[01] – POWER

File: [01] – Power.kicad_sch

[02] – Zync Power

File: ZyncPower.kicad_sch

[03] – Programmable Logic (PL)

File: PL.kicad_sch

[04] – Processing System (PS)

File: PS.kicad_sch

[05] – JTAG

File: JTAG.kicad_sch

[06] – Zync DDR

File: Memory.kicad_sch

[07] – DDR3

File: DDR3.kicad_sch

[08] – Ethernet

File: Ethernet.kicad_sch

[09] – High Speed (OTG)

File: OTG.kicad_sch

[10] – Peripherals

File: Peripherals.kicad_sch

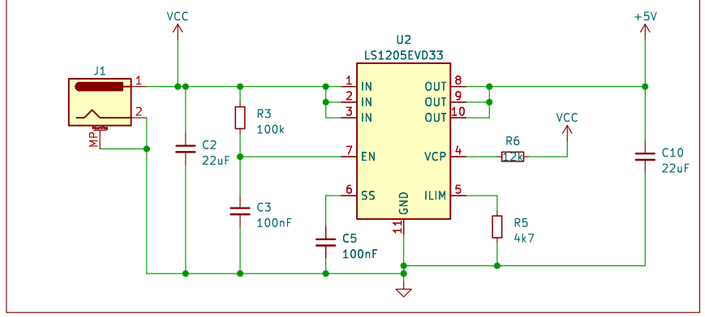
Sheet: /
File: ZettBrett.kicad_sch

**Title:**

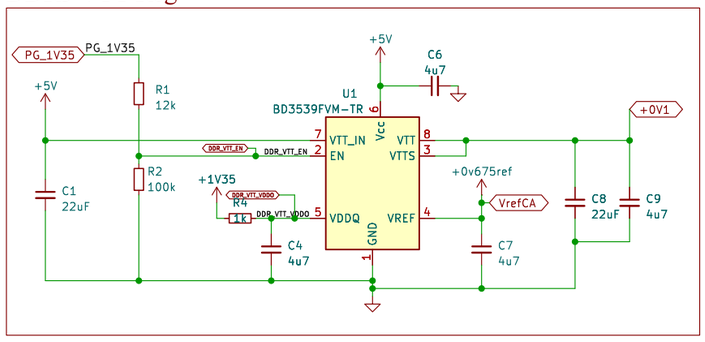
| Size: A3 | Date: | **Rev:** |
|---|---|---|
| KiCad E.D.A. 8.0.1 | | Id: 1/11 |

# POWER

## INPUT POWER

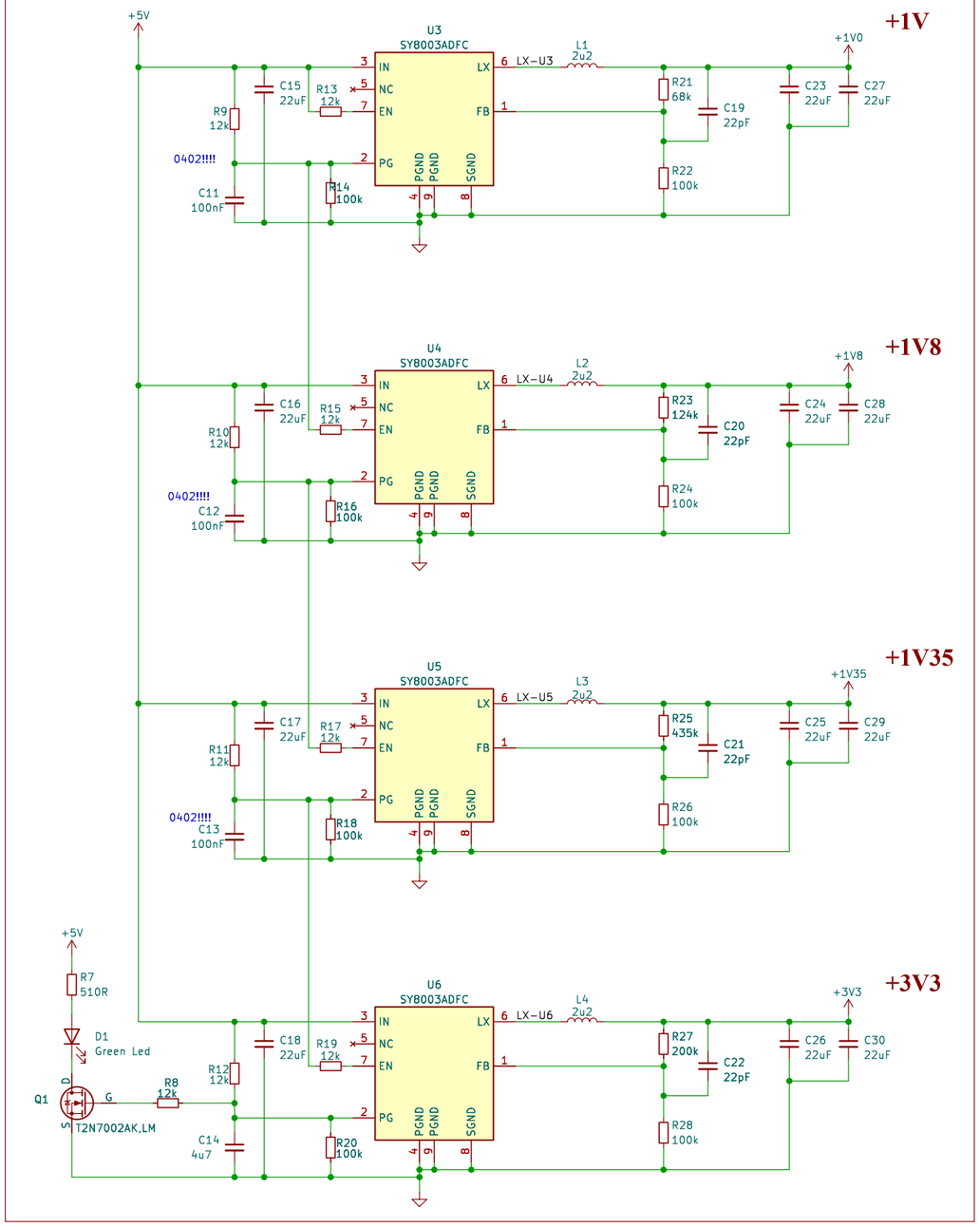



## DDR3 VTT Reg




## BUCK CONVERTERS

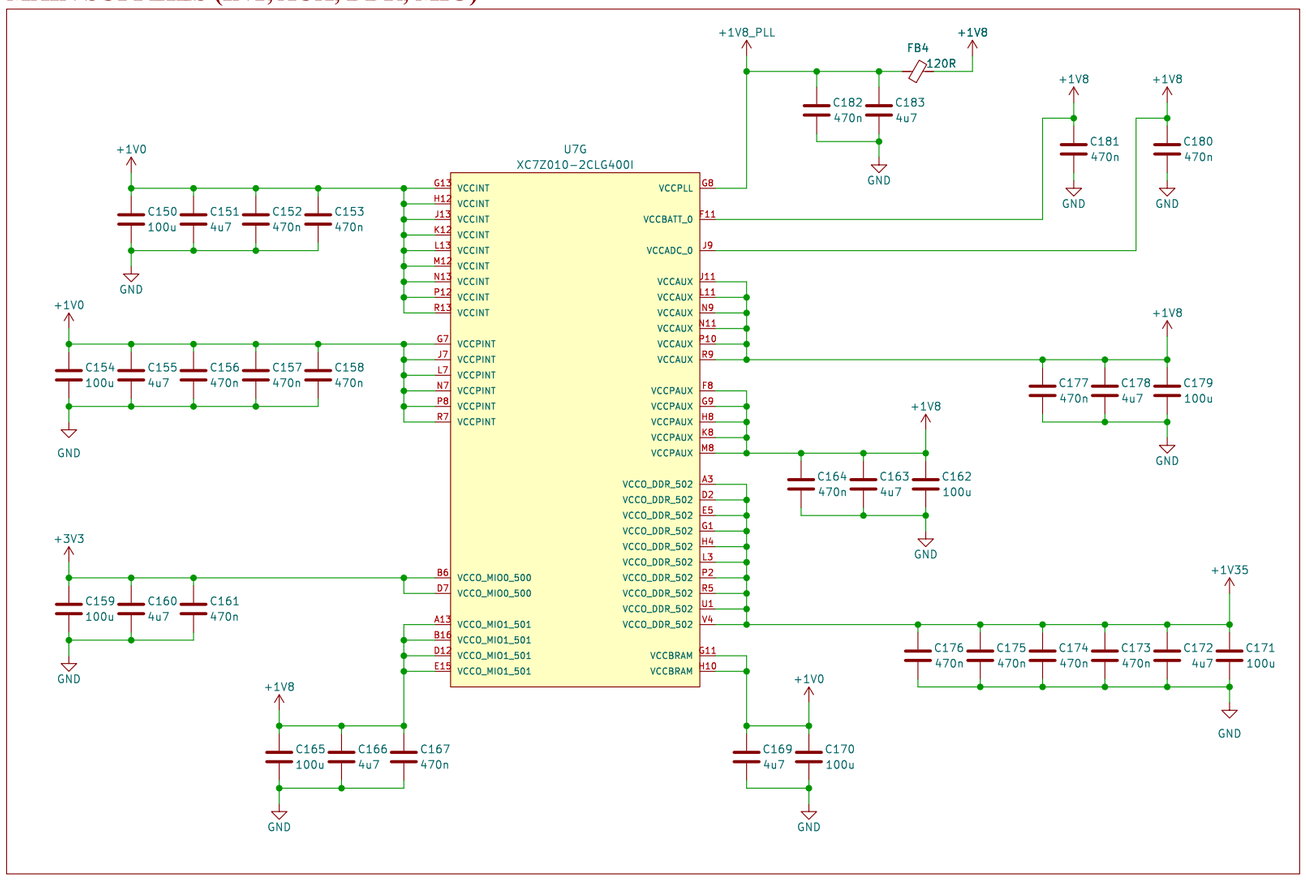
Power Sequence: +1V0 -> +1V8 -> +1V35 -> +3V3



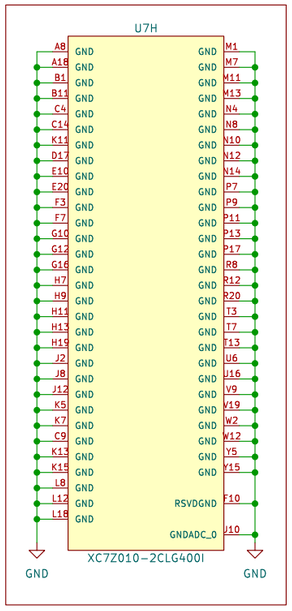

| | | |
|---|---|---|
| Sheet: /[01] – POWER/ | | |
| File: [01] – Power.kicad_sch | | |
| **Title:** | | |
| Size: A3 | Date: | **Rev:** |
| KiCad E.D.A. 8.0.1 | | Id: 2/11 |

# Zynq Power

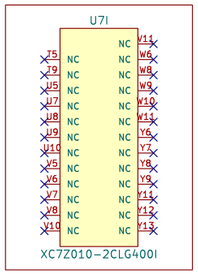
## MAIN SUPPLIES (INT, AUX, DDR, MIO)



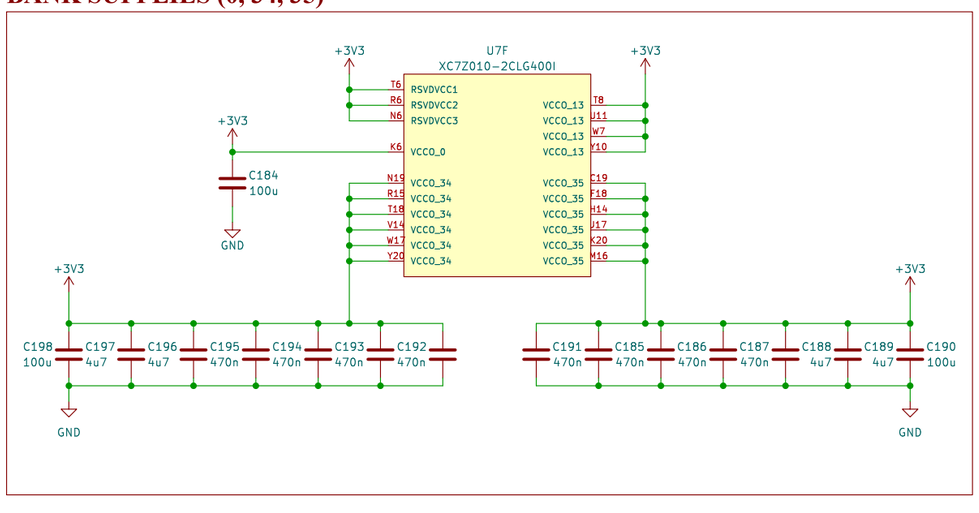

## GROUND




## UNUSED PINS




## BANK SUPPLIES (0, 34, 35)

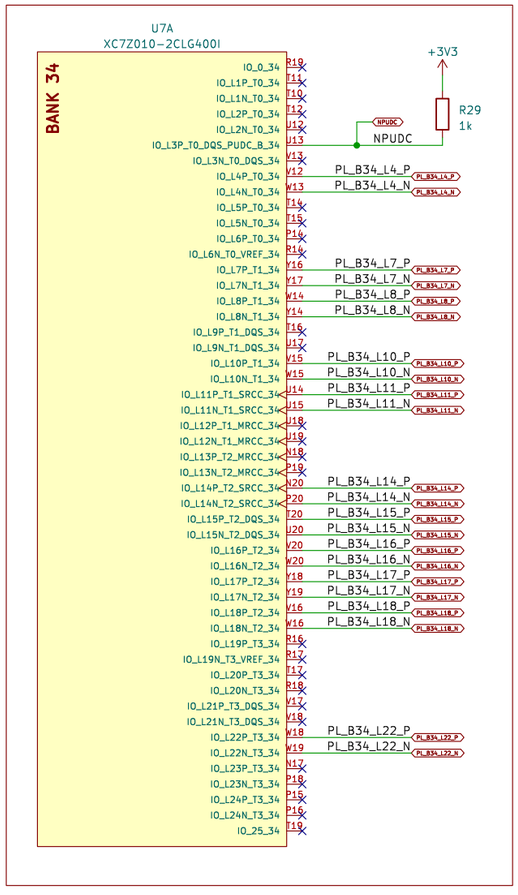



Reminder: Banks can run at differnet voltage

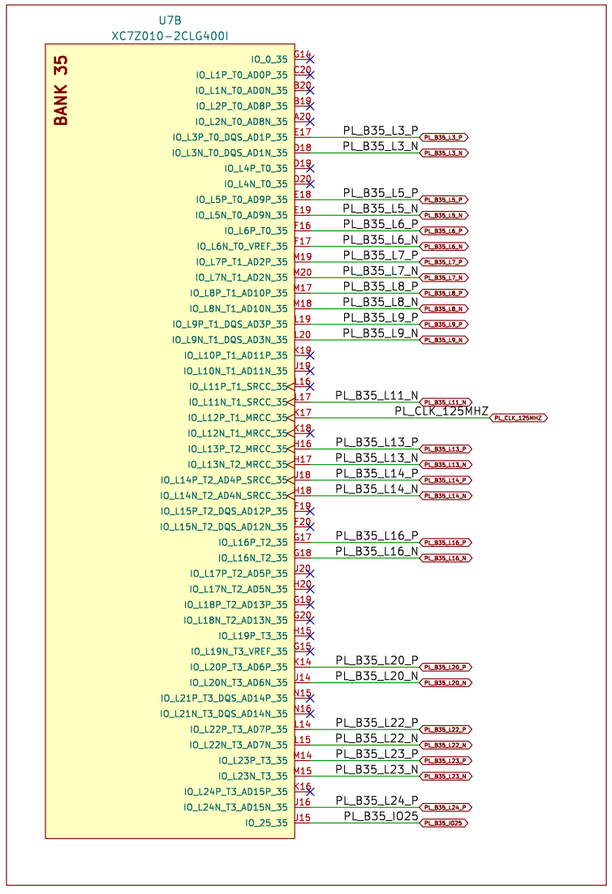
| | | |
|---|---|---|
| Sheet: /[02] – Zync Power/ | | |
| File: ZyncPower.kicad_sch | | |
| **Title:** | | |
| Size: A3 | Date: | **Rev:** |
| KiCad E.D.A. 8.0.1 | | Id: 3/11 |

# PROGRAMMABLE LOGIC (PL)

## BANK 34




## BANK 35

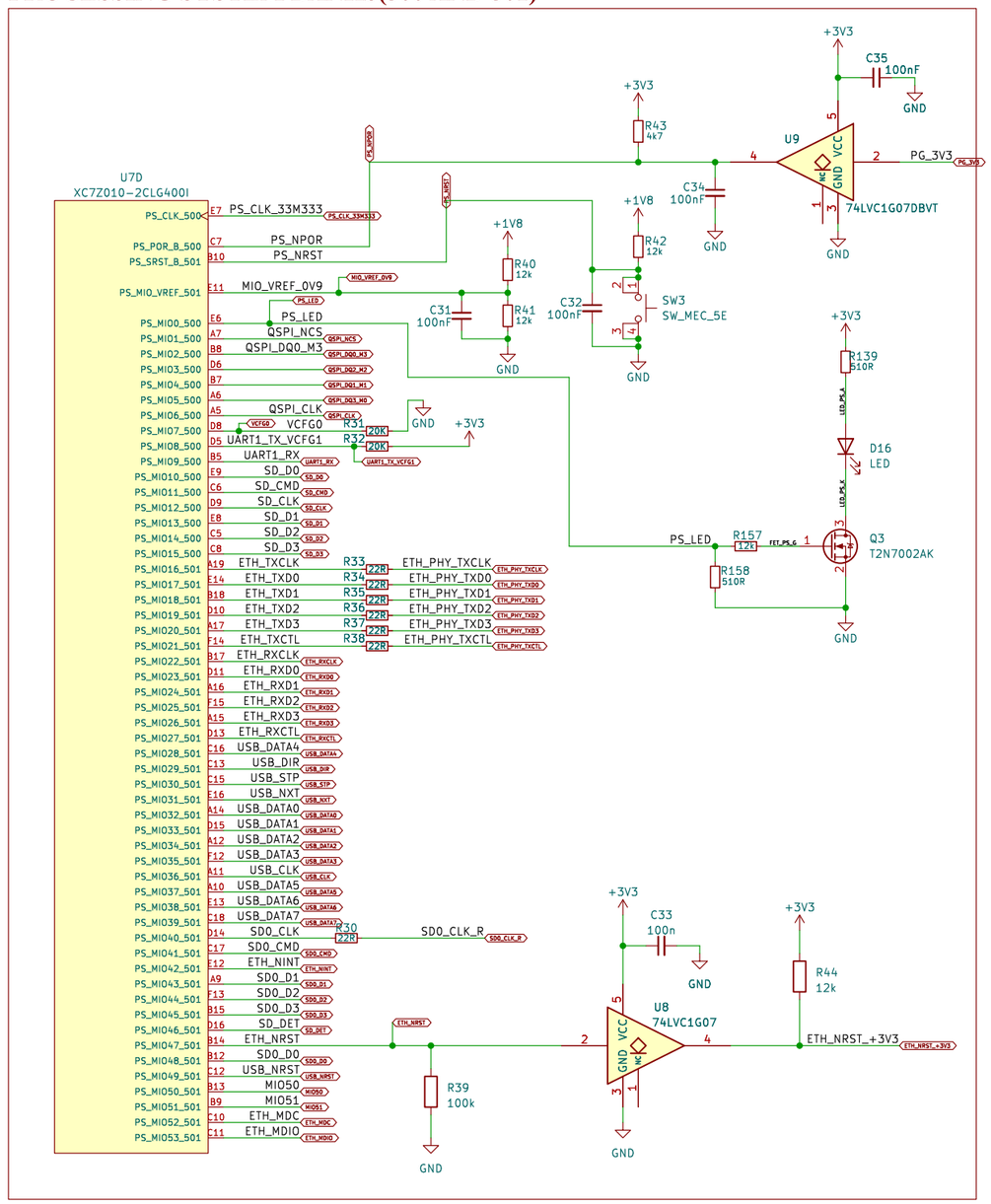



| | | |
|---|---|---|
| Sheet: /[03] – Programmable Logic (PL)/ | | |
| File: PL.kicad_sch | | |
| **Title:** | | |
| Size: A3 | Date: | **Rev:** |
| KiCad E.D.A. 8.0.1 | | Id: 4/11 |

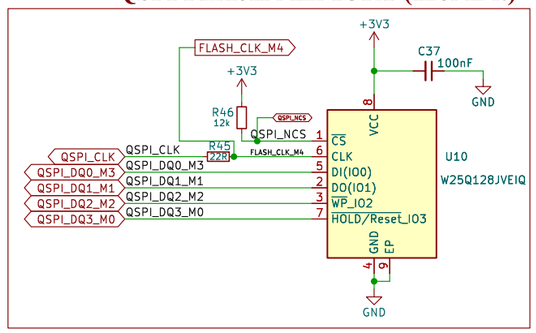
# PROCESSING SYSTEM (PS)

change to 256?

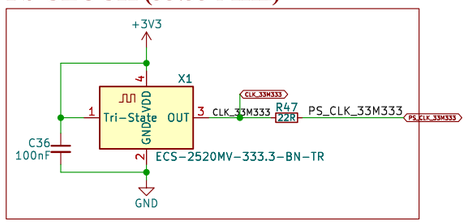
## PROCESSING SYSTEM BANKS(500 AND 501)



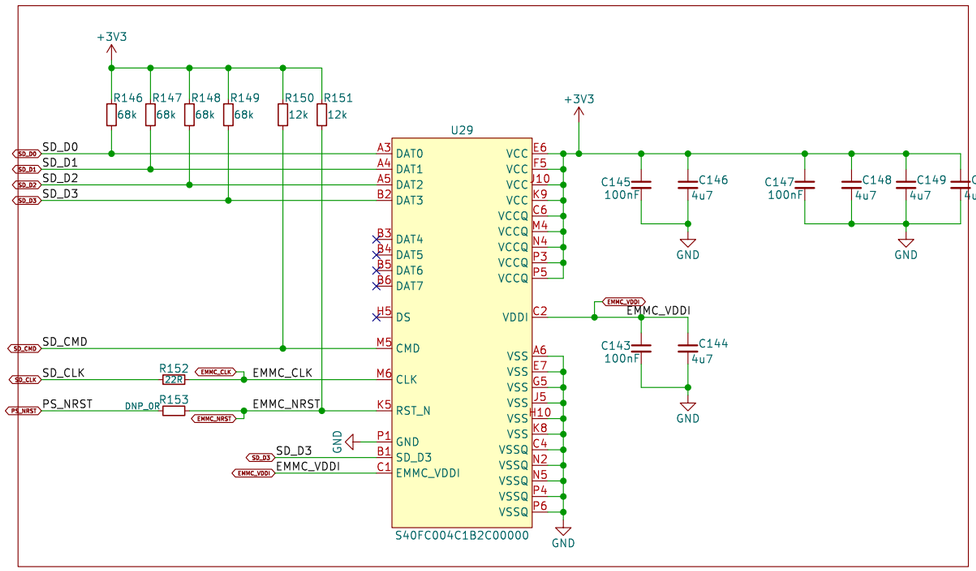

## QSPI FLASH MEMORY (128MBit)




## PS CLOCK (33.33 MHz)



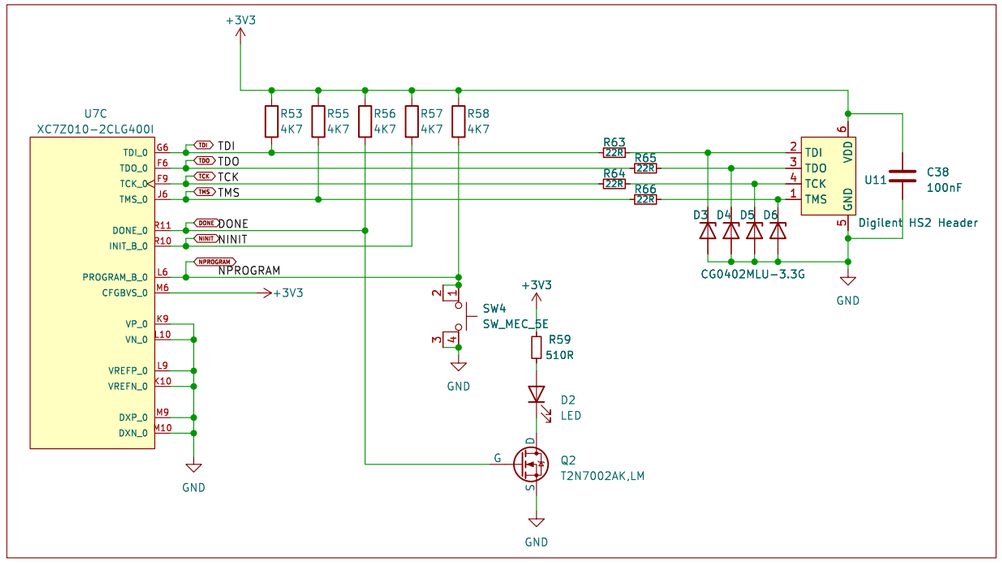

## eMMC MEMORY



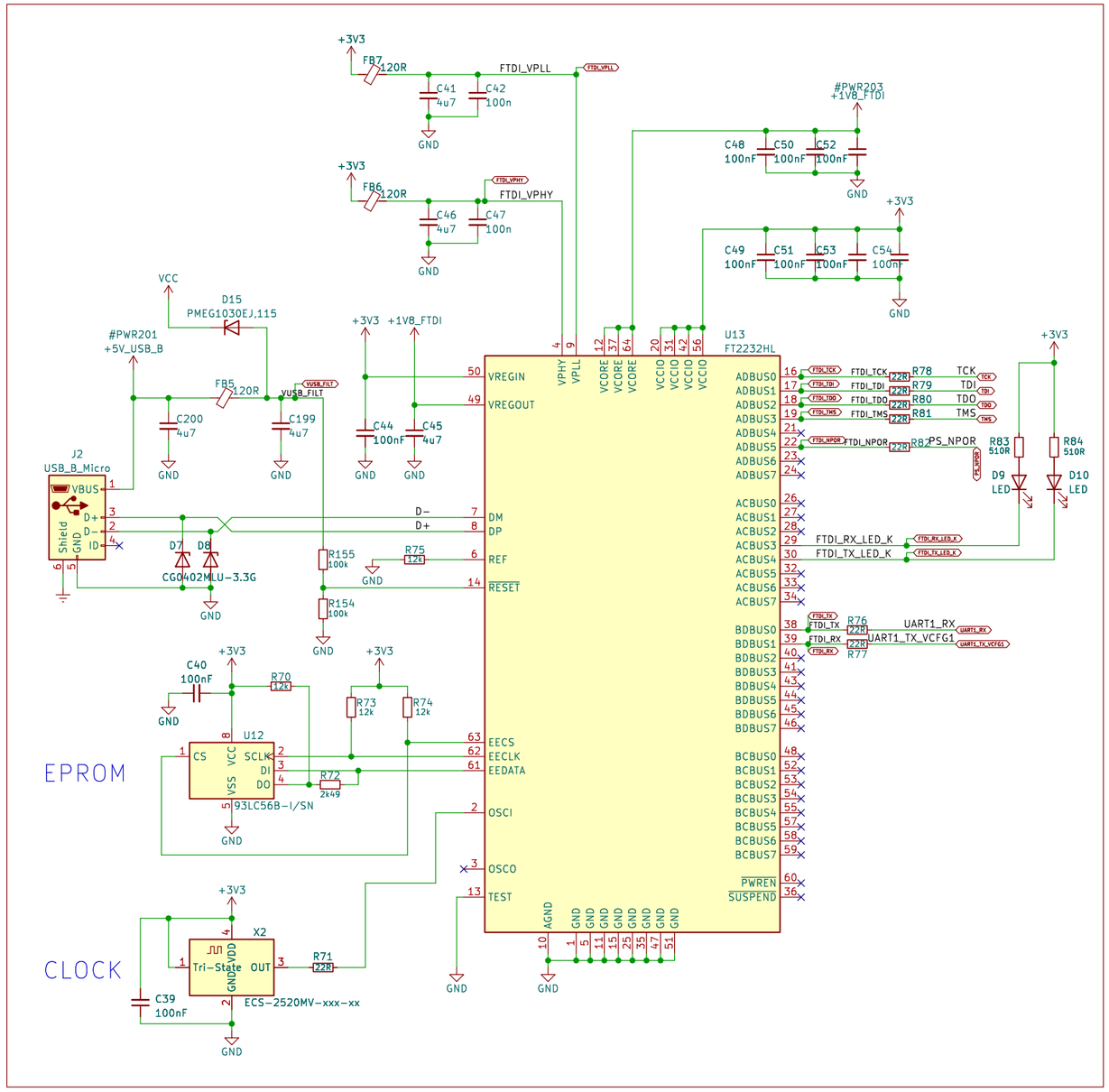

| | | |
|---|---|---|
| Sheet: /[04] – Processing System (PS)/ | | |
| File: PS.kicad_sch | | |
| **Title:** | | |
| Size: A3 | Date: | **Rev:** |
| KiCad E.D.A. 8.0.1 | | Id: 5/11 |

# JTAG

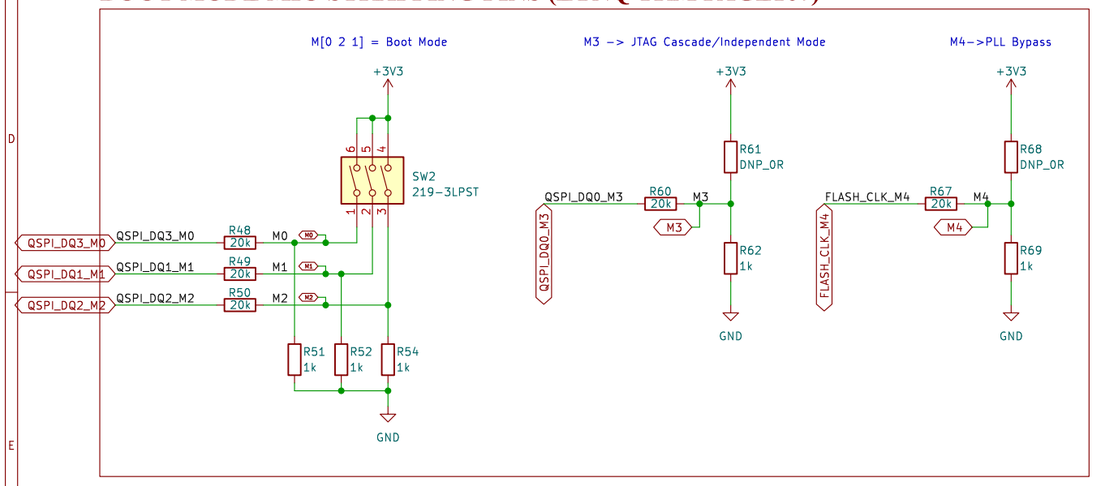
## JTAG




## FTDI JTAG PROGRAMMER

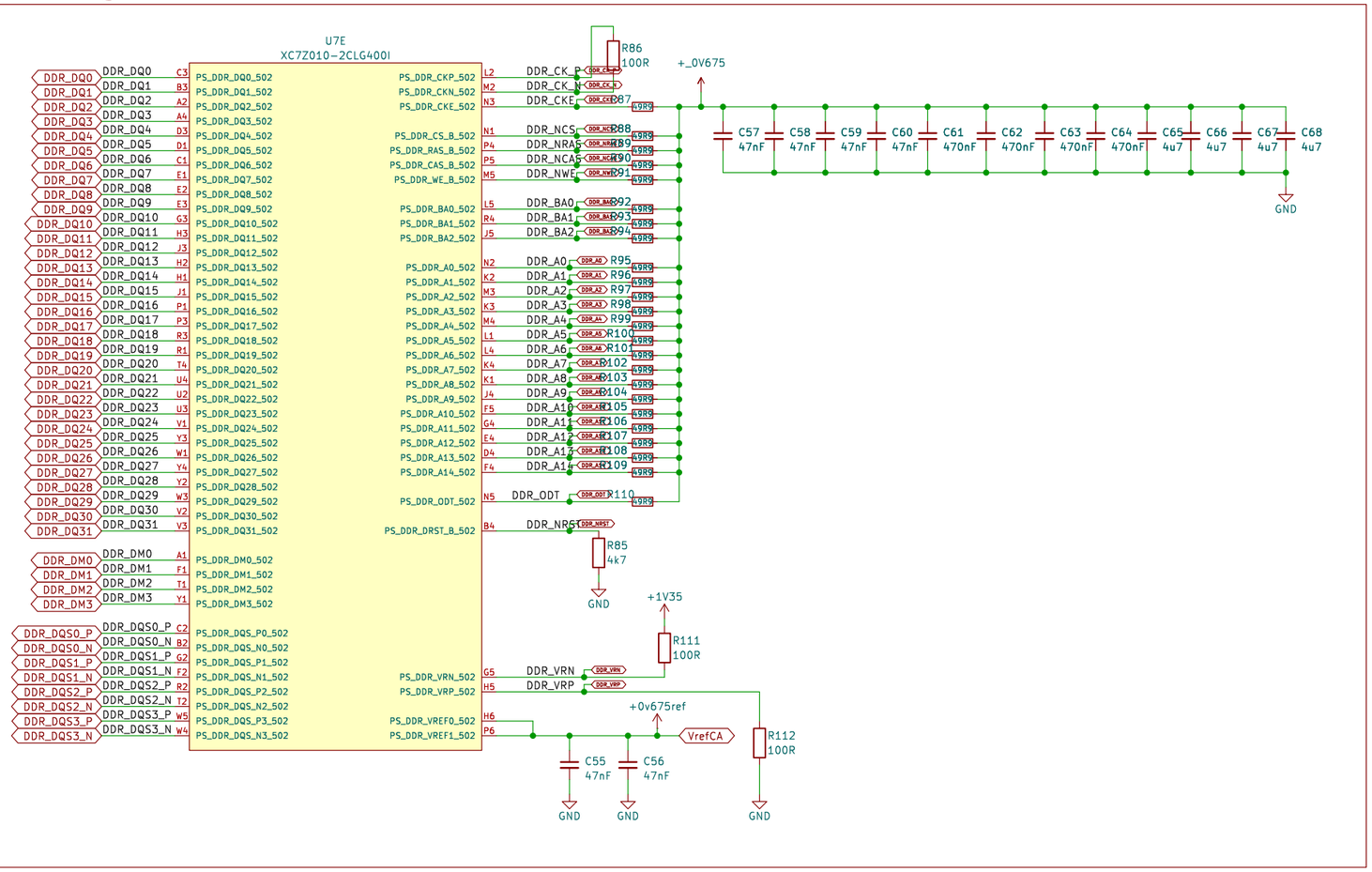



## BOOT MODE MIO STRAPPING PINS (ZYNQ TRM PAGE167)



# ZYNQ DDR

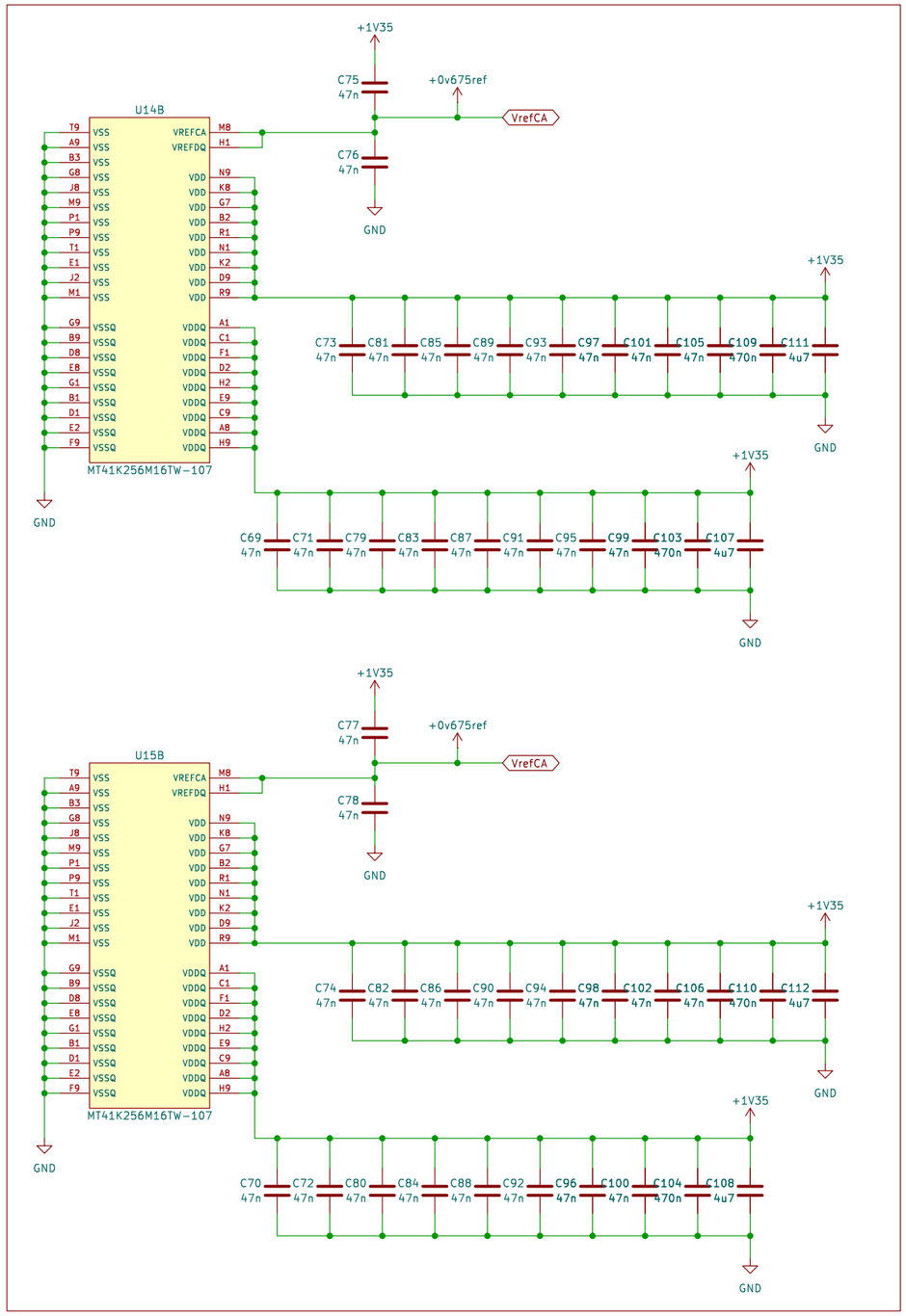
## ZYNQ DDR INTERFACE



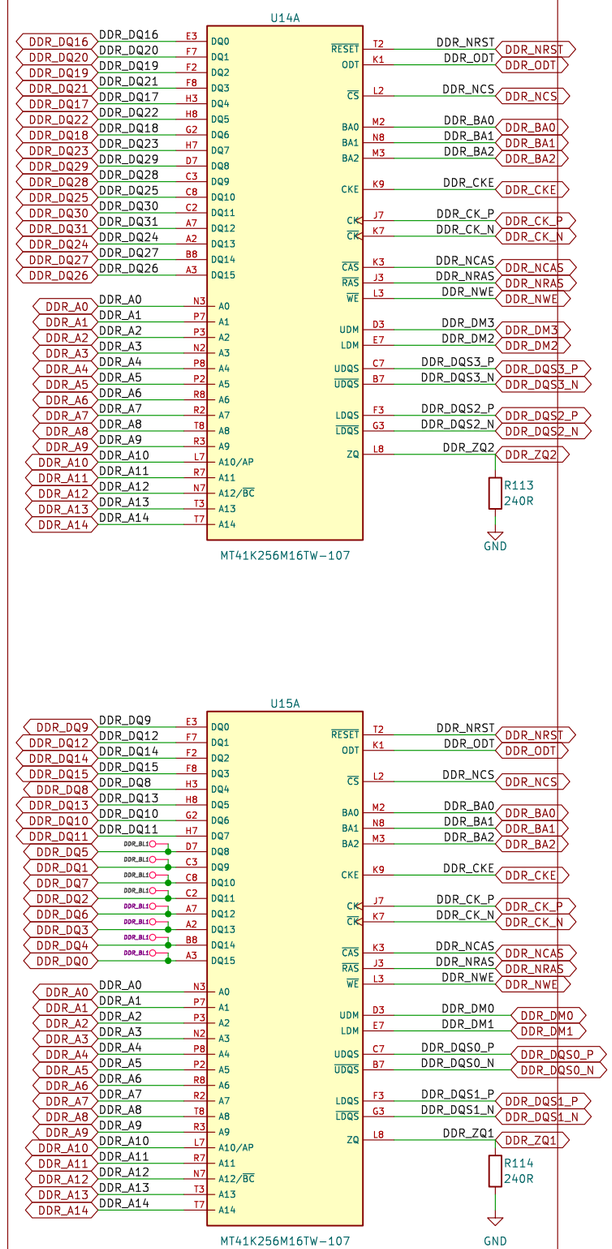

| | | |
|---|---|---|
| Sheet: /[06] – Zync DDR/ | | |
| File: Memory.kicad_sch | | |
| **Title:** | | |
| Size: A3 | Date: | **Rev:** |
| KiCad E.D.A. 8.0.1 | | Id: 7/11 |

# 1GB DDR3

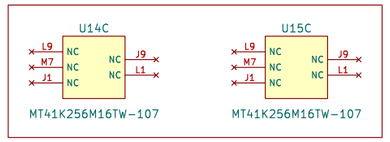
## POWER & DECAP




## ACC & DAT CONNECTIONS



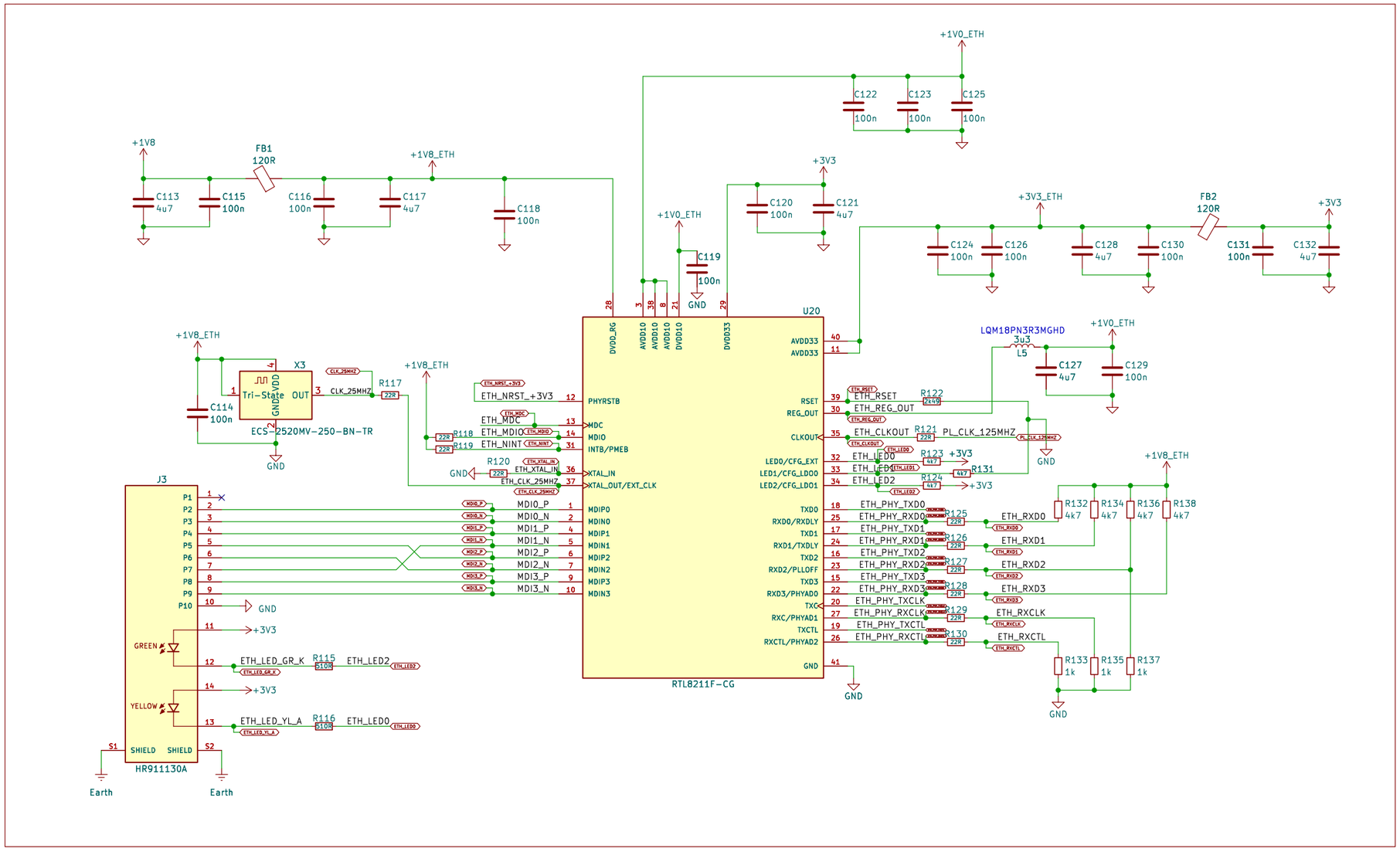

## NOT CONNECTED




| | | |
|---|---|---|
| Sheet: /[07] – DDR3/ | | |
| File: DDR3.kicad_sch | | |
| **Title:** | | |
| Size: A3 | Date: | **Rev:** |
| KiCad E.D.A. 8.0.1 | | Id: 8/11 |

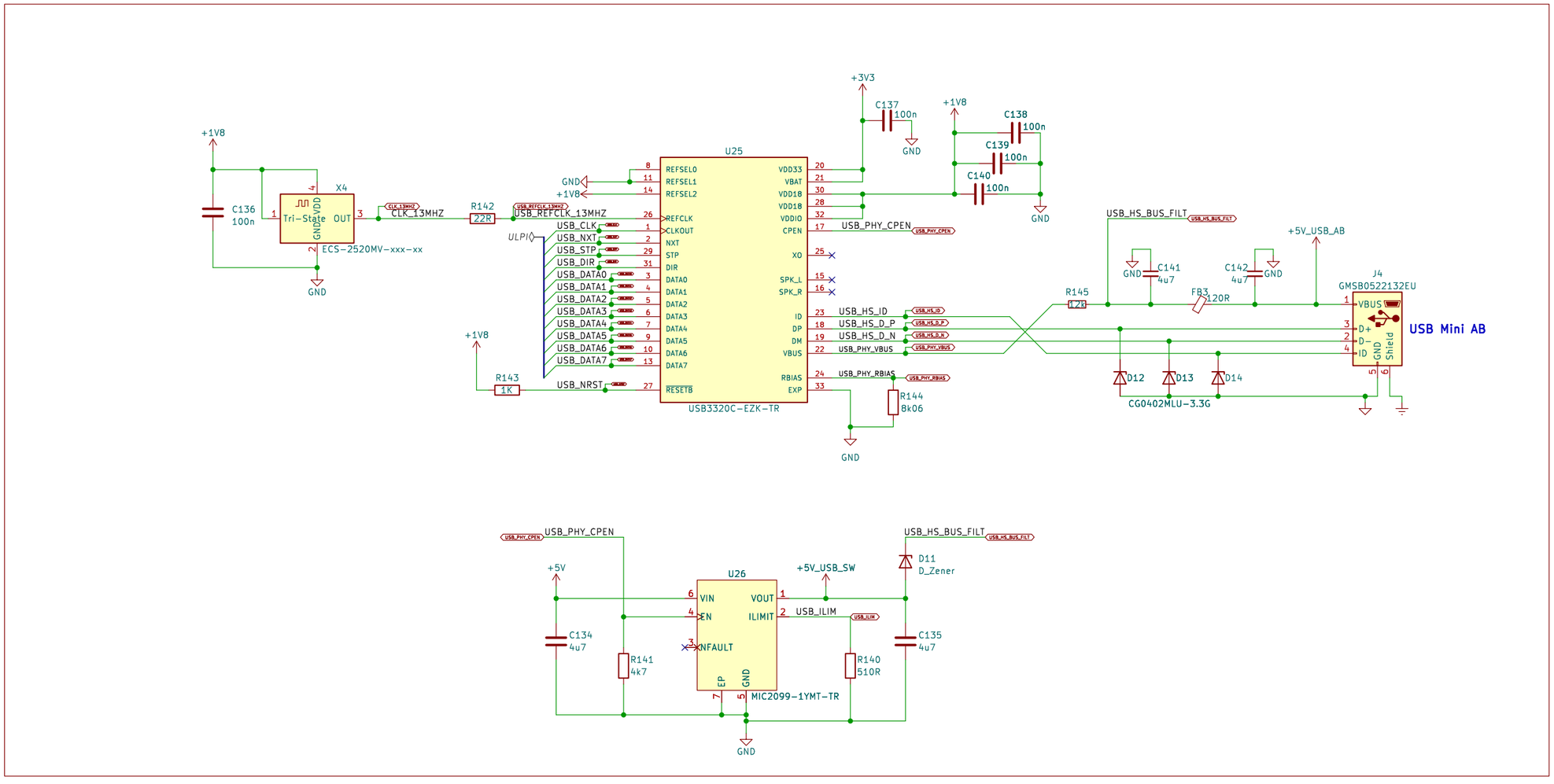
# ETHERNET

## POWER & DECAP




| | | |
|---|---|---|
| Sheet: /[08] – Ethernet/ | | |
| File: Ethernet.kicad_sch | | |
| **Title:** | | |
| Size: A3 | Date: | **Rev:** |
| KiCad E.D.A. 8.0.1 | | Id: 9/11 |

# HIGH SPEED (OTG)



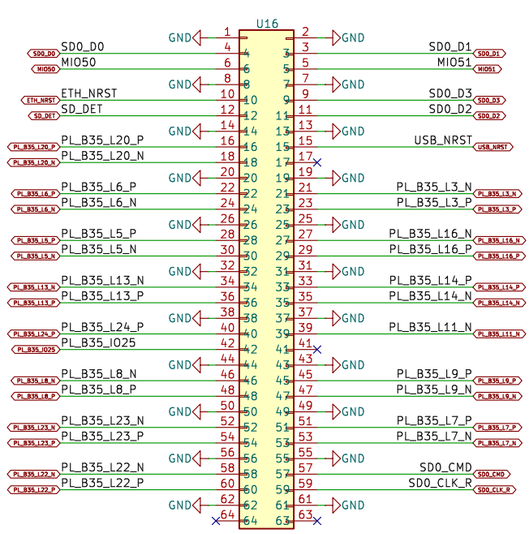


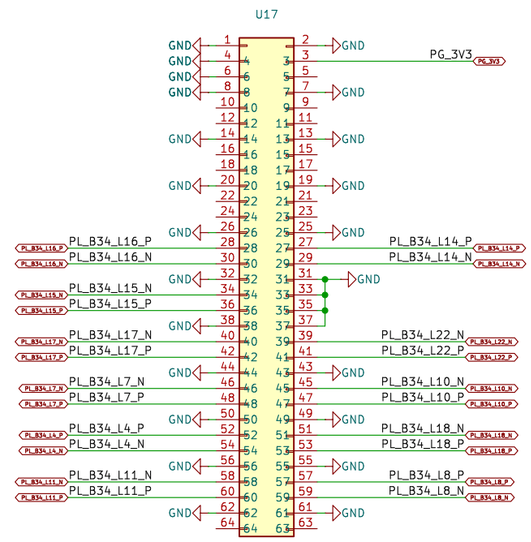


| | | |
|---|---|---|
| Sheet: /[09] – High Speed (OTG)/ | | |
| File: OTG.kicad_sch | | |
| **Title:** | | |
| Size: A3 | Date: | **Rev:** |
| KiCad E.D.A. 8.0.1 | | Id: 10/11 |

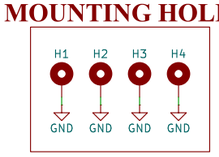
# MECHANICAL & PERIPHERALS

## MEZZANINE CONNECTORS

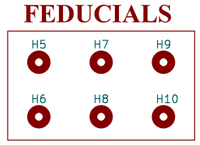


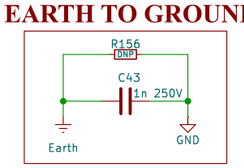

## MOUNTING HOLES

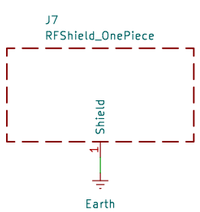


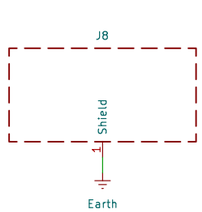

## FEDUCIALS




## EARTH TO GROUND




Sheet: /[10] – Peripherals/
File: Peripherals.kicad_sch

**Title:**

| Size: A3 | Date: | **Rev:** |
|---|---|---|
| KiCad E.D.A. 8.0.1 | | Id: 11/11 |