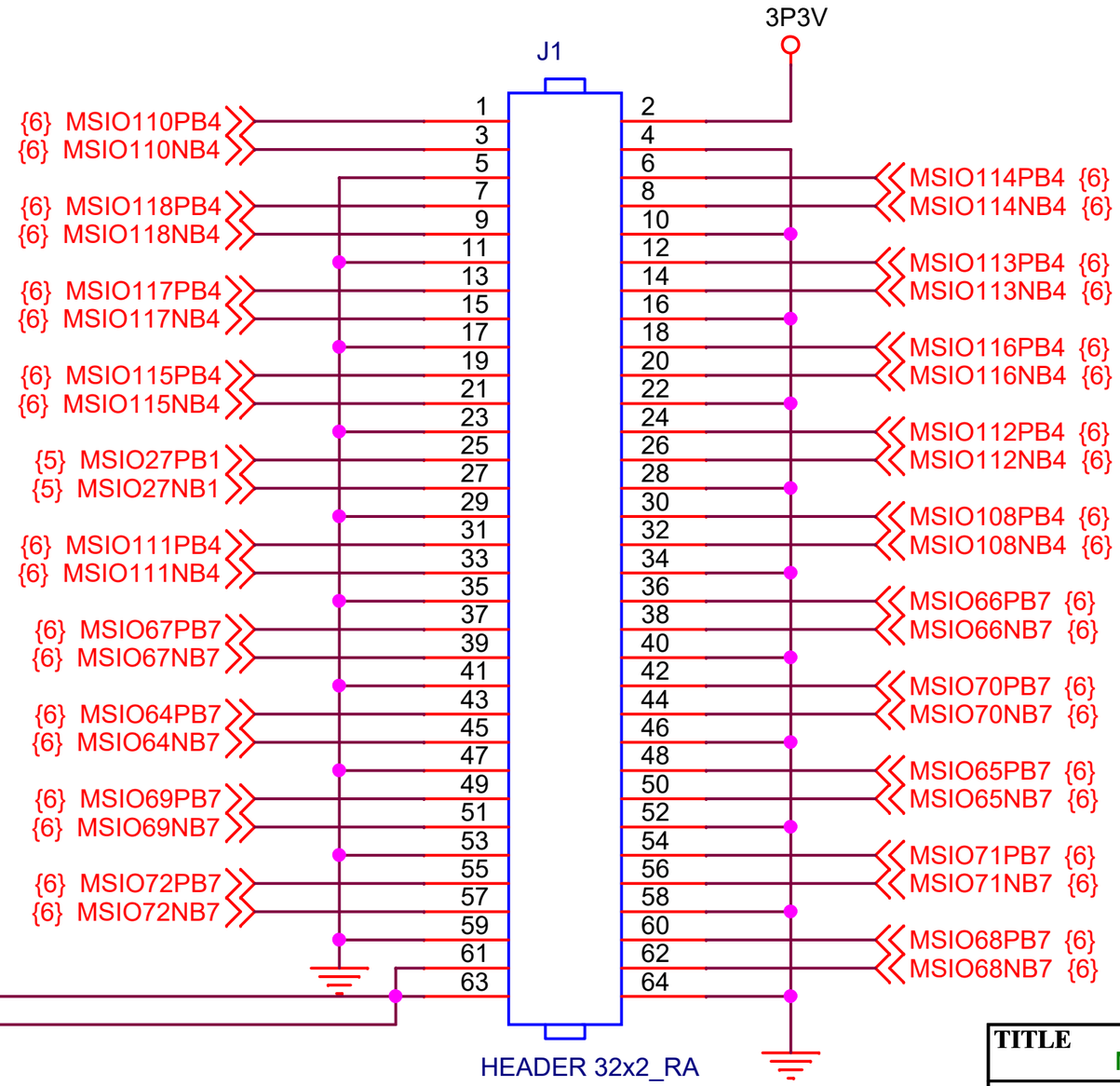
GPIO HEADER



MANUFACTURER P/N = TSW-132-08-T-D-RA
MANUFACTURER = Samtec

MATING RECEPTACLE P/N: SSW-132-02-S-D-RA
MANUFACTURER: Samtec

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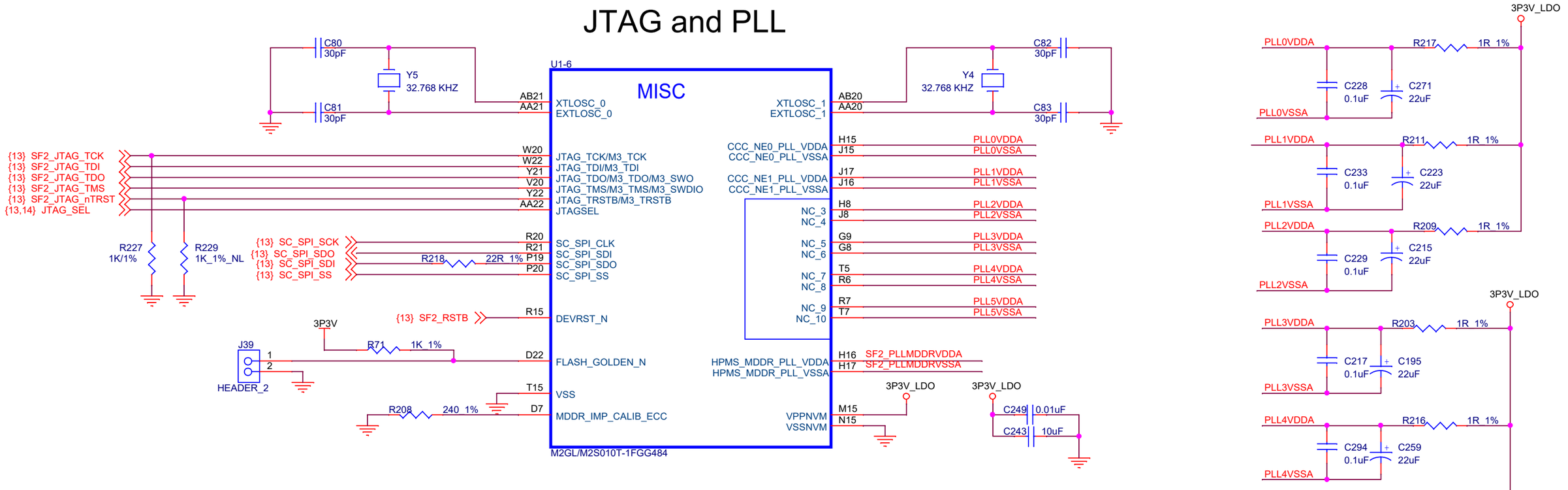
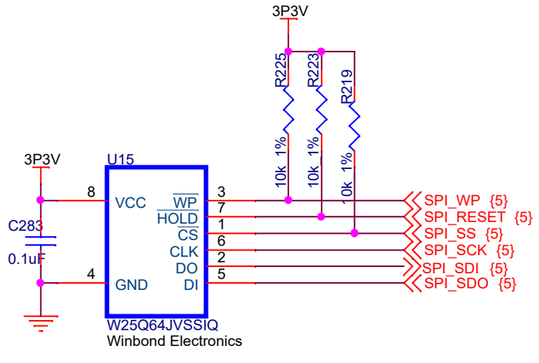
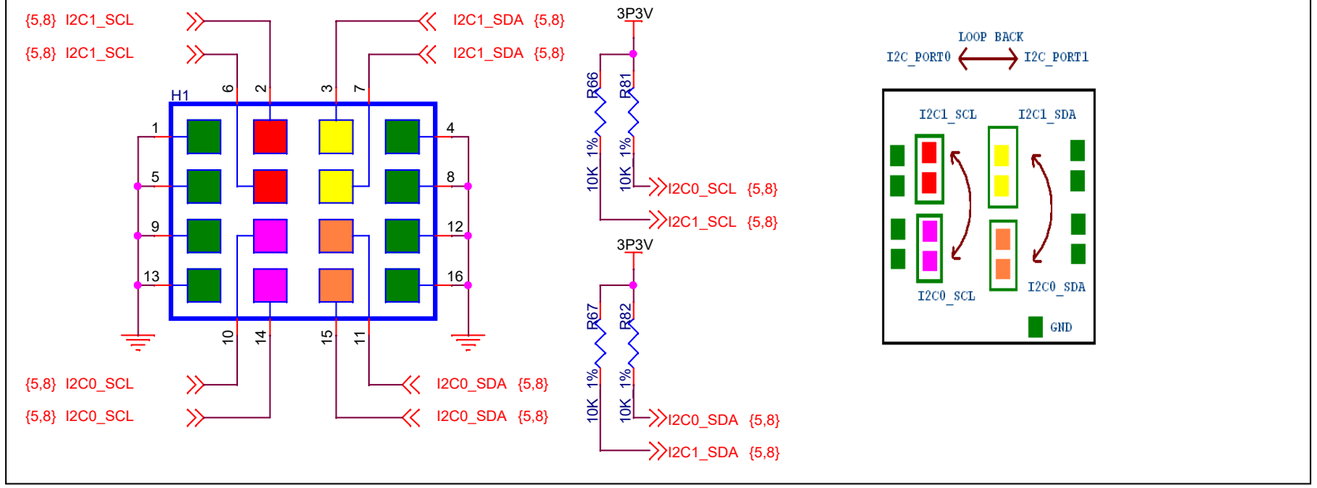
JTAG and PLL



SPI FLASH INTERFACE



I2C PORT HEADER



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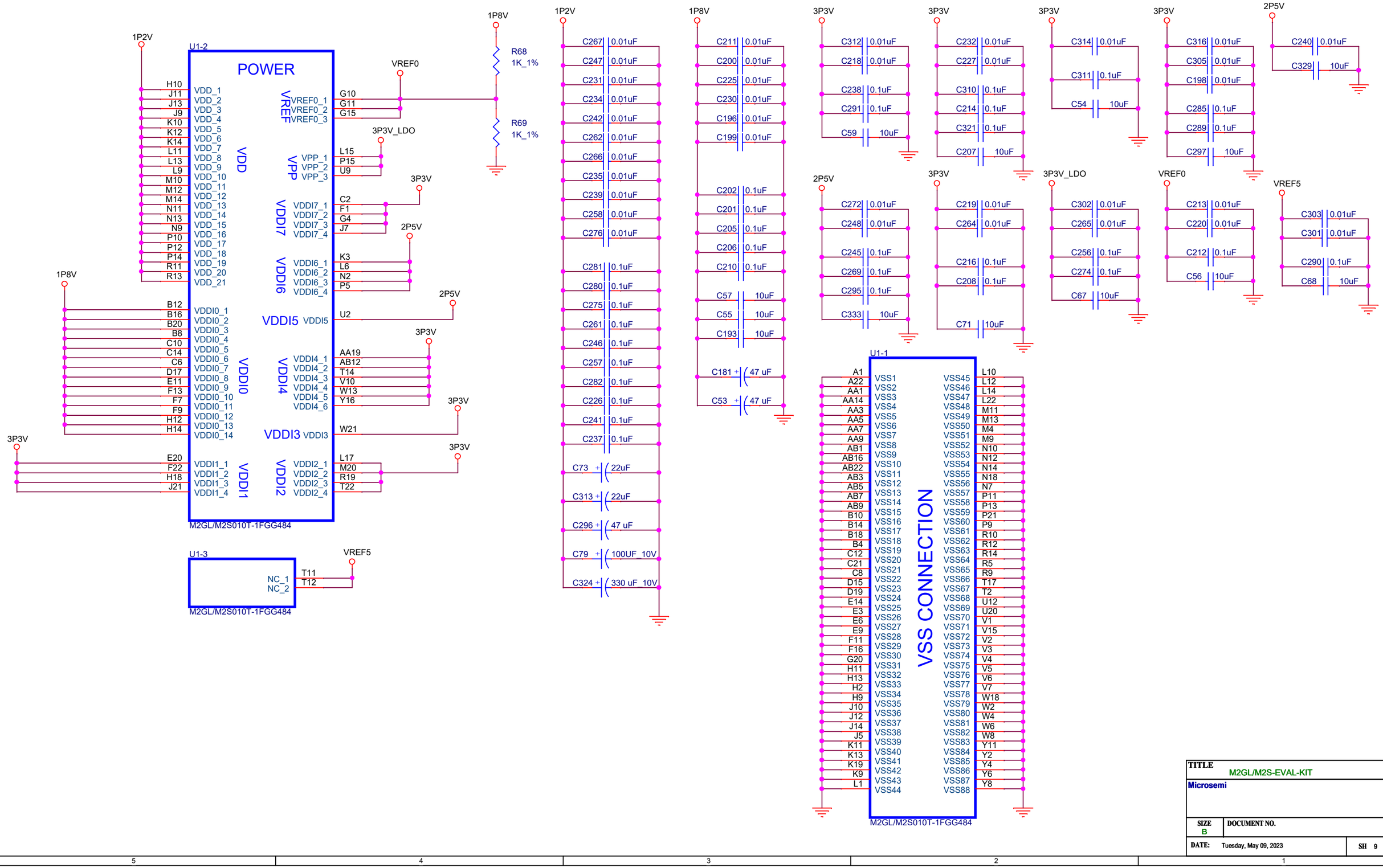
SF2-POWER, GND AND DECOUPLING CAPACITORS



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SIZE B	DOCUMENT NO.
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USB Interface

Schematic shows 26.0 MHz Configuration.
REFCLK[2:0] = 110

VBUS SWITCH

U20 — USB3320_QFN32
USB3320C-EZK
SMSC

U26 — CRY_26
403C35E26M00000
CTS-Frequency Controls

U25 — 74LVC1G04

U19 — MAX1823B
MAX1823BEUB+
Maxim Integrated Products

P1 — USB_MICRO_AB_RECEP
629105150921
Wurth Elektronik

CR4, CR3 — PGB1010603MR

J24 — HEADER_2

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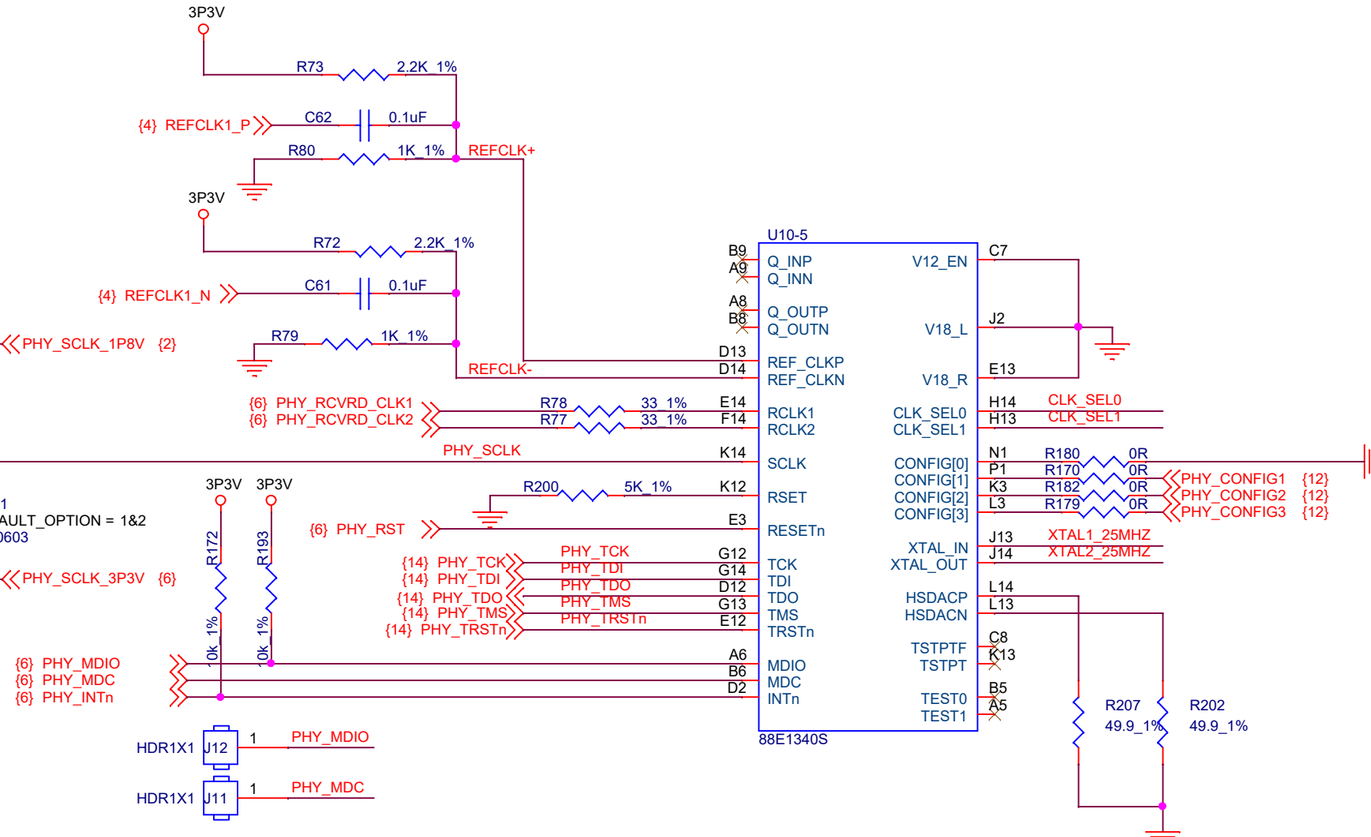
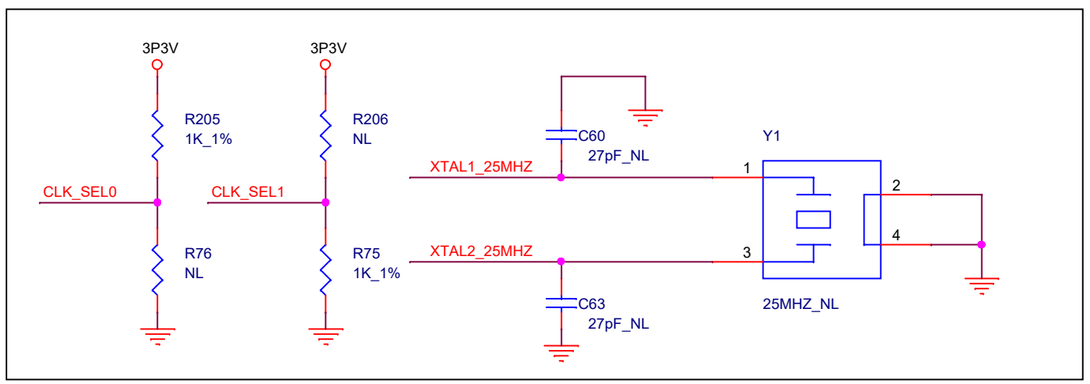
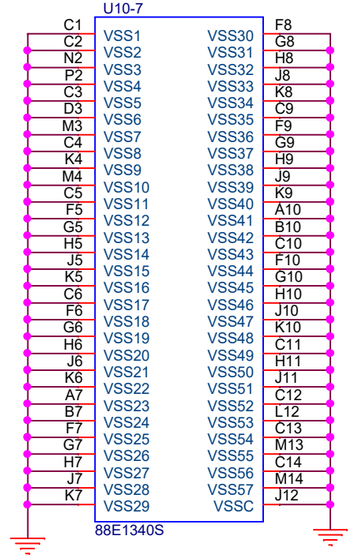
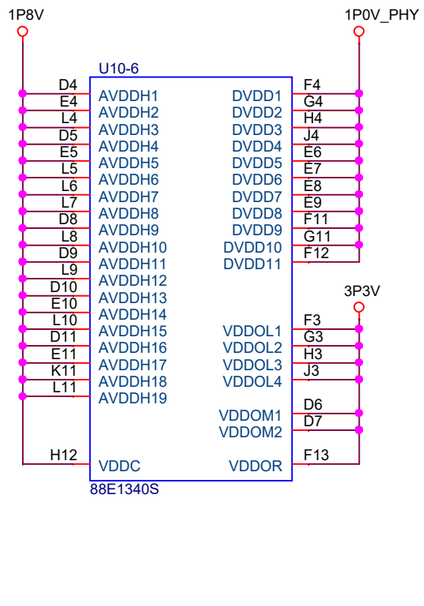
MARVELL PHY INTERFACE

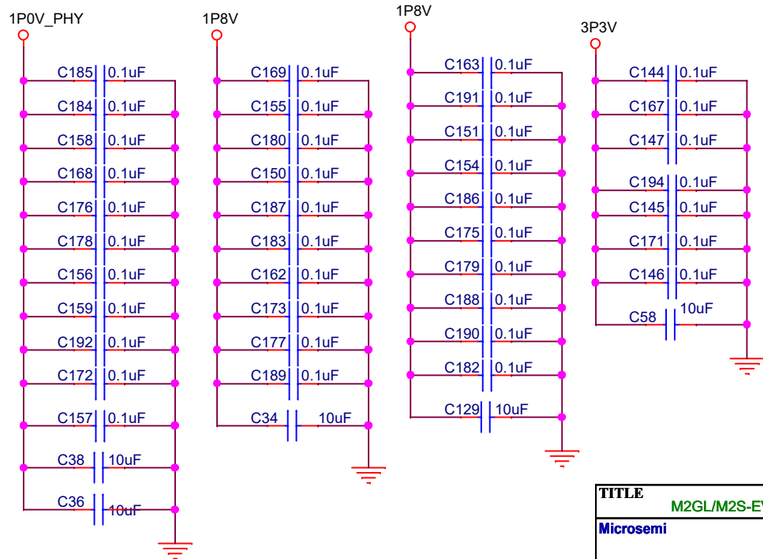
need to check voltage swing level











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Microsemi		
SIZE: B	DOCUMENT NO.	REV: F
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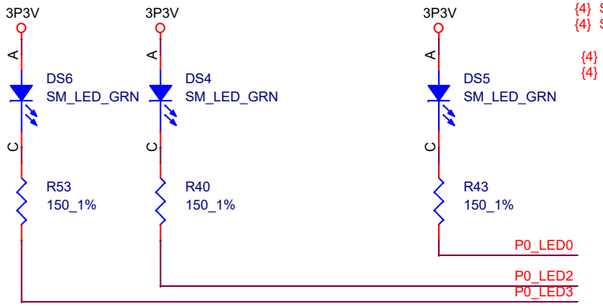
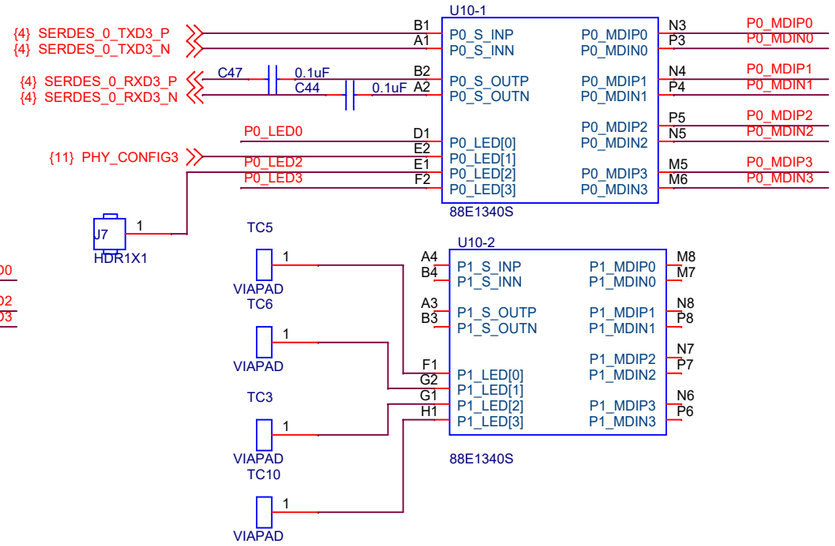
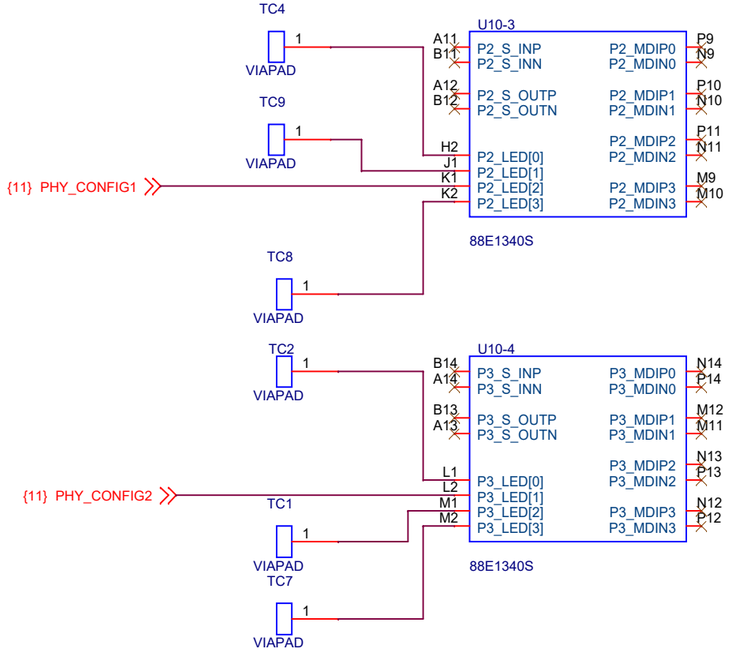
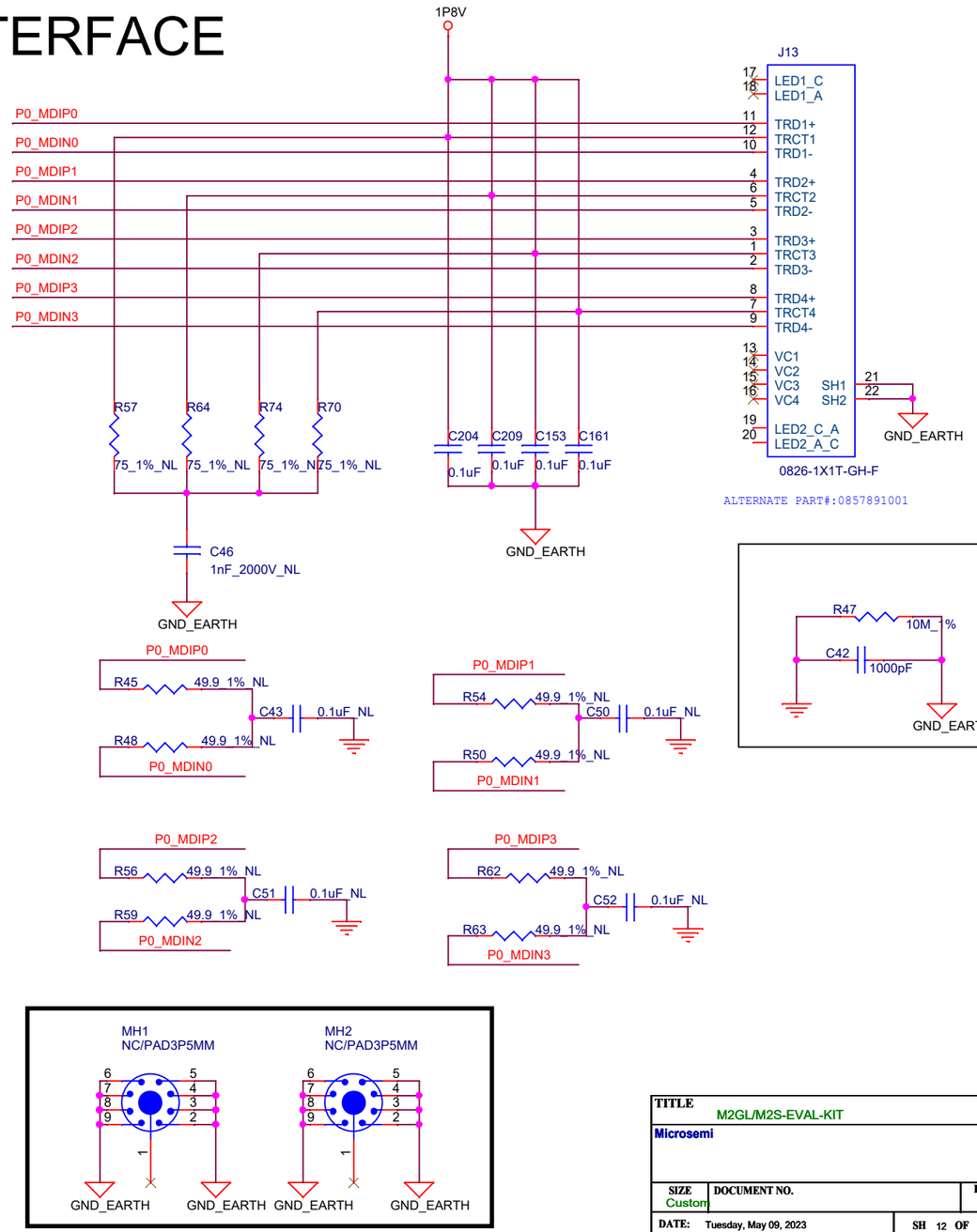
MARVELL PHY - RJ45 INTERFACE









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PROGRAMMING CIRCUITRY

SC SPI Header

J34
HEADER 4
SC_SPI_HDR_SS
SC_SPI_HDR_SCK
SC_SPI_HDR_SDO
SC_SPI_HDR_SDI
FTDI_SPI_SS
FTDI_SPI_SCK
FTDI_SPI_SDO
FTDI_SPI_SDI
U164
IDTQS3VH257STG8
SC_SPI_SS {8}
SC_SPI_SCK {8}
SC_SPI_SDO {8}
SC_SPI_SDI {8}
R382 0R
J32
3 PIN JUMPER
R384 0R
R383 0R
C826 0.1uF
3P3V

H PATH 1 - Programming Through FTDI SPI
L- PATH 0 - Programming Through SC_SPI Header

TO FPGA SC_SPI

FROM FTDI
{14} FTDI_SS_TMS
{14} FTDI_SCK_TCK
{14} FTDI_SDO_TDI
{14} FTDI_SDI_TDO
U163
MC74VHC125DTR2G
R381 0R
C824 0.1uF/16V
U33
IDTQS3VH257STG8
C825 0.1uF/16V
R275 0R
J31
3 PIN_JUMPER
R274 0R
R273 0R
FTDI_SPI_SS
FTDI_TMS
FTDI_SPI_SCK
FTDI_TCK
FTDI_SPI_SDO
FTDI_TDI
FTDI_SPI_SDI
FTDI_TDO

H-FTDI_PortA-FTDI JTAG Programming
L-FTDI_PortA-FTDI SPI Slave programming

TRACE ETM HEADER

J9
ETM HEADER
SHF-110-01-L-D-SM
Samtec Inc
C170 0.1uF
RVI_TMS
RVI_TCK
RVI_TDO
RVI_TDI
SF2_RSTB {8,13}
ETM_TRACECLK {5}
ETM_TRACEDATA0 {5}
ETM_TRACEDATA1 {5}
ETM_TRACEDATA2 {5}
ETM_TRACEDATA3 {5}

RVI HEADER

J4
HEADER 10X2
MANUFACTURER P/N = HTST-110-01-L-DV
MANUFACTURER = Samtec
C33 0.1uF
RVI_nTRST
RVI_TDI
RVI_TMS
RVI_TCK
RVI_TDO
SF2_RSTB {8,13}
R37 10K_1%
R36 10K_1%
R35 10K_1%

MUX D

U165
IDTQS3VH257STG8
C828 0.1uF
RVI_TMS
FTDI_FP4_TMS
RVI_TCK
FTDI_FP4_TCK
RVI_TDI
FTDI_FP4_TDI
RVI_TDO
FTDI_FP4_TDO
JTAG_SEL
{8,13,14} JTAG_SEL
OEb_E
R386 0R
SF2_JTAG_TMS {8}
SF2_JTAG_TCK {8}
SF2_JTAG_TDI {8}
SF2_JTAG_TDO {8}

TO FPGA JTAG

RESET

LED1
SM_LED_GRN
R13 499_1%
R9 10k_1%
R14 39_1%
RST
SW6
PTS645SL43-2 LFS
U3
DS1818
DS1818R-5+T&R
Maxim Integrated Products
C119 0.1uF
C6 1uF
SF2_RSTB {8,13}
U5
TPS3808G09DBVR
C123 0.1uF
R159 10k_1%
C8 0.1uF
R15 0
R12 50K_1%_NL
C12 0.018uF

FP4 HEADER

J5
FP4
C124 0.1uF
C128 0.1uF
FP4_TRST
FP4_TCK
FP4_TDO
FP4_TMS
FP4_TDI
R160 1K/1%
Mfr P/N :HTST-105-01-L-DV-A
Mfr: Samtec Inc
U27
IDTQS3VH257STG8
C49 0.1uF
FTDI_TMS
FTDI_TCK
FTDI_TDI
FTDI_TDO
FP4_TMS
FP4_TCK
FP4_TDI
FP4_TDO
FTDI_FP4_TMS
FTDI_FP4_TCK
FTDI_FP4_TDI
FTDI_FP4_TDO
SEL
OEb_D
R198 0R
J35
3 PIN JUMPER
R387 0R
R388 0R

H PATH 1 - Programming Through FP4 HEADER
L- PATH 0 - Programming Through FTDI JTAG

U28
IDTQS3VH257STG8
C203 0.1uF
{14} FTDI_TRST
FP4_TRST
FP4_TRST_MUX

U166
IDTQS3VH257STG8
C827 0.1uF
RVI_nTRST
FP4_TRST_MUX
SF2_JTAG_nTRST {8}
{8,13,14} JTAG_SEL
OEb_E

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Microsemi			
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FT4232H CIRCUITRY

3.3V LDO

VCC_BUS — L4 600Ohm/0.5A/0.3Ohm HZ0805E601R-10 — 5V0_FT

C64 0.01uF; C66 4.7uF; C236 0.1uF; R253 10K_1%

U12 MCP1726T-3302E/SN
- 1 VIN_1
- 2 VIN_2
- 3 SHDN
- 4 GND
- 5 PWRGD
- 6 CDELAY
- 7 VOUT_7
- 8 VOUT_8

R163 100K_1%; C5 0.1uF; C263 1uF; C222 1000pF

3P3V_FT

VSHD#_Hi = 0.485V min

3P3V_FT — L9 600Ohm/0.5A/0.3Ohm HZ0805E601R-10

3P3V_FT — L8 600Ohm/0.5A/0.3Ohm HZ0805E601R-10

C299 4.7uF; C278 4.7uF; C306 0.1uF; C277 0.1uF

1P8V_FT — C252 0.1uF; C308 0.1uF; C309 0.1uF

3P3V_FT — C322 0.1uF; C293 0.1uF; C323 0.1uF; C251 0.1uF

J8 4PIN JUMPER
- {8,13} JTAG_SEL
- 1 R52 0R — 3P3V
- 2
- 4 CD1
- 3 R41 0R

3P3V_FT; 1P8V_FT; 3P3V_FT

U14
- 4 VPHY
- 9 VPLL
- 12 VCORE_1
- 37 VCORE_2
- 64 VCORE_3
- 20 VCCIO_1
- 31 VCCIO_2
- 42 VCCIO_3
- 56 VCCIO_4
- 50 VREGIN
- 49 VREGOUT
- 7 DM
- 8 DP
- 6 REF
- 14 RESET#
- 63 EECS
- 62 EECLK
- 61 EEDATA
- 2 OSCI
- 3 OSCO
- 13 TEST
- 10 AGND
- 1 GND_1
- 5 GND_2
- 11 GND_3
- 15 GND_4
- 25 GND_5
- 35 GND_6
- 47 GND_7
- 51 GND_8

FT4232H

C250 0.1uF; C253 3.3uF

SCK AD0	R105 22R_1%		FTDI_SCK_TCK {13}	TO DUT SPI/JTAG INTERFACE
SDO AD1	R111 0R		FTDI_SDO_TDI {13}	
SDI AD2	R112 0R		FTDI_SDI_TDO {13}	
CS# AD3	R113 0R		FTDI_SS_TMS {13}	
AD4	R114 0R		FTDI_TRST {13}	
AD5	R115 0R	AD5		
AD6	R116 0R	AD6		
AD7	R117 0R	AD7		
TCK BD0	R118 0R		PHY_TCK {11}	TO PHY JTAG INTERFACE
TDI BD1	R119 0R		PHY_TDI {11}	
TDO BD2	R120 0R		PHY_TDO {11}	
TMS BD3	R121 0R		PHY_TMS {11}	
BD4	R122 0R		PHY_TRSTn {11}	
BD5	R123 0R	BD5		
BD6	R104 0R	BD6		
BD7	R101 0R	BD7		
CD0	R100 0R	CD0		
CD1	R99 0R	CD1		
CD2	R98 0R	CD2		
CD3	R97 0R	CD3		
CD4	R96 0R	CD4		
CD5	R95 0R	CD5		
CD6	R94 0R	CD6		
CD7	R93 0R	CD7		
TXD DD0	R92 0R		MMUART_1_RXD {5}	
RXD DD1	R89 0R		MMUART_1_TXD {5}	
DD2	R88 0R	DD2		
DD3	R87 0R	DD3		
DD4	R86 0R	DD4		
DD5	R85 0R	DD5		
DD6	R84 0R	DD6		
DD7	R83 0R	DD7		
PWREN#	60		PWREN#	
SUSPEND#	36			

5P0V — VCC_BUS — J2 HEADER 23
- 1
- 2
- 3
- 4 AD5
- 5 AD6
- 6 AD7
- 7 BD5
- 8 BD6
- 9 BD7
- 10 CD2
- 11 CD3
- 12 CD4
- 13 CD5
- 14 CD6
- 15 CD7
- 16 DD2
- 17 DD3
- 18 DD4
- 19 DD5
- 20 DD6
- 21 DD7
- 22 PWREN#
- 23

J18 1734035-2
Part Number = 1734035-2
MANUFACTURER = TE Connectivity AMP Connectors
- 1 VBUS
- 2 D-
- 3 D+
- 4 NC
- 5 GND
- 6 GND1
- 7 GND2
- 8 GND3
- 9 GND4

VCC_BUS — C284 10uF

DM_FT4232H; DP_FT4232H

CR2 PGB1010603MR; CR1 PGB1010603MR

R220 12K_1%

3P3V_FT — FT4232H_RST

R212 10k_1%; R213 10k_1%; R214 10k_1%

3P3V_FT — C221 0.1uF — U11 93LC56BT-I/OT
- 6 VCC
- 5 CS
- 4 CLK
- 3 DI
- 2 GND
- 1 DO

R210 2K_1%

3P3V_FT — C318 0.1uF — U17 DS1818 DS1818R-5+T&R Maxim Integrated Products
- 2 VCC
- 1 RST
- 3 GND

FT4232H_RST

X1 12MHz/12pF VXM7-9022-12M0000000 Microchip Technology
- 1 GND2
- 2 GND1
- 3
- 4

C69 27PF; C70 27PF

ENABLE_FT4232 {16}

Q1 2N7002

CD0 — R231 390_1%

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DEBUG CIRCUITRY

3P3V

SW1
R244
10K_1%
1825910-7
SWITCH1 {5}
C91
1uF/16V/X5R

SW2
R201
10K_1%
1825910-7
SWITCH2 {5}
C347
1uF/16V/X5R

SW3
R245
10K_1%
1825910-7
SWITCH3 {5}
C348
1uF/16V/X5R

SW4
R61
10K_1%
1825910-7
SWITCH4 {5}
C349
1uF/16V/X5R

D0 SM_LED_YLW — R25 499_1% — {6} LED0
D1 SM_LED_YLW — R24 499_1% — {6} LED1
D2 SM_LED_GRN — R23 499_1% — {6} LED2
D3 SM_LED_GRN — R22 499_1% — {6} LED3
D4 SM_LED_RED — R21 499_1% — {6} LED4
D5 SM_LED_RED — R20 499_1% — {6} LED5
D6 SM_LED_BLUE — R19 499_1% — {6} LED6
D7 SM_LED_BLUE — R18 499_1% — {6} LED7

TP4 TP_BLACK
TP2 TP_BLACK
TP7 TP_BLACK
TP1 TP_BLACK
TP6 TP_BLACK
TP5 TP_BLACK
TP11 TP_BLACK
TP10 TP_BLACK

SW5
SDA04H1BD
MFG Part # = SDA04H1BD
MFG Name = C&K Components

R251 4.7K 1%
R248 4.7K 1%
R241 4.7K 1%
R240 4.7K 1%
C350 1uF/16V/X5R
C351 1uF/16V/X5R
C352 1uF/16V/X5R
C353 1uF/16V/X5R
DIP1 {5}
DIP2 {5}
DIP3 {5}
DIP4 {5}

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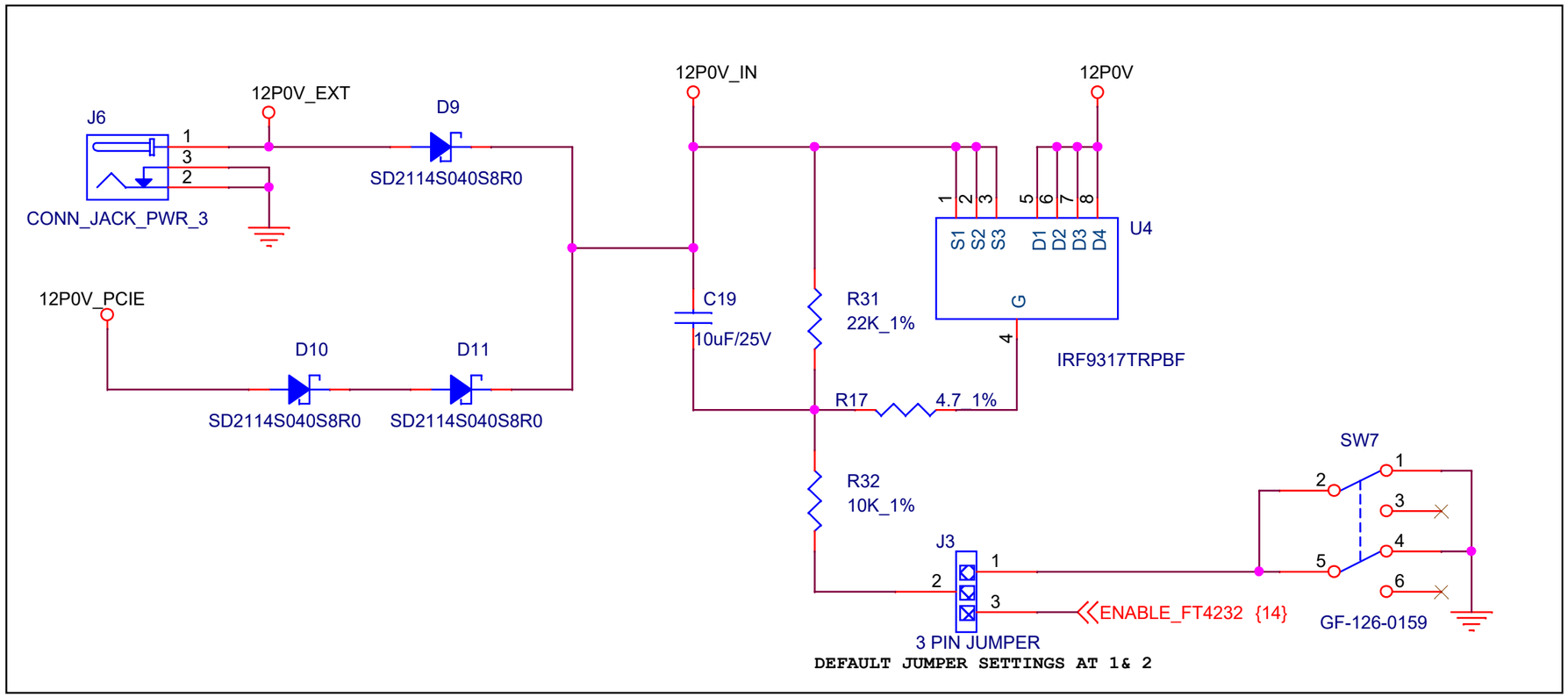
POWER SUPPLY 1



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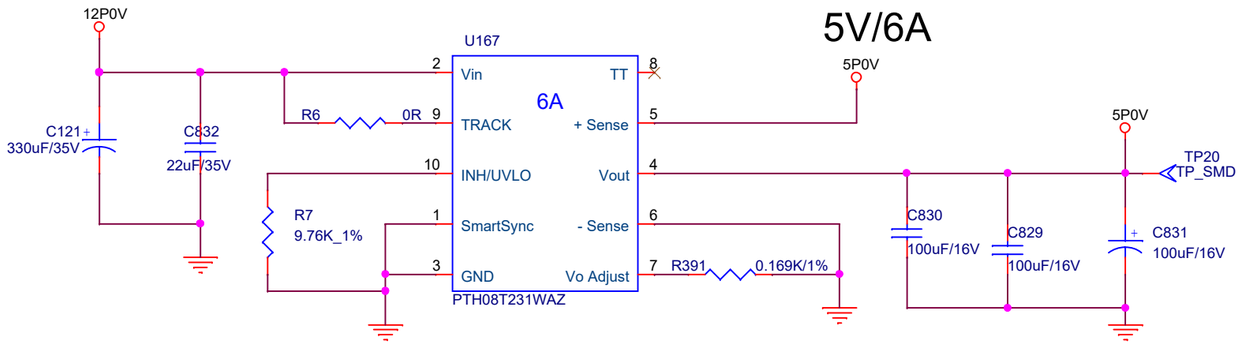
POWER SUPPLY 2

REGULATOR 1: 5V/6A



TITLE: M2GL/M2S-EVAL-KIT		
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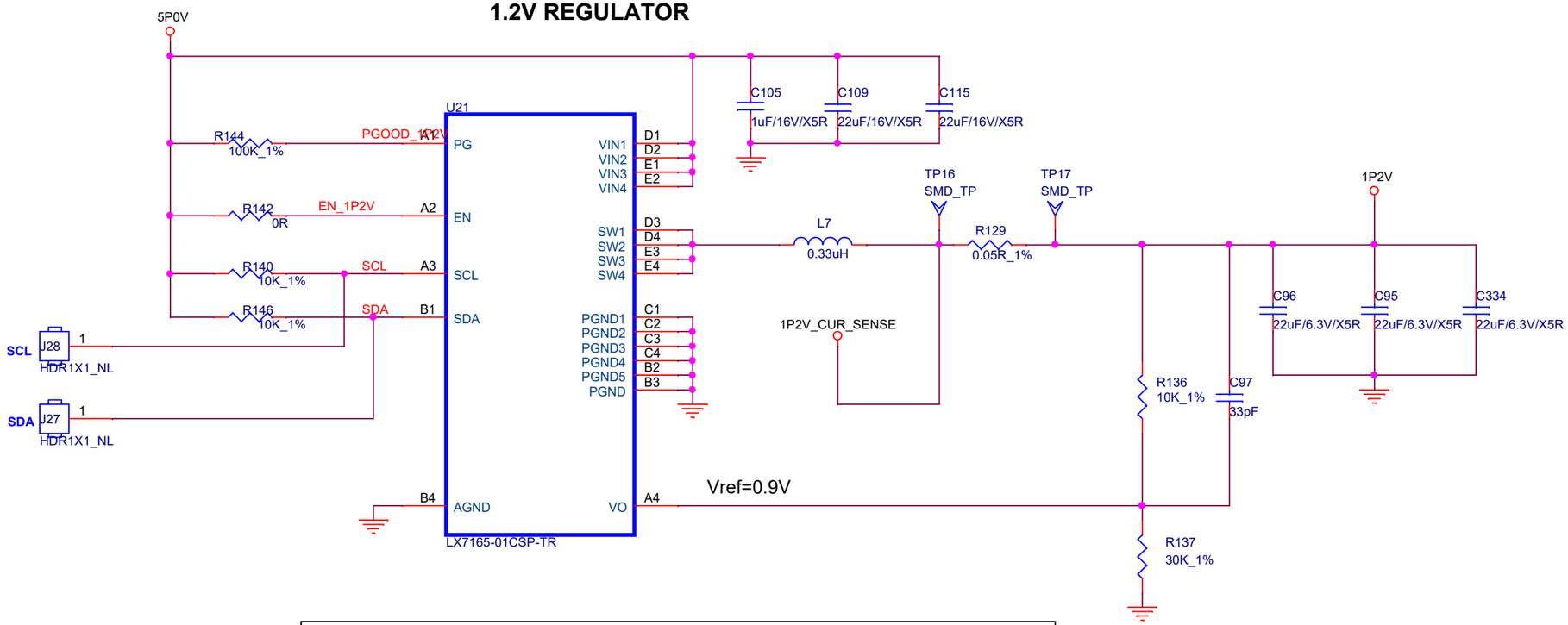
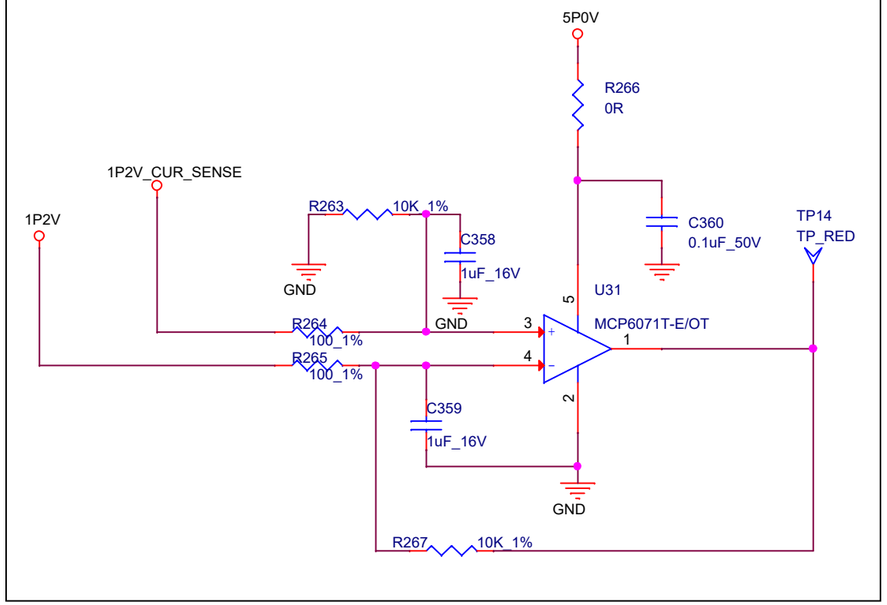
POWER SUPPLY 3

1.2V REGULATOR



1.2V CURRENT SENSING CIRCUIT



TITLE: M2GL/M2S-EVAL-KIT		
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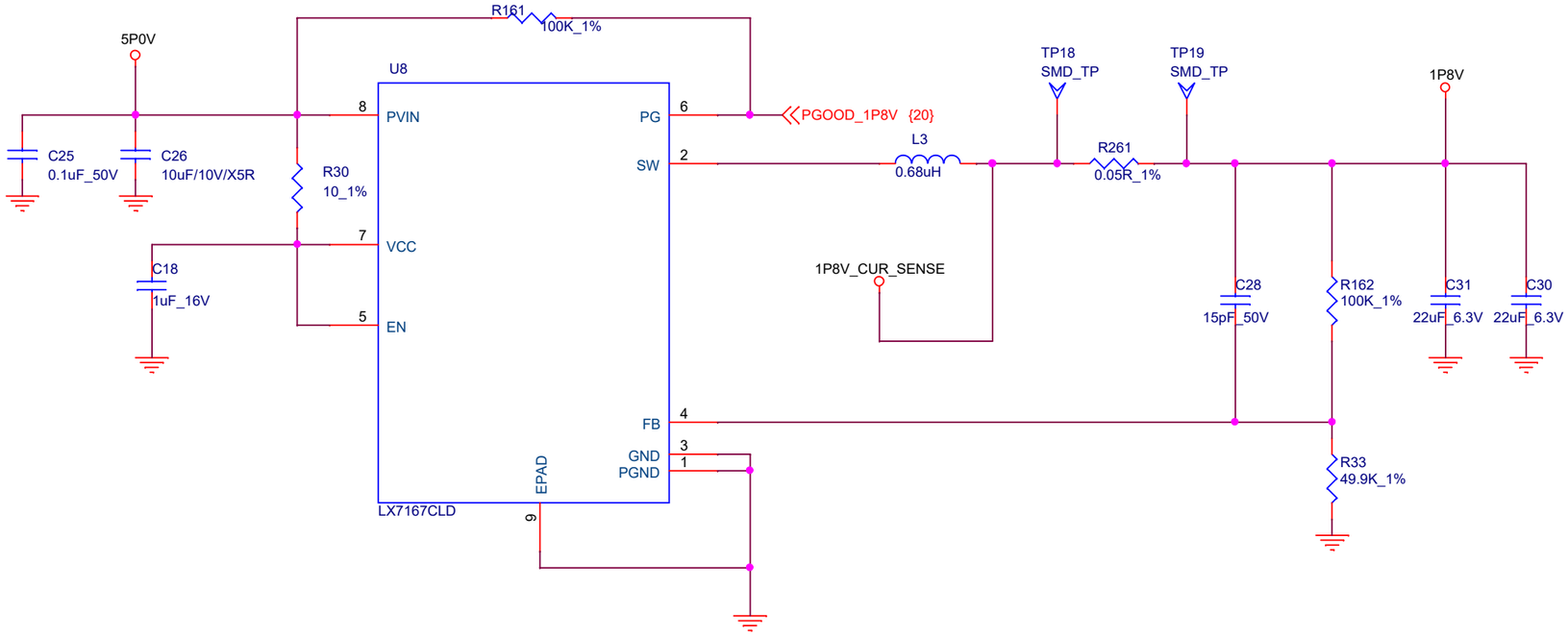
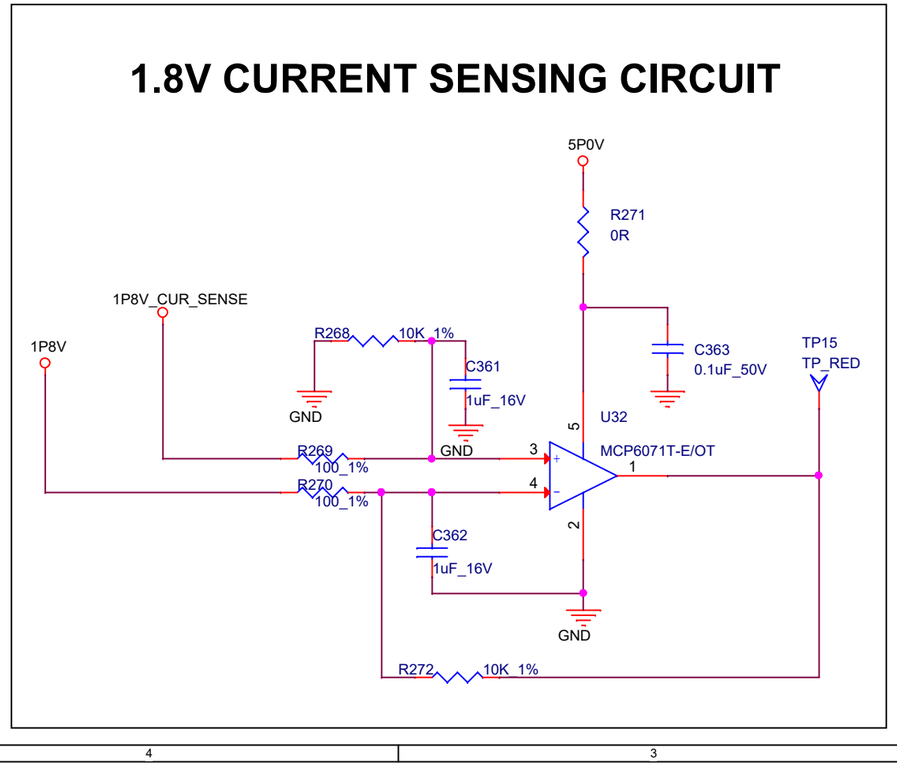
POWER SUPPLY 4

1.8V REGULATOR





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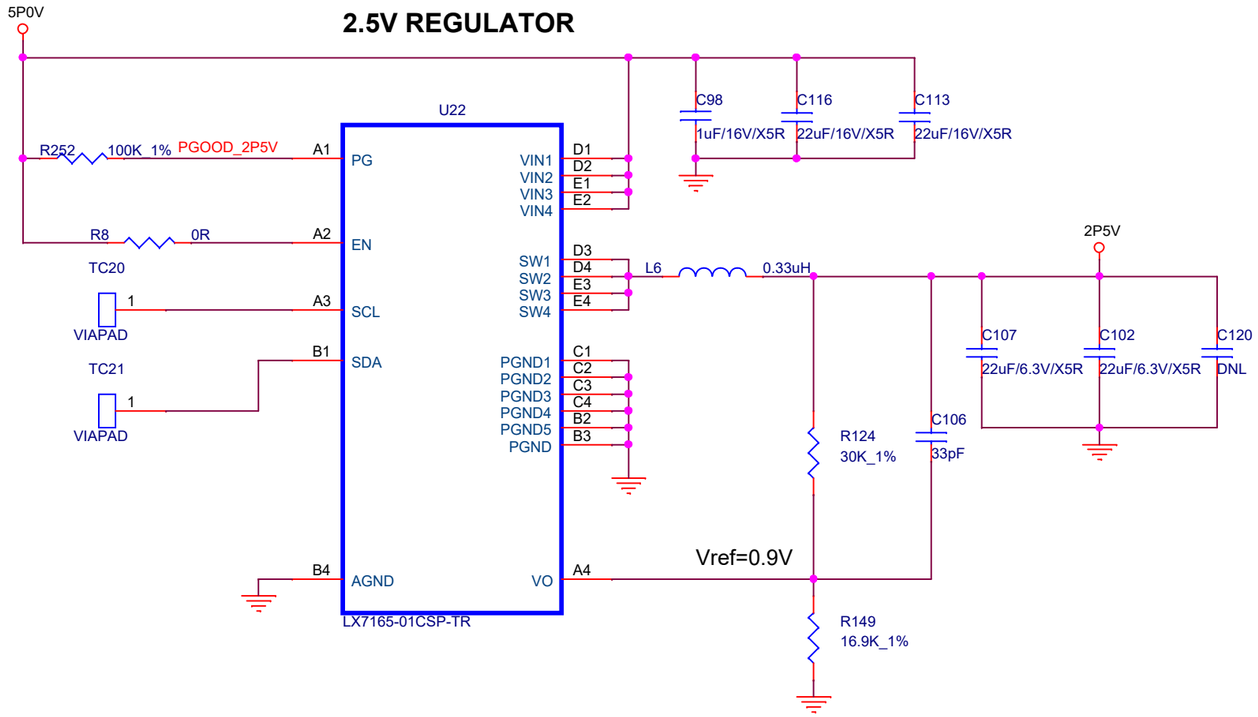
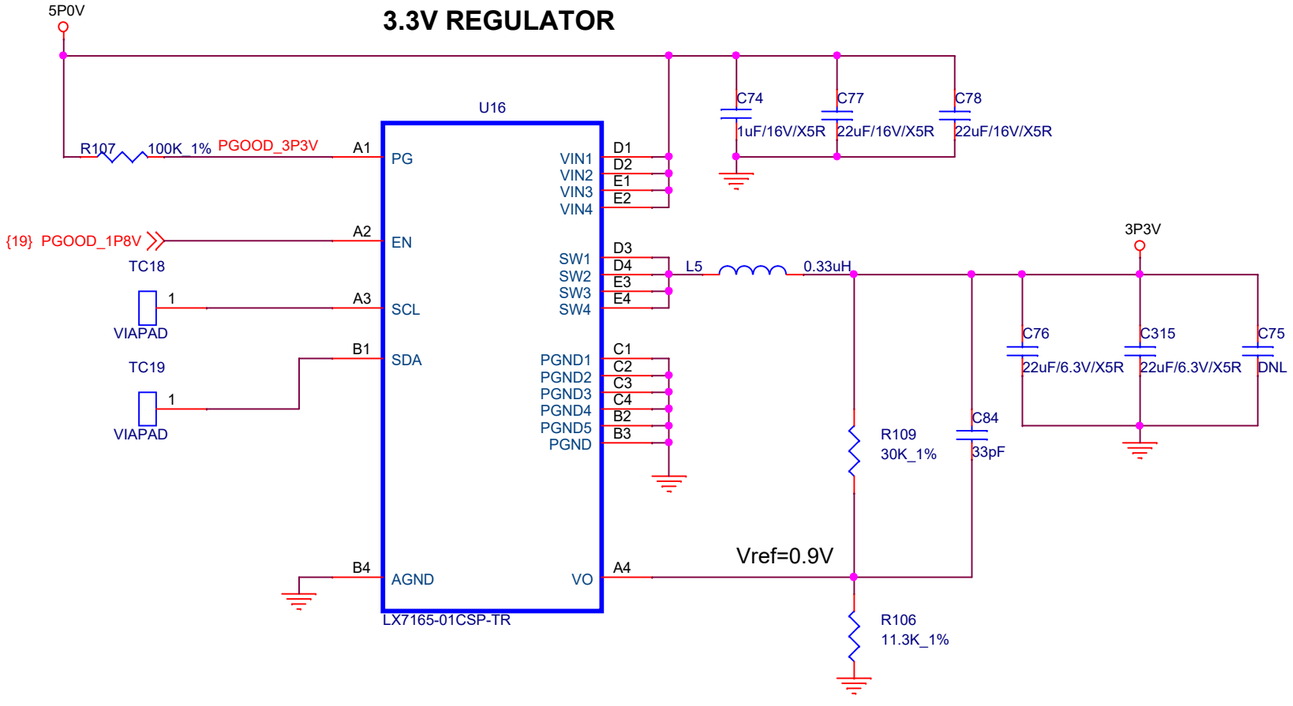
POWER SUPPLY 5

2.5V REGULATOR



3.3V REGULATOR



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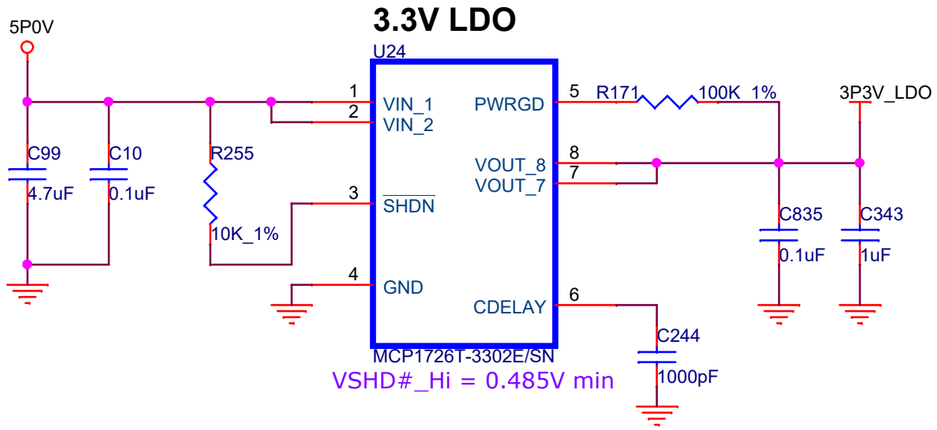
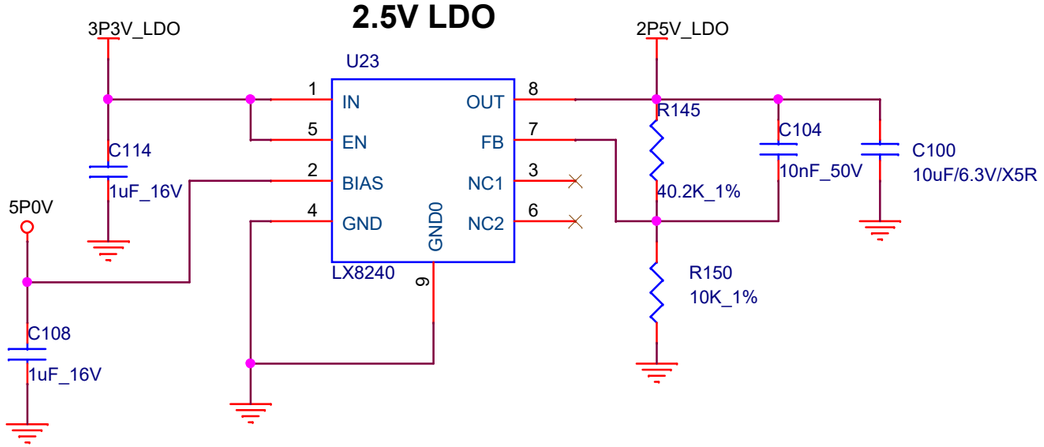
POWER SUPPLY 6 & LED

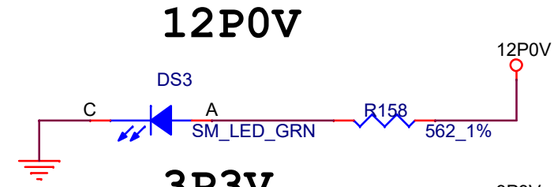
3.3V LDO



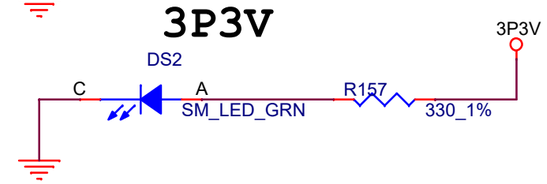
2.5V LDO



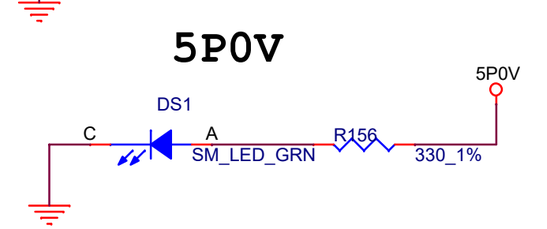
12P0V



3P3V

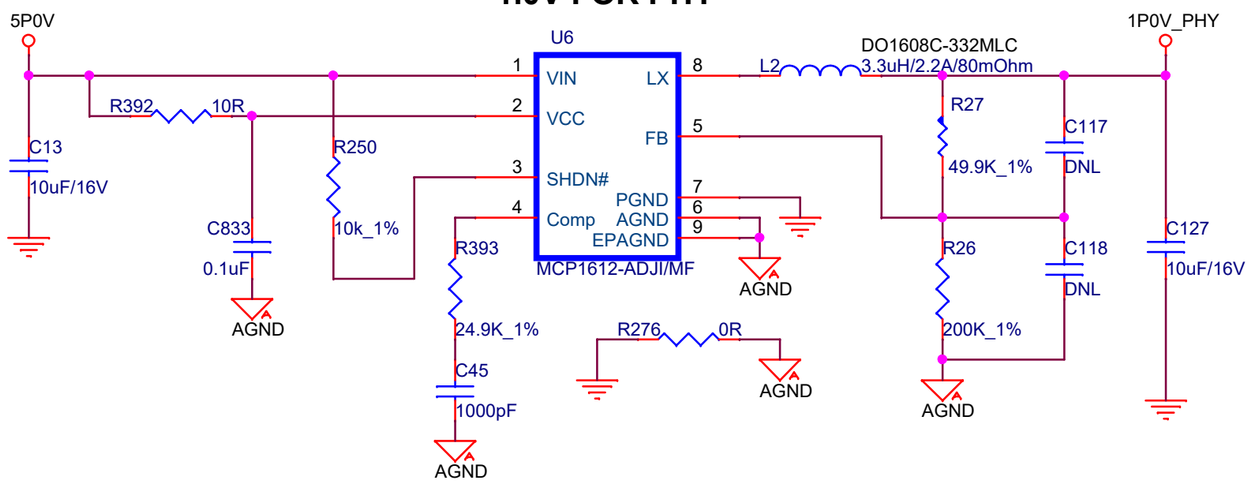


5P0V



1.0V FOR PHY

1.0V/1.6A



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