

MiniZed Zynq Development Board	
Avnet Engineering Services	
<a href="http://www.minized.org">www.minized.org</a>	
Sheet Name	
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02 - Block Diagram	
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# MiniZed Zynq Development Board

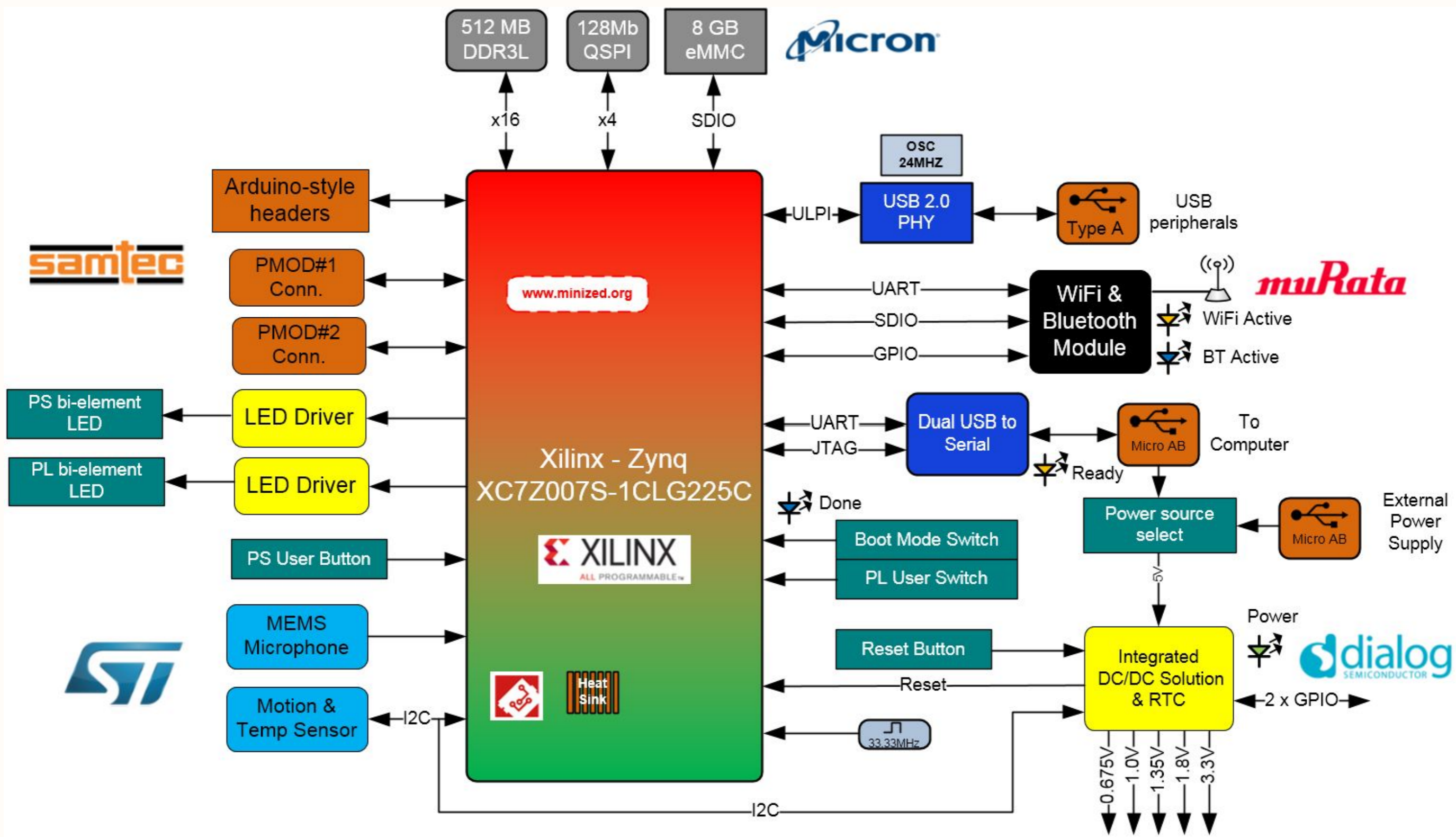
## Revision 1

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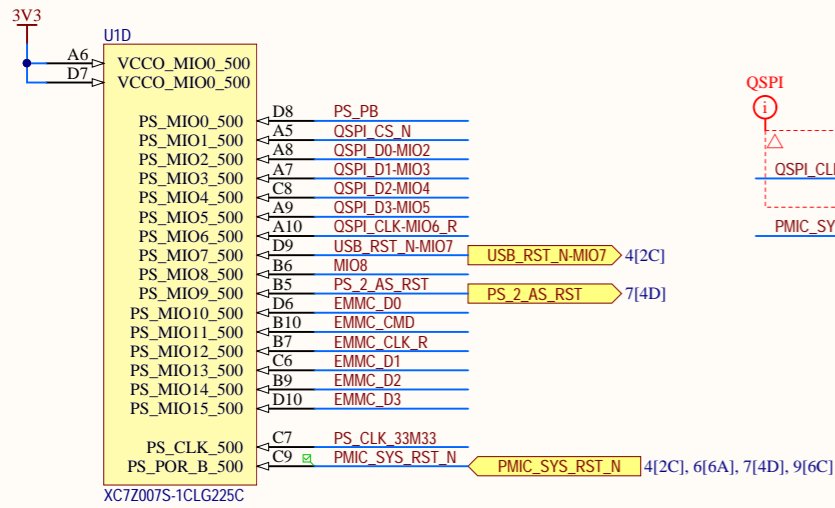
AVNET Avnet Engineering Services			
Project Name:	MiniZed Zynq Development Board	PCB Rev:	1
Doc Num:	SCH-MI1DEV	BOM:	01
Sheet Title:	01 - Avnet Lead Sheet.SchDoc	Variant:	04
	Date: 6/13/2017	Time:	11:52:42 AM
	Size: B	Sheet:	1 of 10



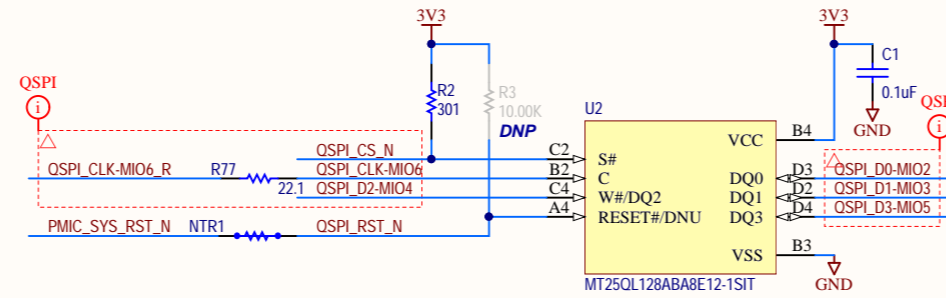
<b>AVNET</b> Avnet Engineering Services			
Project Name:	<b>MiniZed Zynq Development Board</b>	PCB Rev:	BOM:
Doc Num:	<b>SCH-MI1DEV</b>	Date:	Time:
Sheet Title:	<b>02 - Block Diagram.SchDoc</b>	Size:	Sheet:
		1	01
		6/13/2017	11:52:42 AM
		B	2 of 10

# QSPI - eMMC - Boot Mode - PS Push Button

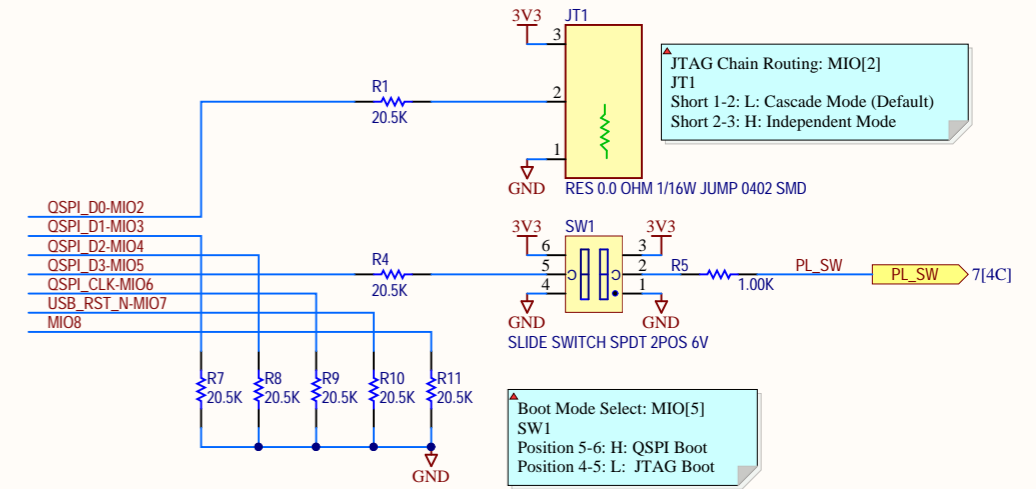
## Zynq Bank500



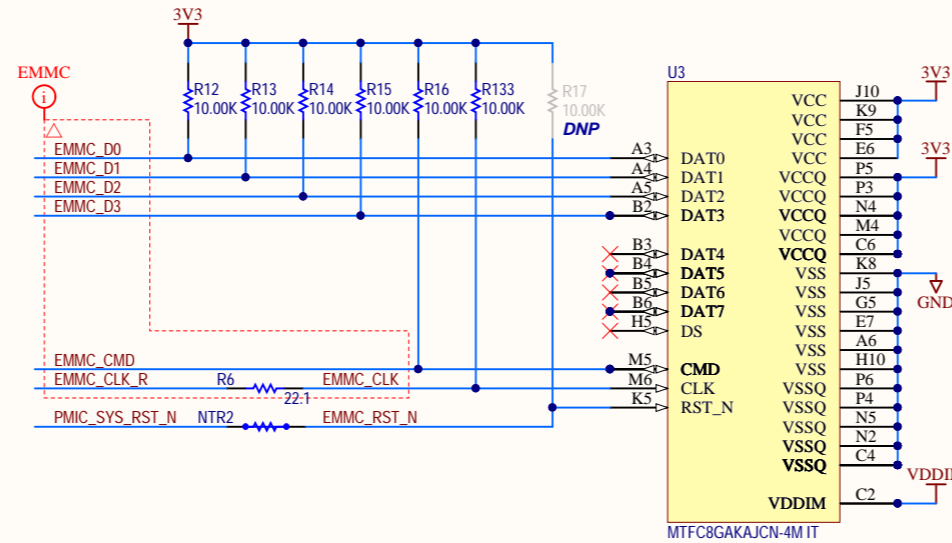
## QSPI (QSPI0)



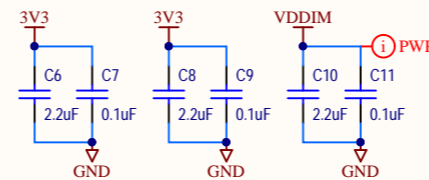
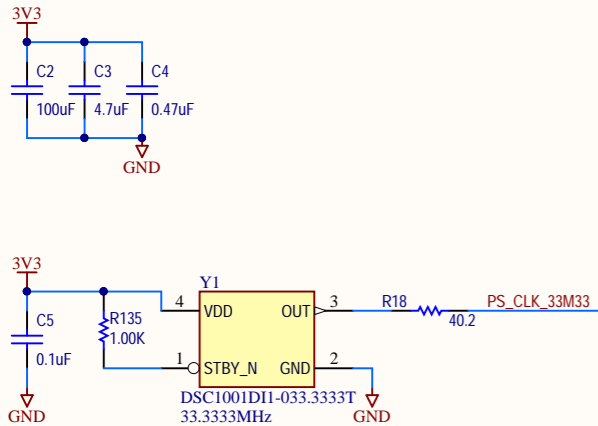
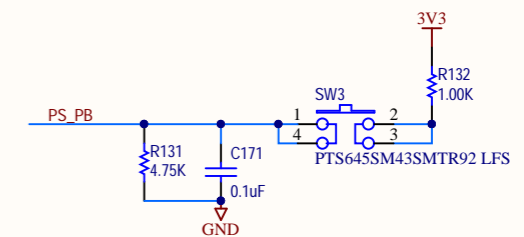
## Boot Mode MIO Strapping Pins / PL User Switch



## eMMC (SDIO1)

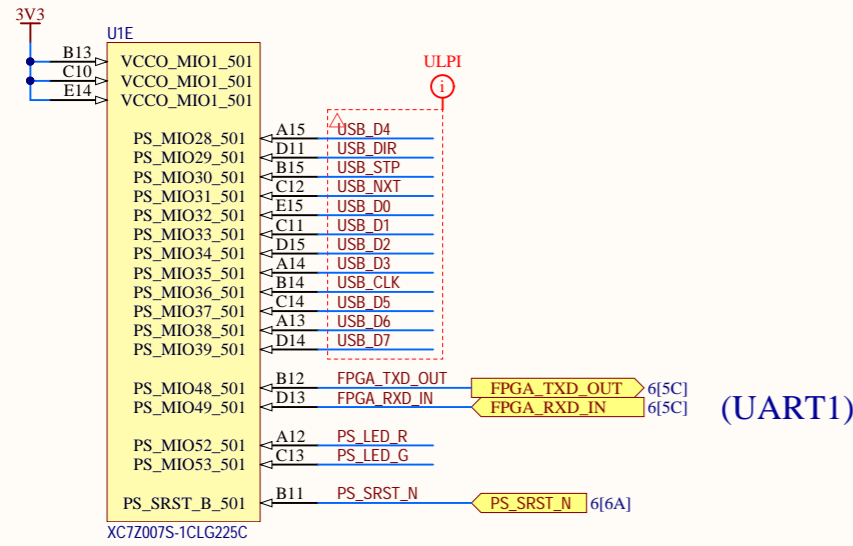


## PS Push Button

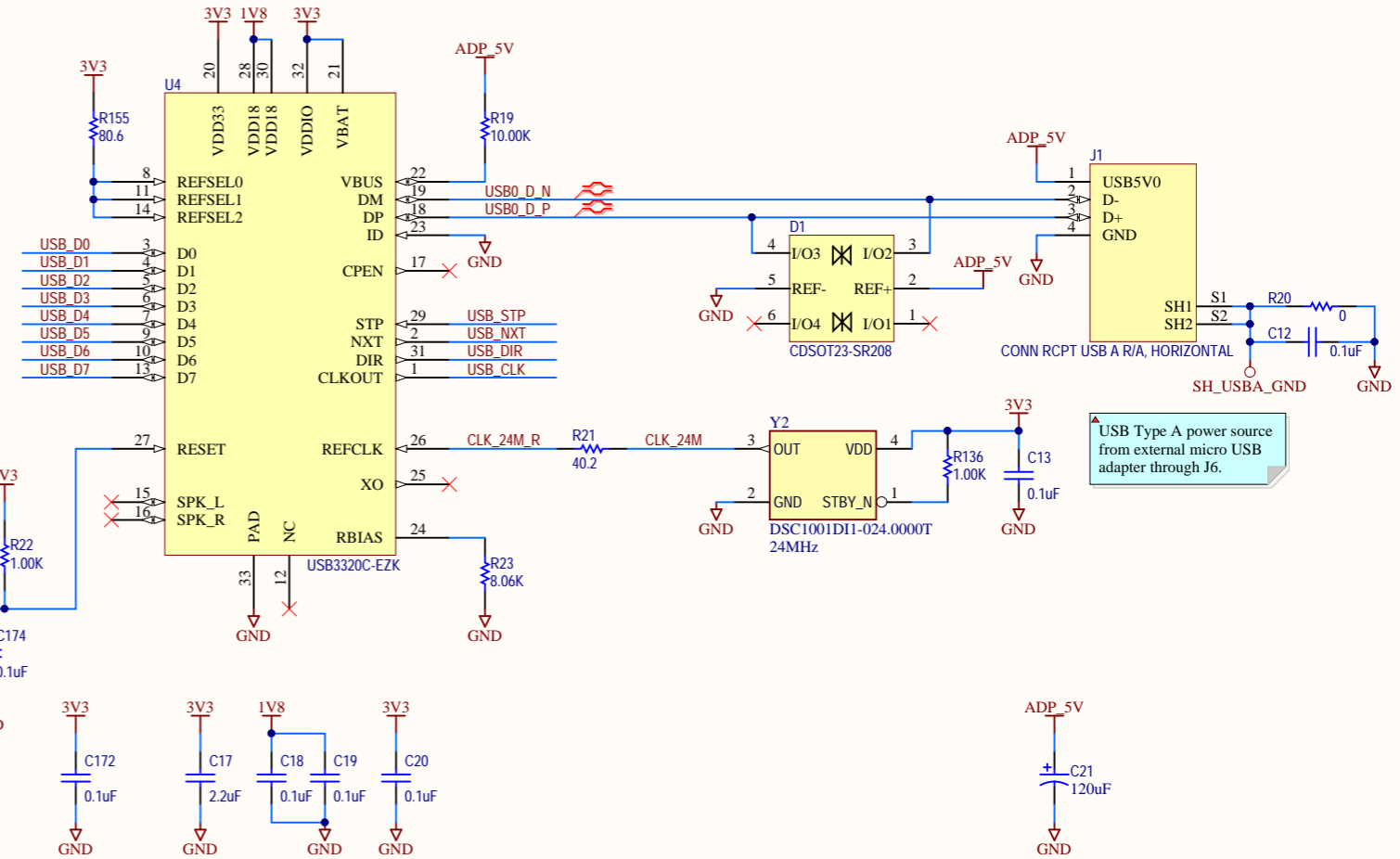


# USB Host & PS LED

## Zynq Bank501

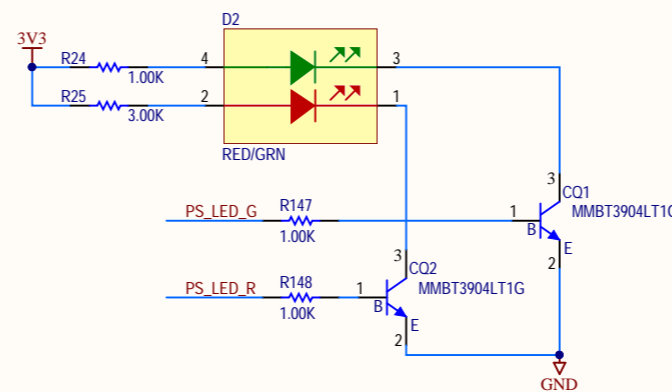


## USB 2.0 Host (USB0)



USB Type A power source from external micro USB adapter through J6.

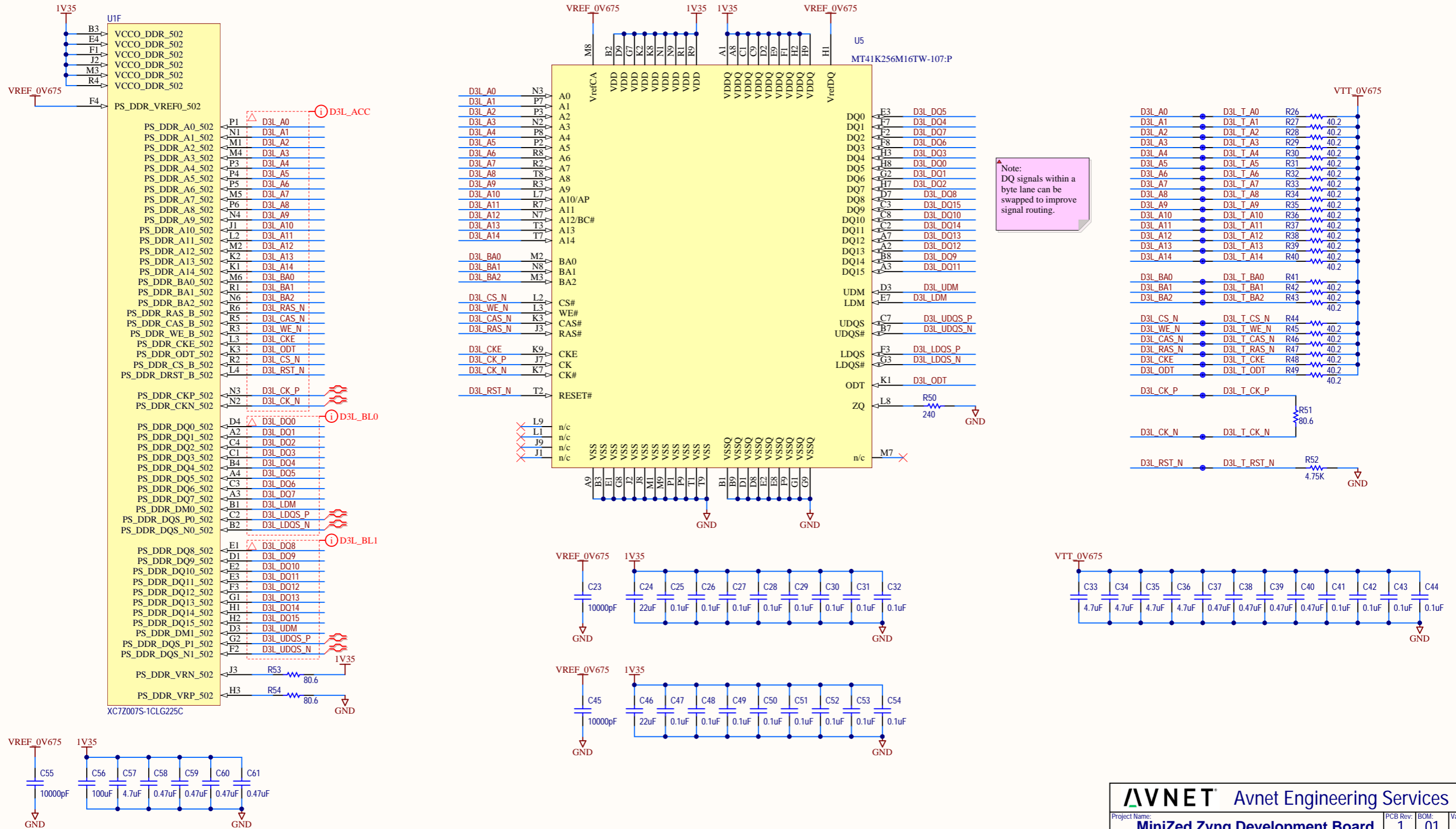
## PS User LEDs



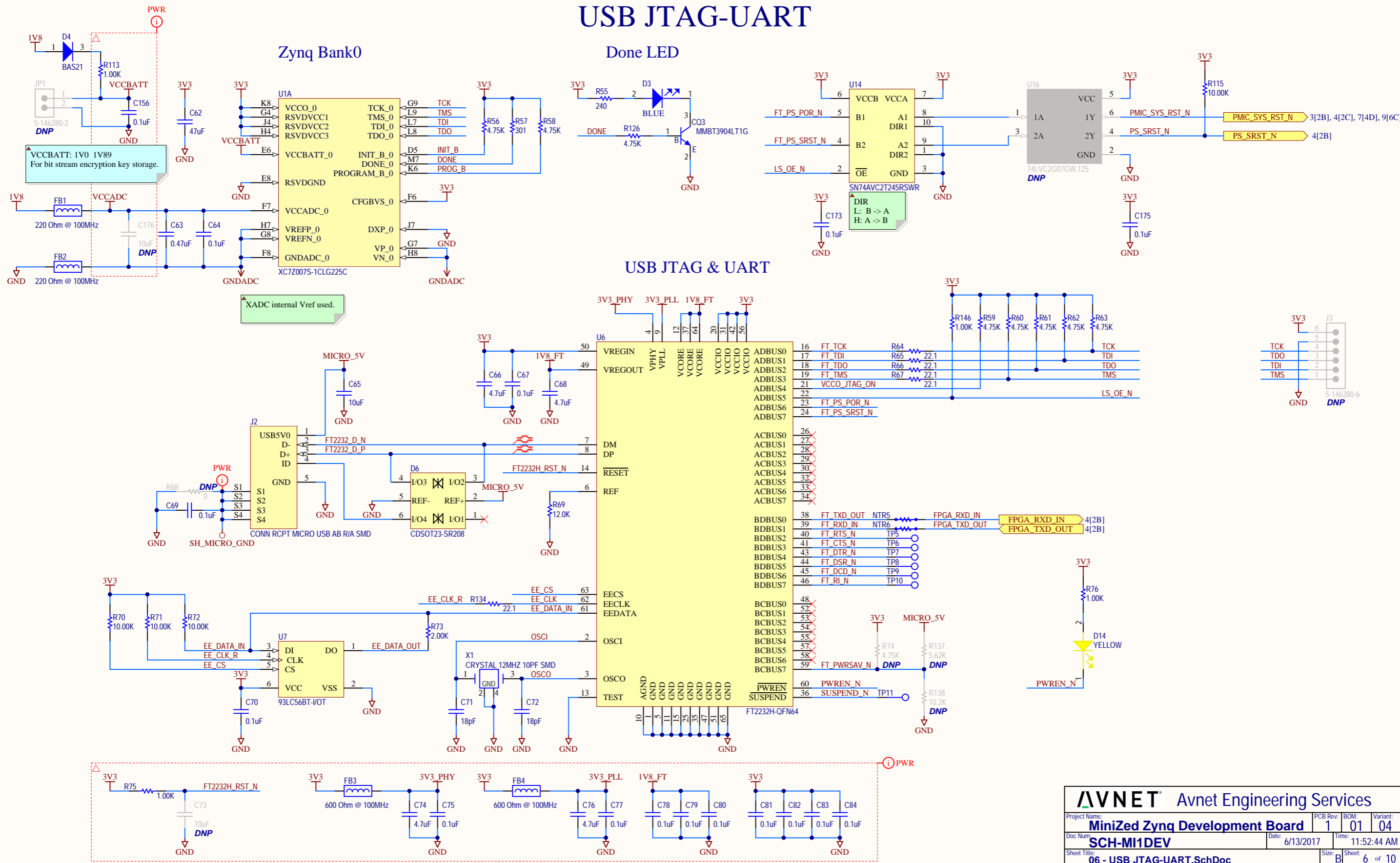
# DDR3L

## Zynq Bank502

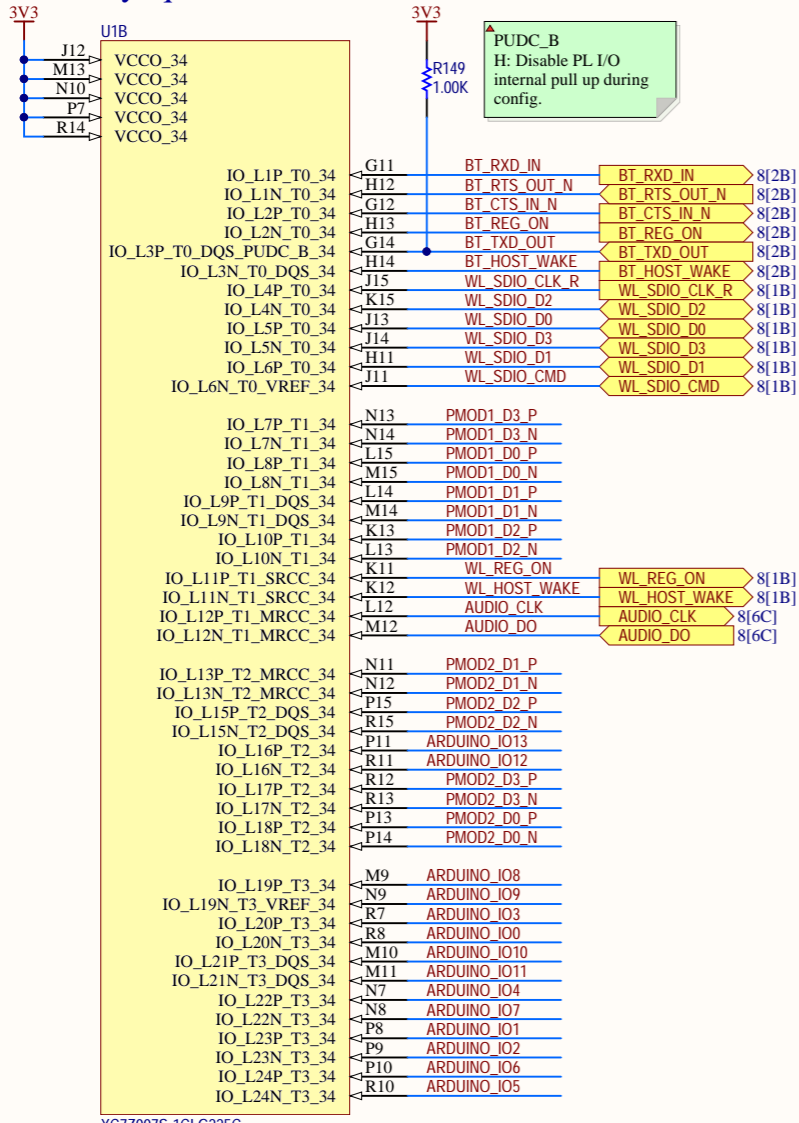
## DDR3L



# USB JTAG-UART

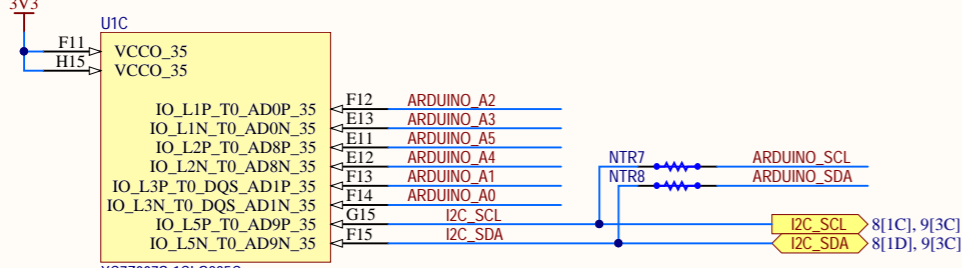


### Zynq Bank34

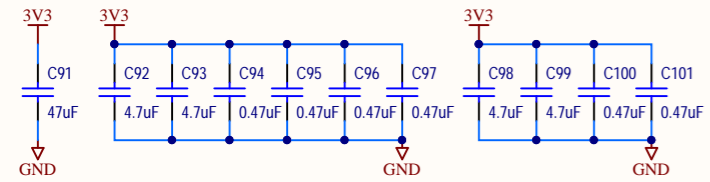


XC7Z007S-1CLG225C

### Zynq Bank35

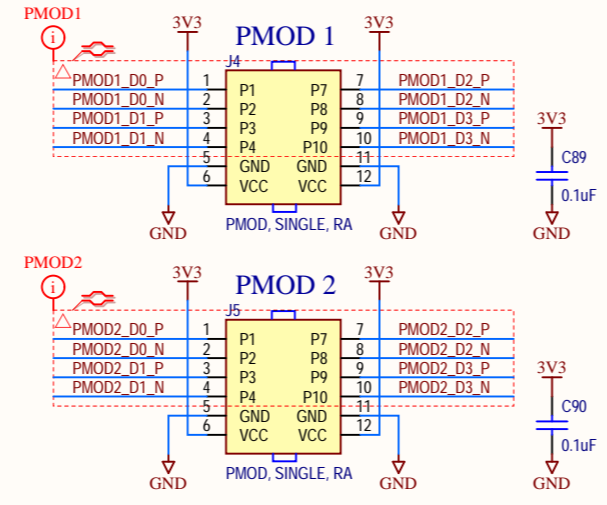


XC7Z007S-1CLG225C

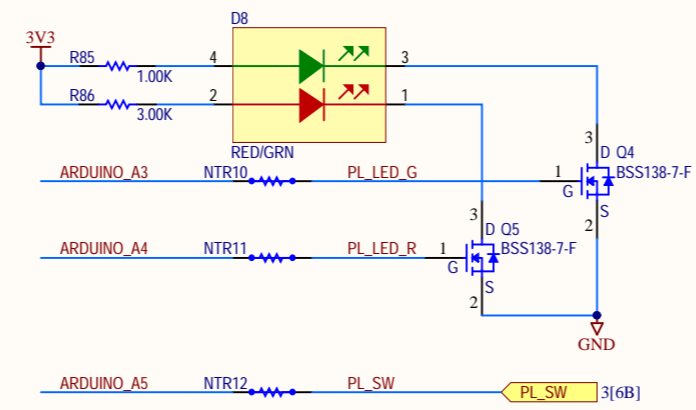


# Arduino - PMODs - PL LEDs

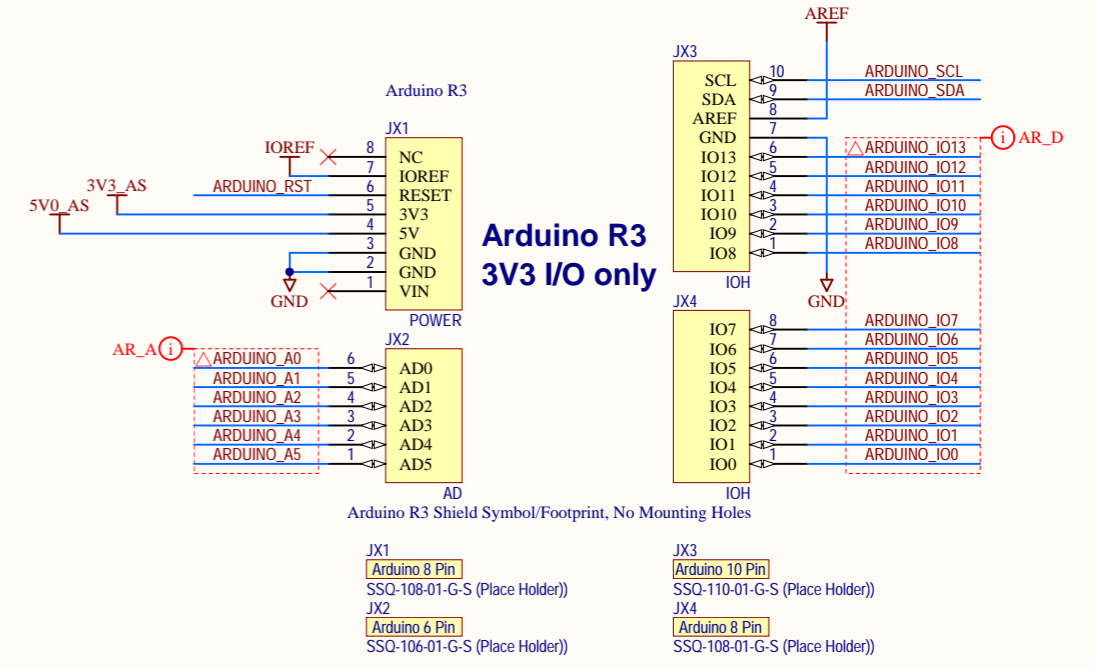
## Dual PMODs



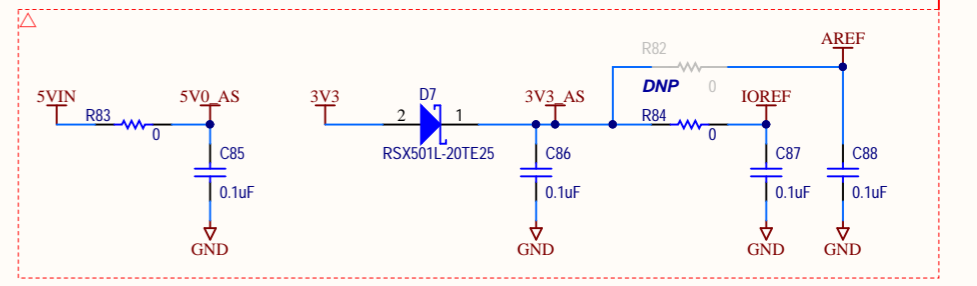
## PL User LEDs



## Arduino Shield



Only +3.3V Shields are Supported



Arduino Reset Option:  
Populate R81: Active low reset, driven by PMIC or PS I/O.  
Populate R79: Active high reset, driven by PS I/O only.  
Either populate R79 or R81

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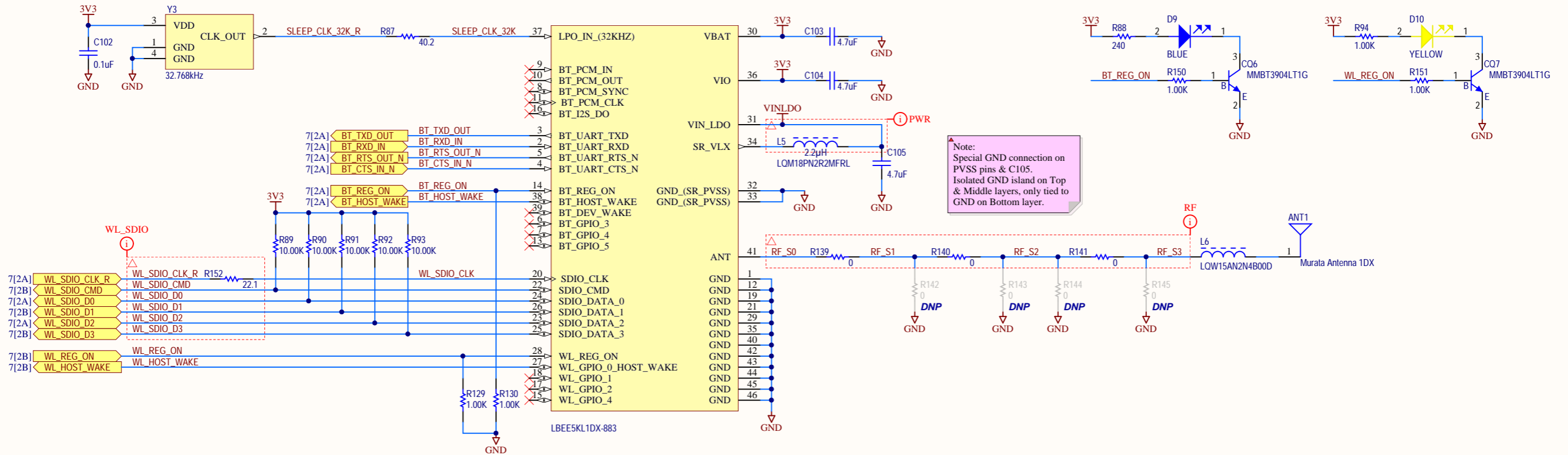
Project Name: **MiniZed Zynq Development Board** PCB Rev: BOM: Variant: 1 01 04

Doc Num: **SCH-MI1DEV** Date: 6/13/2017 Time: 11:52:44 AM

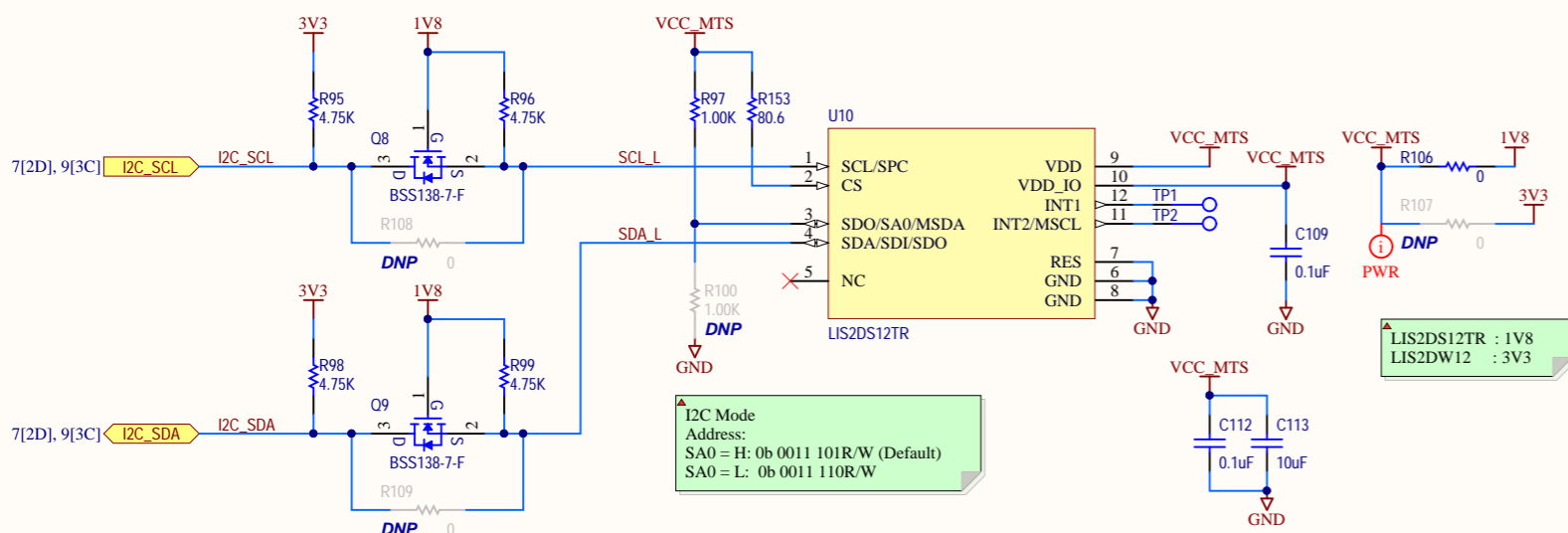
Sheet Title: **07 - Arduino - PMODs - PL LEDs.SchDoc** Size: B Sheet: 7 of 10

# Wireless - Sensors

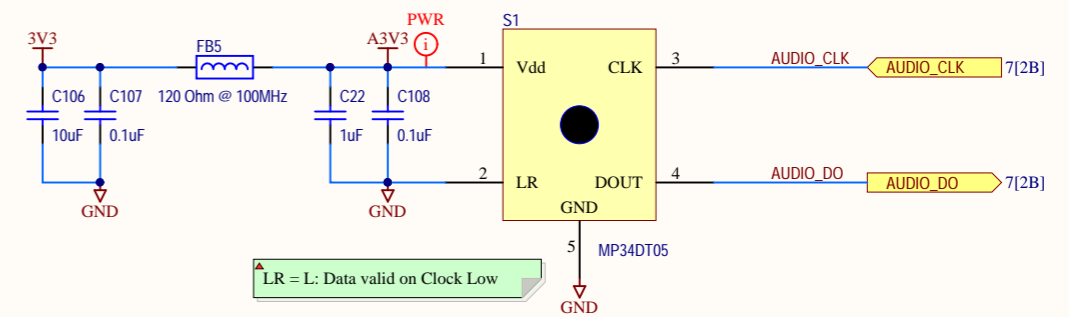
## WiFi & Bluetooth Module



## Motion & Temperature Sensor



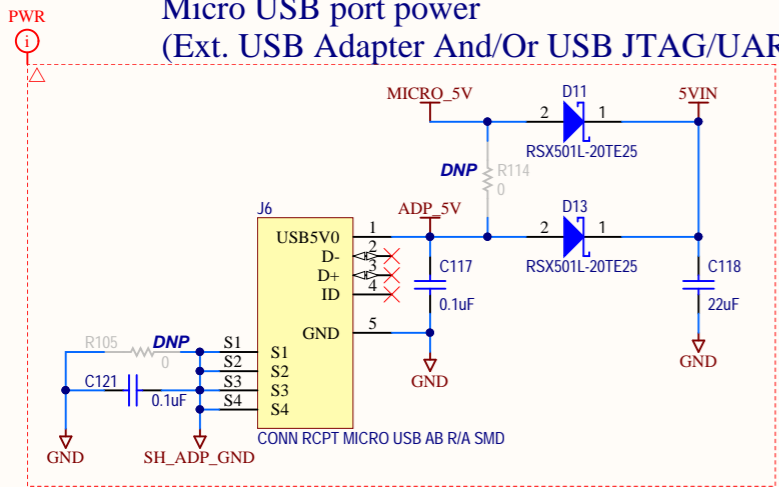
## Audio Sensor



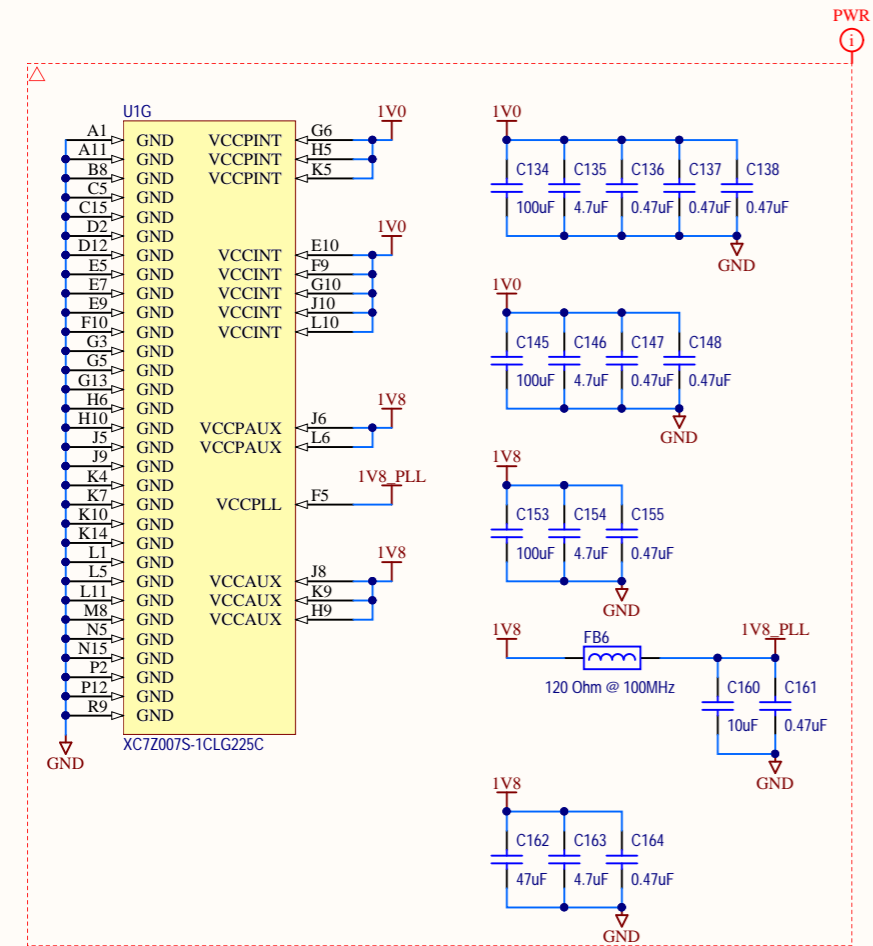
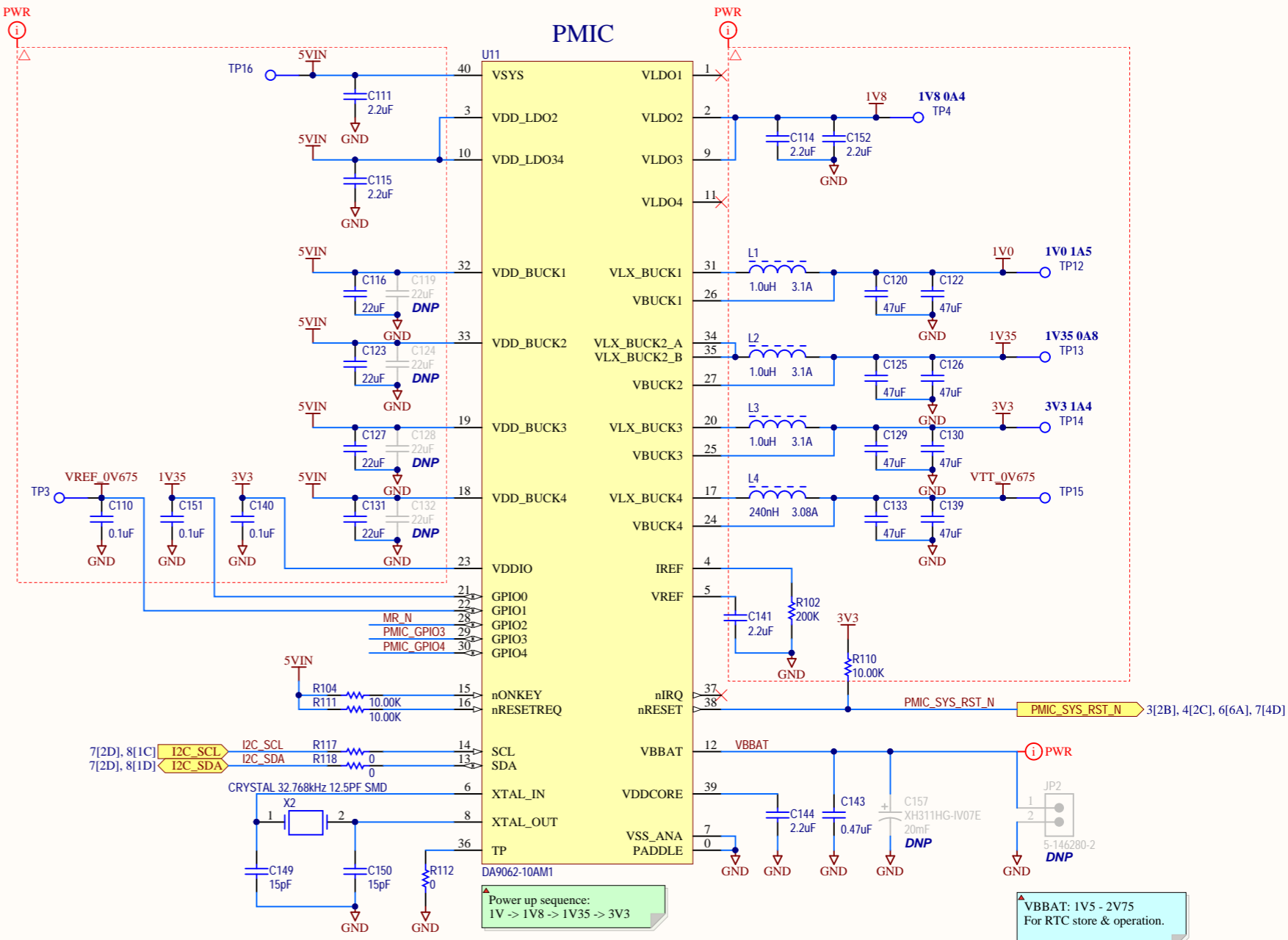


# Power Supplies

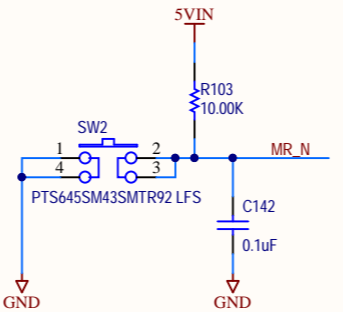
**Micro USB port power**  
(Ext. USB Adapter And/Or USB JTAG/UART)



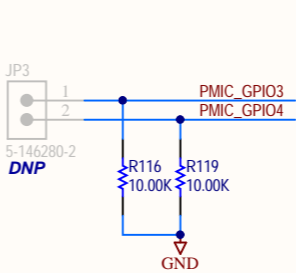
**PMIC**



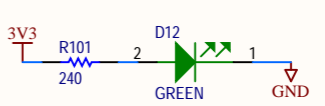
**RESET PUSHBUTTON**



**PMIC GPIO**



**POWER READY LED**



# XXX-XXX-PCB-X

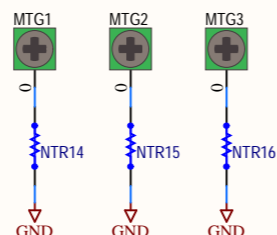
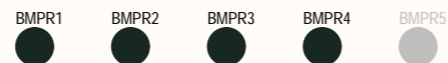
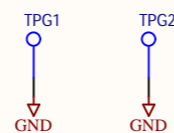
PCB PN (In Copper)

## Mechanicals:




PCB

## GND Test Points



## Assembly:

Label1  
RD-XXXX-XXXXX-C  
Label, Product

Label2  
  
XXXXXXX  
Label, Serial Number



ESD Bag



Label, ESD

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Project Name:	<b>MiniZed Zynq Development Board</b>	PCB Rev:	BOM:
Doc Num:	<b>SCH-MI1DEV</b>	Date:	Time:
Sheet Title:	<b>10 - Back Page.SchDoc</b>	Size:	Sheet: