

## POWER

File: POWER.kicad\_sch

**DAPLINK**

File: DAPLINK.kicad\_sch

## USB

File: USB.kicad\_sch

## MOTOR & CAN

File: MOTOR &amp; CAN.kicad\_sch

MCU\_PWR

File: MCU\_PWR.kicad\_sch

## CAMERA & DISPLAY

File: CAMERA &amp; 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\_ENET0.kicad\_sch

## IMU & MAG

File: IMU &amp; MAG.kicad\_sch

OB DEVICE

File: OB\_DEVICE.kicad\_sch

GIG ENET1

File: GIG\_ENET1.kicad\_sch

## WIFI & SDCARD

File: WIFI &amp; SDCARD.kicad\_sch

## Titan Board



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

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

**Title:** POWER

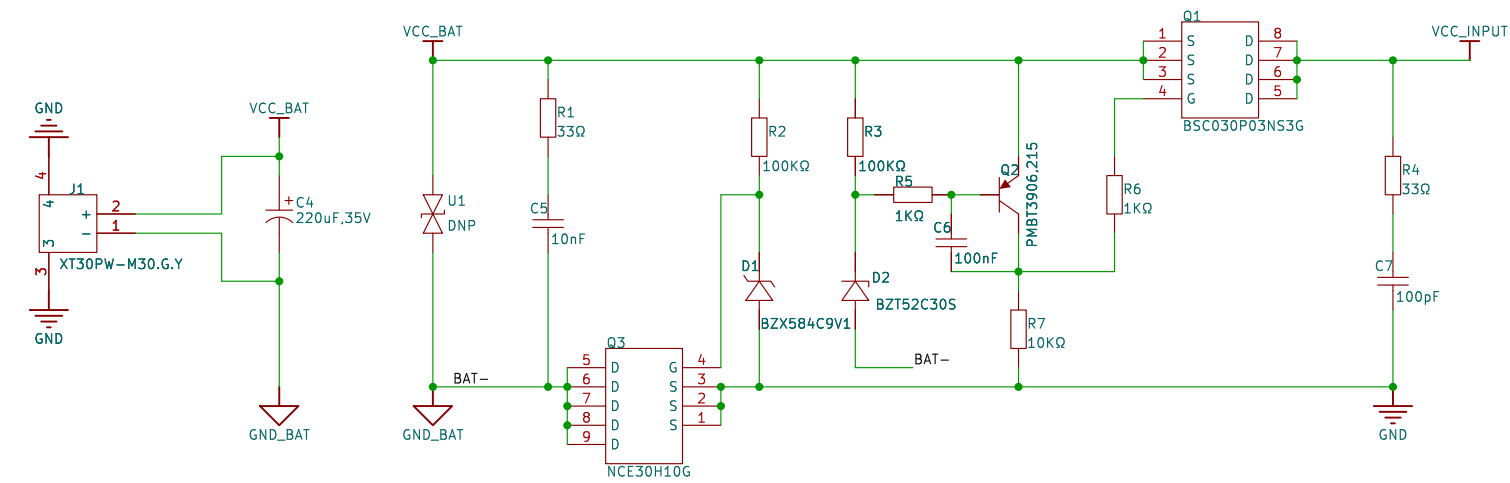
Size: A3	
KiCad E.D.A. 9.0.0	

Date: 2025-10-14

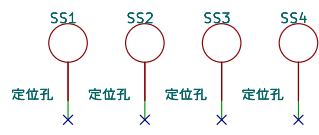
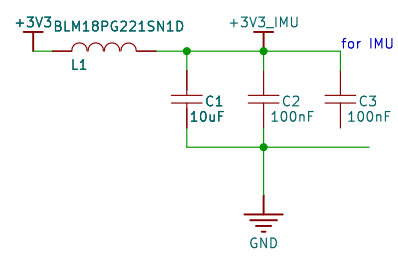
Rev: HW:V1.1

Id: 1/15

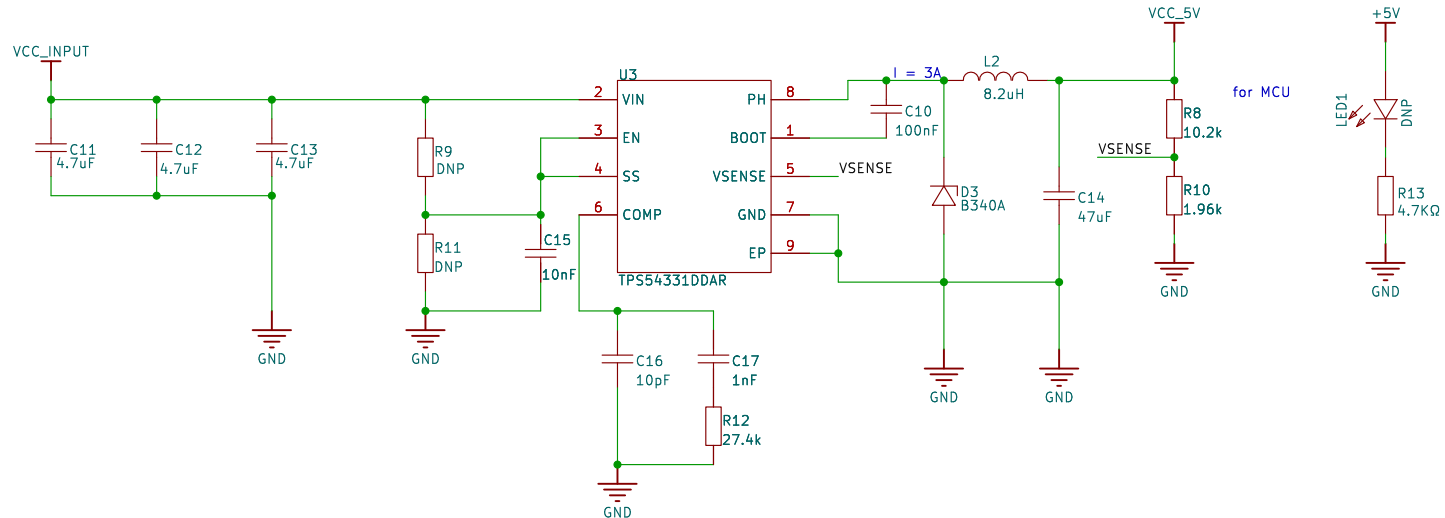
防反接, 缓启动



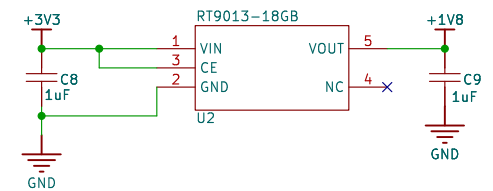
3.3V\_IMU



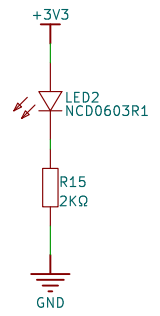
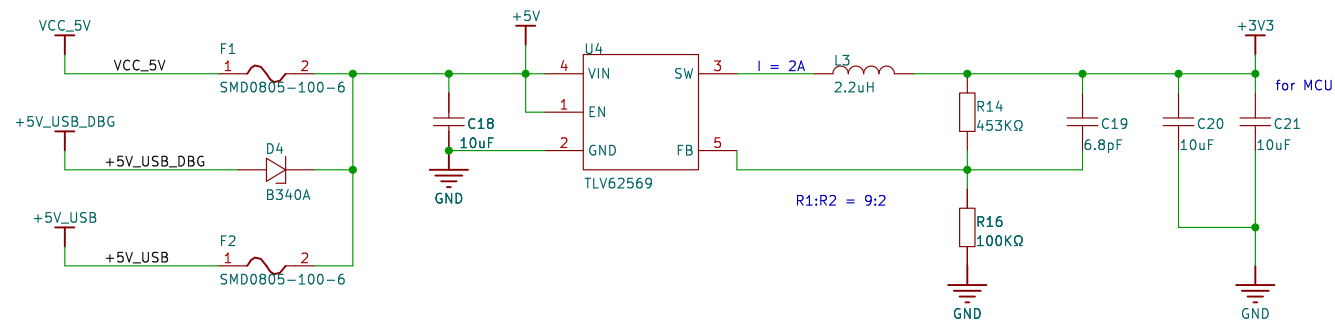
9~24V → 5V



3.3V → 1.8V



5V → 3.3V



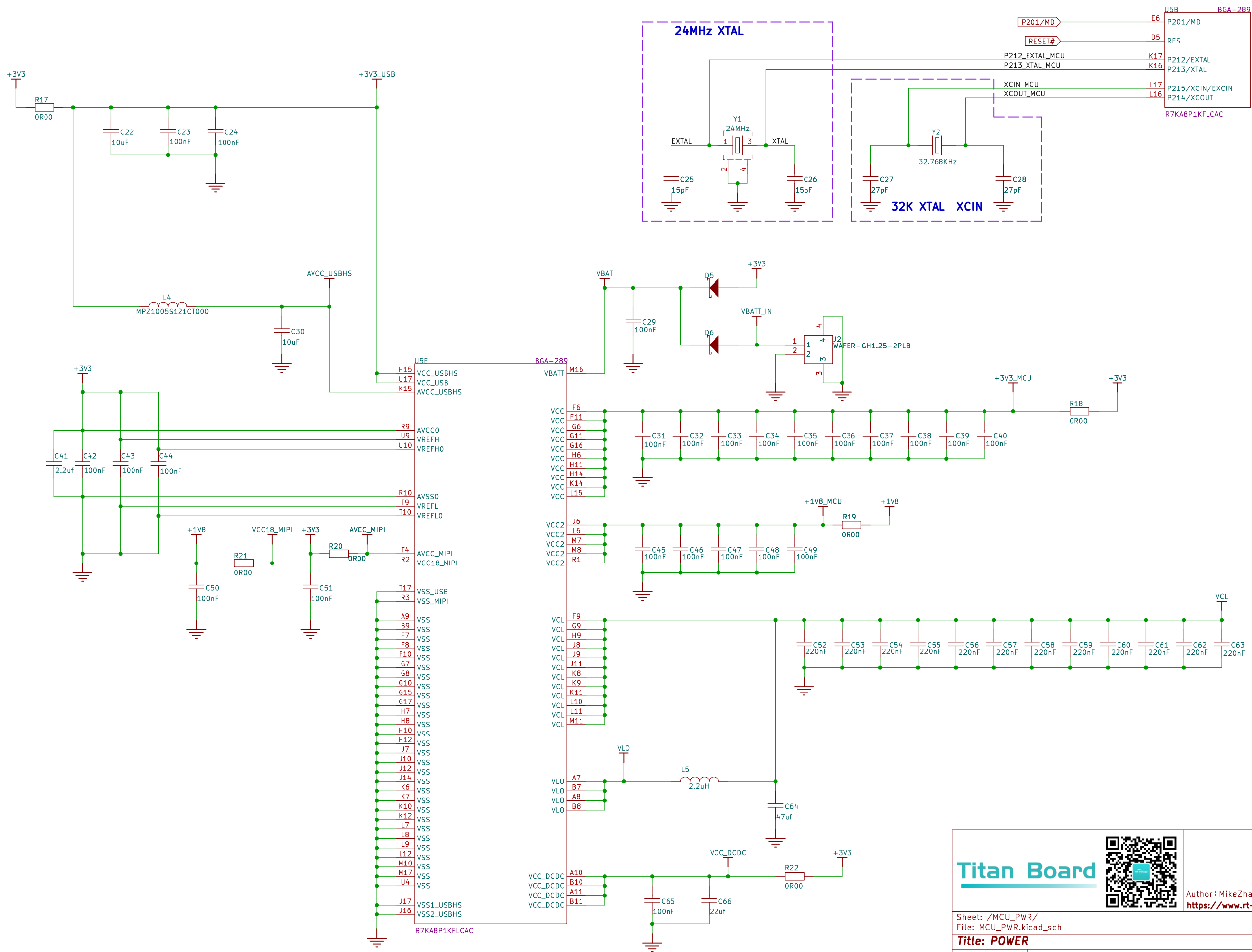
Titan Board



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Sheet: /POWER/ File: POWER.kicad_sch		
Title: POWER		
Size: A3	Date: 2025-10-14	Rev: HW:V1.1
KiCad E.D.A. 9.0.0		Id: 2/15

RA8P1 Microcontroller

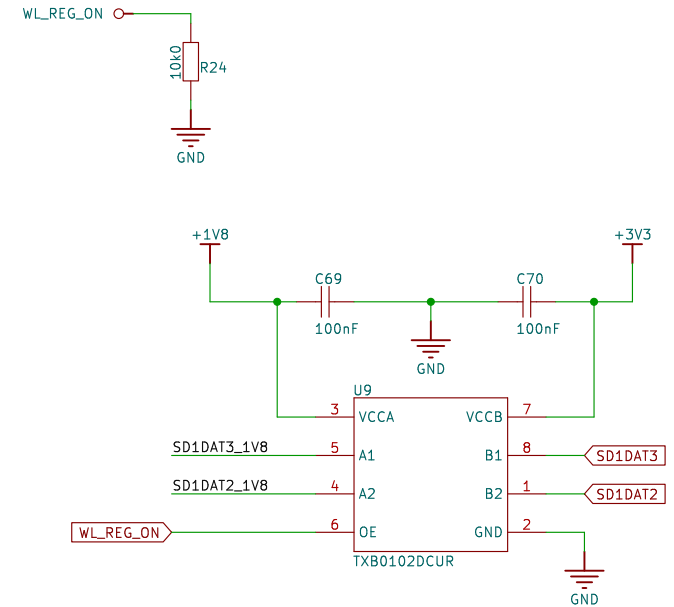
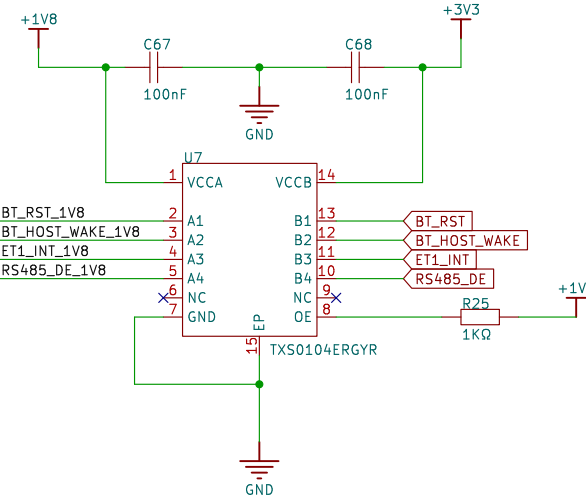
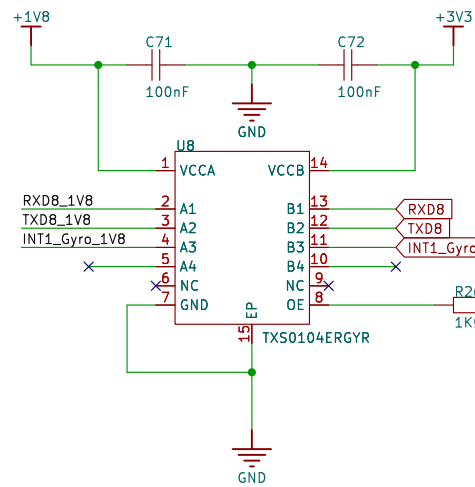


Titan Board

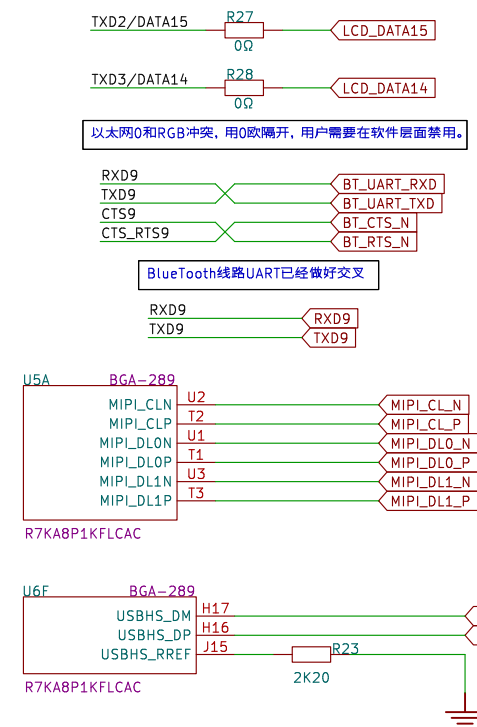
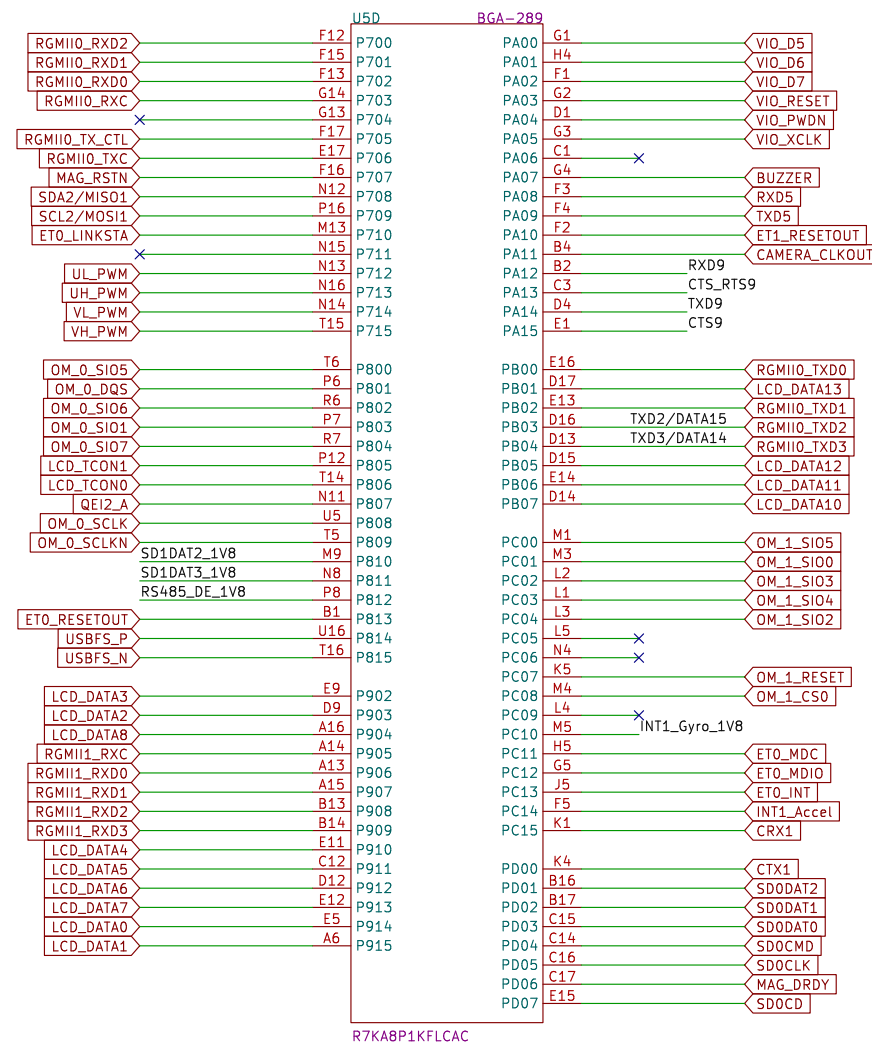
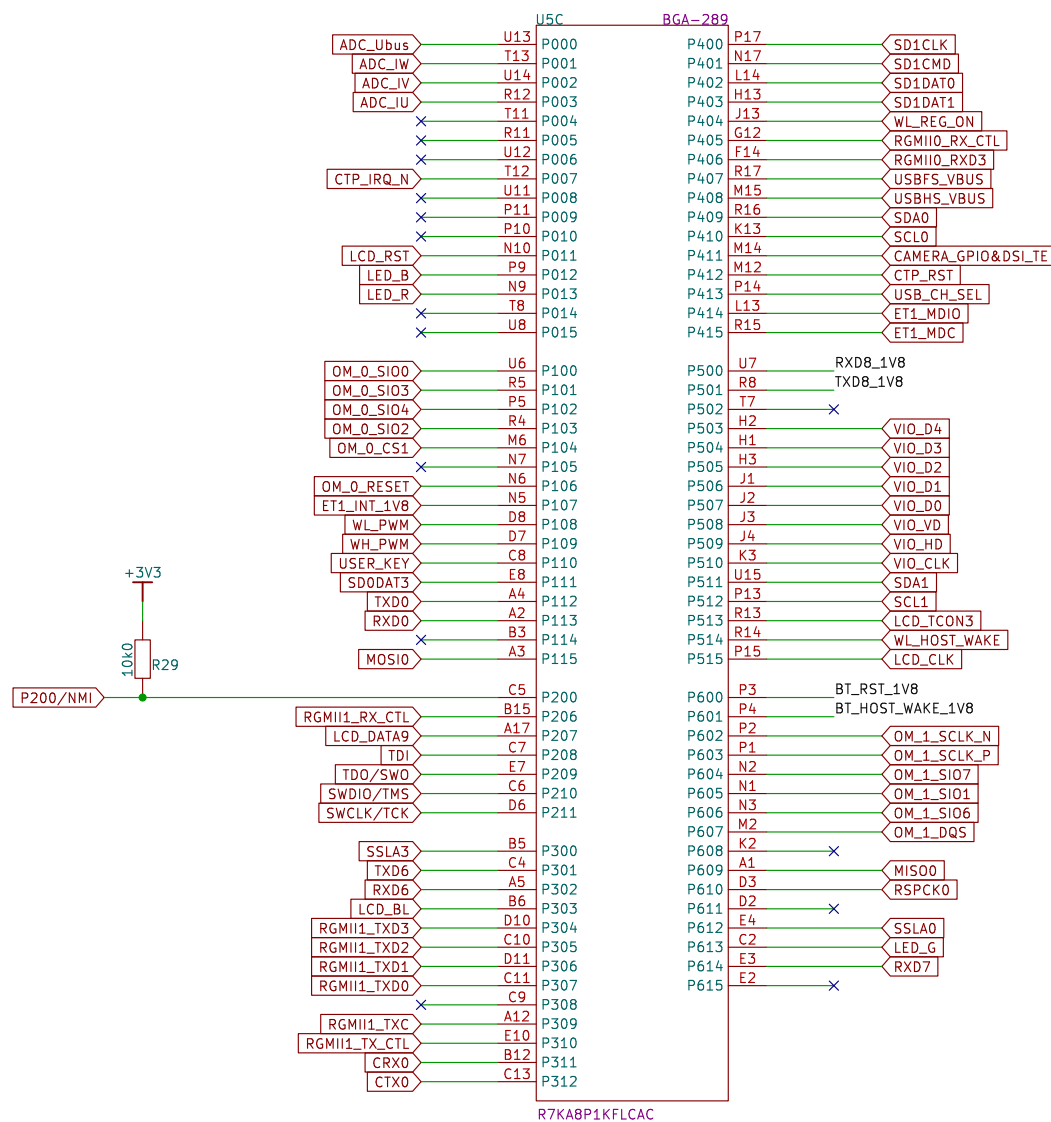


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电平转换1.8V→3.3V



## RA8P1 Microcontroller



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

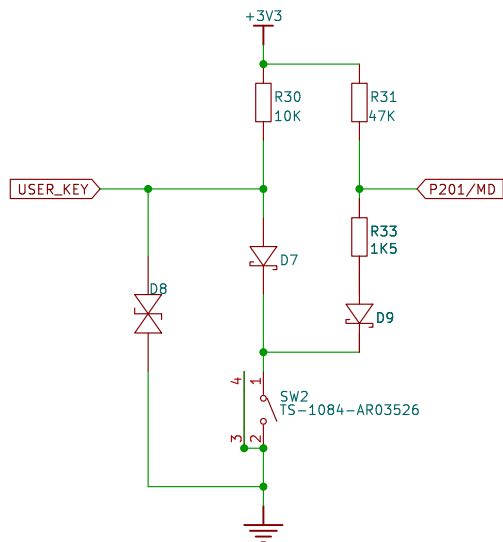
Sheet: /MCU\_PORTS/  
File: MCU\_PORTS.kicad\_sch

**Title: POWER**

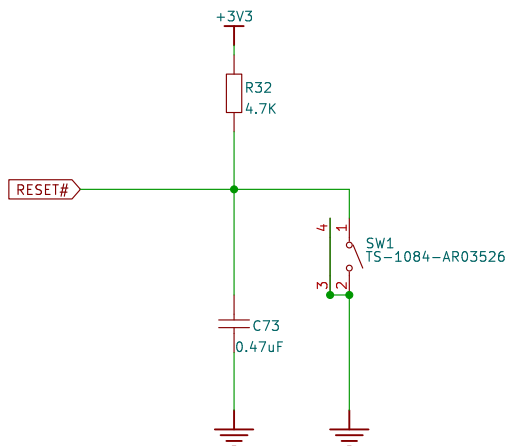
Size: A3	Date: 2025-10-14
KiCad E.D.A. 9.0.0	

Rev: HW:V1.1  
Id: 4/15

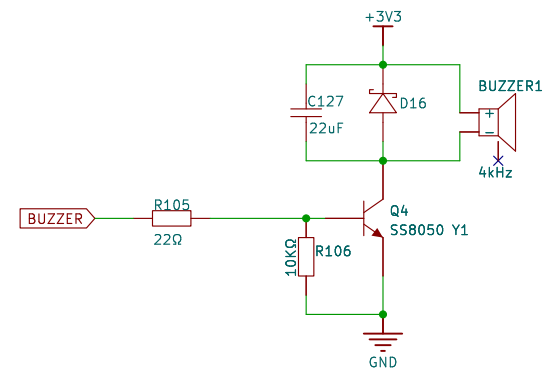
## USER/BOOT BUTTON



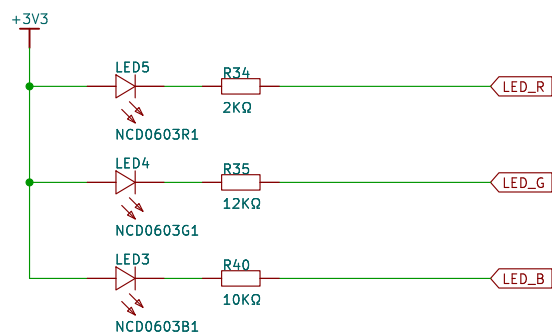
## RESET PUSH-BUTTON



## BUZZER



## USER LEDS



**Titan Board**



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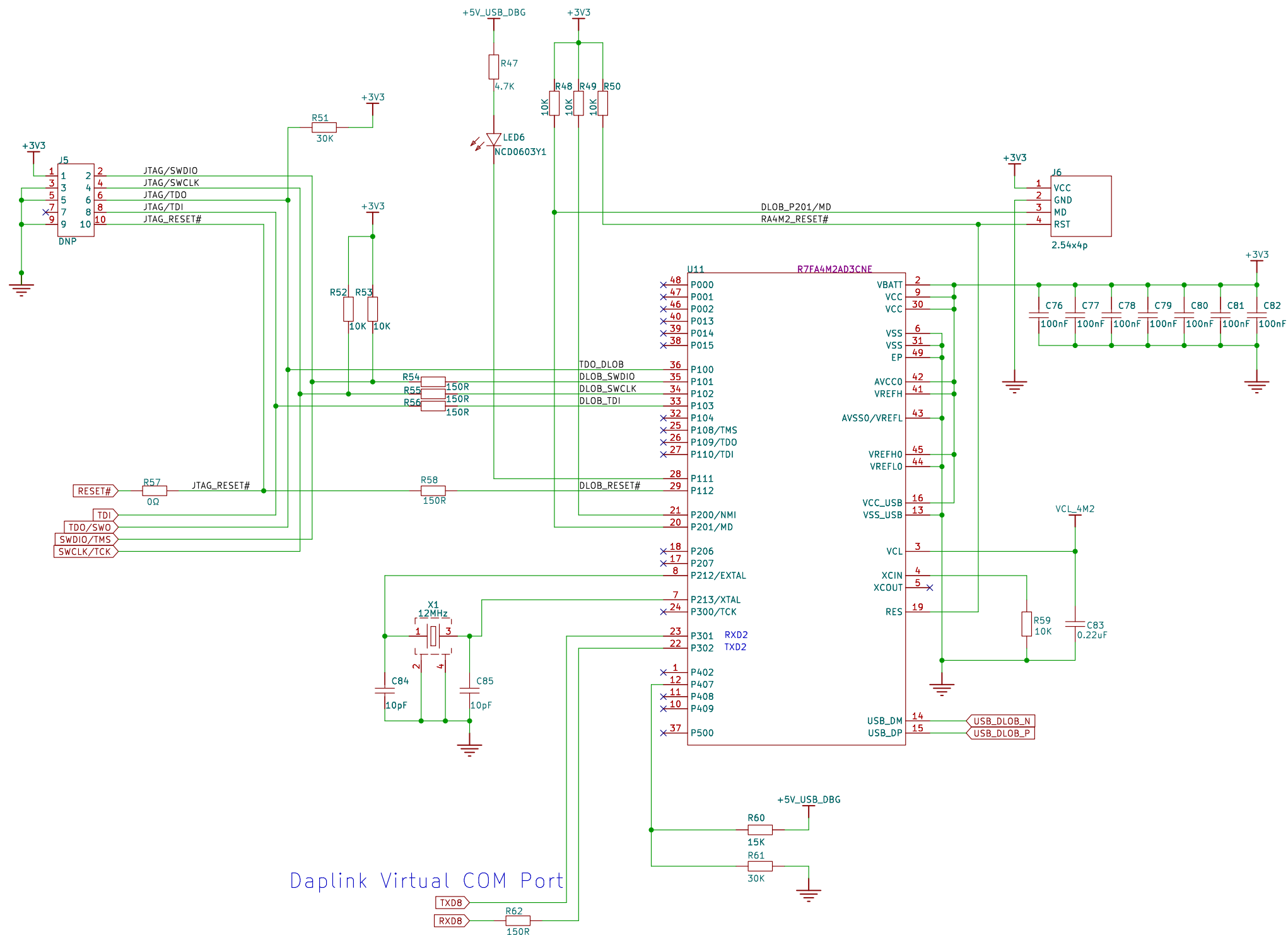
Sheet: /OB\_DEVICE/  
 File: OB\_DEVICE.kicad\_sch

**Title: POWER**

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

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

# DAPLINK



Daplink Virtual COM Port

Titan Board



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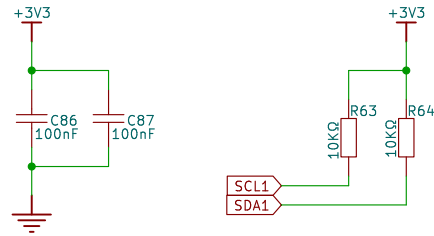
Sheet: /DAPLINK/  
File: DAPLINK.kicad\_sch

Title: POWER

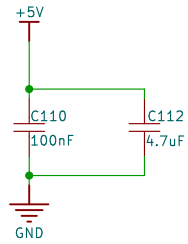
Size: A3 Date: 2025-10-14  
KiCad E.D.A. 9.0.0

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

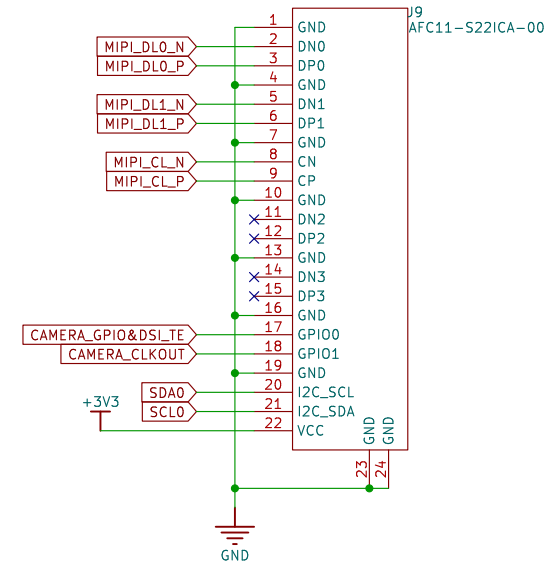
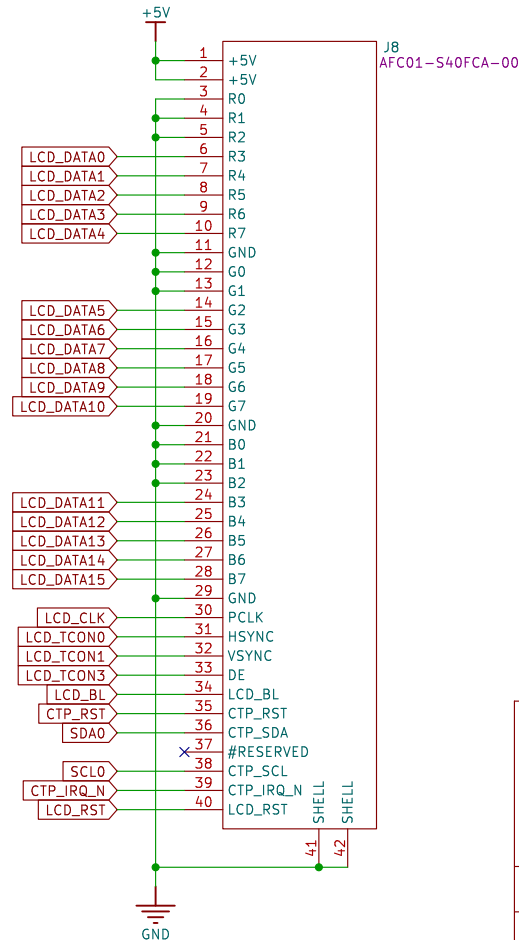
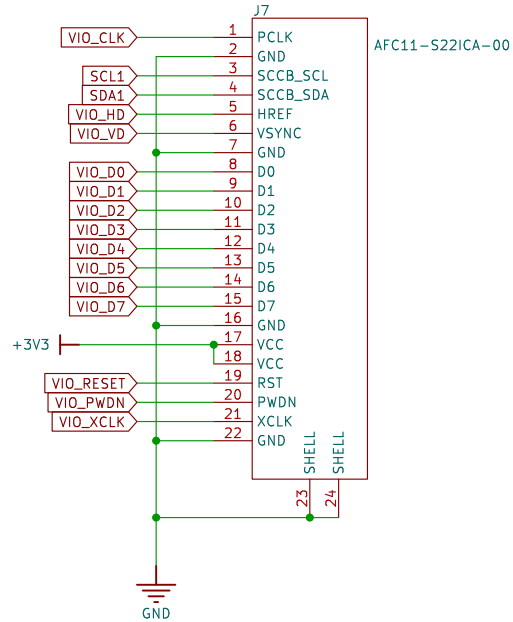
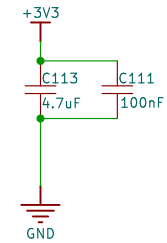
## CEU



## RGB565



## MIPI DSI/CSI



Titan Board



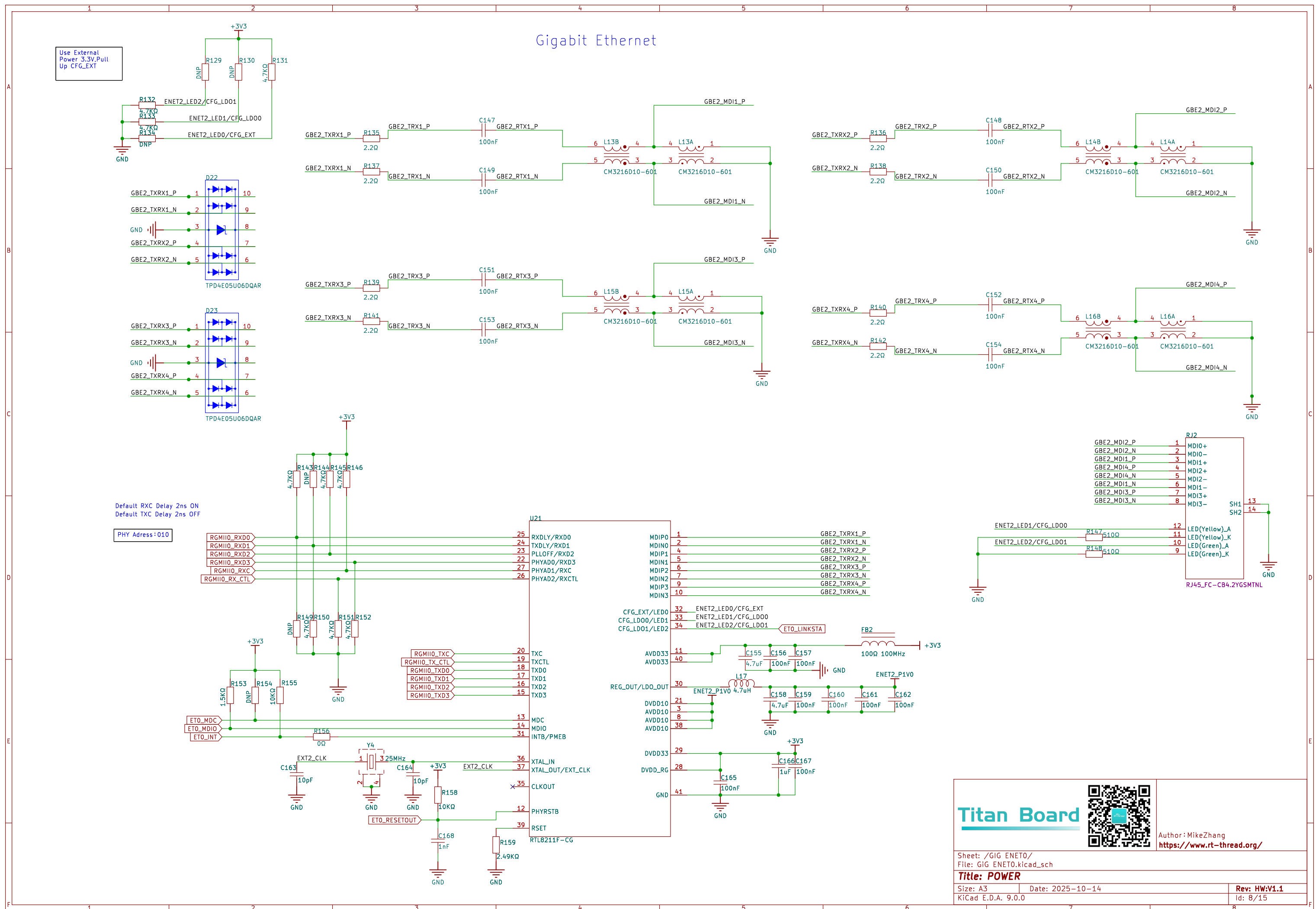
Author: MikeZhang  
<https://www.rt-thread.org/>

Sheet: /CAMERA & DISPLAY/  
File: CAMERA & DISPLAY.kicad\_sch

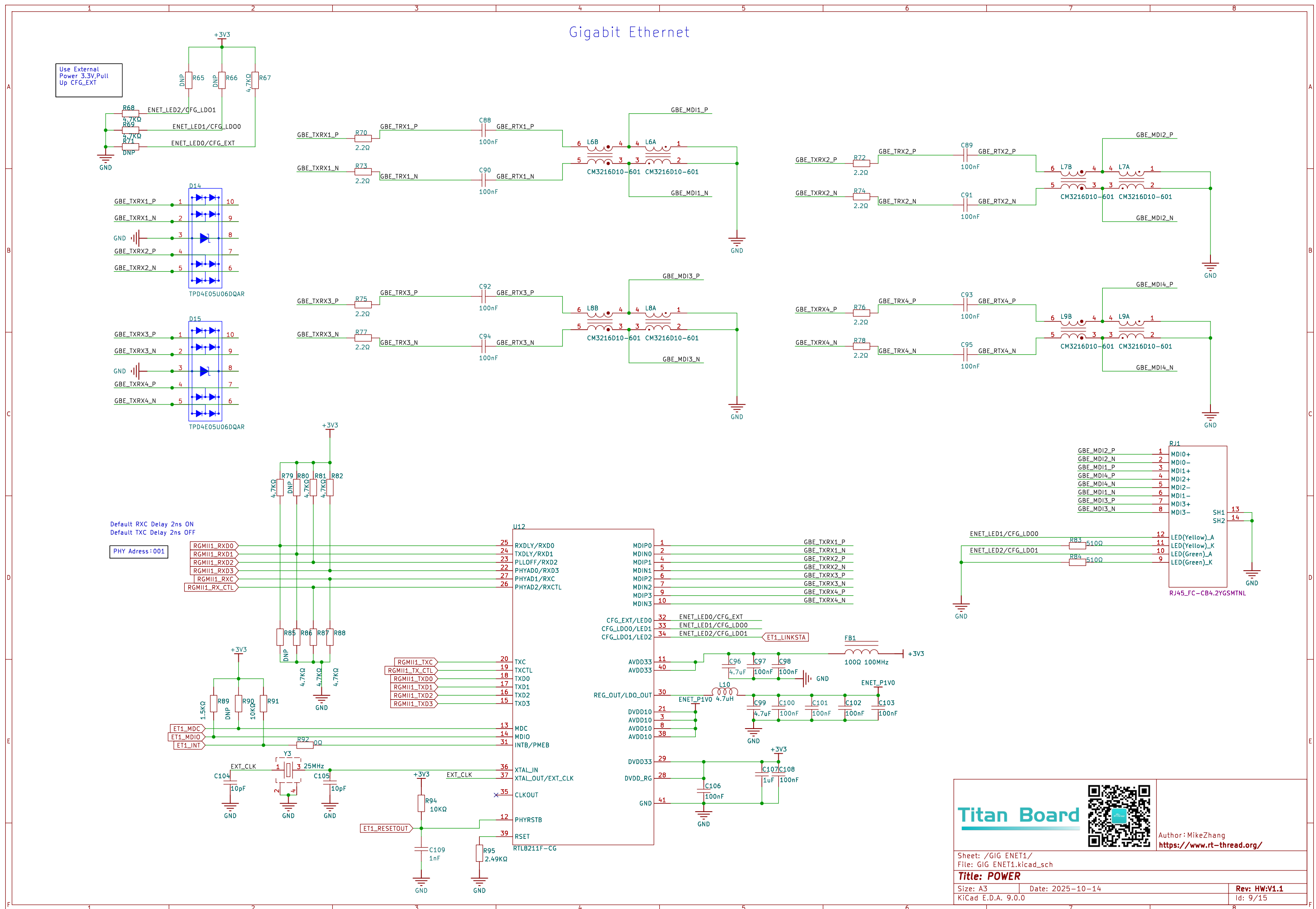
## Title: POWER

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

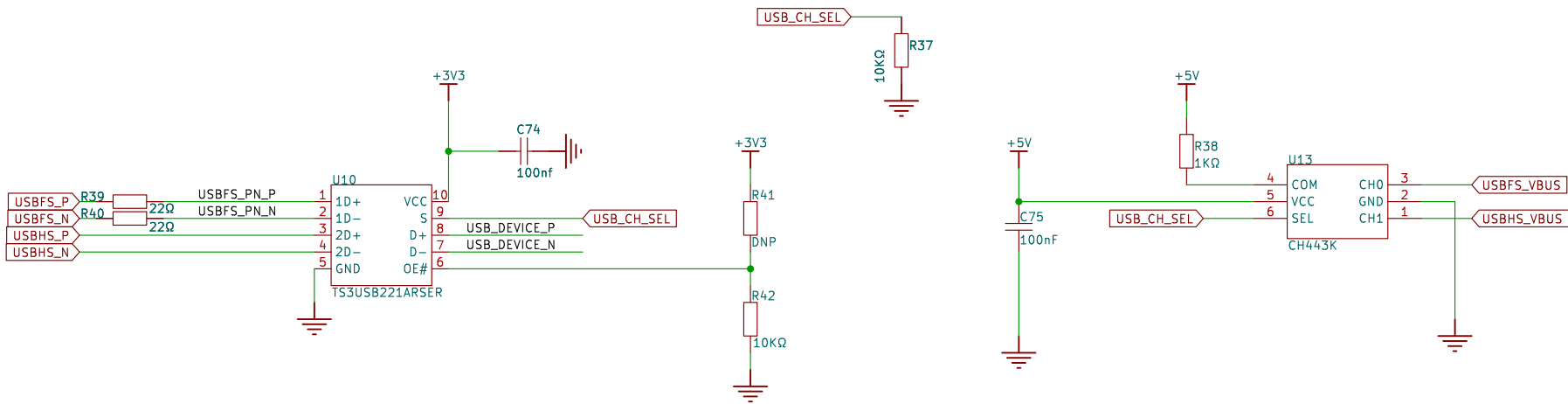
Rev: HW:V1.1  
Id: 7/15



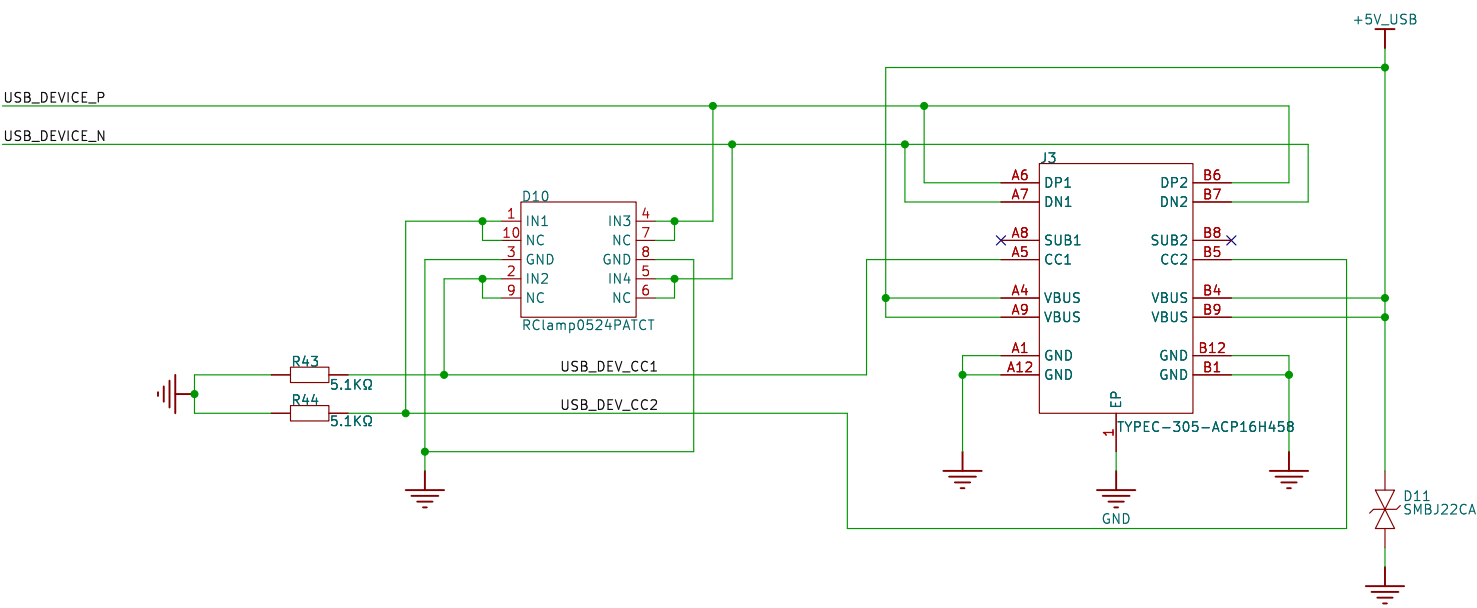




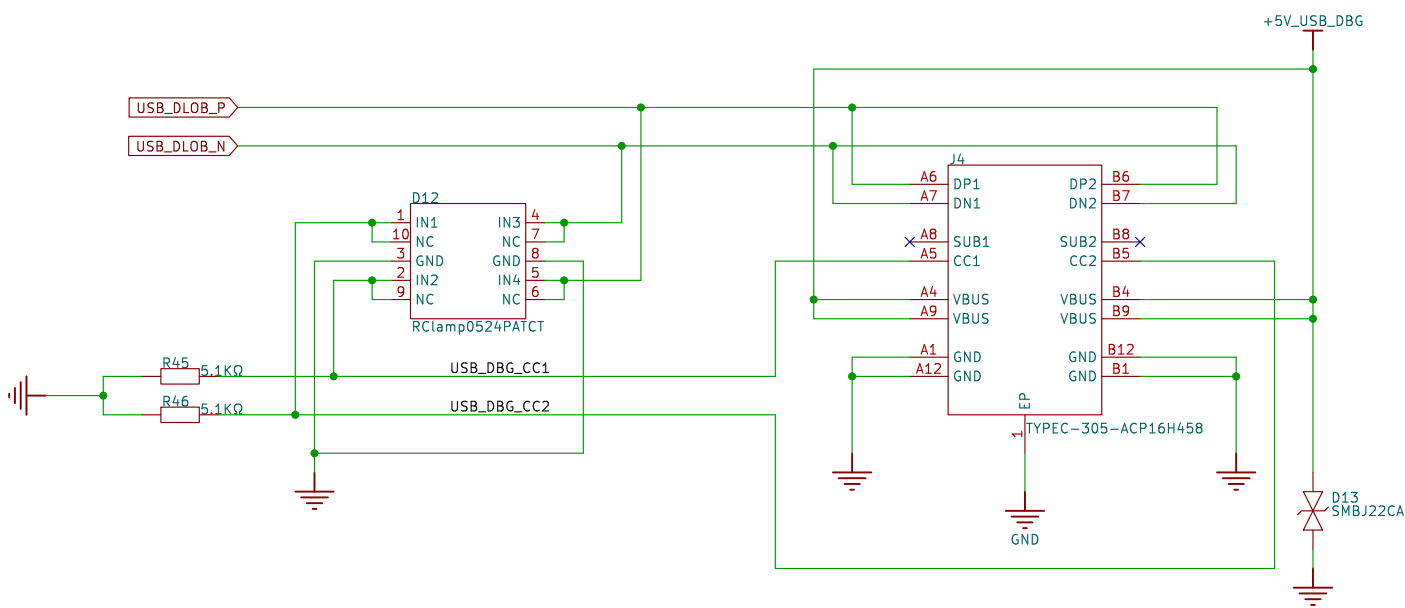
HS/FS SWITCH



USB DEVICE HS/FS



USB\_DEBUG



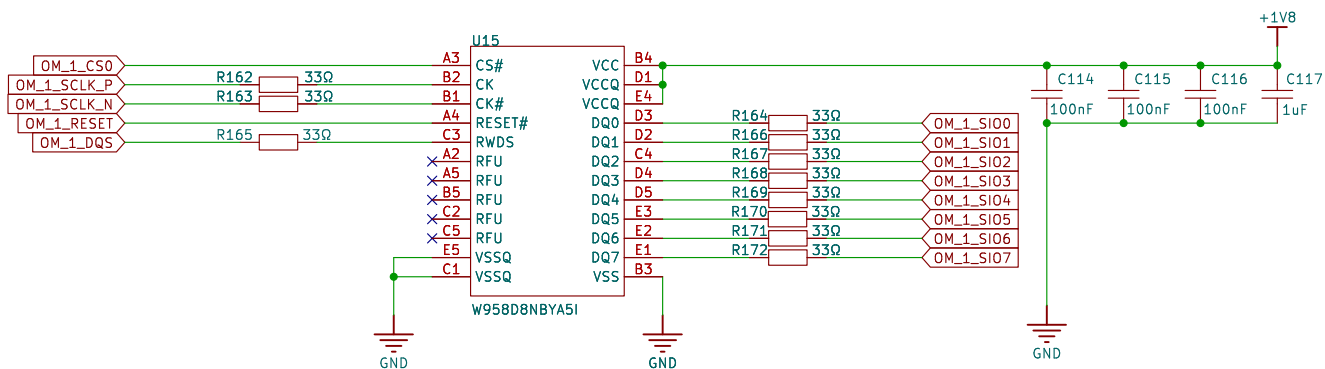
Titan Board



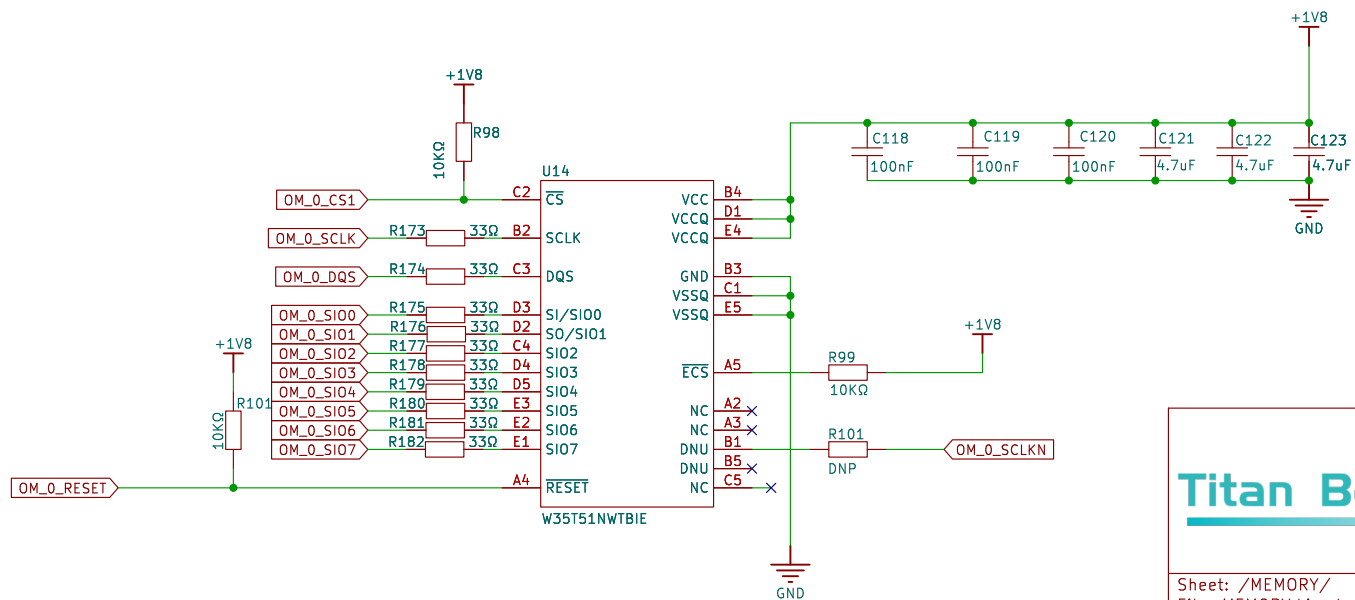
Author: MikeZhang  
<https://www.rt-thread.org/>

Sheet: /USB/ File: USB.kicad_sch		
<b>Title: POWER</b>		
Size: A3	Date: 2025-10-14	Rev: HW:V1.1
KiCad E.D.A. 9.0.0		Id: 10/15

# HYPER RAM



# FLASH



**Titan Board**



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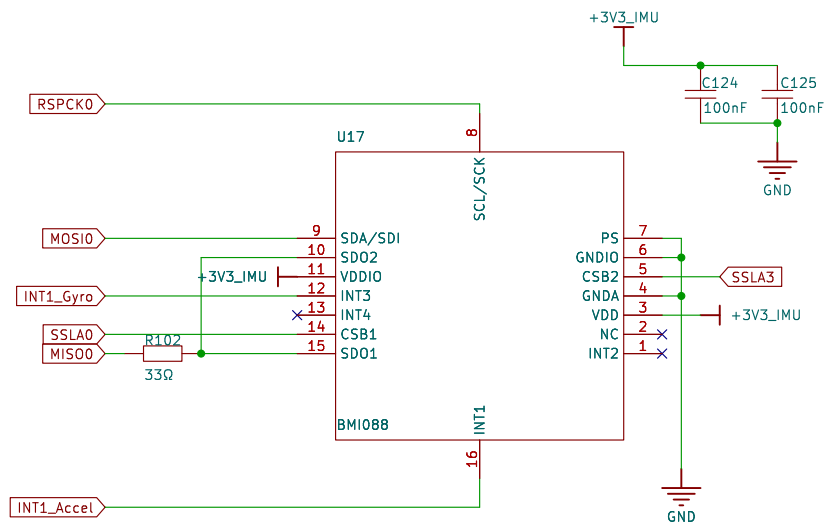
Sheet: /MEMORY/  
 File: MEMORY.kicad\_sch

**Title: POWER**

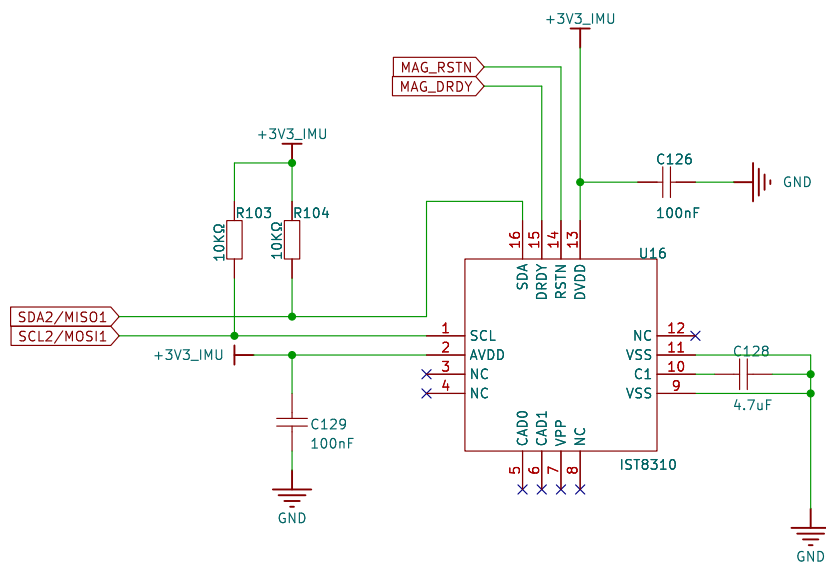
Size: A4 Date: 2025-10-14  
 KiCad E.D.A. 9.0.0

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

# IMU



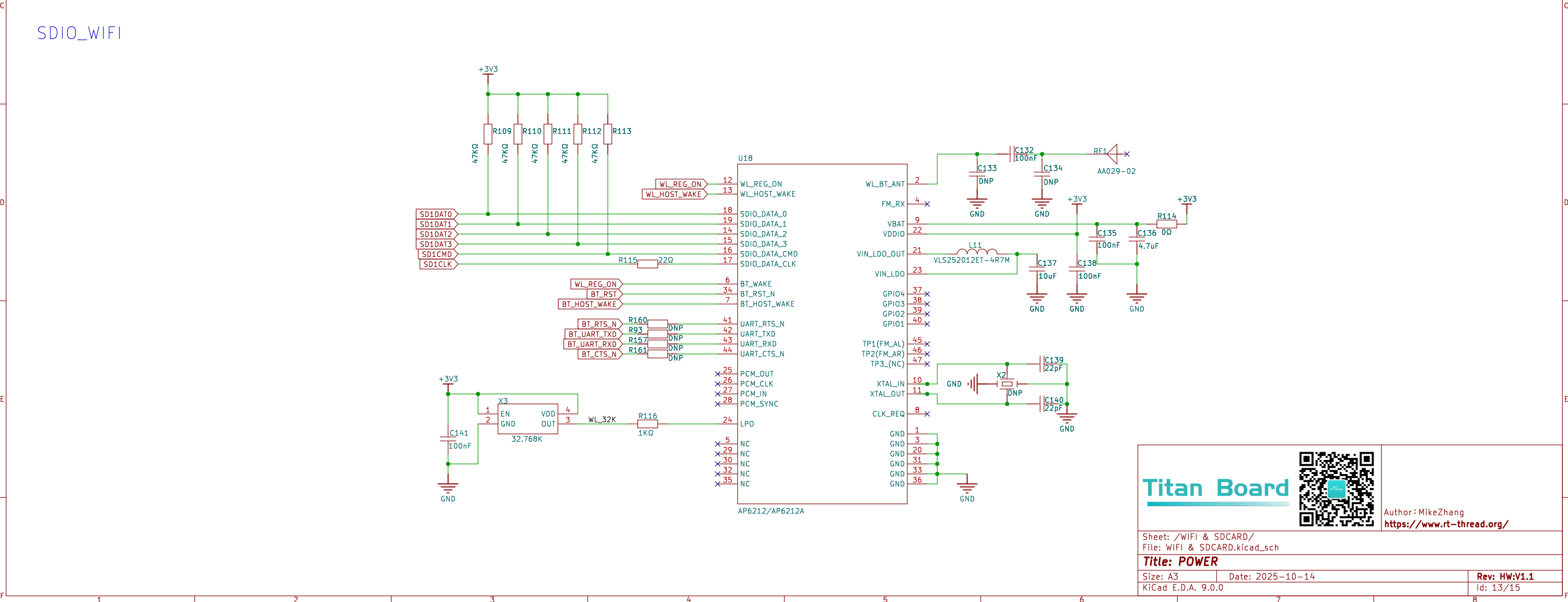
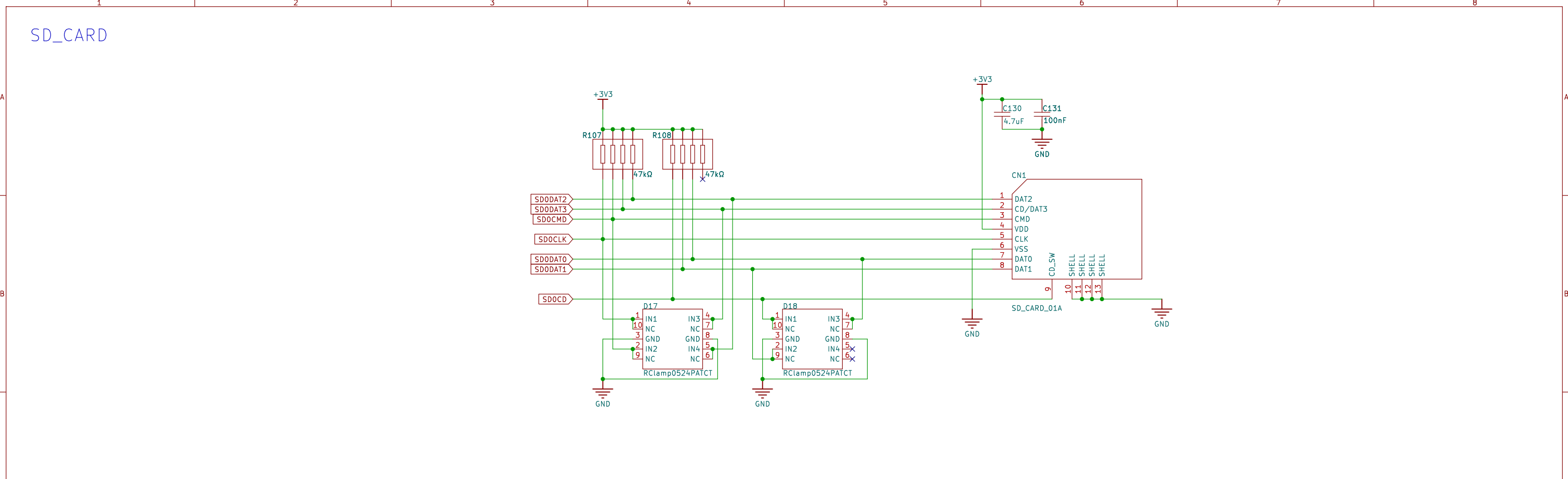
# MAG






Author : MikeZhang  
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Sheet: /IMU & MAG/	
File: IMU & MAG.kicad_sch	
<b>Title: POWER</b>	
Size: A4	Date: 2025-10-14
KiCad E.D.A. 9.0.0	Rev: HW:V1.1
	Id: 12/15



**Titan Board**



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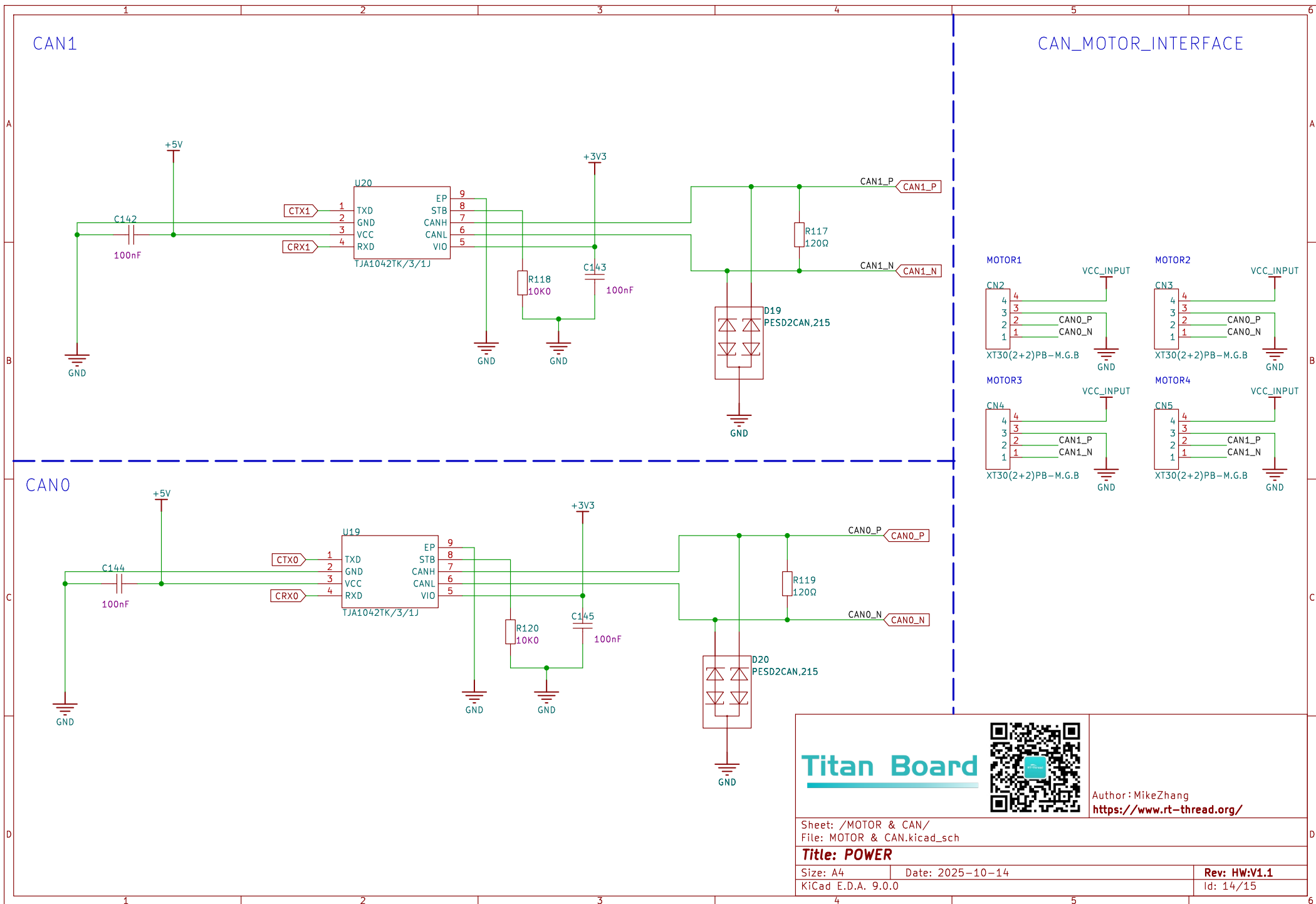
Sheet: /WIFI & SDCARD/  
File: WIFI & SDCARD.kicad\_sch

Title: POWER

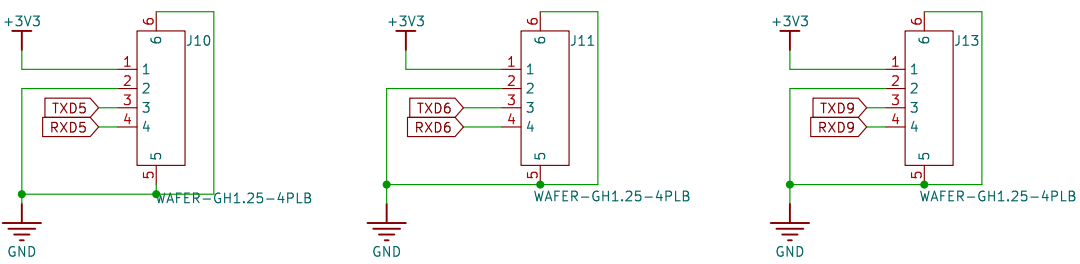
Size: A3	Date: 2025-10-14	Rev: HW:V1.1
KiCad E.D.A. 9.0.0		Id: 13/15

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

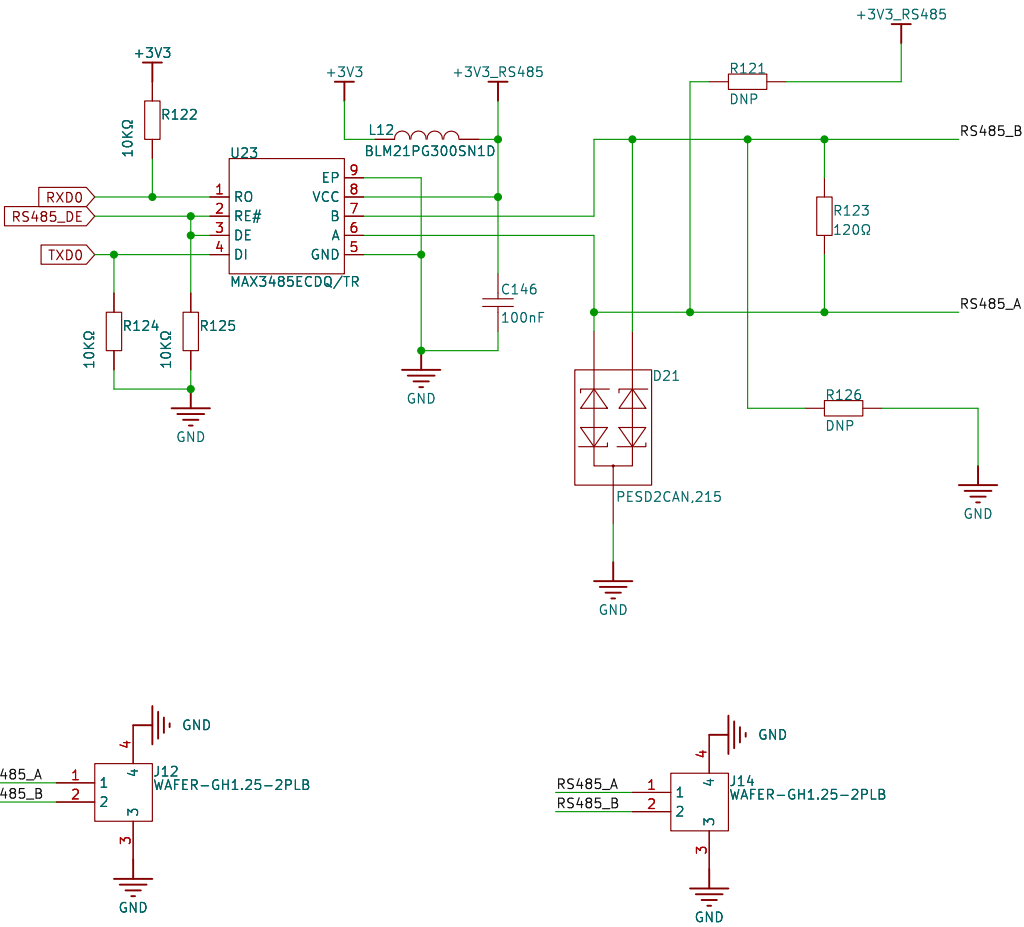
Id: 13/15



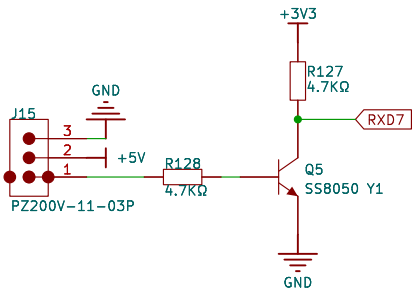
UART\_EXT\_INTERFACE



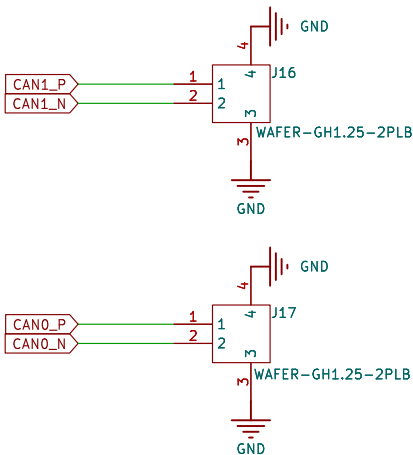
RS485\_EXT\_INTERFACE



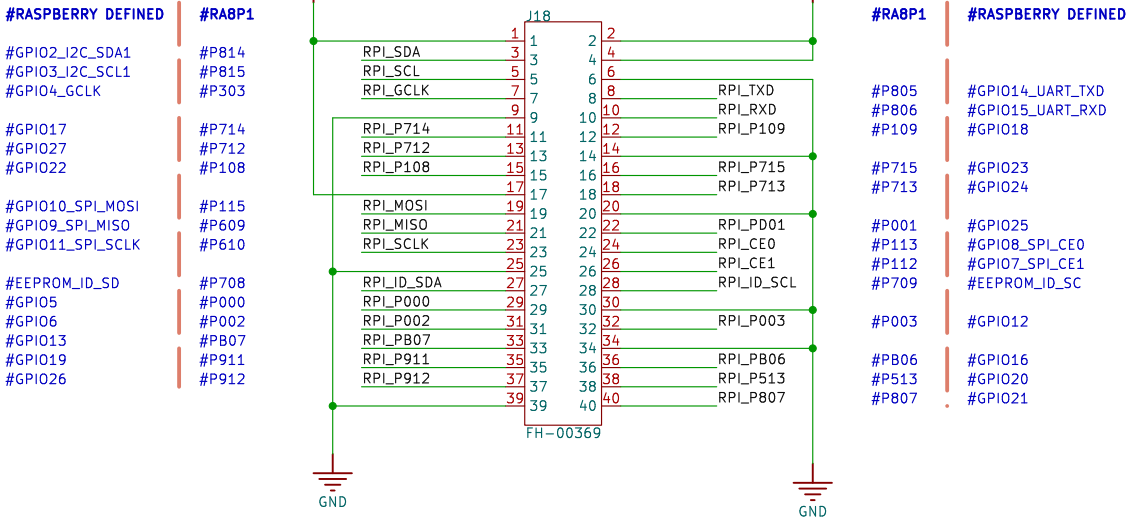
DBUS\_EXT\_INTERFACE



CAN\_EXT\_INTERFACE



Raspberry



若需要完整使用该接口的全部功能，需要禁用LCD\_RGB、UART0(RS485)，并将USBFS切换为USBHS。  
其中SPI0通过UART0复用的SSLA1,2作为片选信号，不与板载SPI1冲突。  
IIC设备地址要与板载IIC\_MAG不同。  
剩余引脚可用于4路ADC,6路PWM,6路QEI,用作电机控制或者其他应用场景，其中LCD\_BL复用为RPI\_GCLK



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

Sheet: /EXT INTERFACE/  
File: EXT\_INTERFACE.kicad\_sch

**Title: POWER**

Size: A3      Date: 2025-10-14      Rev: HW:V1.1

KiCad E.D.A. 9.0.0      Id: 15/15