

12345678

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 ENET0

File: GIG ENET0.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: Titan Board

Size: A3Date: 2025-09-03

Rev: HW:V1.0

KiCad E.D.A. 9.0.0Id: 1/15

A

B

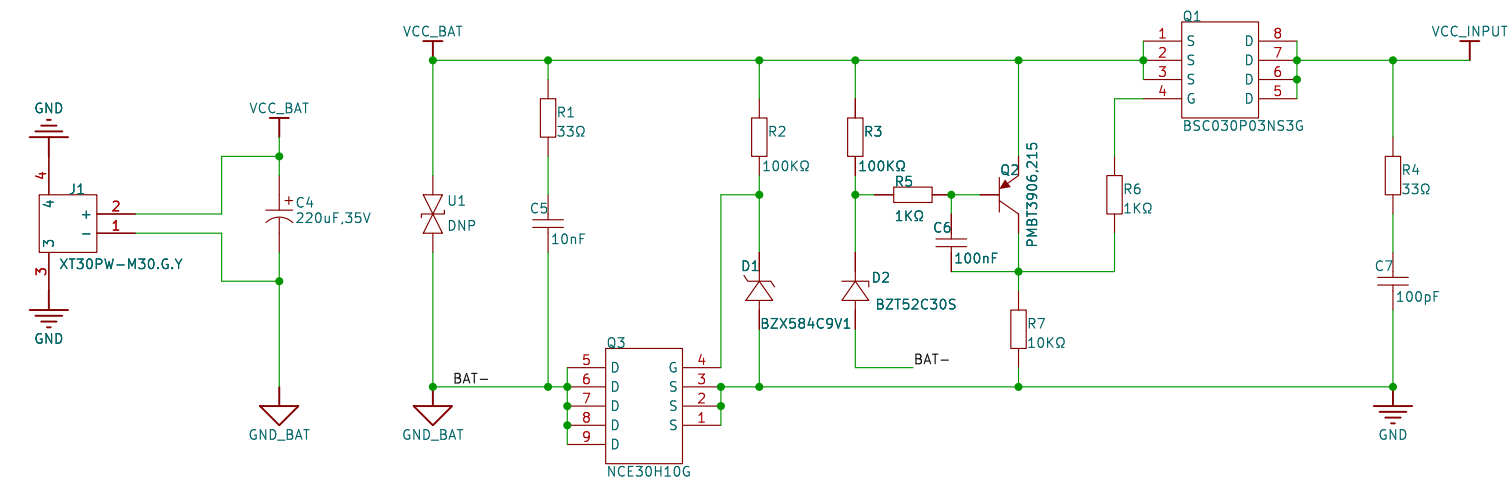
C

D

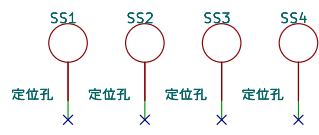
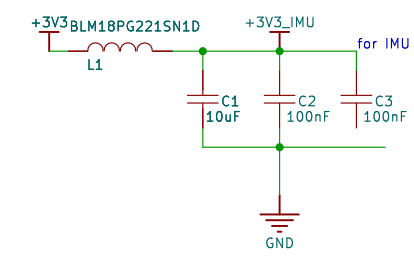
E

F

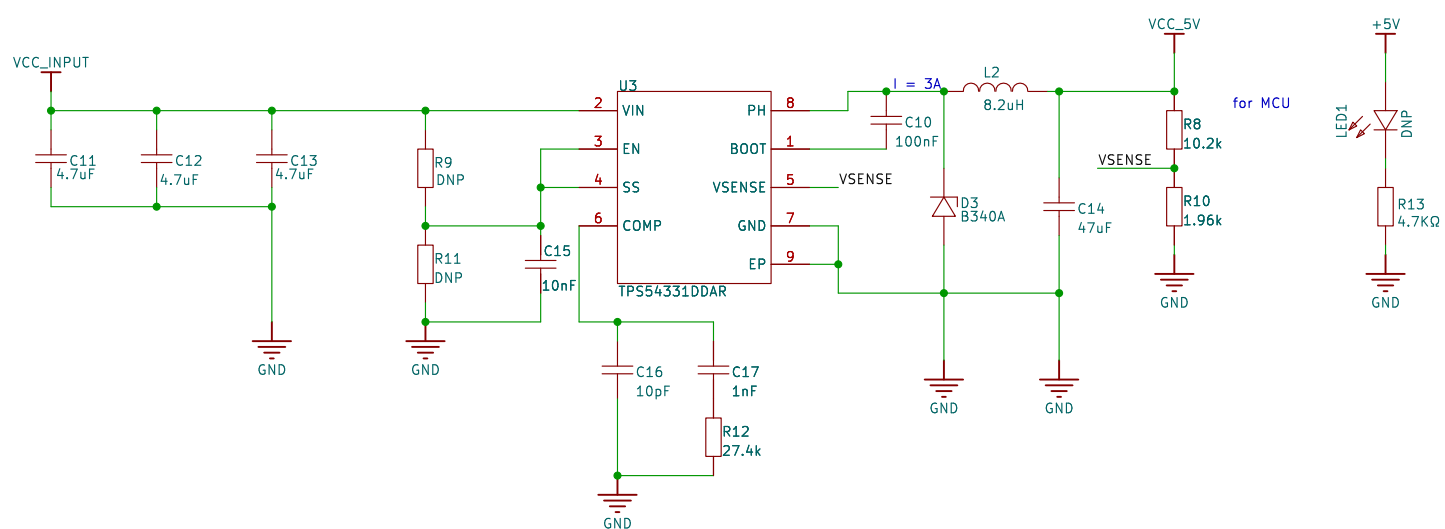
防反接, 缓启动



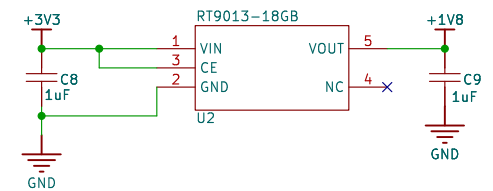
3.3V\_IMU



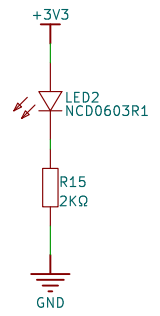
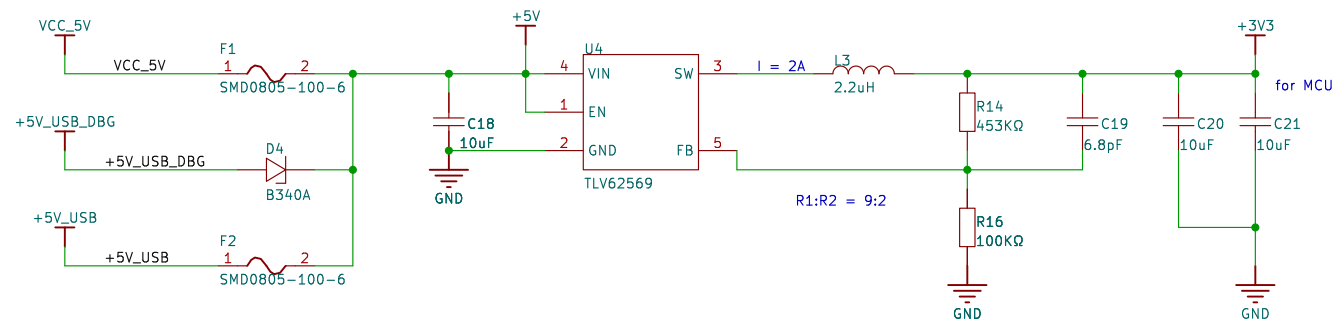
9~24V → 5V



3.3V → 1.8V



5V → 3.3V

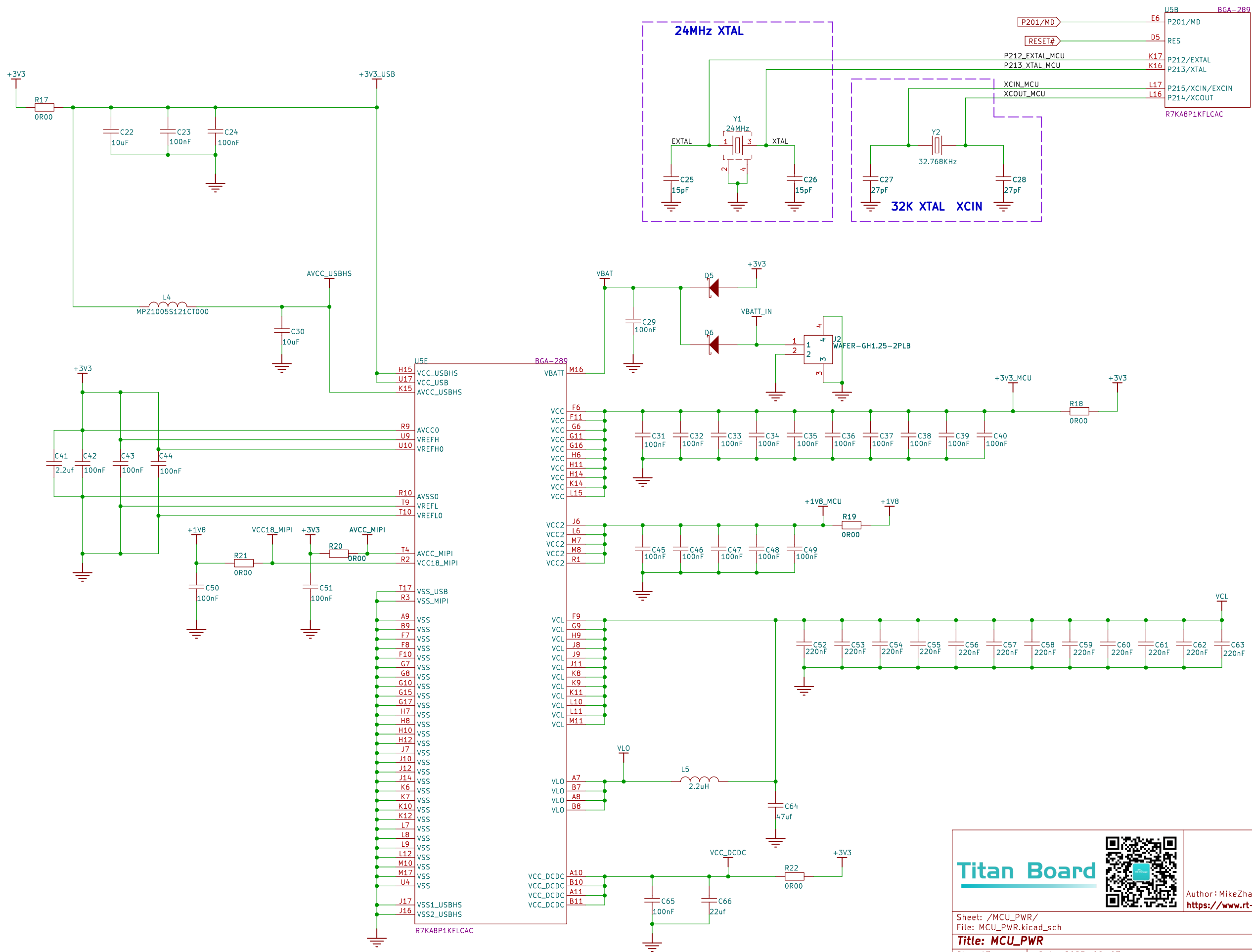


Titan Board



Author: MikeZhang  
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RA8P1 Microcontroller

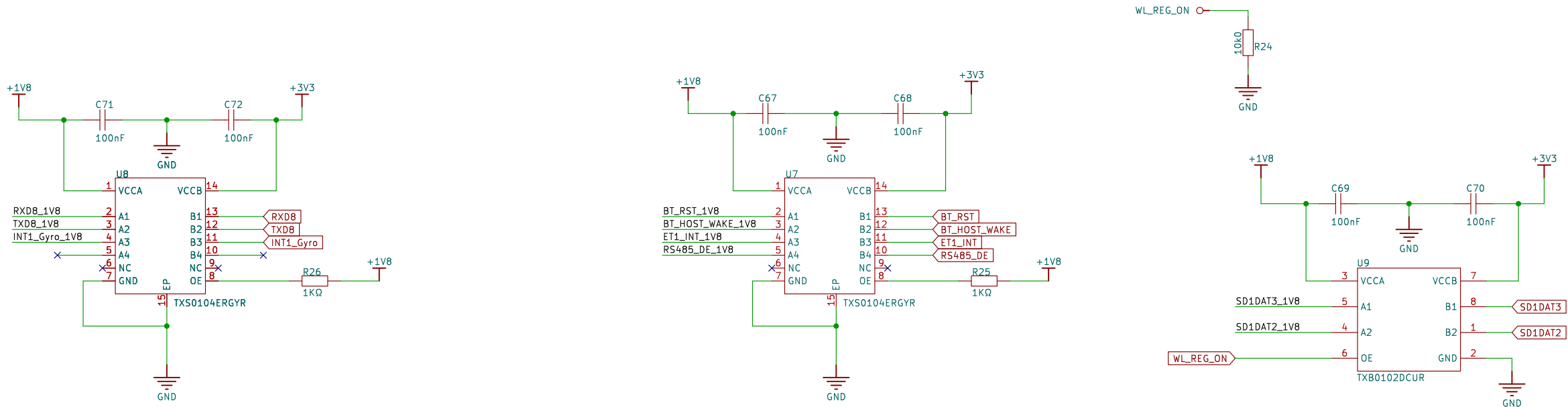


Titan Board

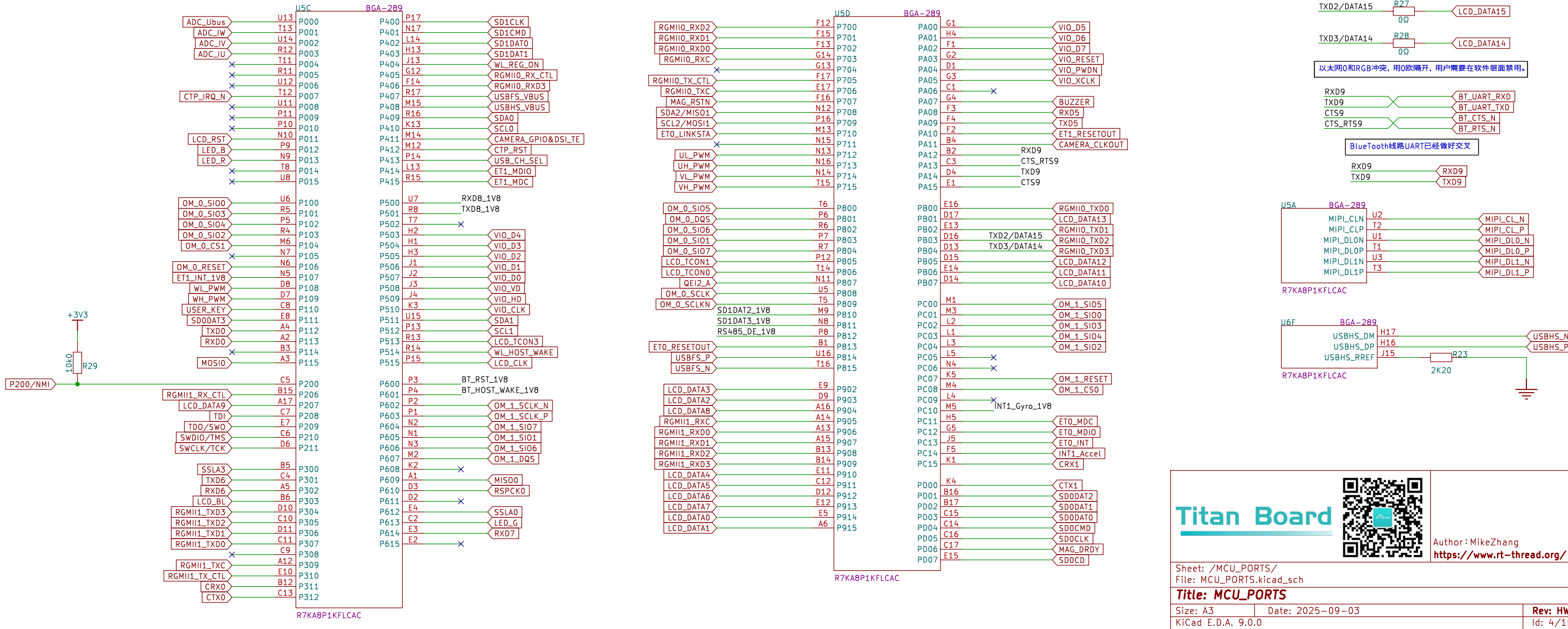


Author: MikeZhang  
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电平转换1.8V→3.3V



RA8P1 Microcontroller

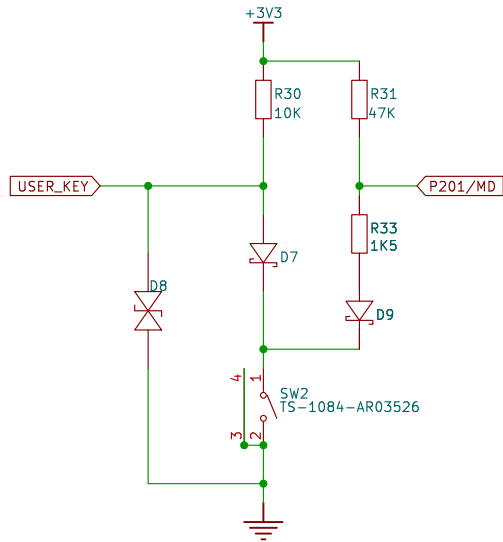


Titan Board

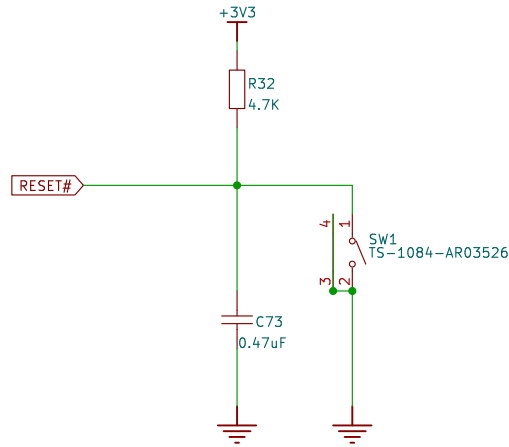


Author: MikeZhang  
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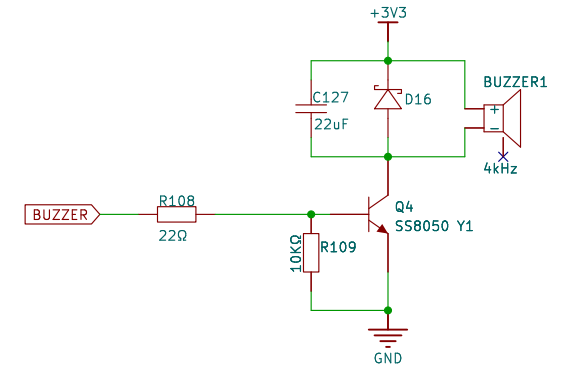
## USER/BOOT BUTTON



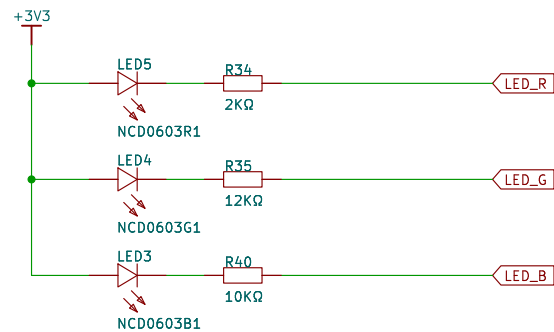
## RESET PUSH-BUTTON



## BUZZER



## USER LEDS



**Titan Board**



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

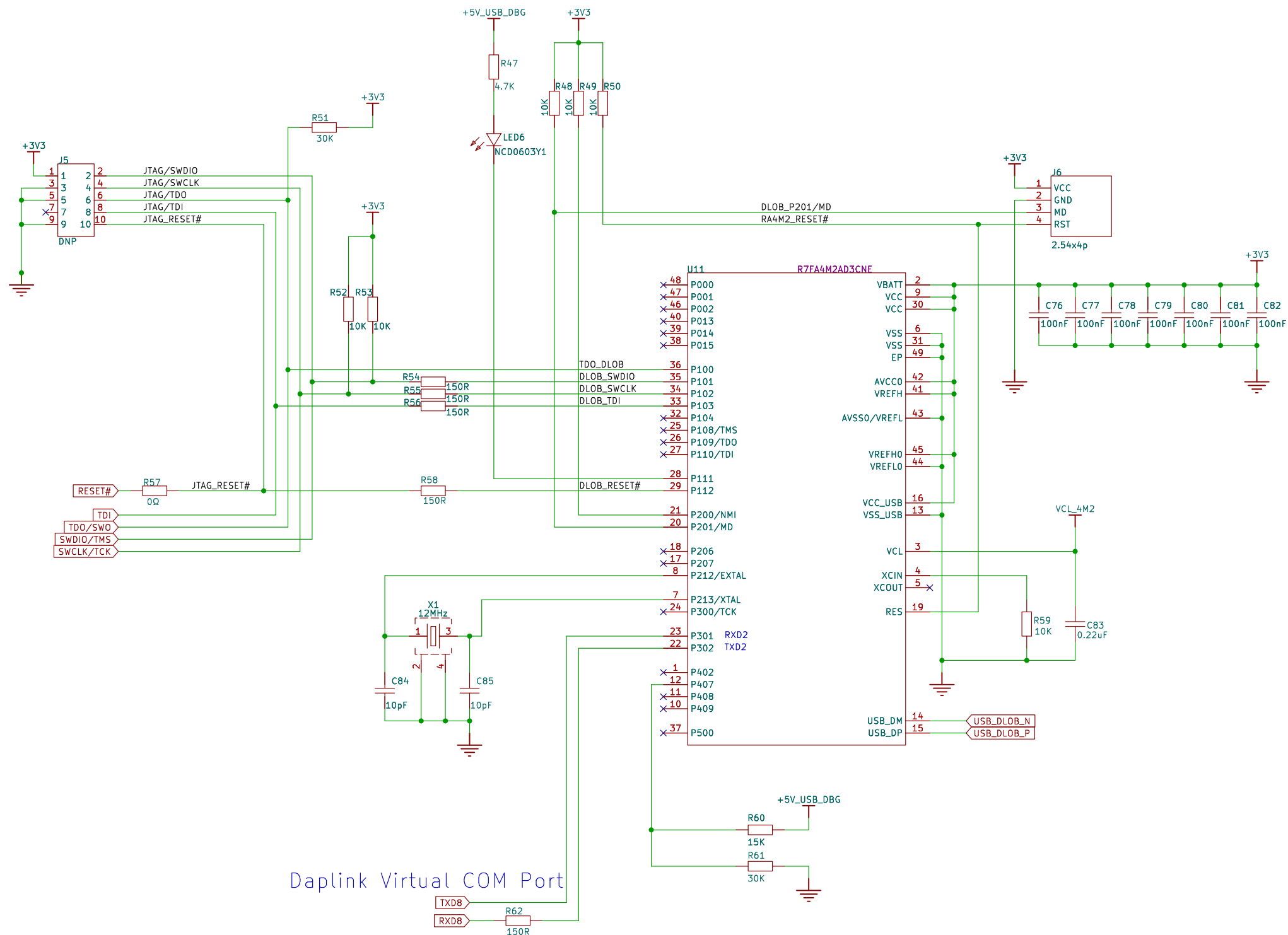
Sheet: /OB\_DEVICE/  
 File: OB\_DEVICE.kicad\_sch

**Title: ONBOARD DEVICE**

Size: A4 Date: 2025-09-03  
 KiCad E.D.A. 9.0.0

Rev: HW:V1.0  
 Id: 5/15

# DAPLINK



Daplink Virtual COM Port

Titan Board



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

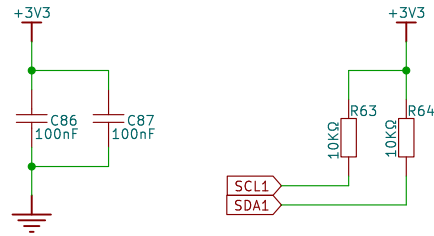
Sheet: /DAPLINK/  
File: DAPLINK.kicad\_sch

Title: DAPLINK

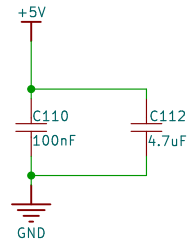
Size: A3 Date: 2025-09-03  
KiCad E.D.A. 9.0.0

Rev: HW:V1.0  
Id: 6/15

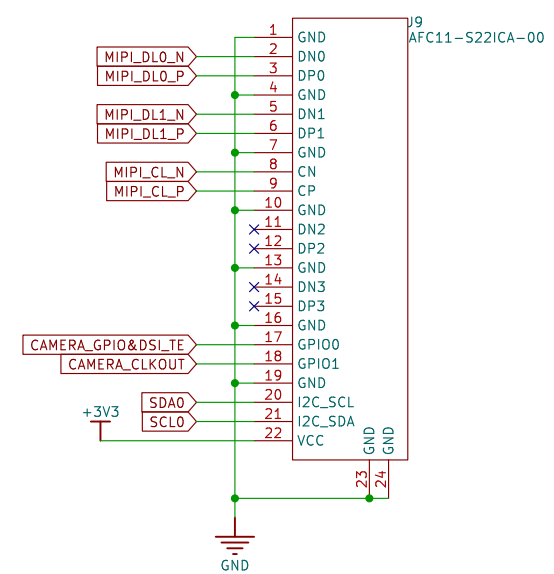
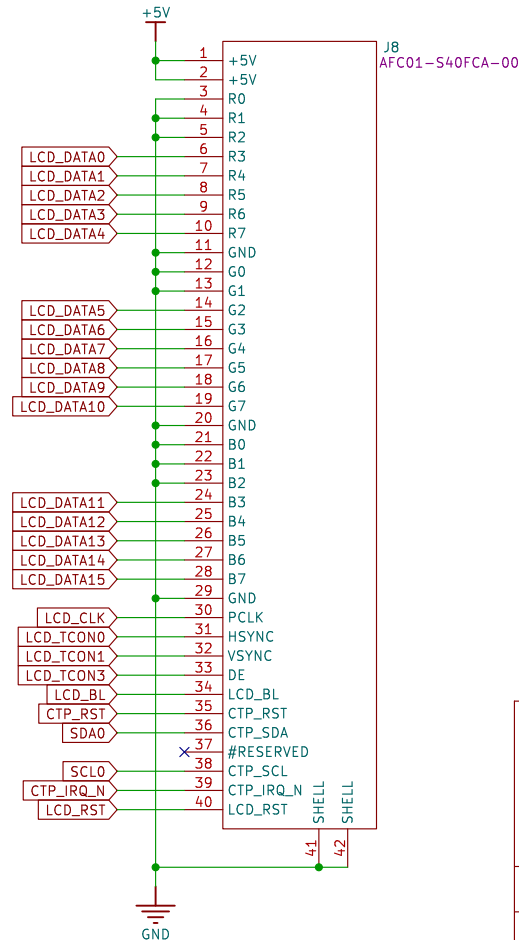
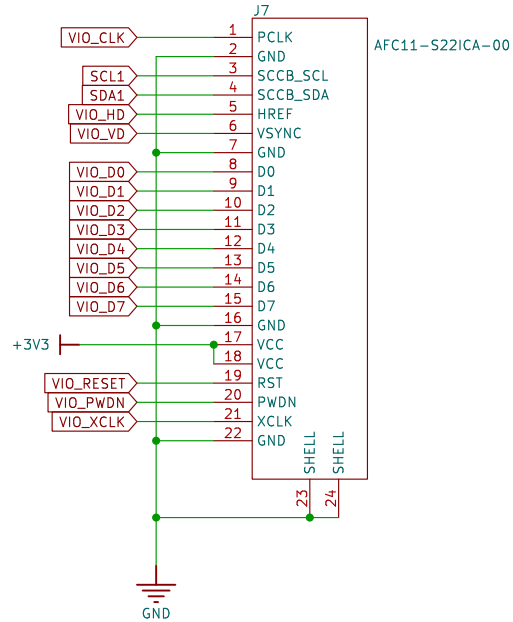
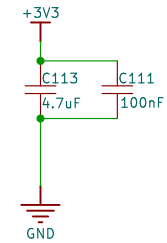
## CEU



## RGB565



## MIPI DSI/CSI



Titan Board



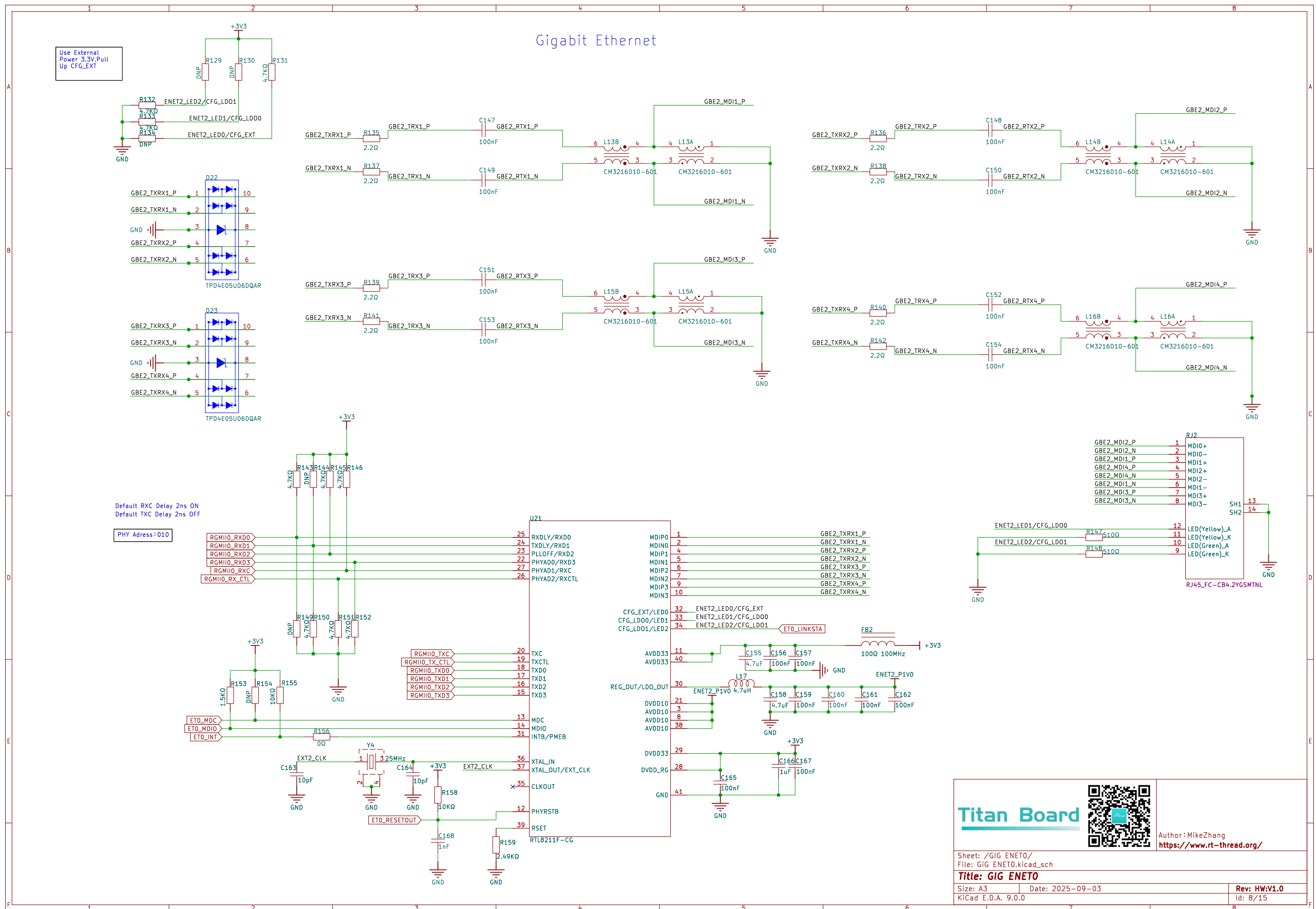
Author: MikeZhang  
<https://www.rt-thread.org/>

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

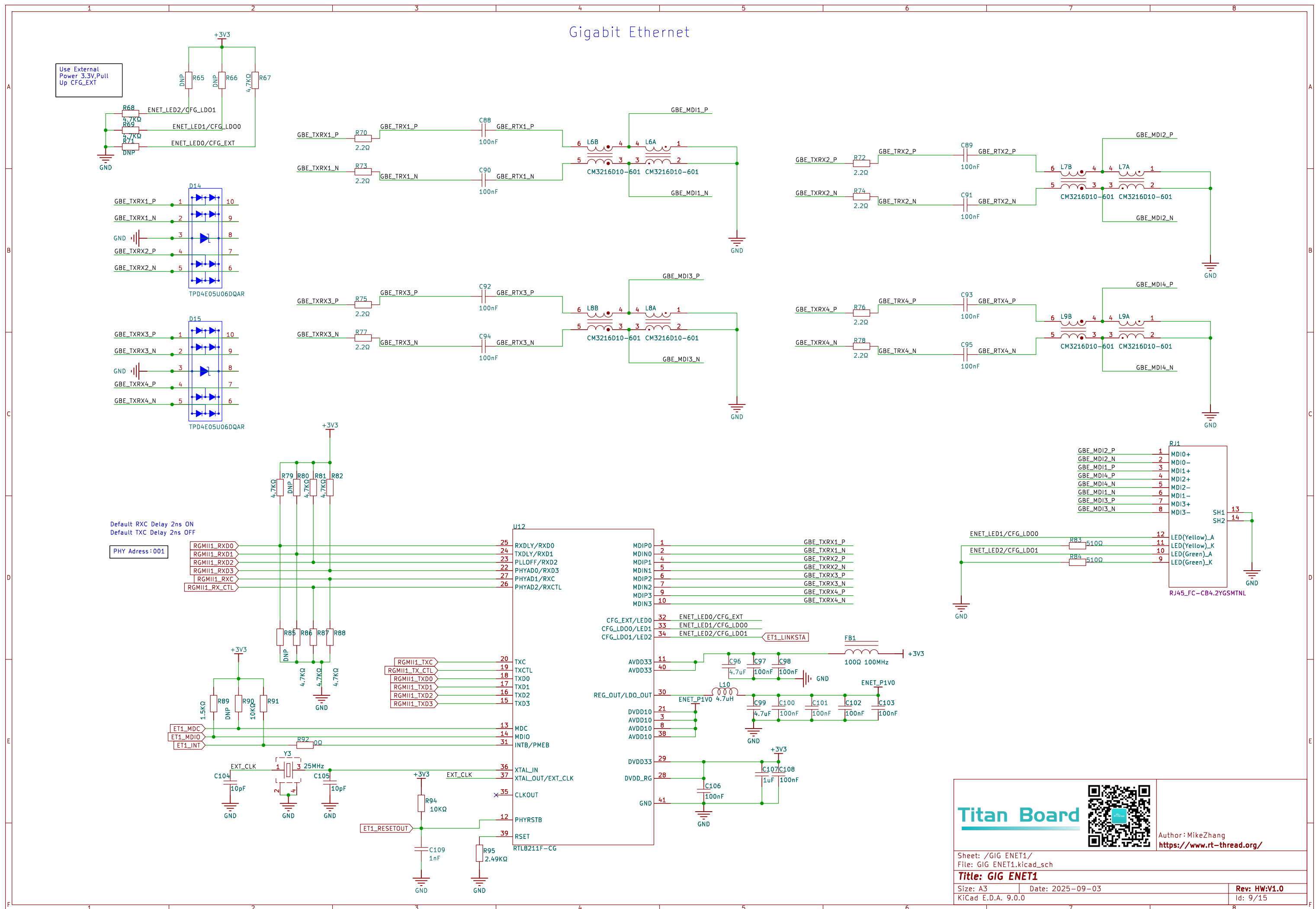
Title: CAMERA & DISPLAY

Size: A4  
Date: 2025-09-03  
KiCad E.D.A. 9.0.0

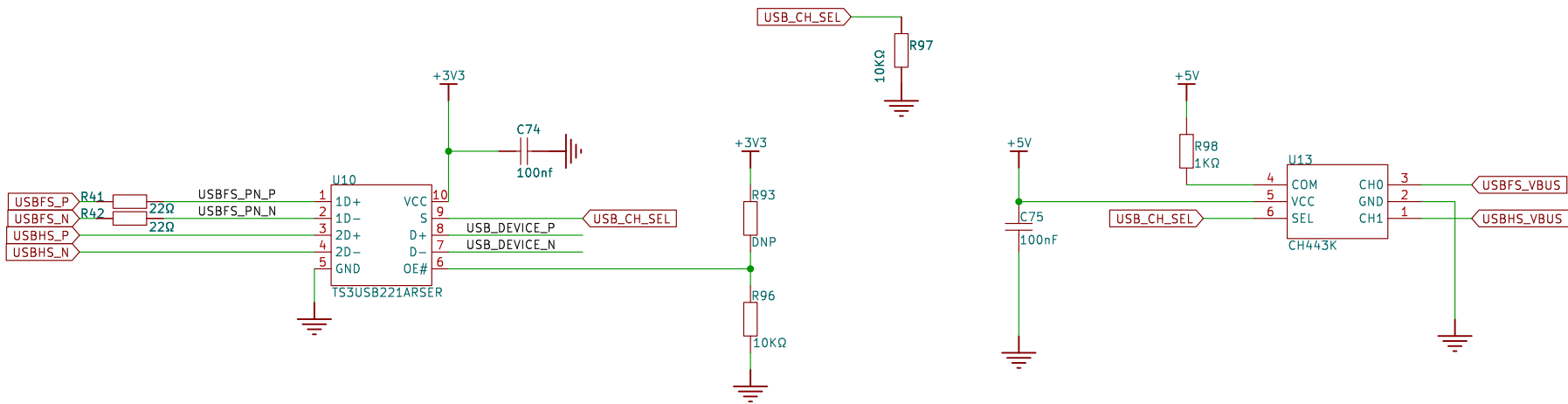
Rev: HW:V1.0  
Id: 7/15



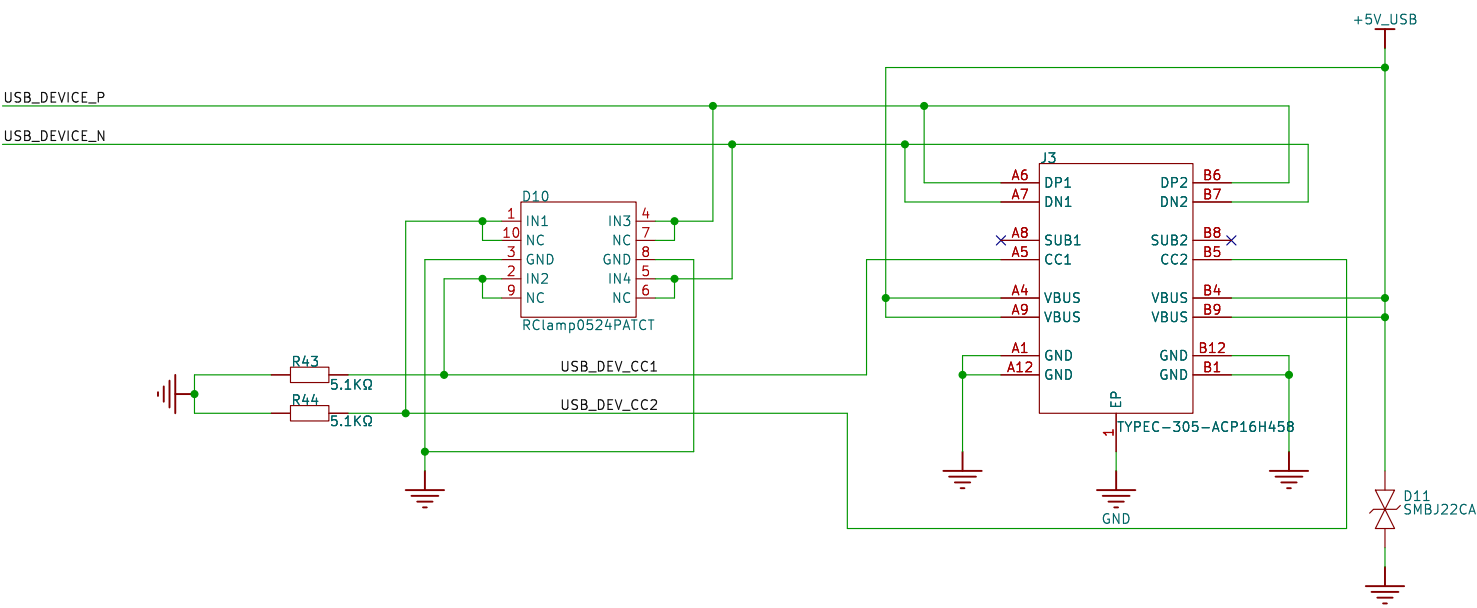




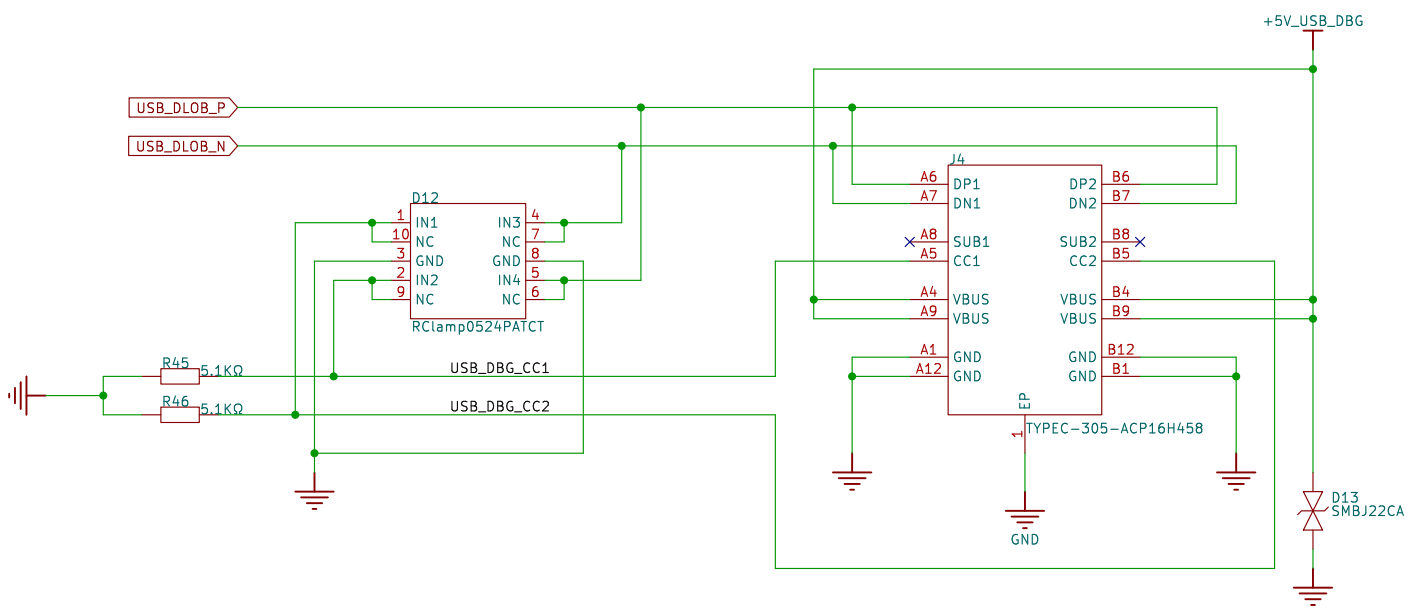
HS/FS SWITCH



USB DEVICE HS/FS



USB\_DEBUG



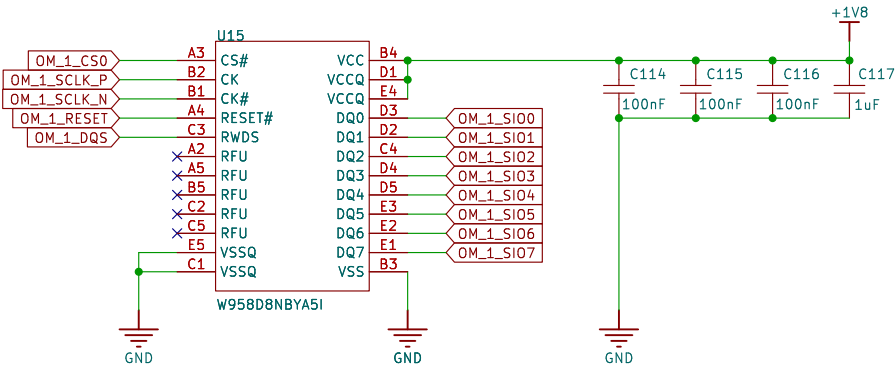
Titan Board



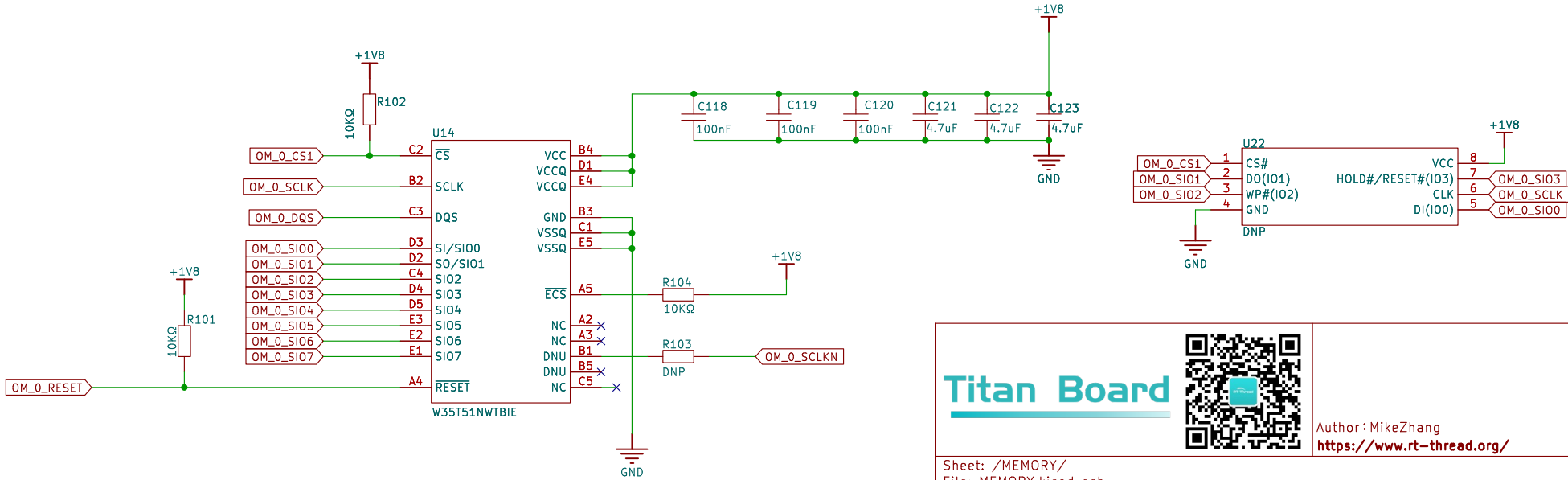
Author: MikeZhang  
<https://www.rt-thread.org/>

|                                     |                  |              |
|-------------------------------------|------------------|--------------|
| Sheet: /USB/<br>File: USB.kicad_sch |                  |              |
| <b>Title: USB</b>                   |                  |              |
| Size: A3                            | Date: 2025-09-03 | Rev: HW:V1.0 |
| KiCad E.D.A. 9.0.0                  |                  | Id: 10/15    |

HYPER RAM



FLASH

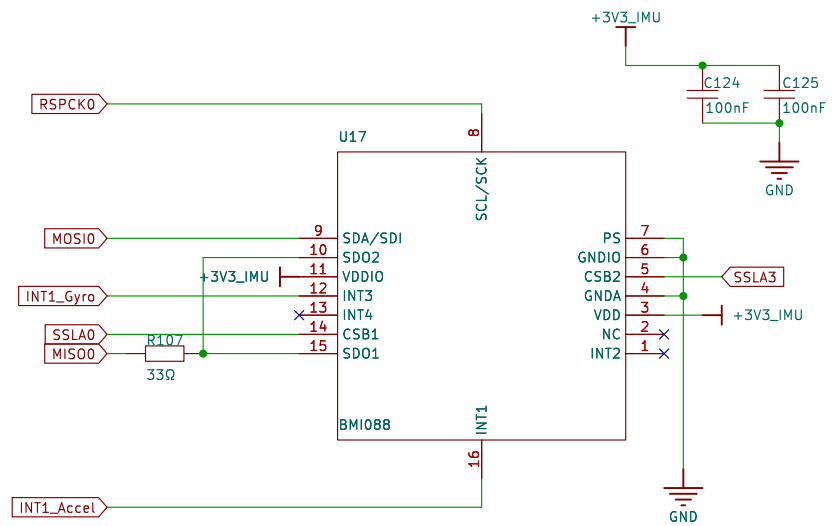


Titan Board

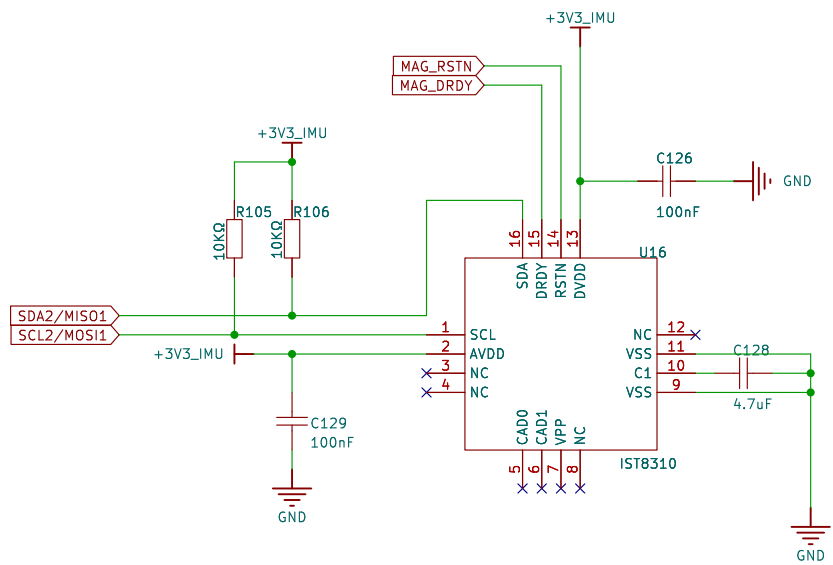



Author : MikeZhang  
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# IMU



# MAG

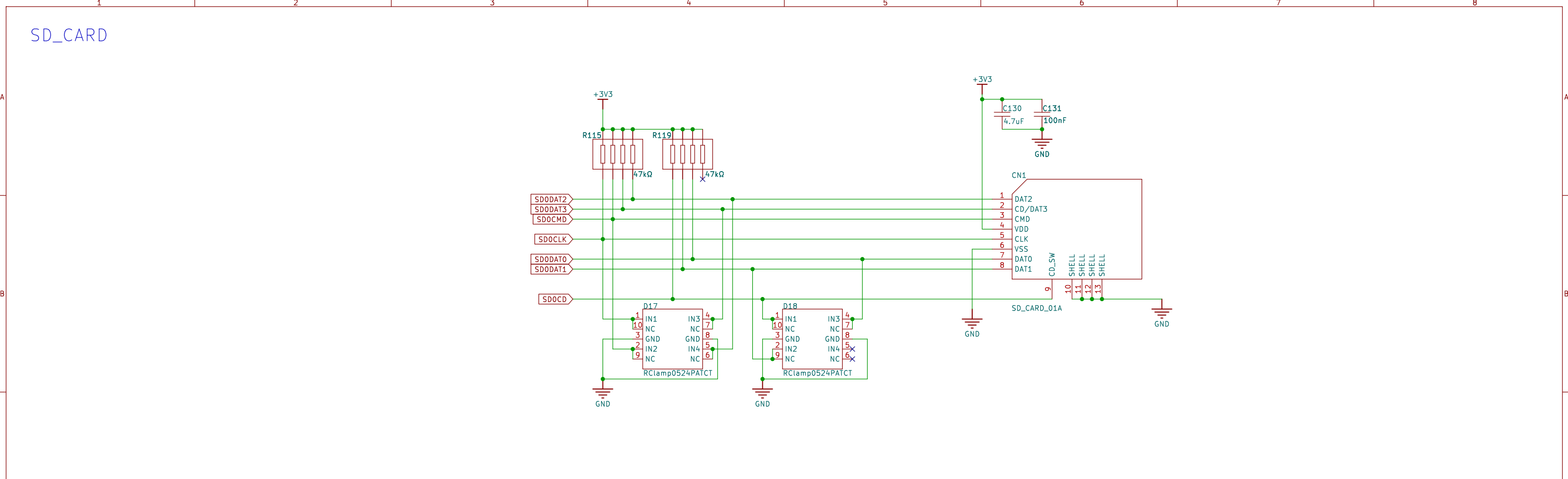
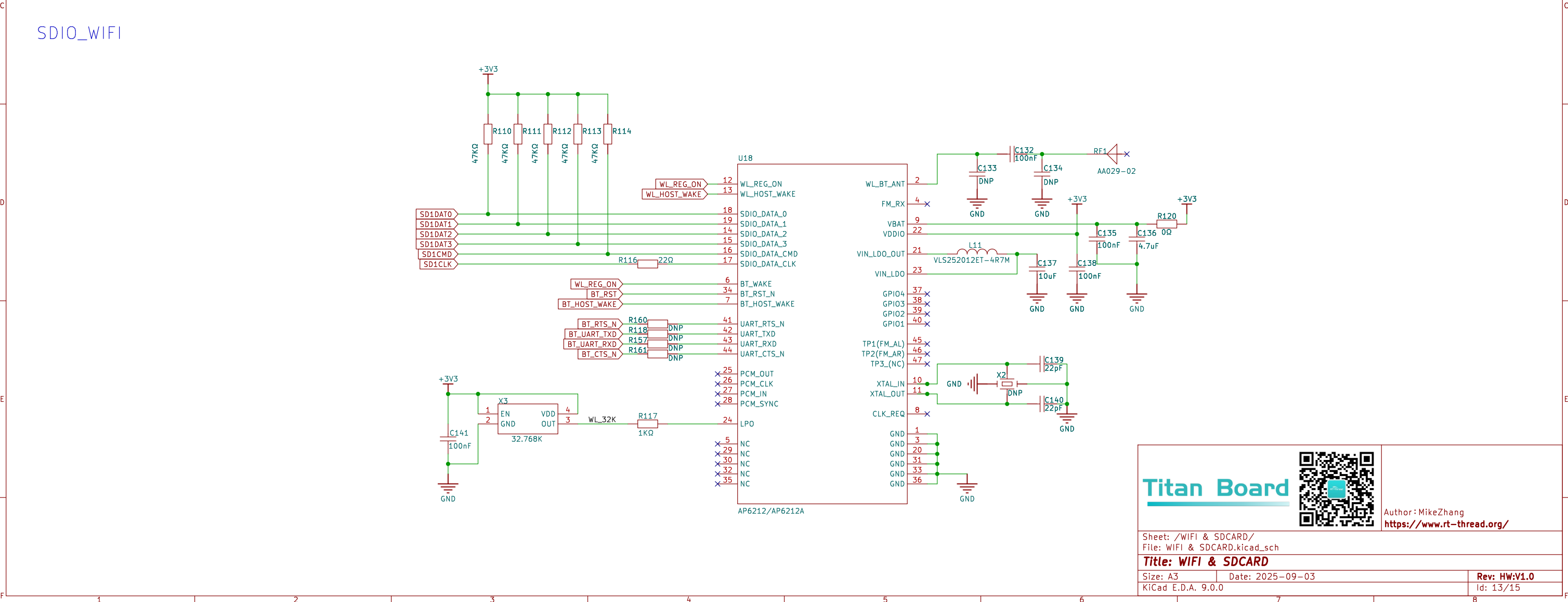





Author : MikeZhang

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|                             |                  |
|-----------------------------|------------------|
| Sheet: /IMU & MAG/          |                  |
| File: IMU & MAG.kicad_sch   |                  |
| <b>Title: IMU &amp; MAG</b> |                  |
| Size: A4                    | Date: 2025-09-03 |
| KiCad E.D.A. 9.0.0          | Rev: HW:V1.0     |
|                             | Id: 12/15        |

[illegible][illegible]

# Titan Board



Author: MikeZhang  
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|   |                           |
|---|---------------------------|
| Sheet: /WIFI & SDCARD/<br>File: WIFI & SDCARD.kicad_sch |                           |
| <b>Title: WIFI &amp; SDCARD</b>                         |                           |
| Size: A3  | Date: 2025-09-03          |
| KiCad E.D.A. 9.0.0                                      | Rev: HW:V1.0<br>Id: 13/15 |



# Titan Board



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

|   |                           |
|---|---------------------------|
| Sheet: /WIFI & SDCARD/<br>File: WIFI & SDCARD.kicad_sch |                           |
| <b>Title: WIFI &amp; SDCARD</b>                         |                           |
| Size: A3  | Date: 2025-09-03          |
| KiCad E.D.A. 9.0.0                                      | Rev: HW:V1.0<br>Id: 13/15 |

# Titan Board



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

|   |                           |
|---|---------------------------|
| Sheet: /WIFI & SDCARD/<br>File: WIFI & SDCARD.kicad_sch |                           |
| <b>Title: WIFI &amp; SDCARD</b>                         |                           |
| Size: A3  | Date: 2025-09-03          |
| KiCad E.D.A. 9.0.0                                      | Rev: HW:V1.0<br>Id: 13/15 |

# Titan Board



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

|   |                           |
|---|---------------------------|
| Sheet: /WIFI & SDCARD/<br>File: WIFI & SDCARD.kicad_sch |                           |
| <b>Title: WIFI &amp; SDCARD</b>                         |                           |
| Size: A3  | Date: 2025-09-03          |
| KiCad E.D.A. 9.0.0                                      | Rev: HW:V1.0<br>Id: 13/15 |

# Titan Board



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

|   |                           |
|---|---------------------------|
| Sheet: /WIFI & SDCARD/<br>File: WIFI & SDCARD.kicad_sch |                           |
| <b>Title: WIFI &amp; SDCARD</b>                         |                           |
| Size: A3  | Date: 2025-09-03          |
| KiCad E.D.A. 9.0.0                                      | Rev: HW:V1.0<br>Id: 13/15 |

# Titan Board



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

|   |                           |
|---|---------------------------|
| Sheet: /WIFI & SDCARD/<br>File: WIFI & SDCARD.kicad_sch |                           |
| <b>Title: WIFI &amp; SDCARD</b>                         |                           |
| Size: A3  | Date: 2025-09-03          |
| KiCad E.D.A. 9.0.0                                      | Rev: HW:V1.0<br>Id: 13/15 |

# Titan Board



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

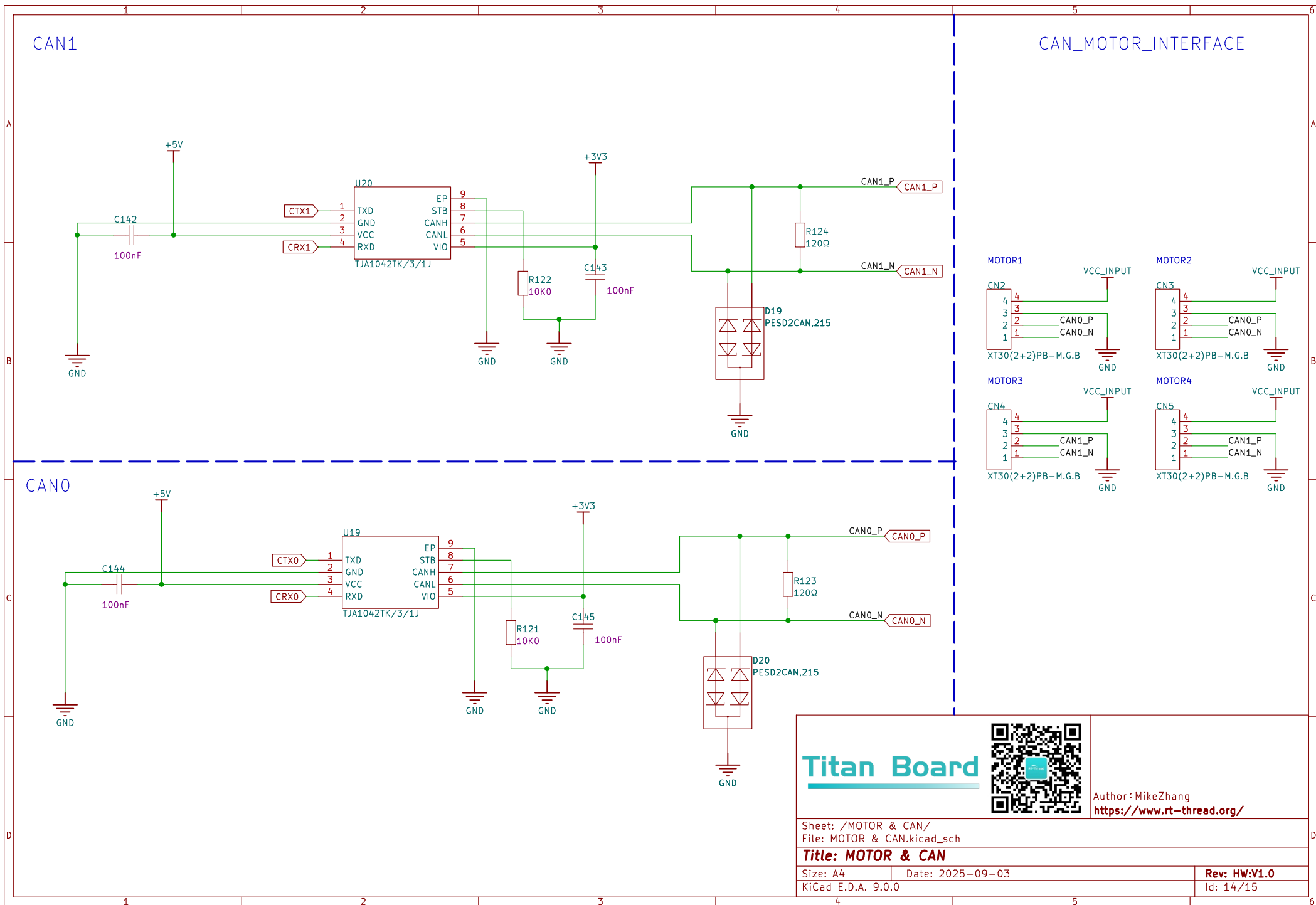
|   |                           |
|---|---------------------------|
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| Size: A3  | Date: 2025-09-03          |
| KiCad E.D.A. 9.0.0                                      | Rev: HW:V1.0<br>Id: 13/15 |

# Titan Board



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

|   |                           |
|---|---------------------------|
| Sheet: /WIFI & SDCARD/<br>File: WIFI & SDCARD.kicad_sch |                           |
| <b>Title: WIFI &amp; SDCARD</b>                         |                           |
| Size: A3  | Date: 2025-09-03          |
| KiCad E.D.A. 9.0.0                                      | Rev: HW:V1.0<br>Id: 13/15 |



Titan Board



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

Sheet: /MOTOR & CAN/  
File: MOTOR & CAN.kicad\_sch

Title: MOTOR & CAN

Size: A4 Date: 2025-09-03  
KiCad E.D.A. 9.0.0

Rev: HW:V1.0  
Id: 14/15

