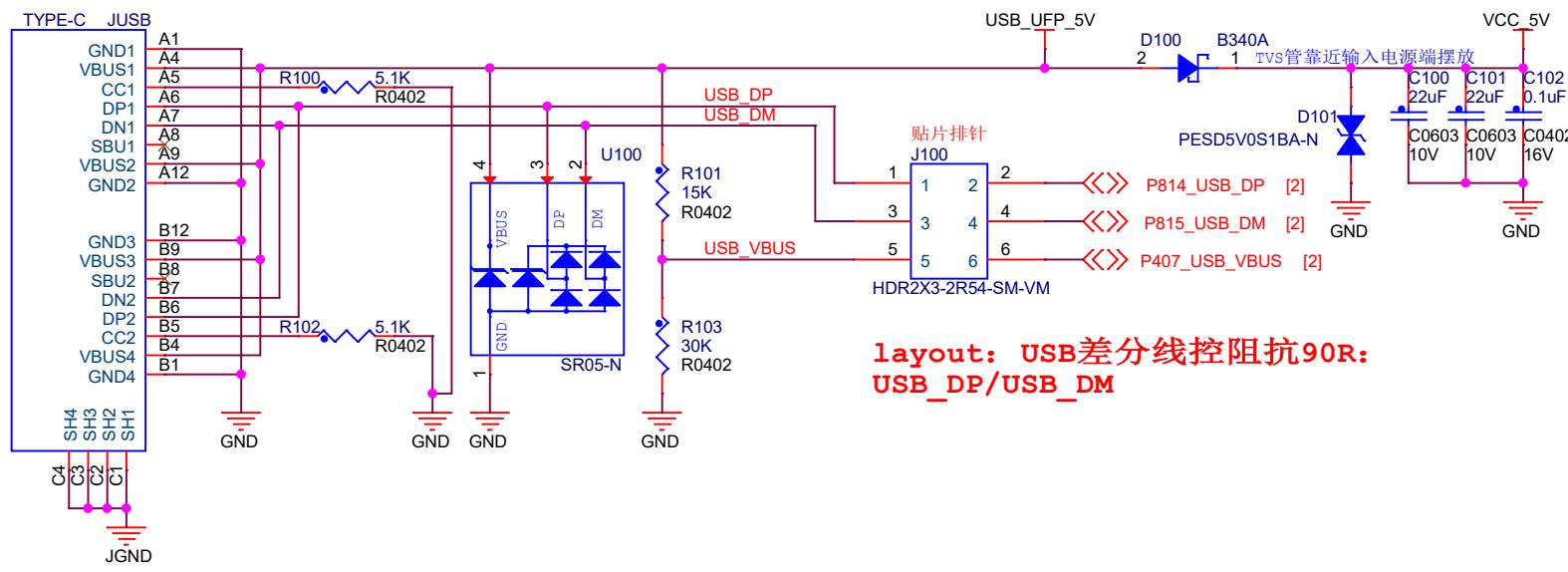
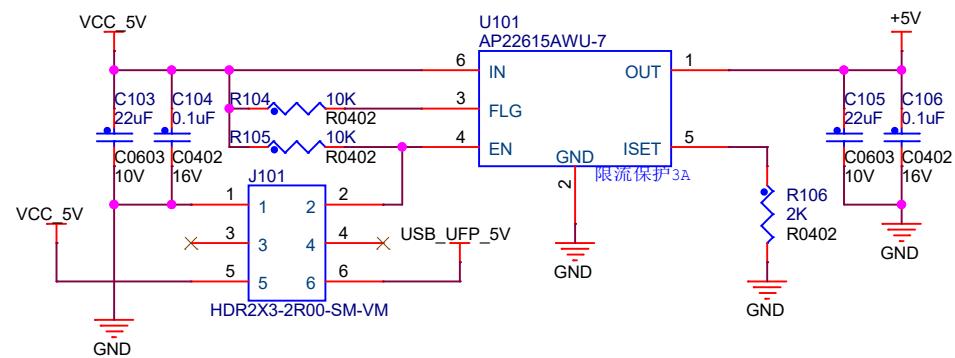


## USB\_FS

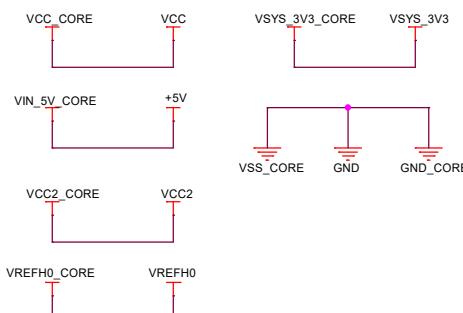
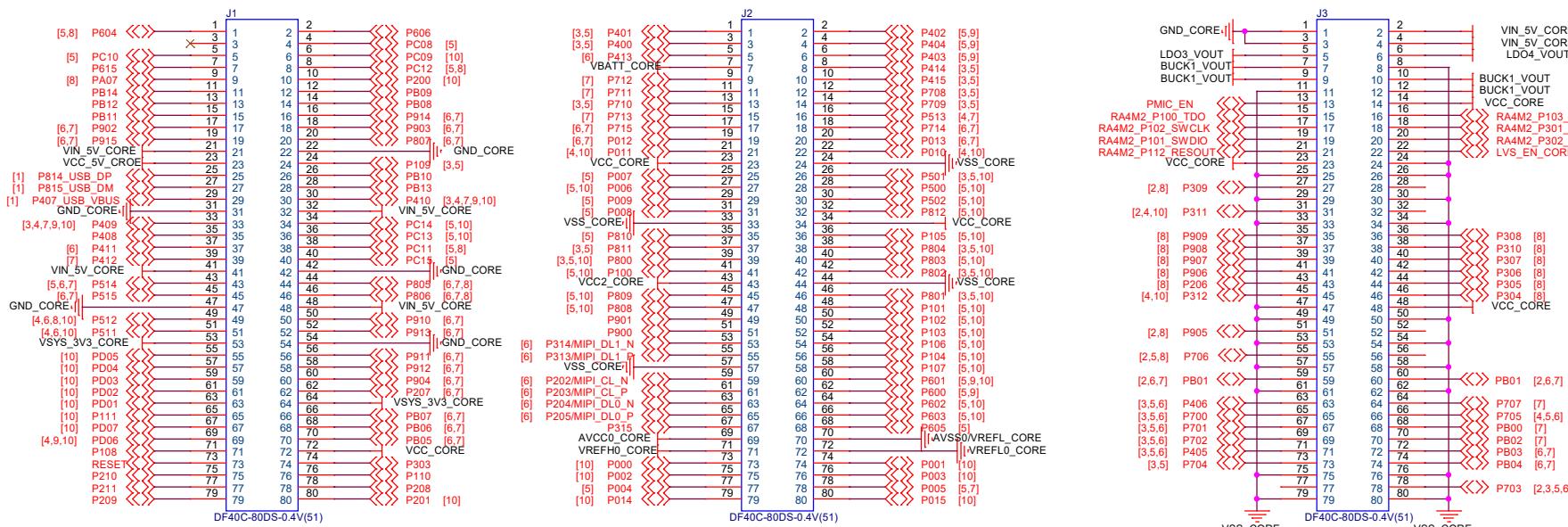


layout: USB差分线控阻抗90R:  
USB\_DP/USB\_DM

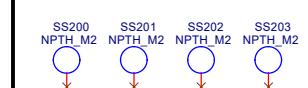


|   |                          |
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| Title<br>野火瑞萨RA8T2/P1/D2/M2千兆网口拓展板_V1.0   |                          |
| Size<br>A4  | Document Number<br>USBFS |
| Rev<br>V1.1   |                          |

Date: Saturday, October 18, 2025

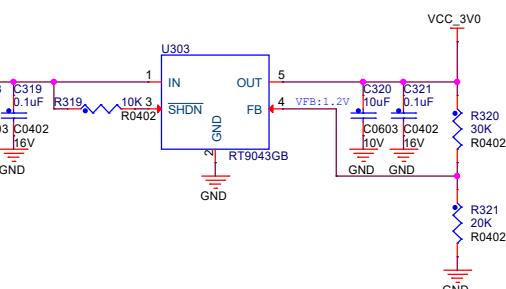
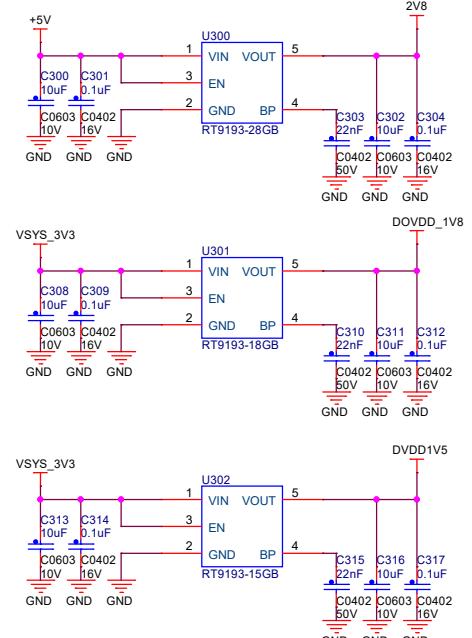


定位孔

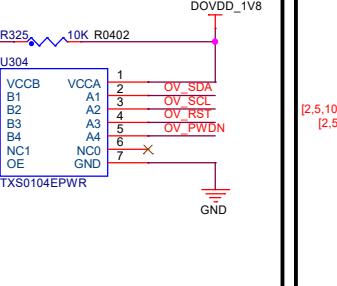


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| Title   | 野火瑞萨RA8T2/P1/D2/M2千兆网口拓展板_V1.0 | Rev           |
| Size  | Document Number                | Rev           |
| A3  | BTB                            | V0.1          |
| Date:   | Saturday, October 18, 2025     | Sheet 2 of 12 |

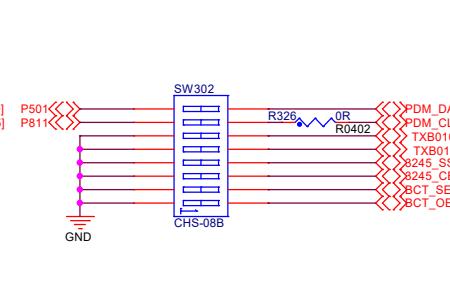
LDO



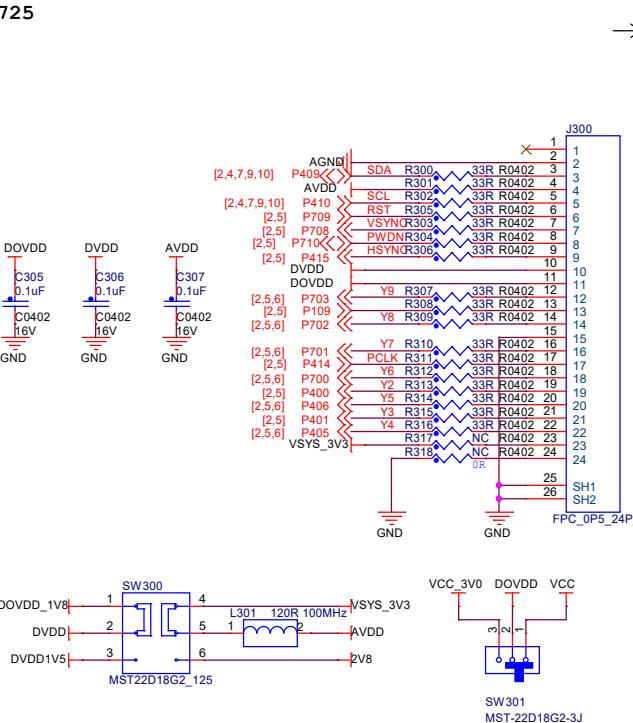
### 电平转换



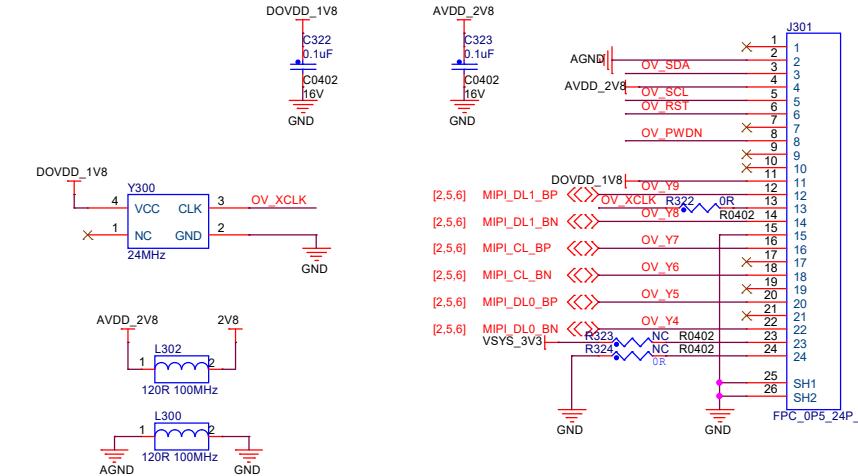
### 拨码开关



OV5640/7725



MIPI\_DSI



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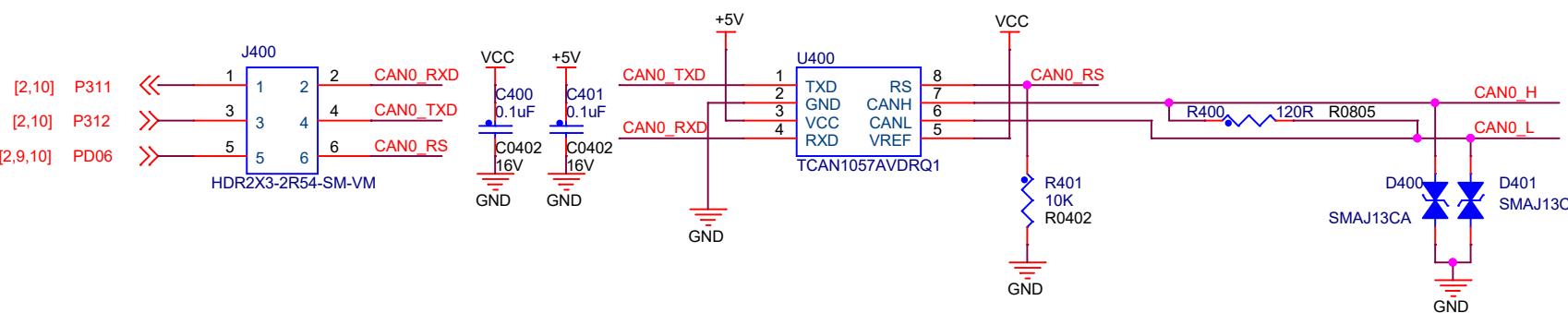
Title: 野火瑞萨RA8T2/P1/D2/M2千兆网口拓展板\_V1.0

Size A3 Document Number 0V/MIPI Rev V1.1

Date: Saturday, October 18, 2025 Sheet 3 of 12

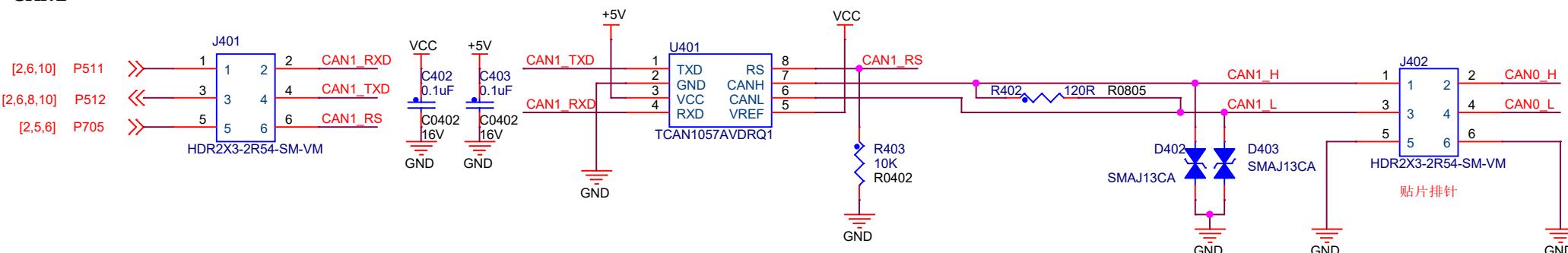
Page1: USB FS  
Page2: I2C  
Page3: OV/MIPI  
Page4: PMOD  
Page5: EGB LCD  
Page6: RGB转HDMI/HDMI接口  
Page7: 千兆网口  
Page8: 音频/陀螺仪  
Page10: Arduino

CANO

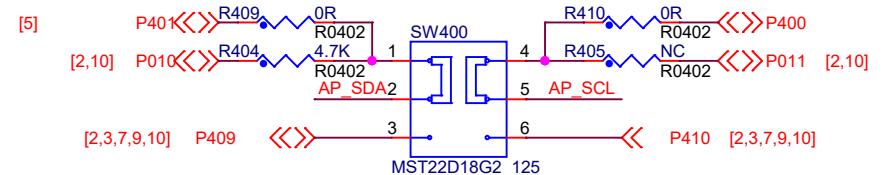
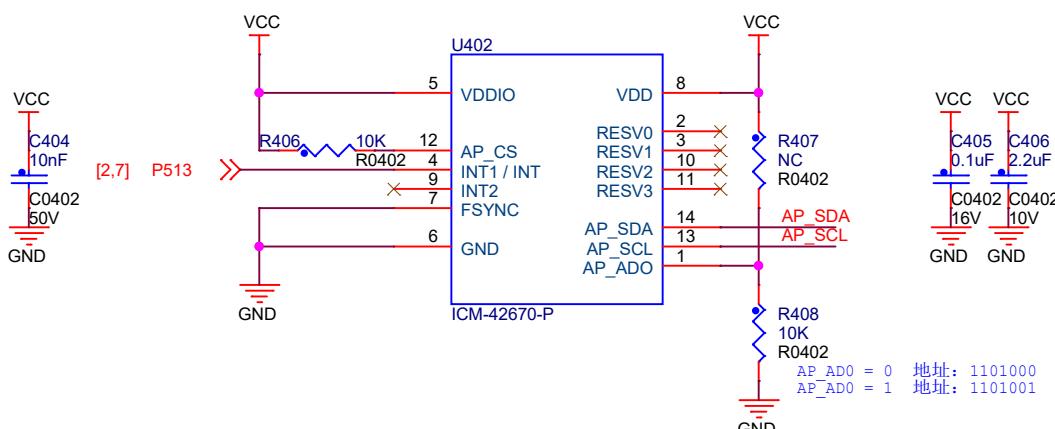


→ Page1: USB\_FS  
Page2: BTB  
Page3: OV/MIPI  
Page4: PDM/CAN  
Page5: PMOD  
Page6: ERGB LCD  
Page7: RGB转HDMI/HDMI接口  
Page8: 千兆网口  
Page9: 音频/陀螺仪  
Page10: Arduino

CAN1



陀螺仪



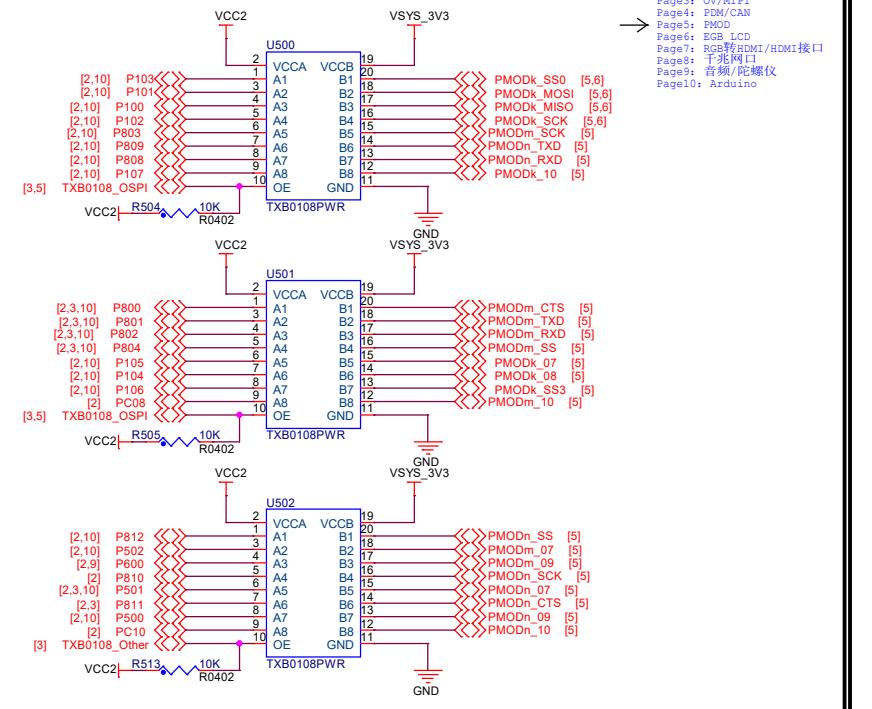
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野火瑞萨PA8T2/R1/D2/M2毛兆网口拓展板 V1.0

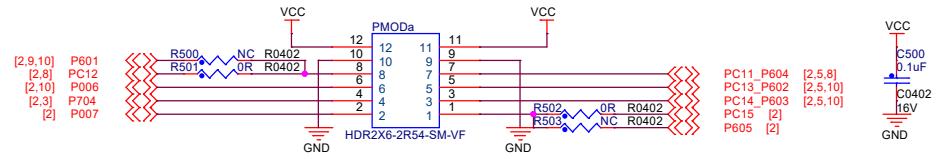
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Date: Saturday, October 18, 2025

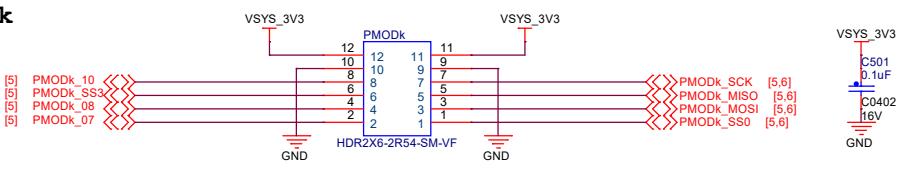
## 电平转换



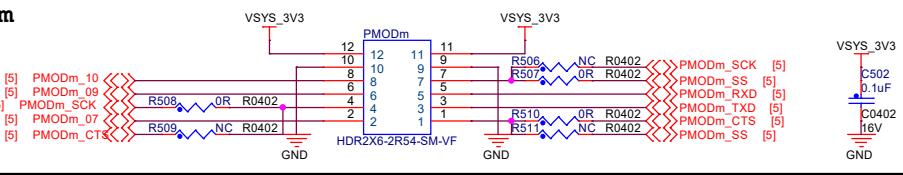
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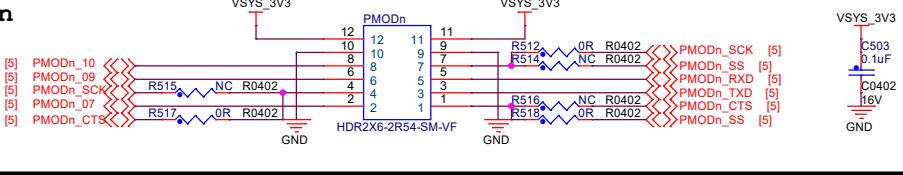
## PMODk



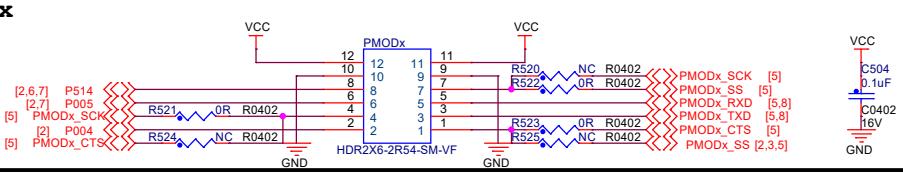
## PMODm



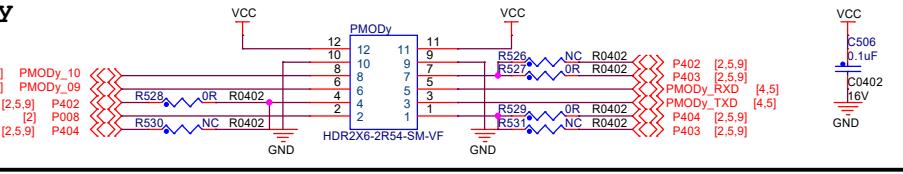
## PMODn



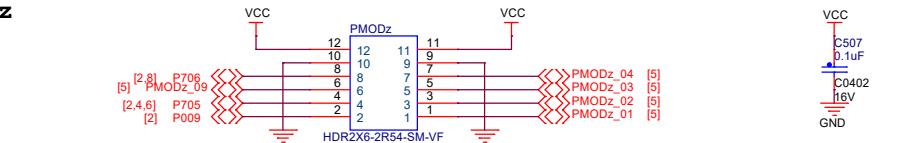
## PMODx



## PMODY

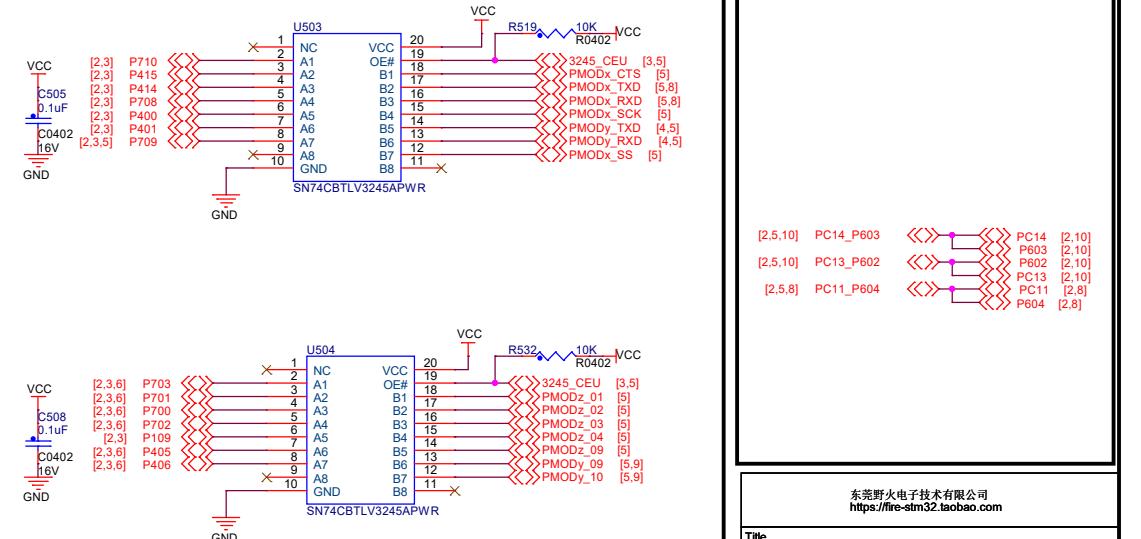


## PMODz



PMOD使用立贴母座，横向间隔按PMOD标准  
(中心距9x2.54mm)，纵向间隔中心距2.54x4=10.16mm。

## 电路开关

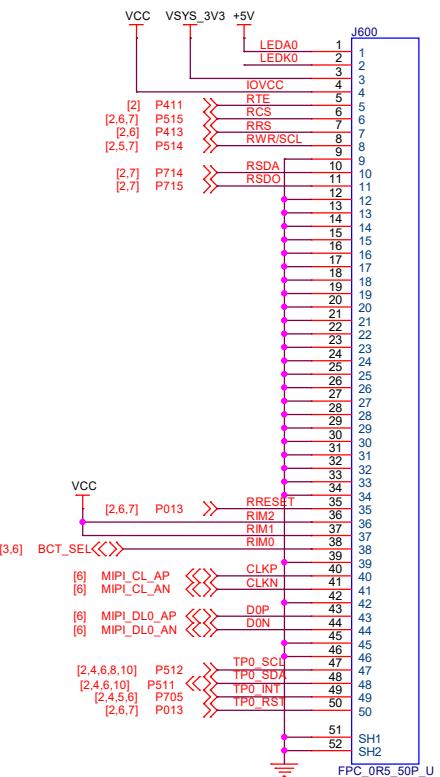
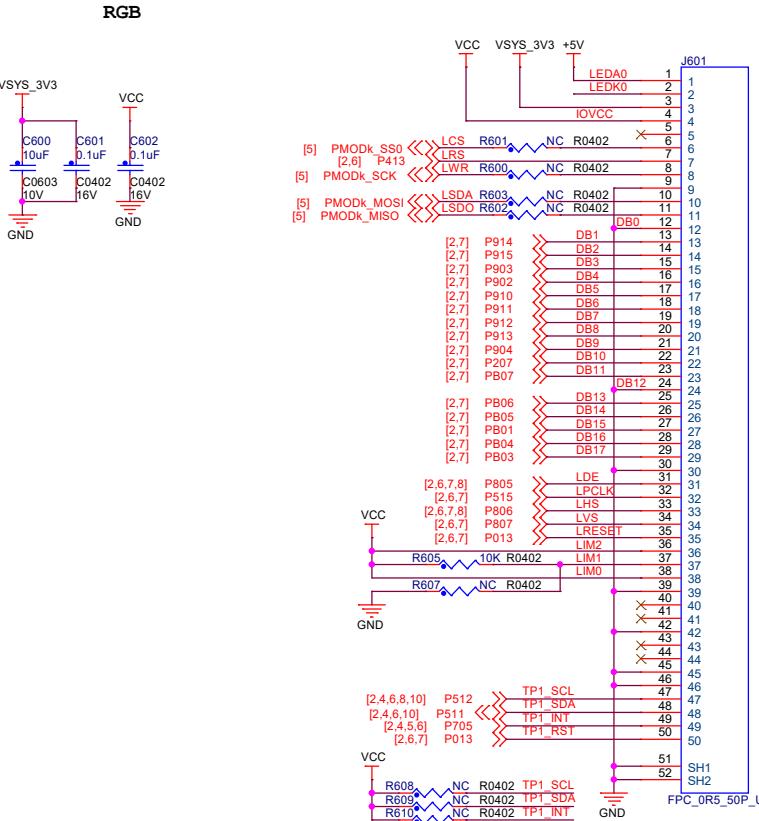


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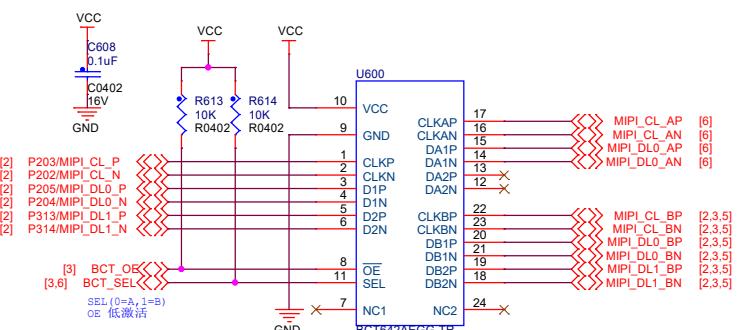
Title: 野火瑞萨RA8T2/P1/D2/M2千兆网口拓展板\_V1.0

Size A3 Document Number PMOD Rev V1.1

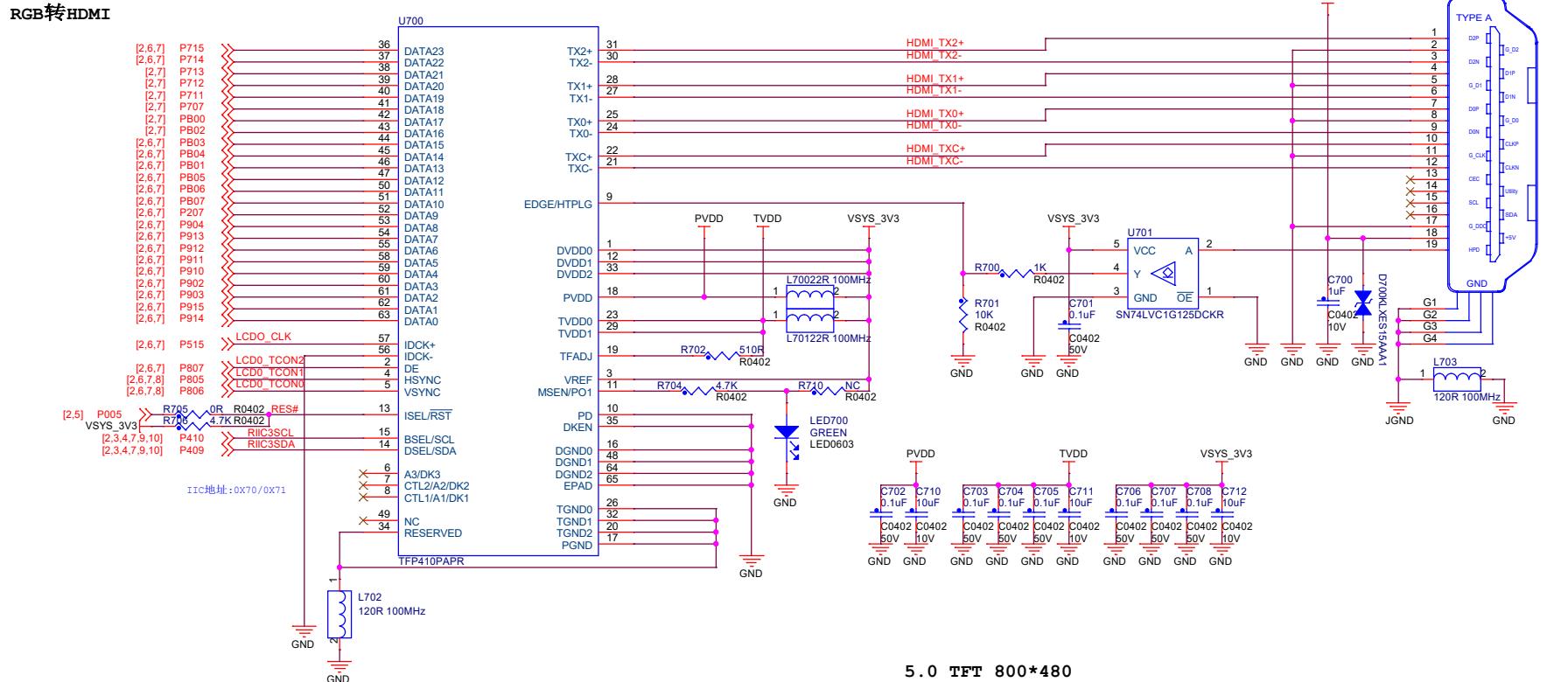
Date: Saturday, October 18, 2025 Sheet 5 of 12



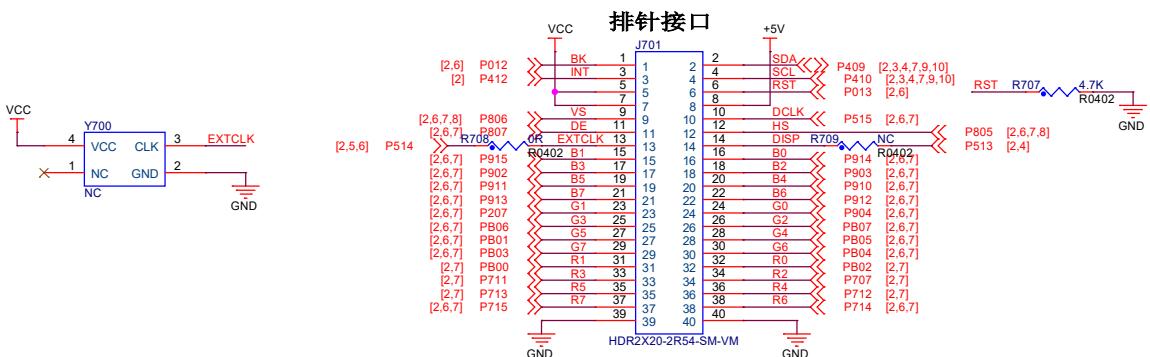
| IM2 | IM1 | IMO | interface mode  | data pin    |
|-----|-----|-----|-----------------|-------------|
| 0   | 0   | 0   | 18 bit parallel | DB17:DB00   |
| 0   | 0   | 1   | 9 bit parallel  | DB08:DB00   |
| 0   | 1   | 1   | 16 bit parallel | DB15:DB00   |
| 0   | 1   | 1   | 8 bit parallel  | DB07:DB00   |
| 1   | 0   | 1   | 3SPI            | SDA :in/out |
| 1   | 1   | 0   | MIPI            | MIPI_DATA   |
| 1   | 1   | 1   | 4SPI            | SDA :in/out |

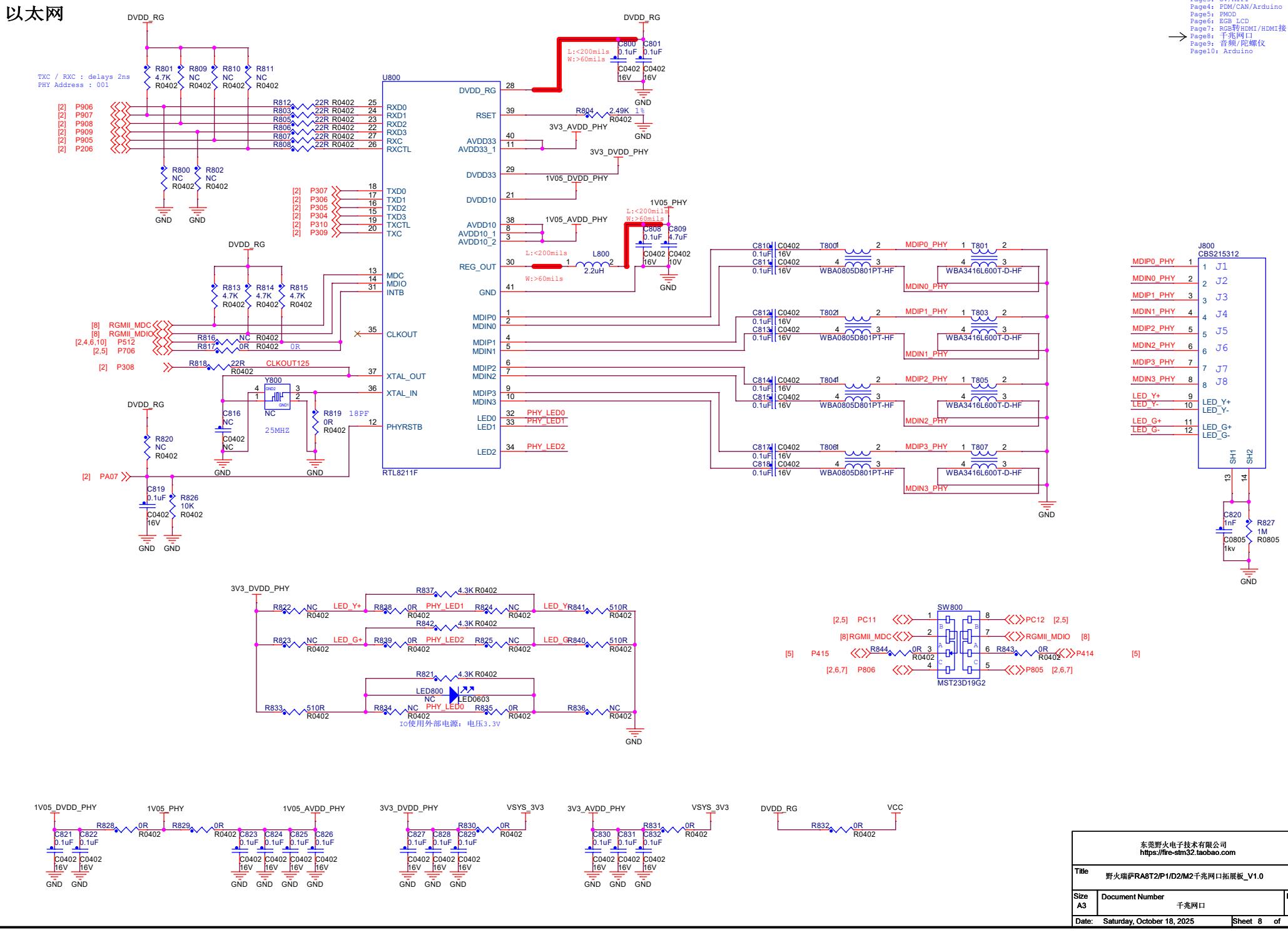


|   |                                  |
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| Title<br>野火瑞萨RA8T2/P1/D2/M2千兆网口拓展板_V1.0   |                                  |
| Size<br>A3  | Document Number<br>RGB_LCD       |
| Rev<br>V0.1   | Date: Thursday, October 16, 2025 |

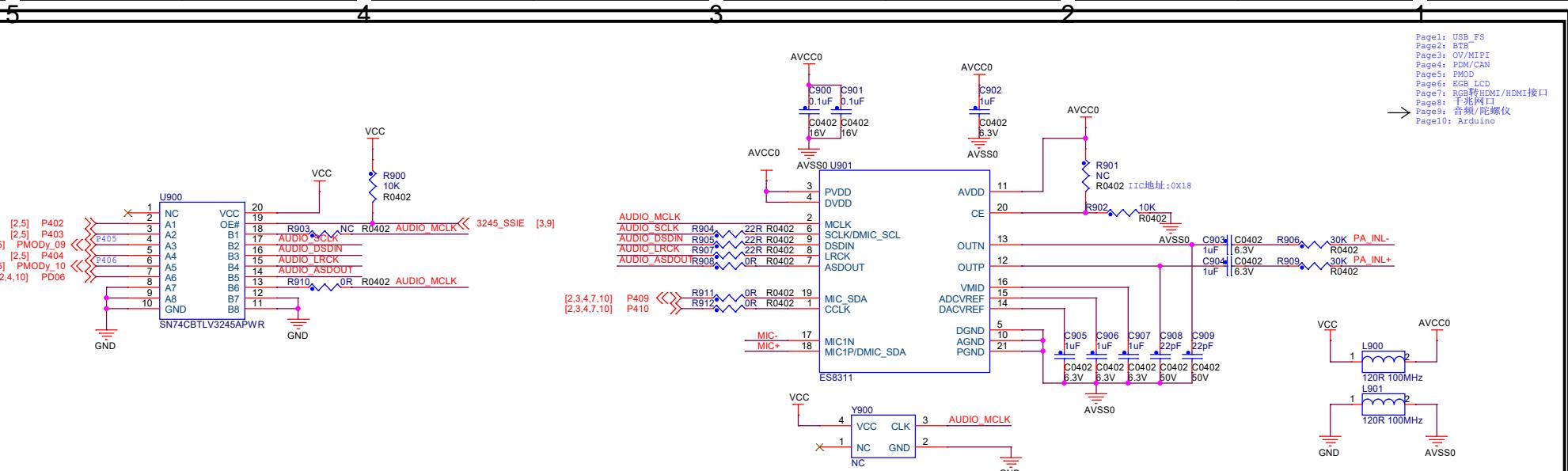


5.0 TFT 800\*480

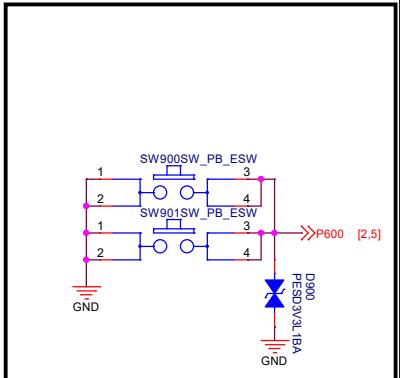
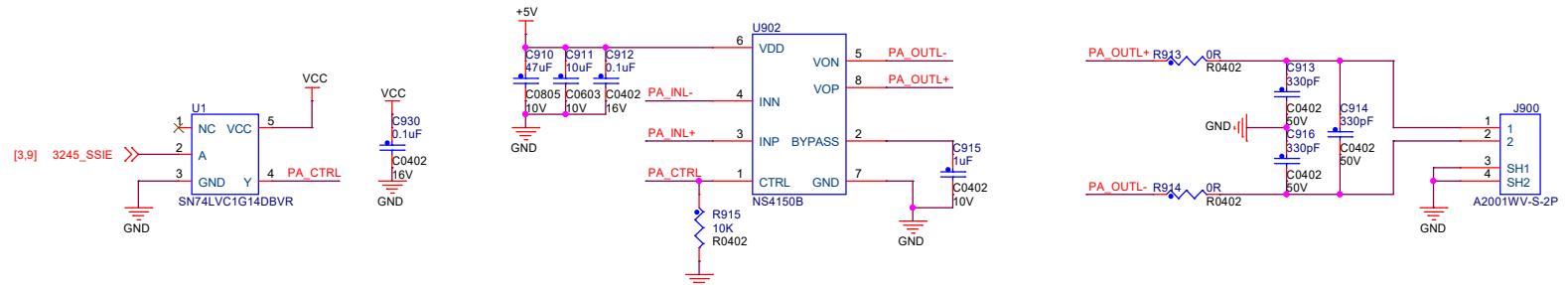




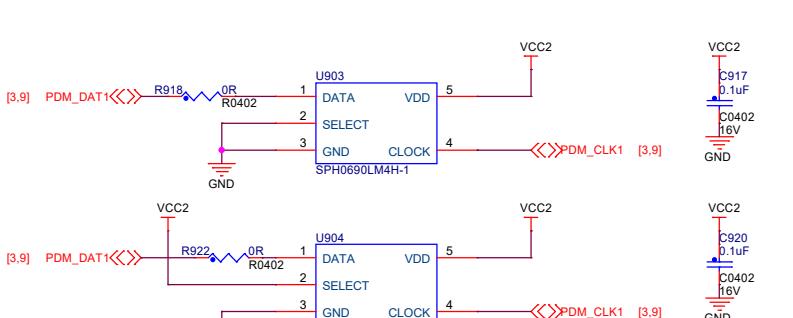
ES8311



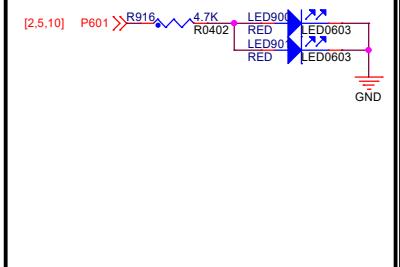
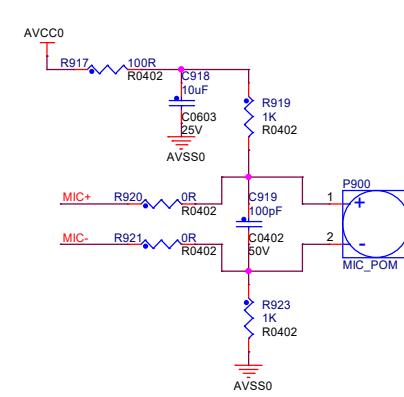
SPERK



PDM



MIC



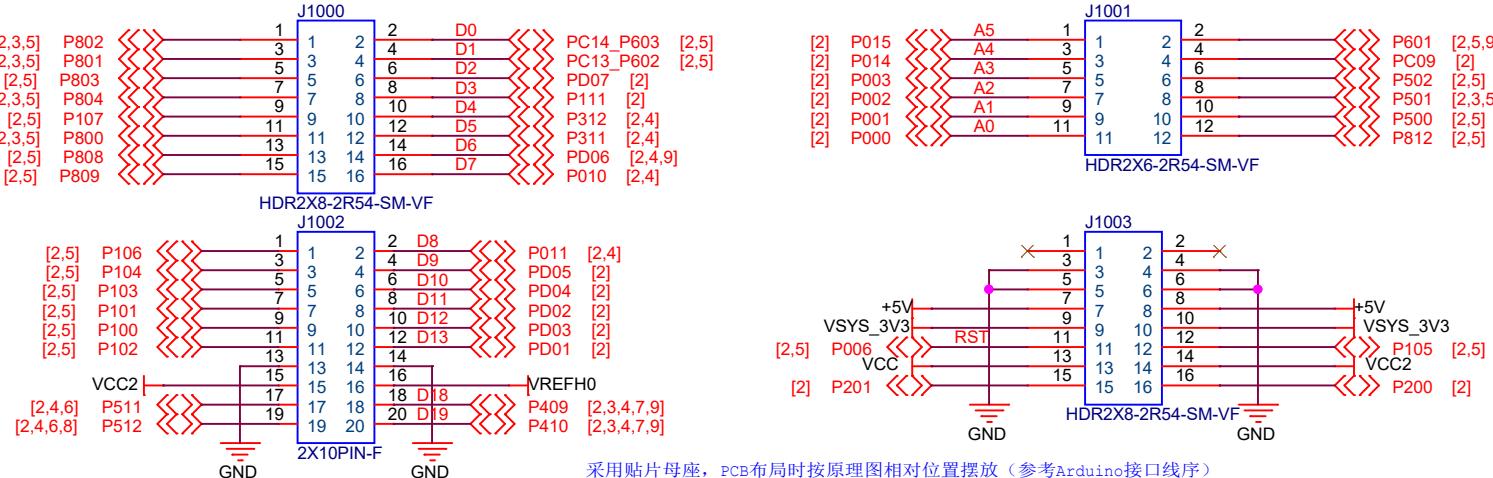
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Title: 野火瑞萨RA8T2/P1/D2/M2千兆网口拓展板\_V1.0

Size A3 Document Number 音频/陀螺仪 Rev V1.1

Date: Saturday, October 18, 2025 Sheet 9 of 12

## Arduino



Page1: USB\_FS  
 Page2: BTB  
 Page3: OV/MIPI  
 Page4: PDM/CAN  
 Page5: PMOD  
 Page6: EGB LCD  
 Page7: RGB转HDMI/HDMI接口  
 Page8: 千兆网口  
 Page9: 音频/陀螺仪  
 Page10: Arduino

|   |                            |             |
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| Size<br>A4  | Document Number<br>Arduino | Rev<br>V1.1 |
| Date: Thursday, October 16, 2025  | Sheet 10 of 12             |             |

# 野火瑞萨RA8T2/P1/D2/M2千兆网口拓展板\_V1.0

## 目录

|                |                 |
|----------------|-----------------|
| <b>Page 1</b>  | USB_FS          |
| <b>Page 2</b>  | BTB             |
| <b>Page 3</b>  | OV/MIPI         |
| <b>Page 4</b>  | PDM/CAN/Arduino |
| <b>Page 5</b>  | PMOD            |
| <b>Page 6</b>  | RGB_LCD         |
| <b>Page 7</b>  | RGB转HDMI/HDMI接口 |
| <b>Page 8</b>  | 千兆网口            |
| <b>Page 9</b>  | 音频/陀螺仪          |
| <b>Page 10</b> | 目录              |
| <b>Page 11</b> | 历史版本            |
|                |                 |
|                |                 |
|                |                 |
|                |                 |

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| Title                          |                 |          |
|--------------------------------|-----------------|----------|
| 野火瑞萨RA8T2/P1/D2/M2千兆网口拓展板_V1.0 |                 |          |
| Size A4                        | Document Number | Rev V1.1 |
|                                | 目录              |          |

## 历史版本

| 版本号  | 日期         | 设计  | 描述   |
|------|------------|-----|------|
| V0R1 | 2025-07-18 | LPC | 初始版本 |
|      |            |     |      |
|      |            |     |      |
|      |            |     |      |
|      |            |     |      |

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Title  
野火瑞萨百兆网拓展模块\_V1.0

Size Document Number Rev  
A4 历史版本 V1.1

Date: Thursday, October 16, 2025 Sheet 12 of 12