

1 2 3 4 5 6 7 8

POWER

File: POWER.kicad\_sch

DAPLINK

File: DAPLINK.kicad\_sch

USB

File: USB.kicad\_sch

MOTOR & CAN

File: MOTOR & CAN.kicad\_sch

MCU\_PWR

File: MCU\_PWR.kicad\_sch

CAMERA & DISPLAY

File: CAMERA & DISPLAY.kicad\_sch

MEMORY

File: MEMORY.kicad\_sch

EXT INTERFACE

File: EXT INTERFACE.kicad\_sch

MCU\_PORTS

File: MCU\_PORTS.kicad\_sch

GIG ENETO

File: GIG ENETO.kicad\_sch

IMU & MAG

File: IMU & MAG.kicad\_sch

OB DEVICE

File: OB DEVICE.kicad\_sch

GIG ENET1

File: GIG ENET1.kicad\_sch

WIFI & SDCARD

File: WIFI & SDCARD.kicad\_sch

**Titan Board**



Author: MikeZhang  
<https://www.rt-thread.org/>

Sheet: /  
File: TITAN\_KICAD.kicad\_sch

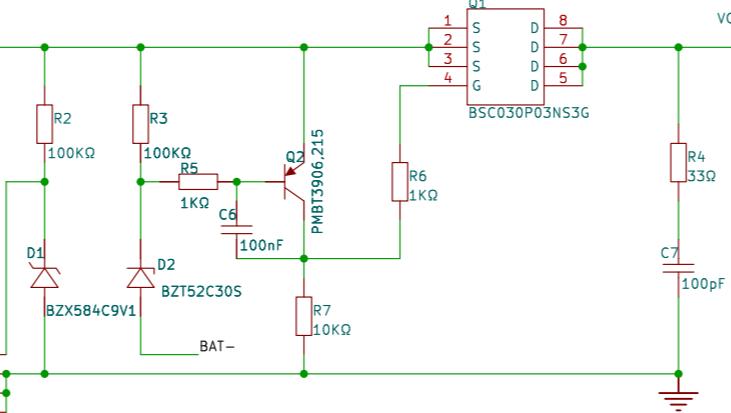
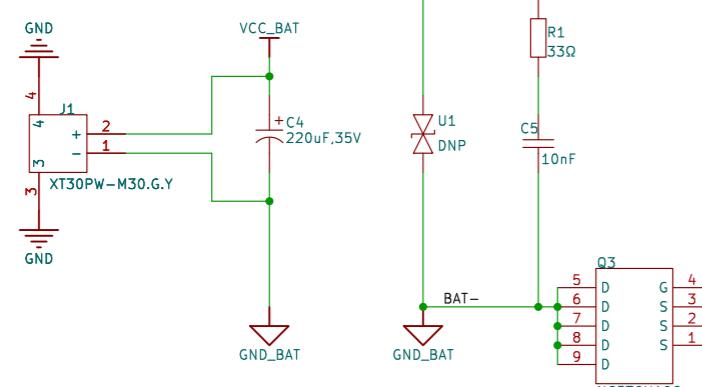
Title: **POWER**

Size: A3 | Date: 2025-10-14  
KiCad E.D.A. 9.0.0

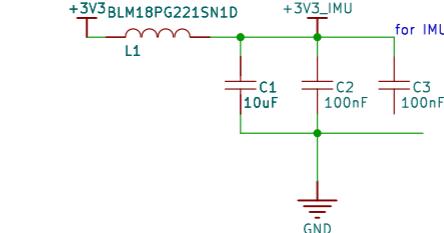
Rev: HW:V1.1 | Id: 1/15

1 2 3 4 5 6 7 8

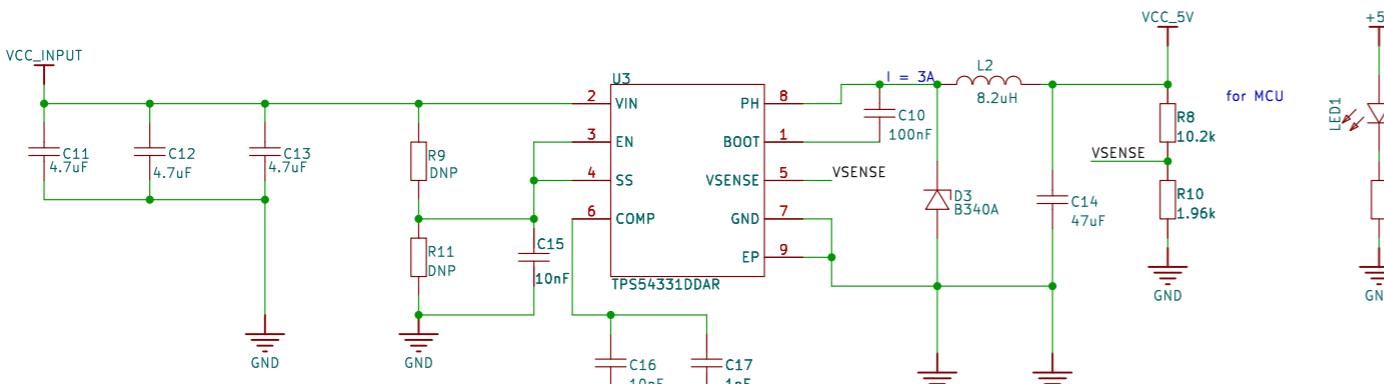
## 防反接，缓启动



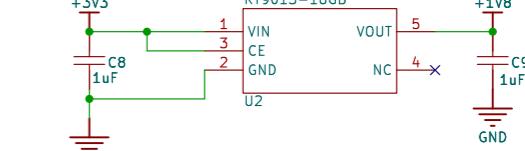
3.3V\_IMU



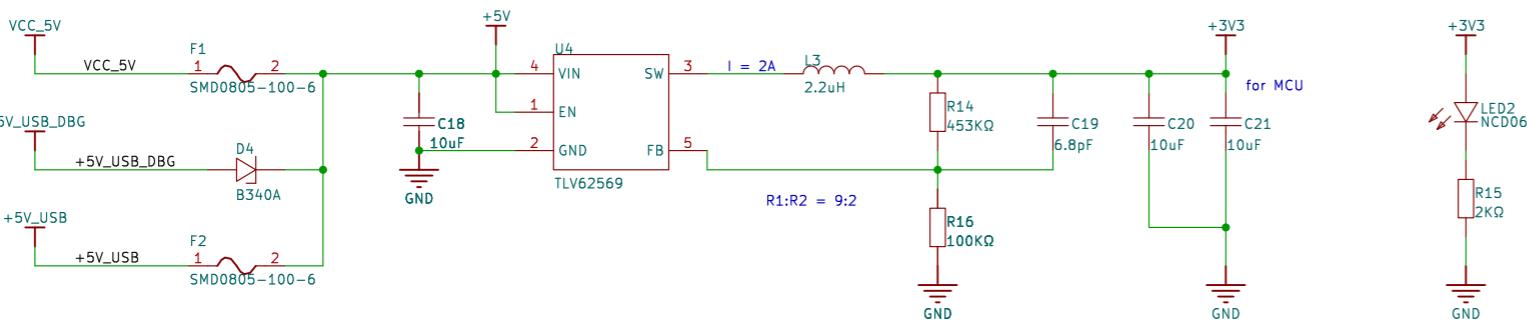
9~24V → 5V



3.3V → 1.8V



5V → 3.3V



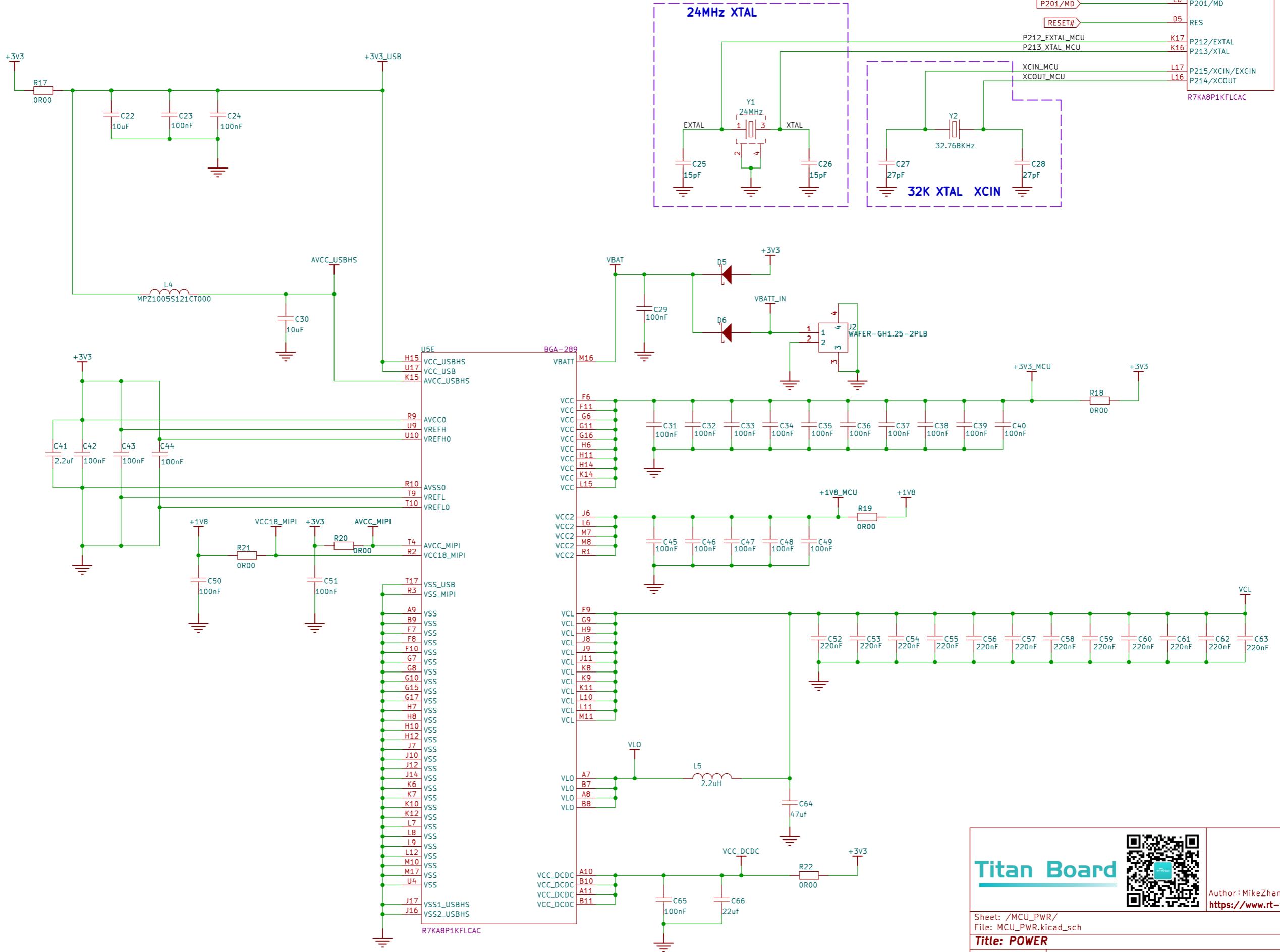
Titan Board

Author: MikeZhang  
<https://www.rt-thread.org/>

Sheet: /POWER/  
File: POWER.kicad\_sch

Title: POWER  
Size: A3 Date:

# RA8P1 Microcontroller



**Titan Board**



Author: MikeZhang  
<https://www.rt-thread.org/>

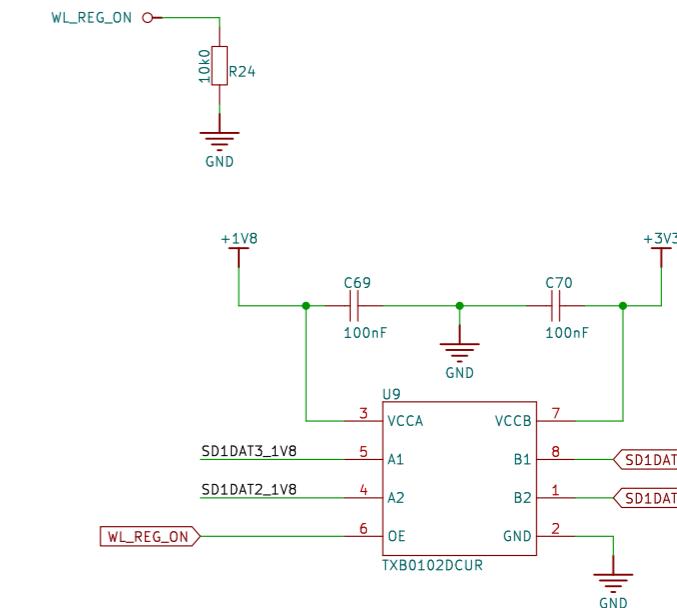
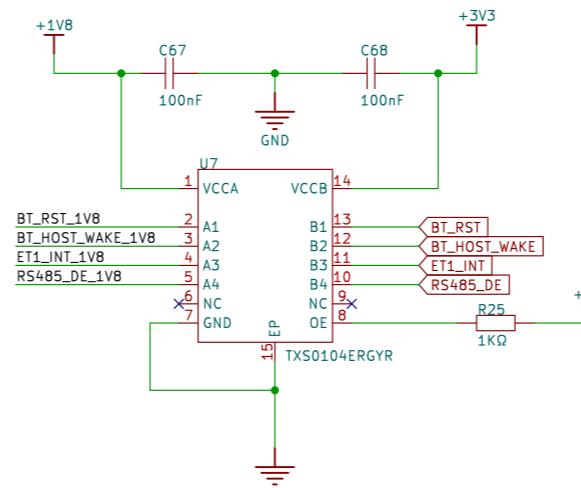
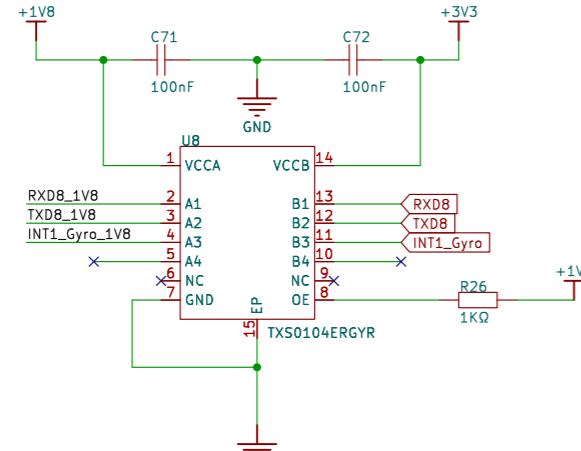
Sheet: /MCU\_PWR/  
File: MCU\_PWR.kicad\_sch

**Title: POWER**

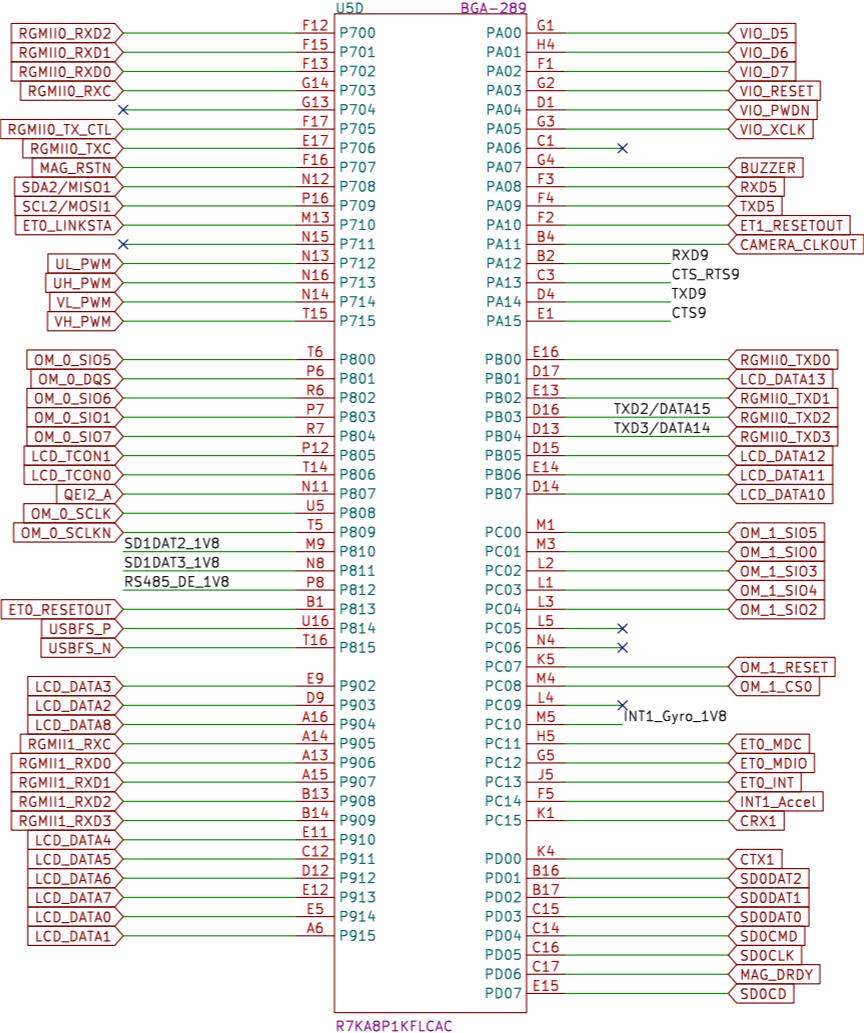
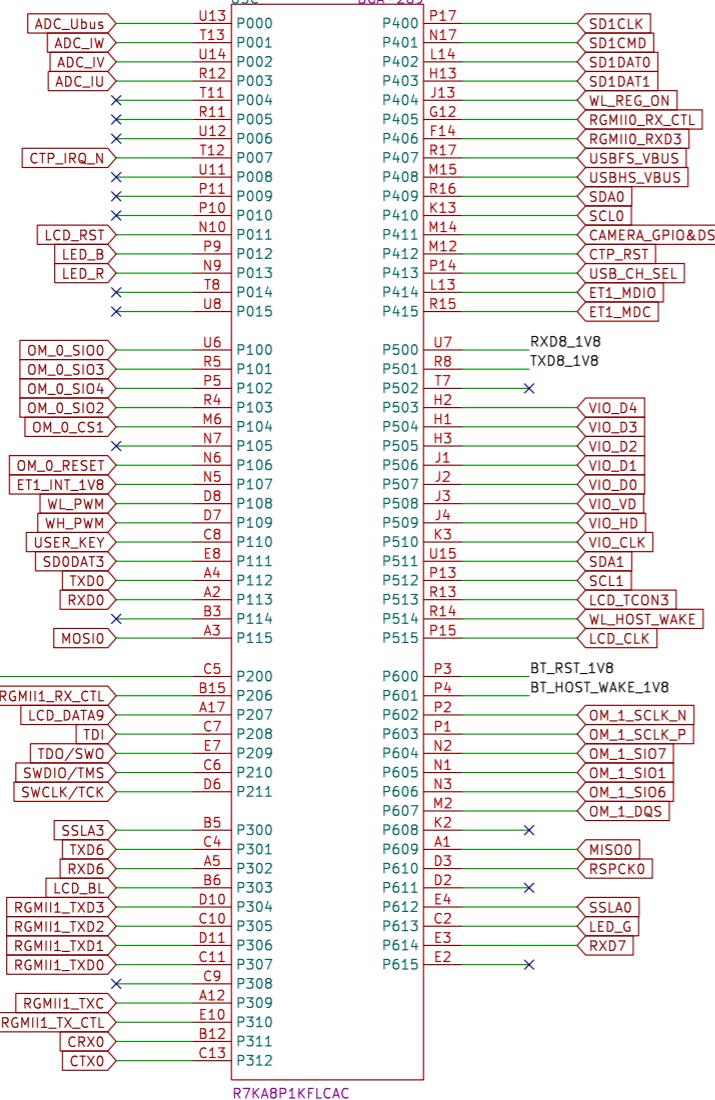
Size: A3 | Date: 2025-10-14  
KiCad E.D.A. 9.0.0

Rev: HW/V1.1  
Id: 3/15

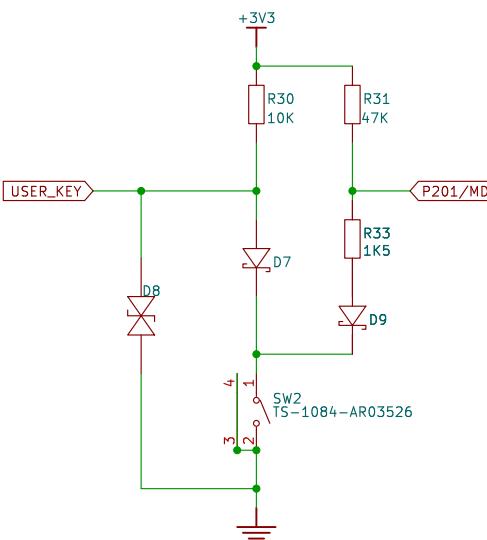
电平转换 $1.8V \rightarrow 3.3V$



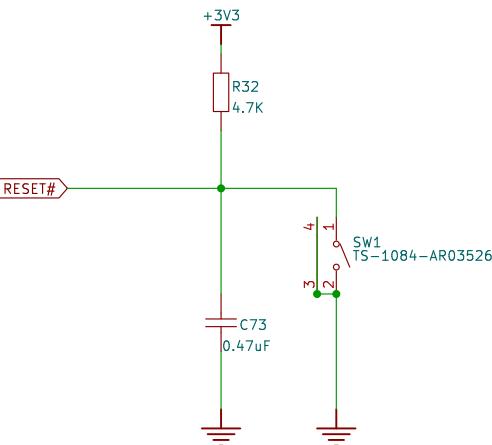
### RA8P1 Microcontroller



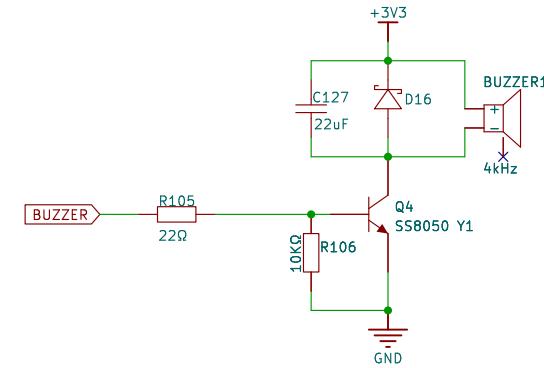
## USER/BOOT BUTTON



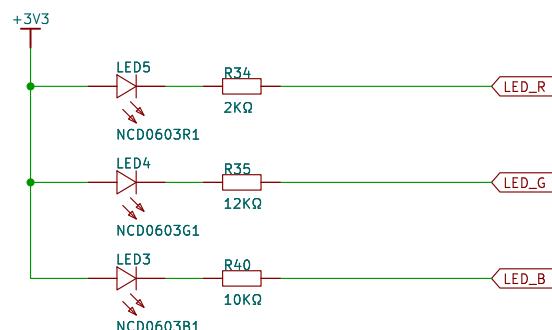
## RESET PUSH-BUTTON



## BUZZER



## USER LEDS



**Titan Board**



Author: MikeZhang  
<https://www.rt-thread.org/>

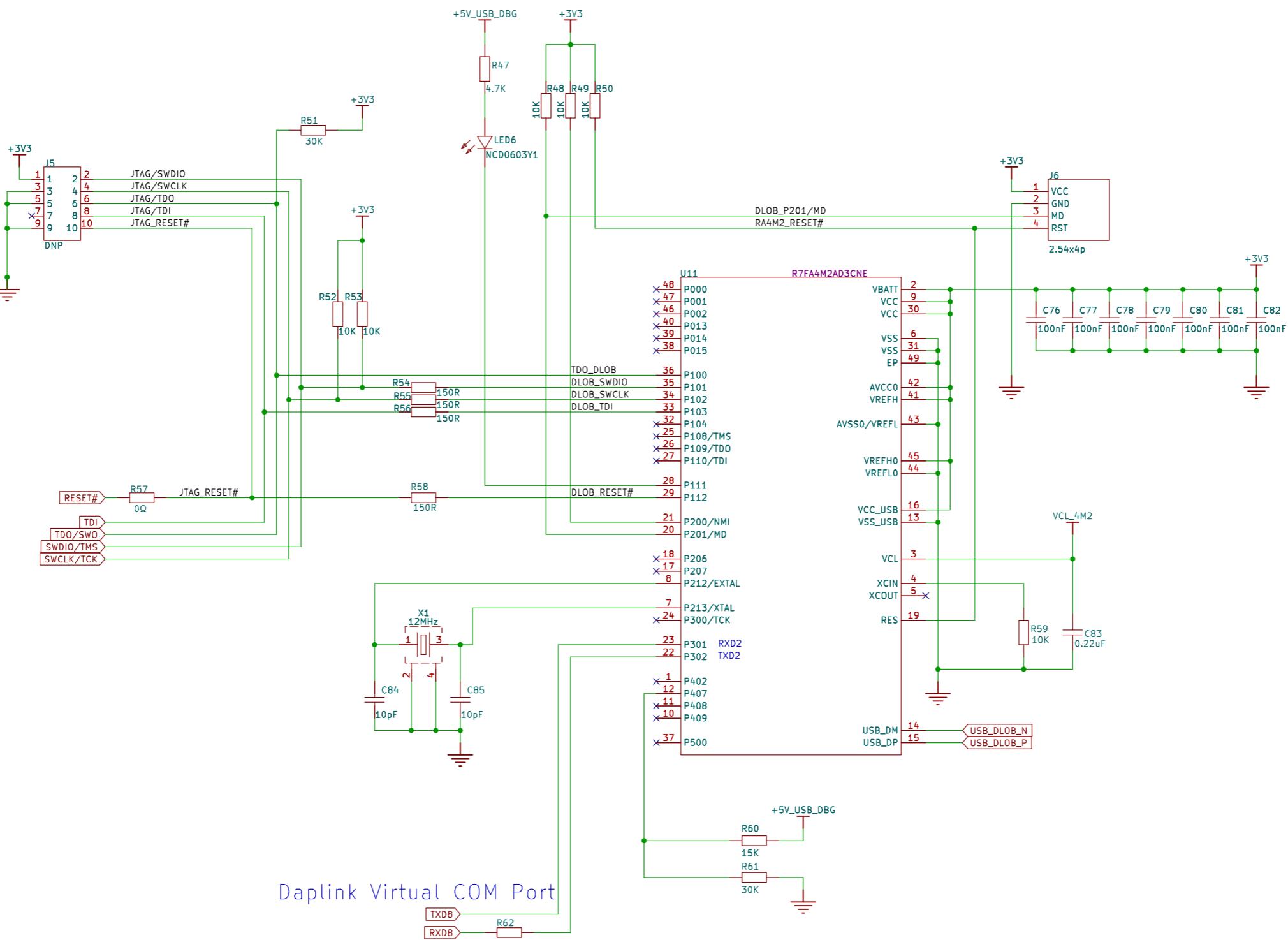
Sheet: /OB DEVICE/  
File: OB DEVICE.kicad\_sch

Title: POWER

Size: A4 Date: 2025-10-14  
KiCad E.D.A. 9.0.0

Rev: HW:V1.1  
Id: 5/15

# DAPLINK



**Titan Board**



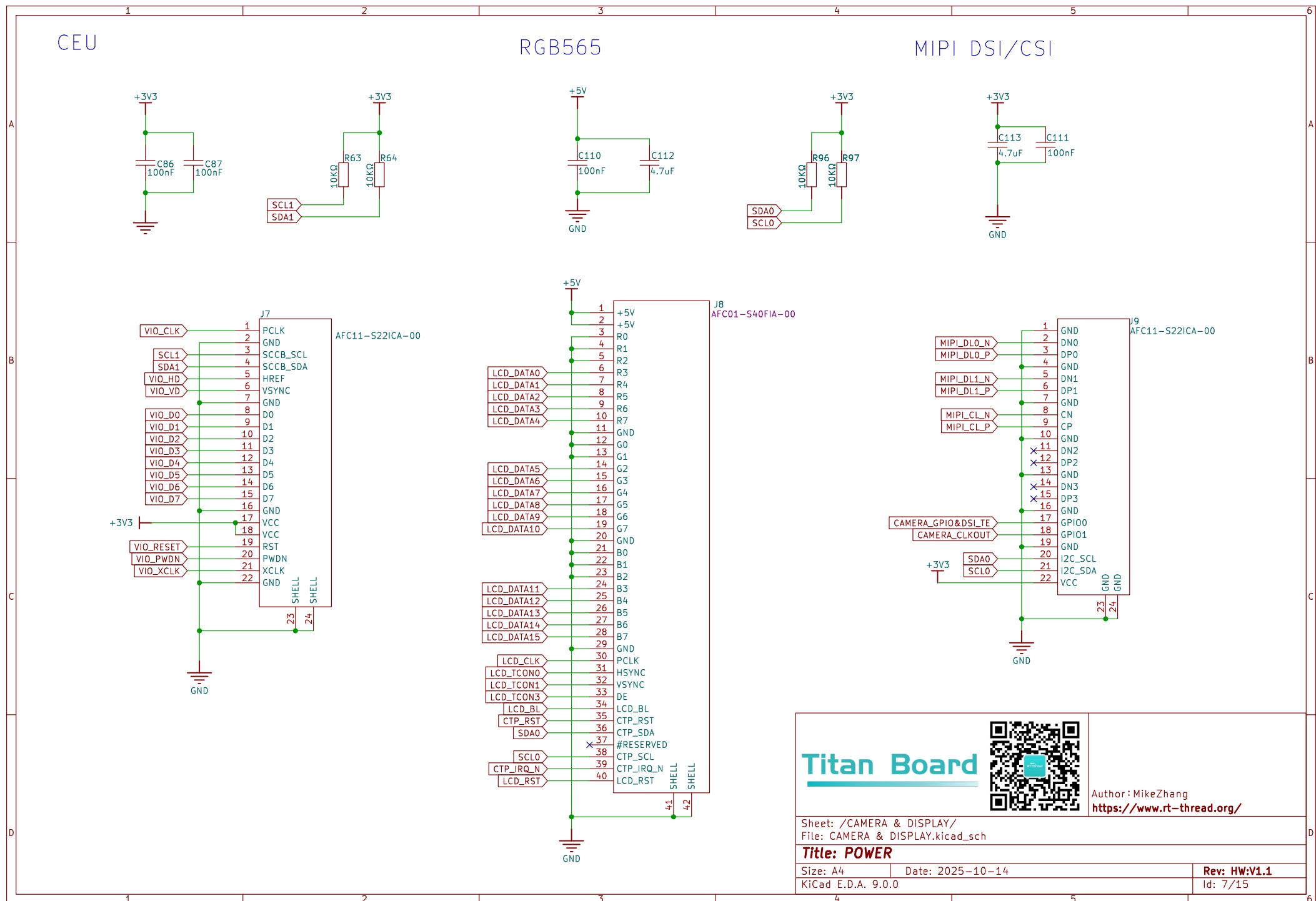
Author: MikeZhang  
<https://www.rt-thread.org/>

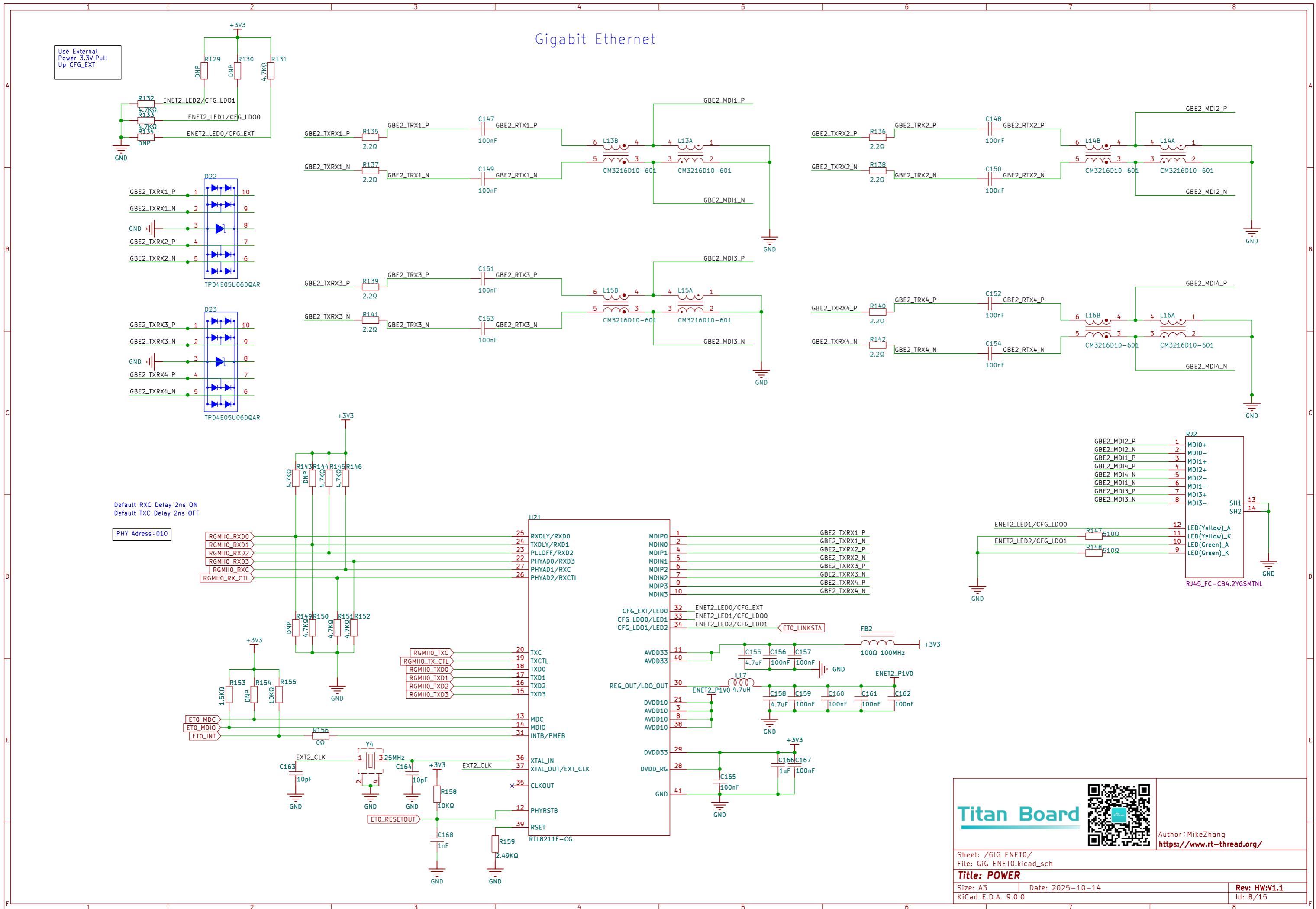
Sheet: /DAPLINK/  
File: DAPLINK.kicad\_sch

**Title: POWER**

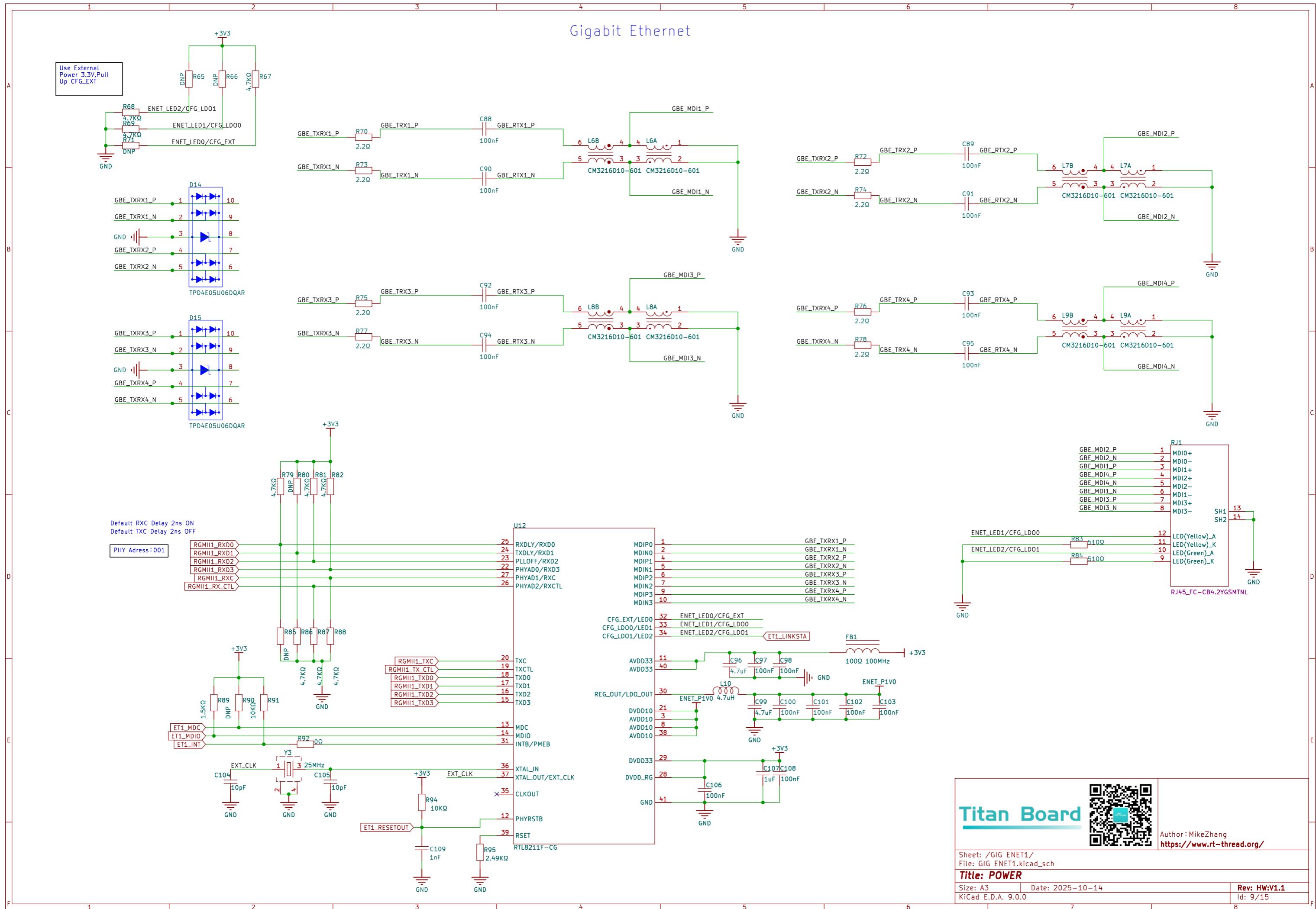
Size: A3 Date: 2025-10-14  
KiCad E.D.A. 9.0.0

Rev: HW:V1.1  
Id: 6/15





# Gigabit Ethernet



Titan Board



Author: MikeZhang  
<https://www.rt-thread.org/>

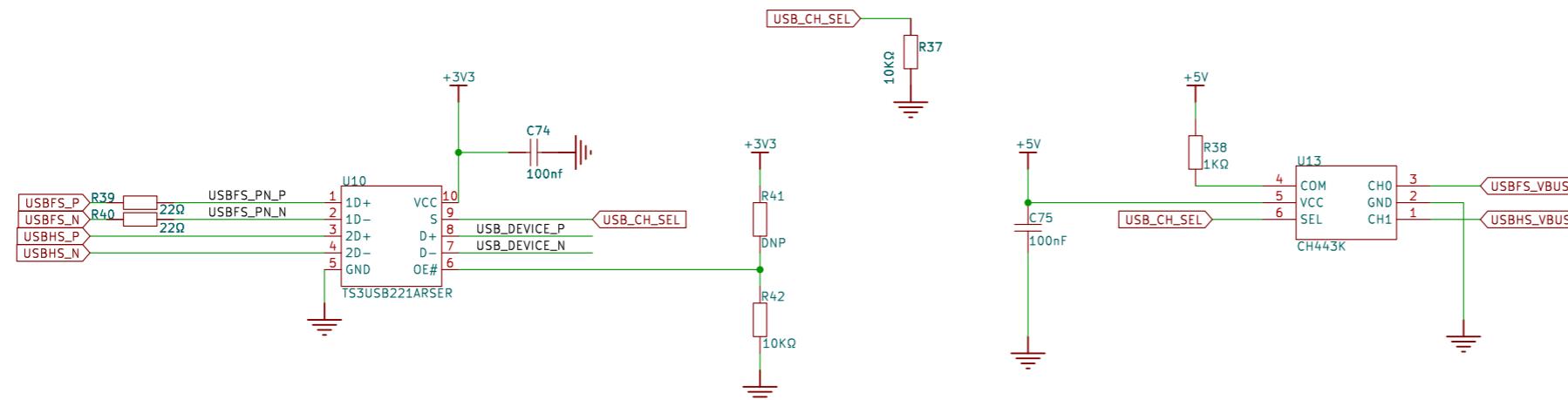
Sheet: /GIG\_ENET1/  
File: GIG\_ENET1.kicad\_sch

Title: POWER

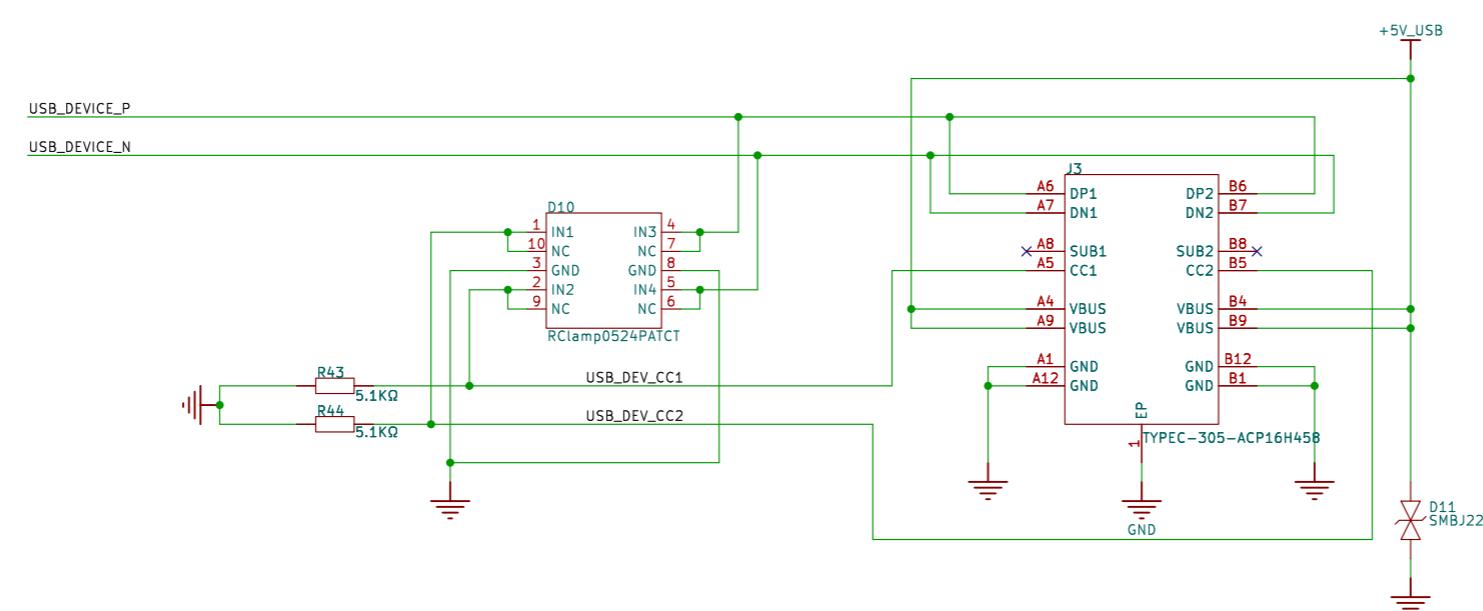
Size: A3 | Date: 2025-10-14  
KiCad E.D.A. 9.0.0

Rev: HW:V1.1 | Id: 9/15

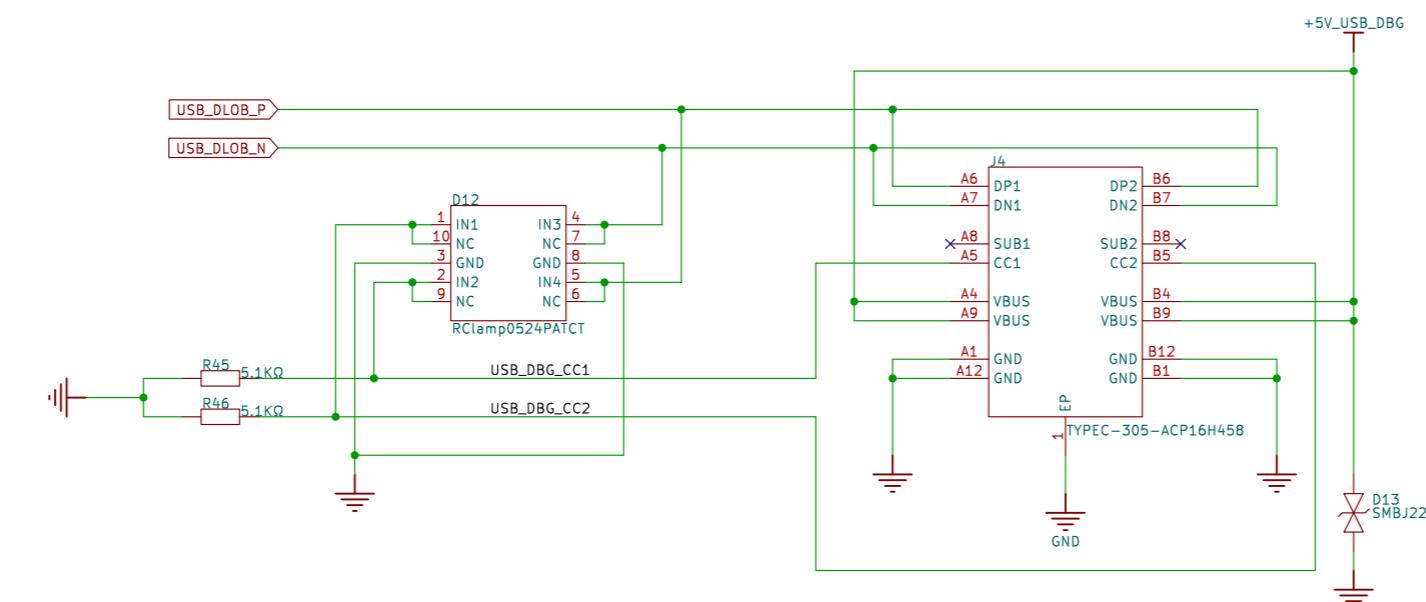
# HS/FS SWITCH



# USB DEVICE HS/FS



# USB\_DEBUG



**Titan Board**



Author: MikeZhang  
<https://www.rt-thread.org/>

Sheet: /USB/  
File: USB.kicad\_sch

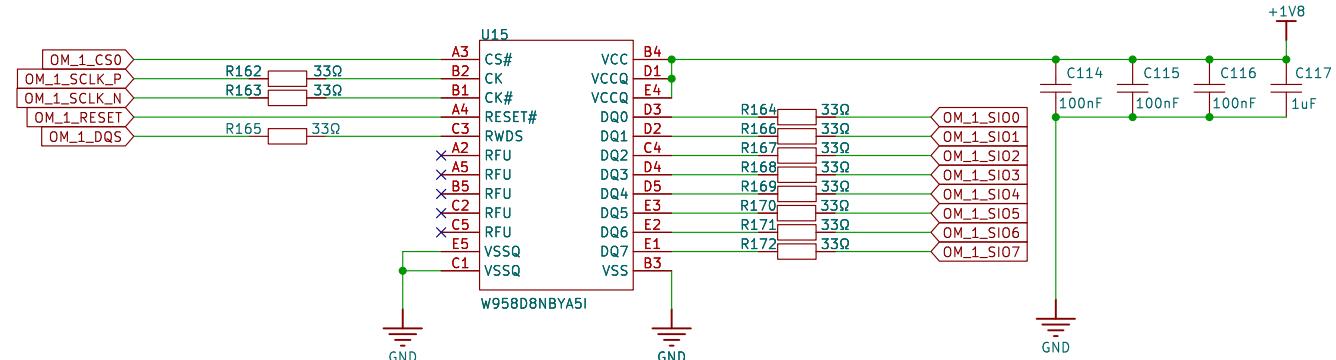
**Title: POWER**

Size: A3 | Date: 2025-10-14  
KiCad E.D.A. 9.0.0

Rev: HW:V1.1 | Id: 10/15

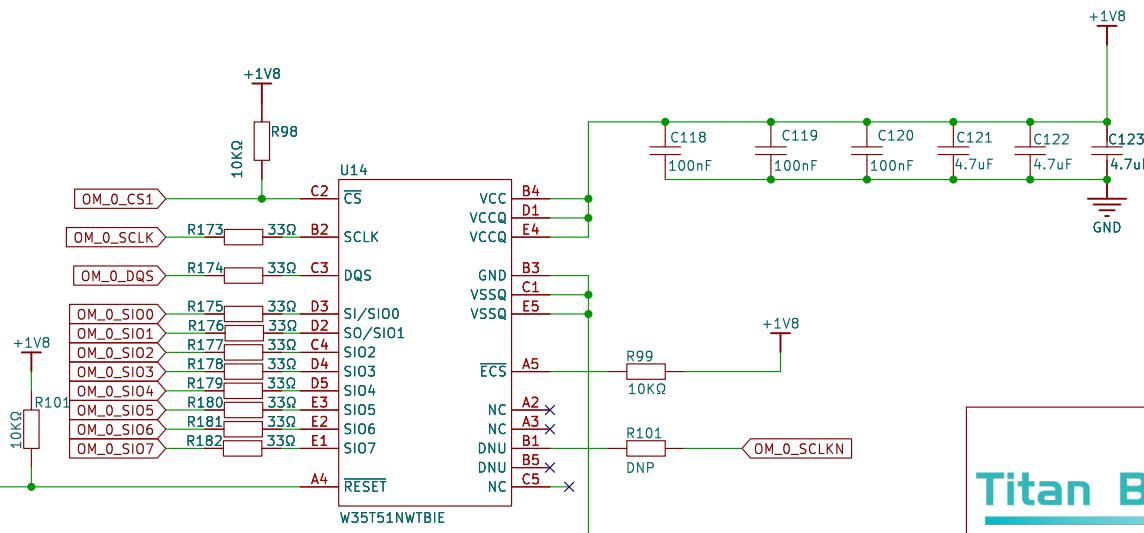
1 2 3 4 5 6

## HYPER RAM



B

## FLASH



D

**Titan Board**



Author: MikeZhang  
<https://www.rt-thread.org/>

Sheet: /MEMORY/  
File: MEMORY.kicad\_sch

**Title: POWER**

Size: A4 Date: 2025-10-14  
KiCad E.D.A. 9.0.0

Rev: HW:V1.1  
Id: 11/15

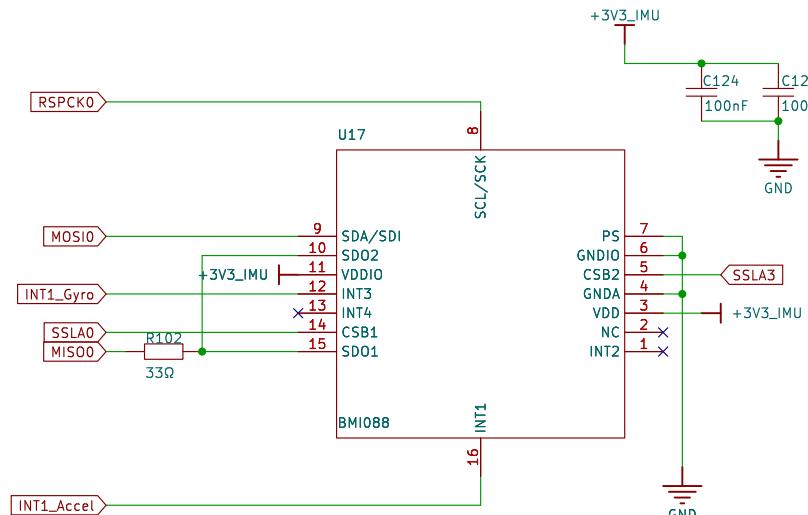
1 2 3 4 5 6

1 2 3 4 5 6

## IMU

A

A



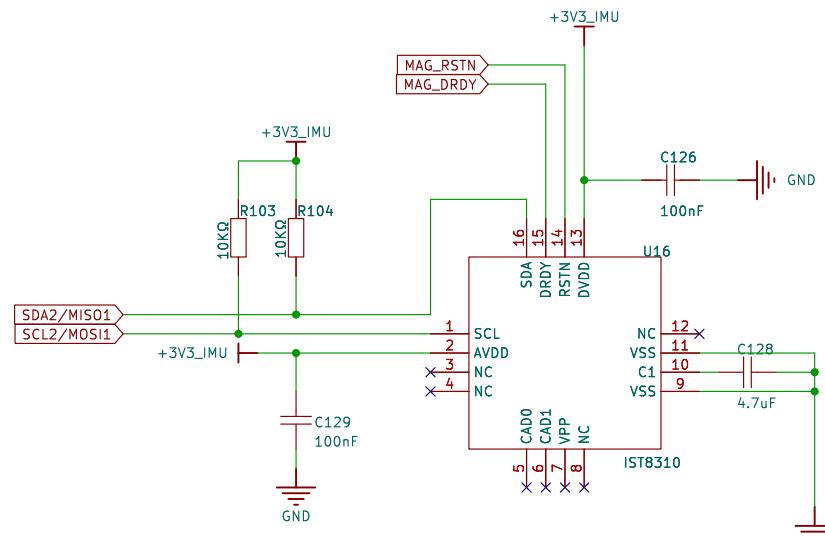
B

B

## MAG

C

C



D

D

**Titan Board**

Author: MikeZhang  
<https://www.rt-thread.org/>

Sheet: /IMU & MAG/  
File: IMU & MAG.kicad\_sch

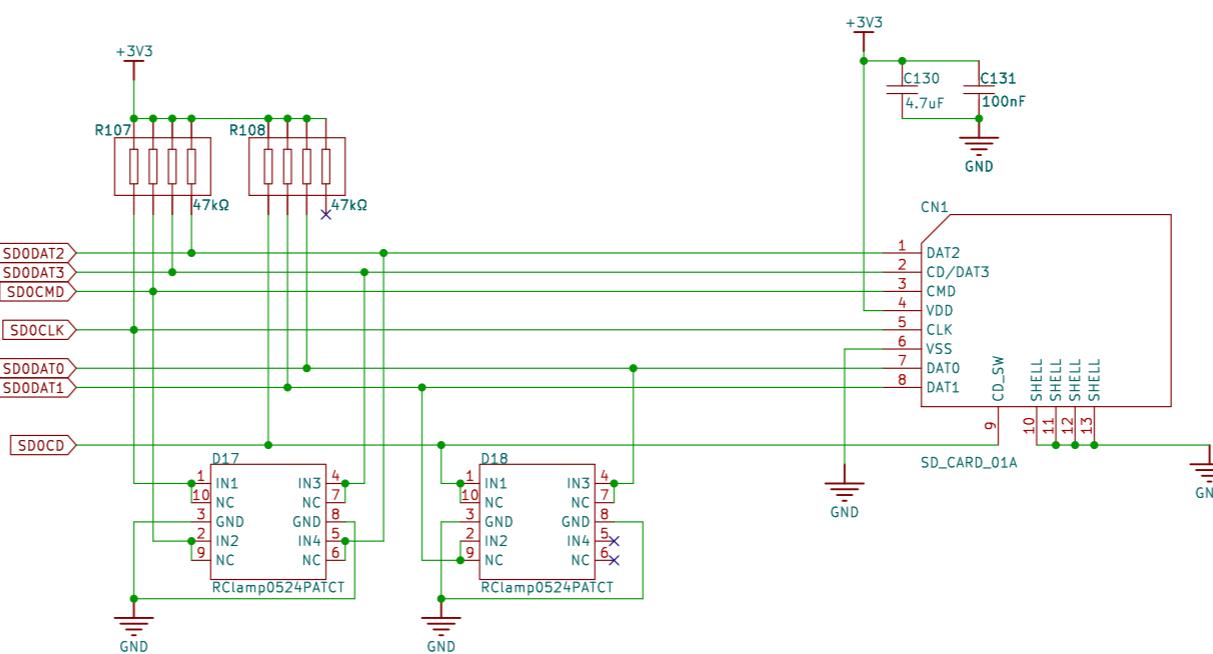
**Title: POWER**

Size: A4 Date: 2025-10-14  
KiCad E.D.A. 9.0.0

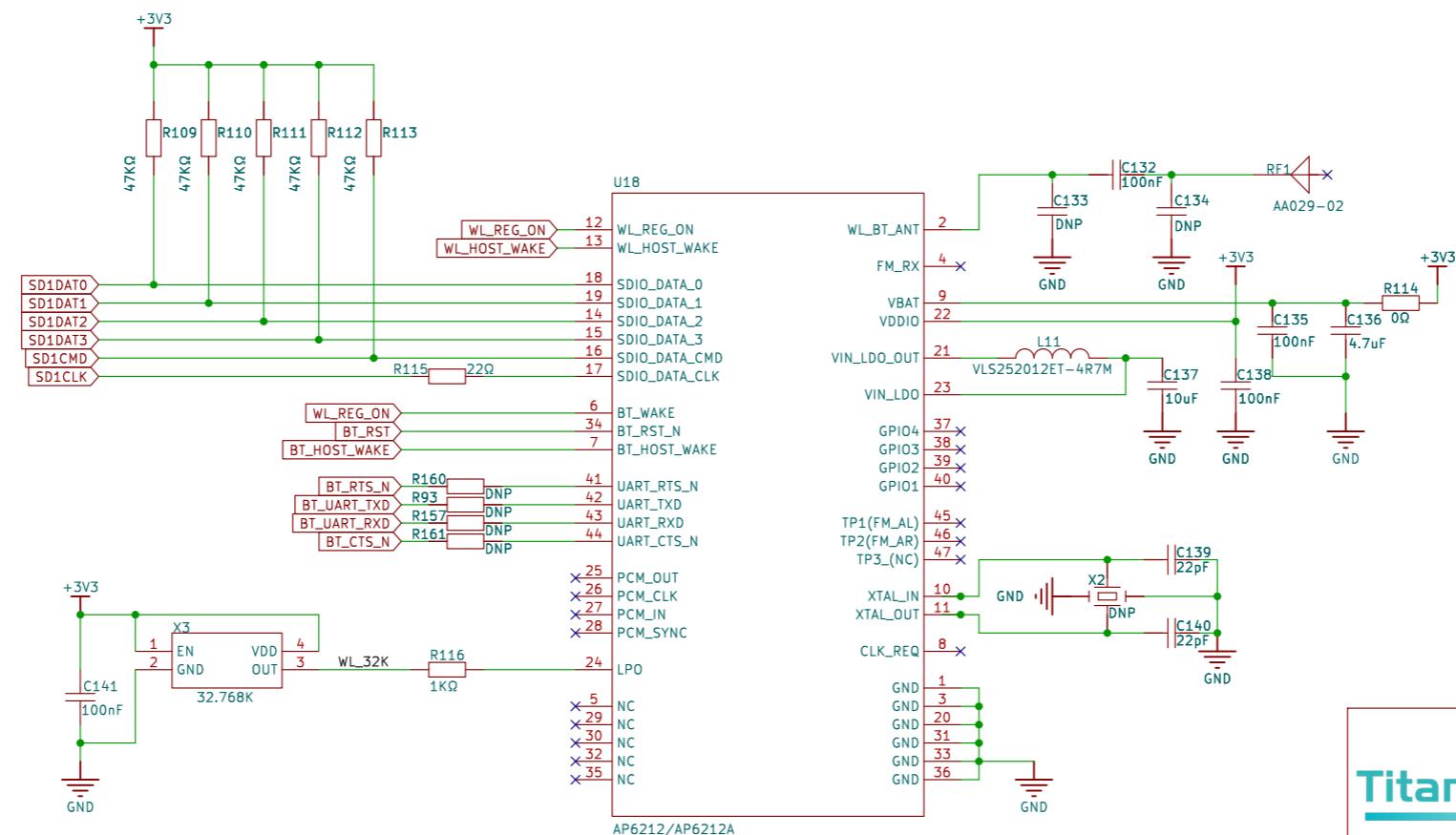
Rev: HW:V1.1  
Id: 12/15

1 2 3 4 5 6

## SD\_CARD



## SDIO\_WIFI



**Titan Board**



Author: MikeZhang  
<https://www.rt-thread.org/>

Sheet: /WIFI & SDCARD/  
File: WIFI & SDCARD.kicad\_sch

**Title: POWER**

Size: A3 | Date: 2025-10-14  
KiCad E.D.A. 9.0.0

Rev: HW:V1.1 | Id: 13/15

