

野火_鲁班猫3金手指底板

目录 (LubanCat 3_IOF) RK3576_原理图_V0.1

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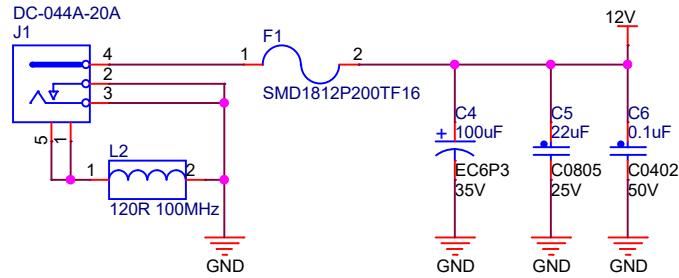
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Title 鲁班猫3金手指底板 (LubanCat 3_IOF) RK3576		
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历史版本

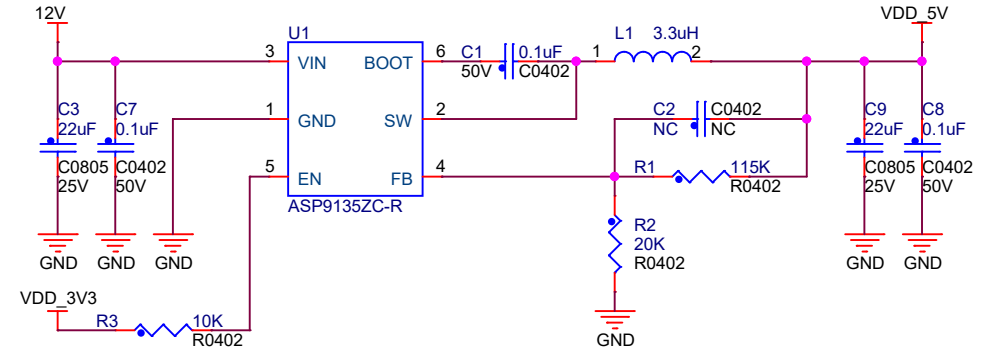
版本号	日期	设计	描述
V1.0	2025-09-06	ZTC	初始版本
V1.1	2026-06-25	llm	删掉RTC CLKOUT引脚相关的电路 (即删除了RTC_32K_IN) ，把金手指163脚给复位信号使用

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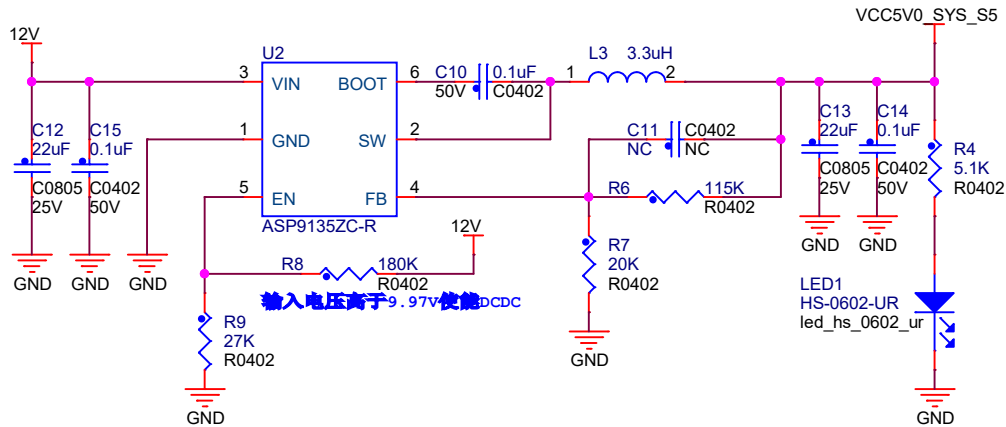
DC IN : 12V



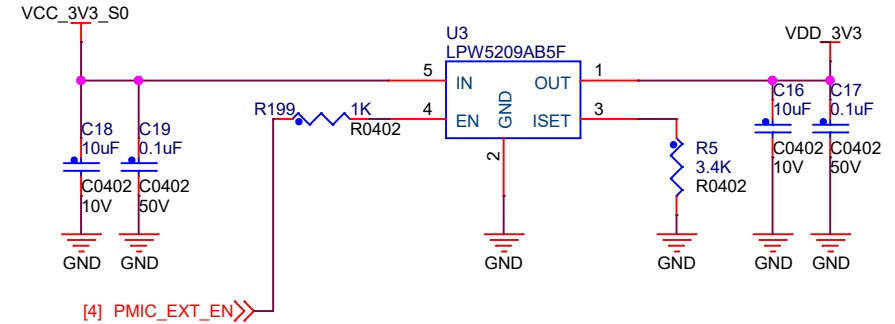
12V转5V: 底板电源



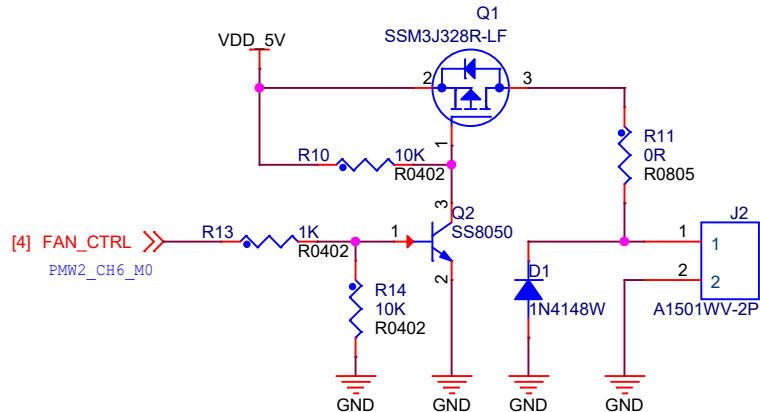
12V转5V: 核心板电源



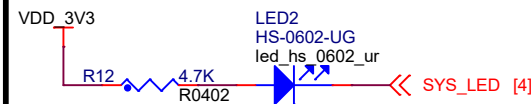
底板电源3V3



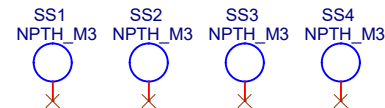
FAN



LED



定位孔



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A4	电源输入/FAN/LED		V0.1	
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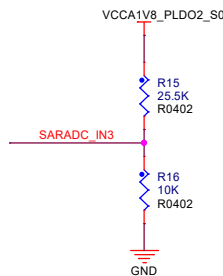
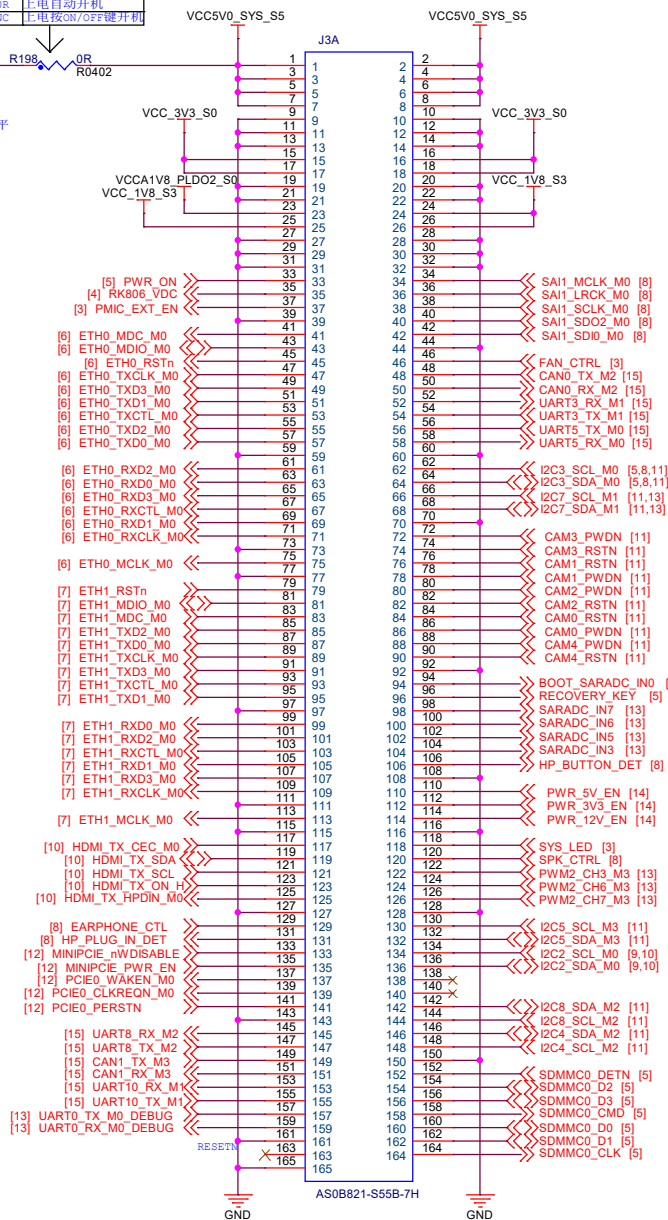
金手指



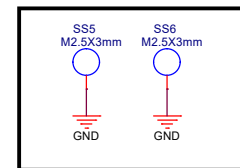
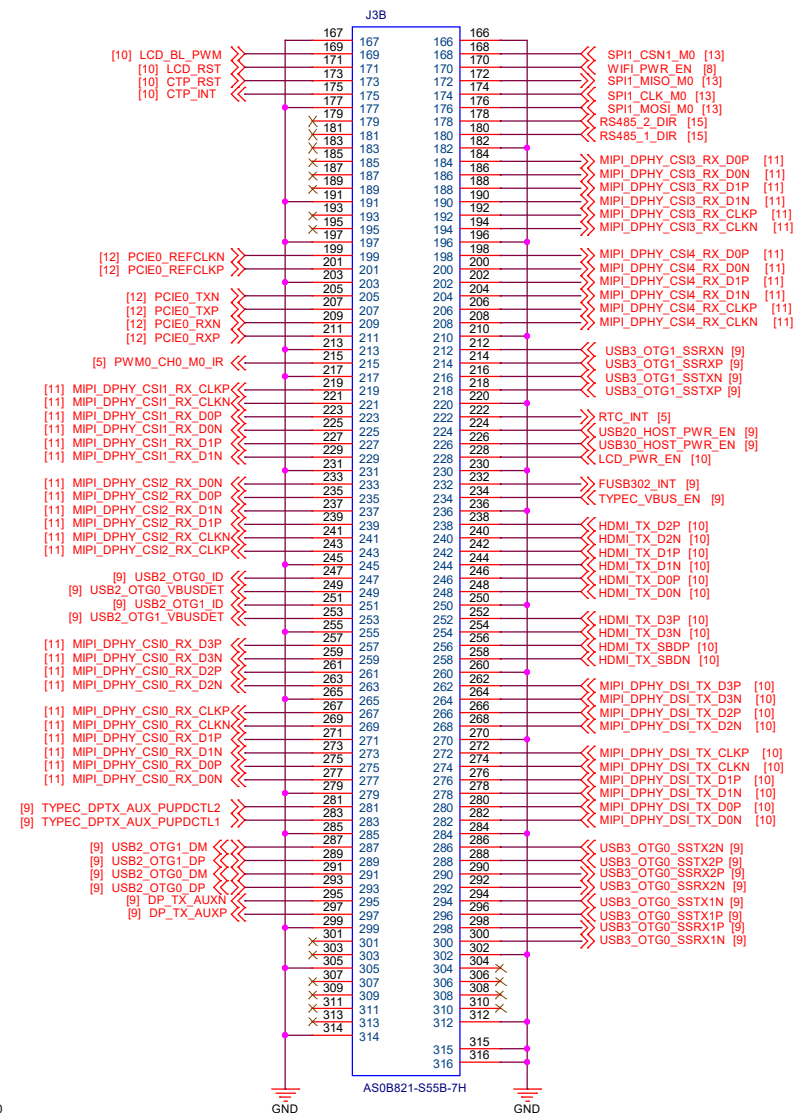
[4] RK806_VDC <<—

0/1.8V的GPIO如下，其余都是0/3.3V电平

```
PWR_12V_EN
RTC_32K_IN
PMIC_PWR_CTRL1
PMIC_PWR_CTRL2
RTC_INT
PMIC_INT
SDMMC0_DET_N
USB30_HOST_PWR_EN
USB20_HOST_PWR_EN
I2C1_SCL_M0
I2C1_SDA_M0
```



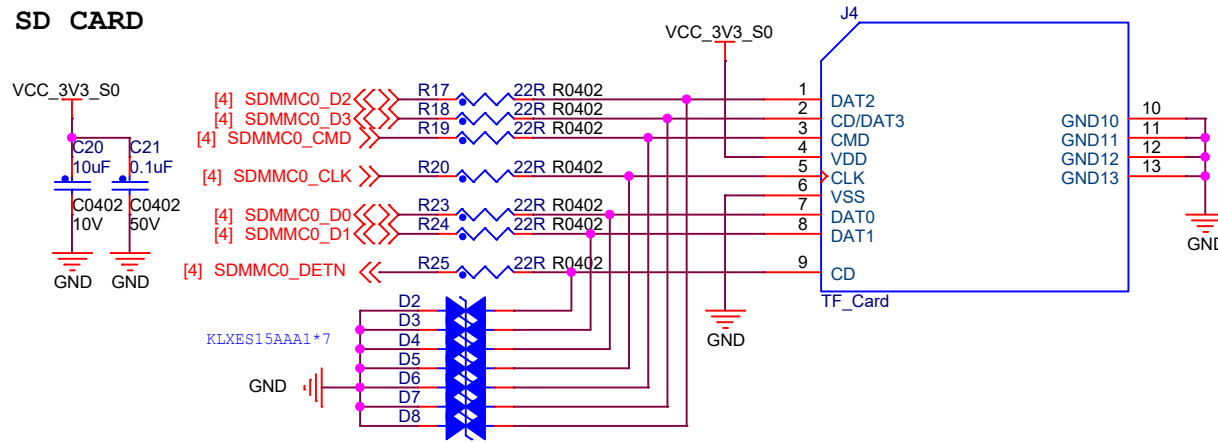
Board ID:0x0001 VIN2:0.3V VIN3:0.507V ADC:VIN2:682 VIN3:1153



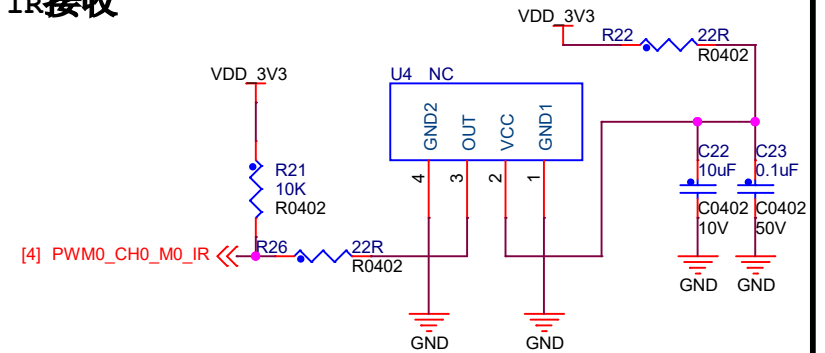
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鲁班猫3金手指底板 (LubanCat 3_IOF) RK3576			
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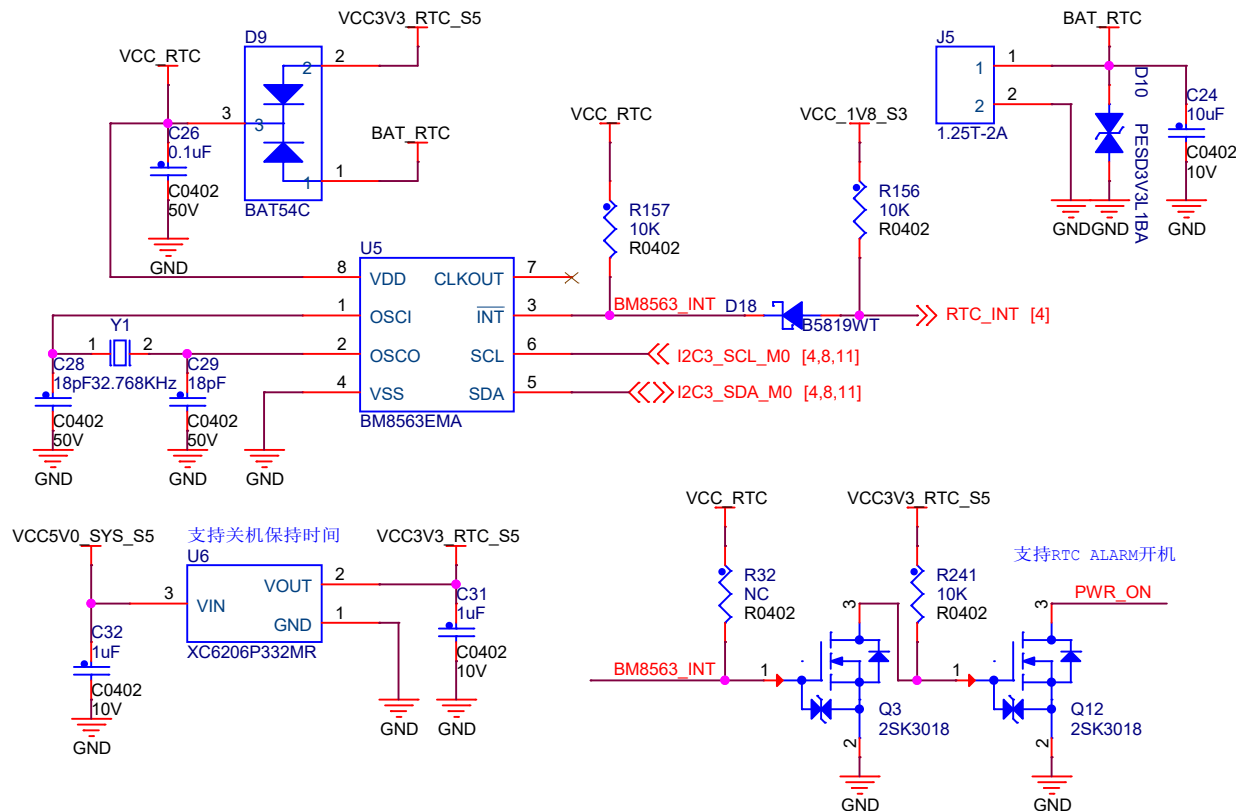
SD CARD



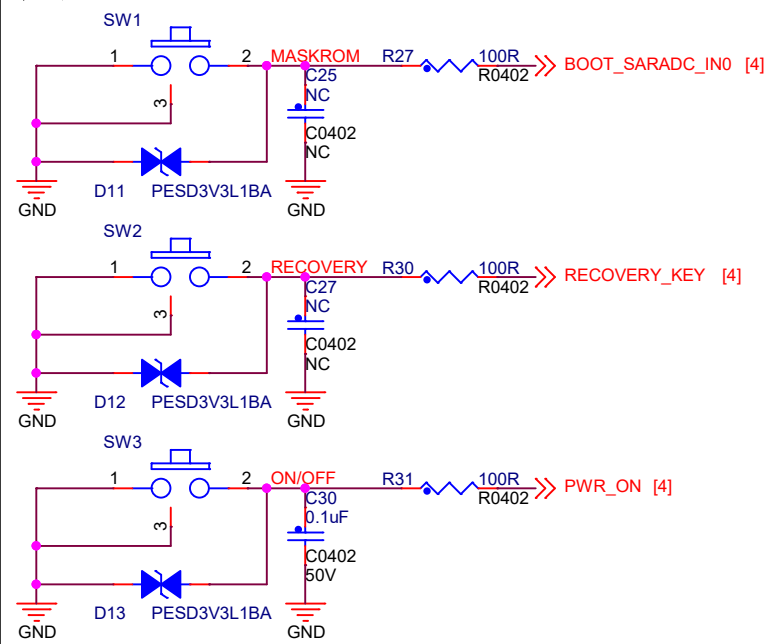
IR接收



RTC电源插座，支持断电保存时间



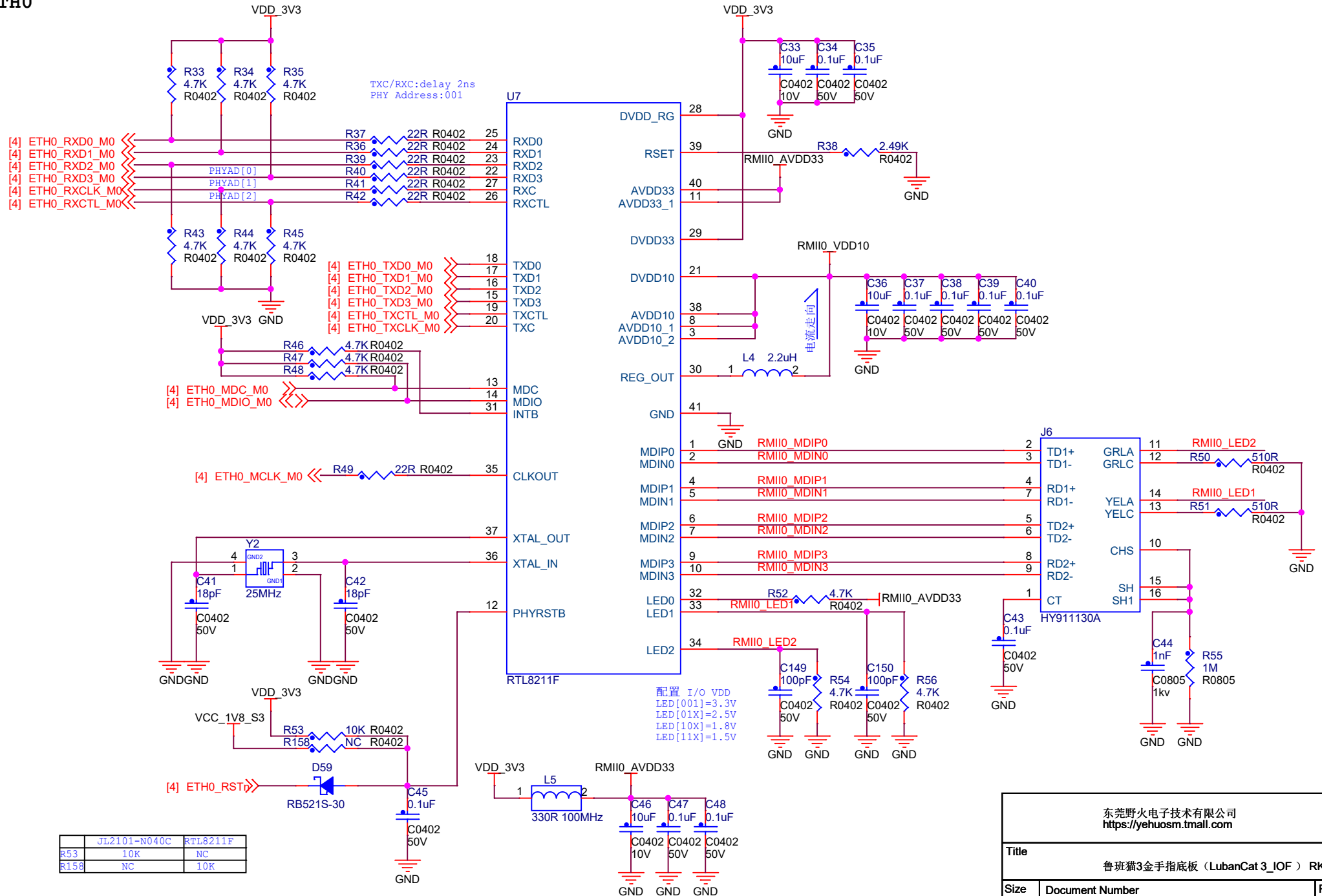
按键



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ETH0

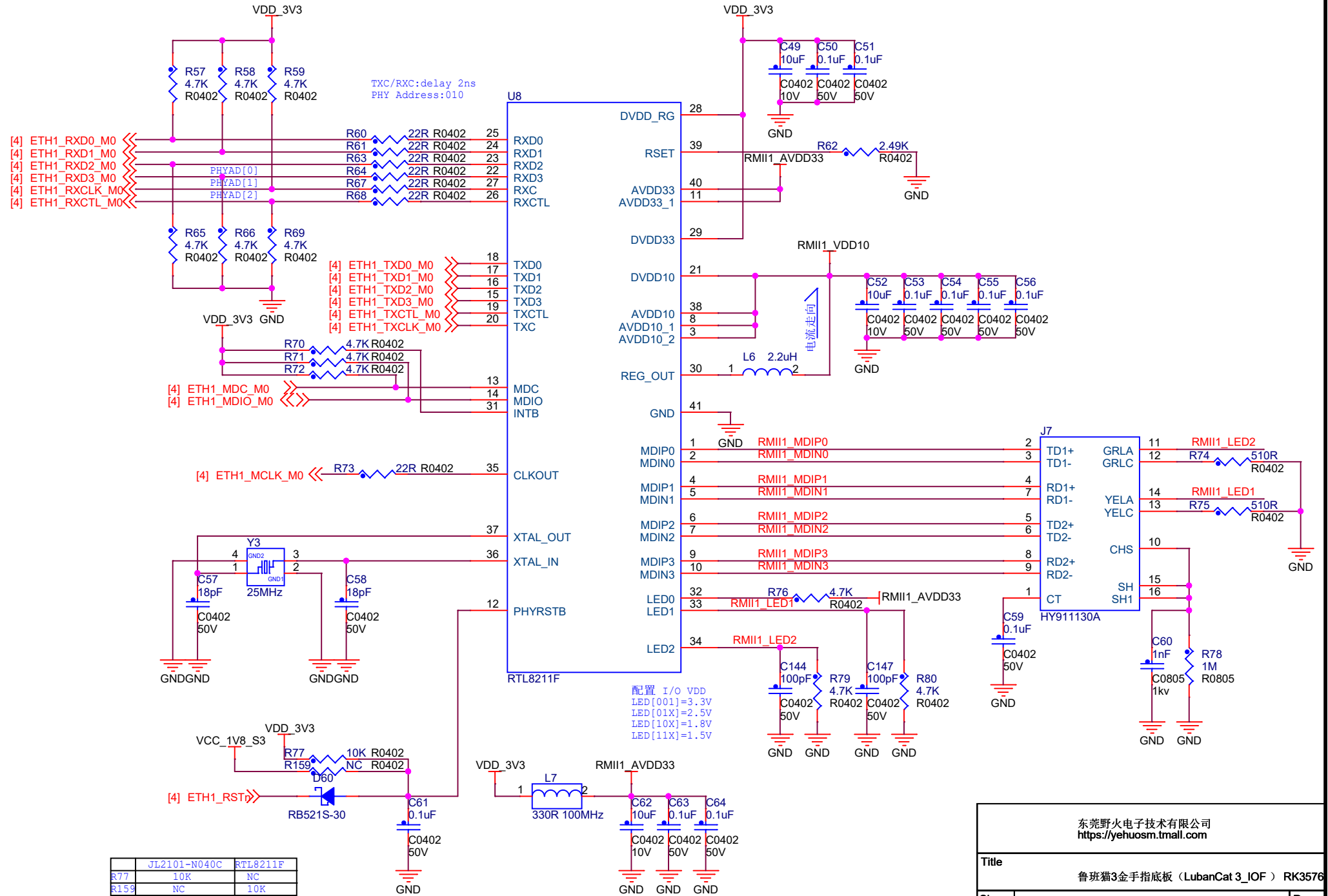


	JL2101-N040C	RTL8211F
R53	10K	NC
R158	NC	10K

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KEY



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Title

鲁班猫3金手指底板 (LubanCat 3_I/O) RK3576

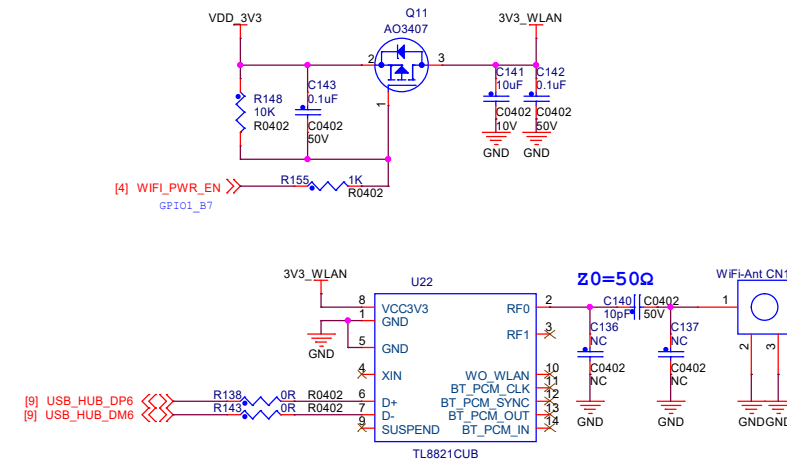
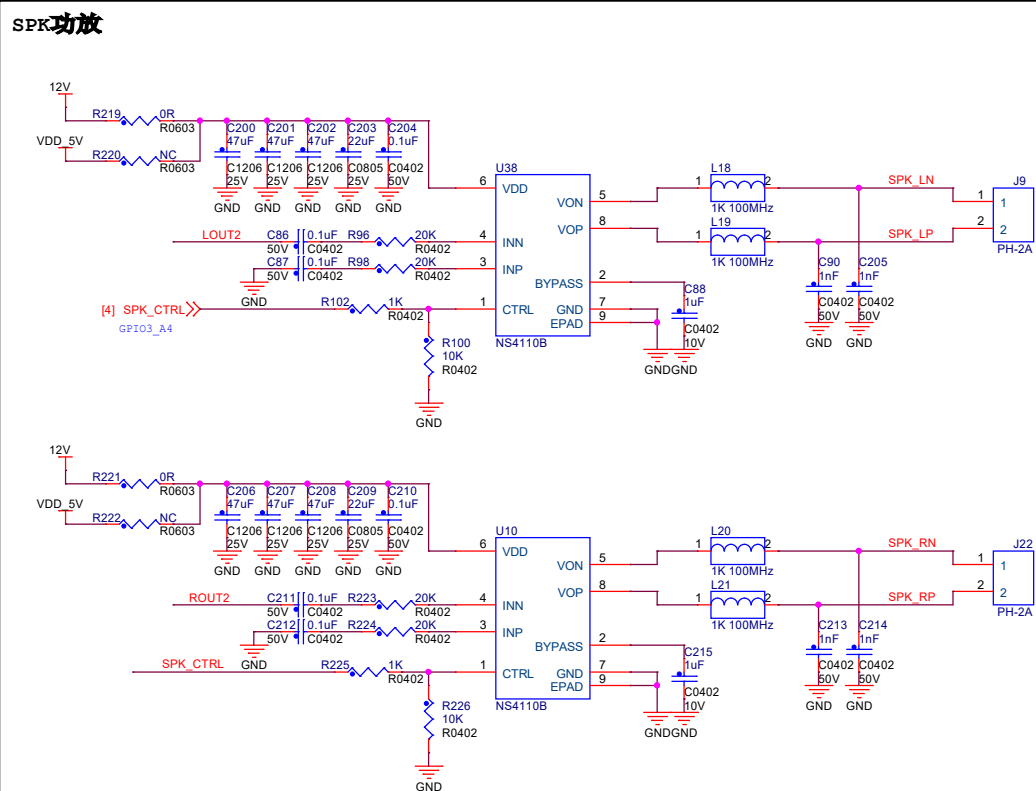
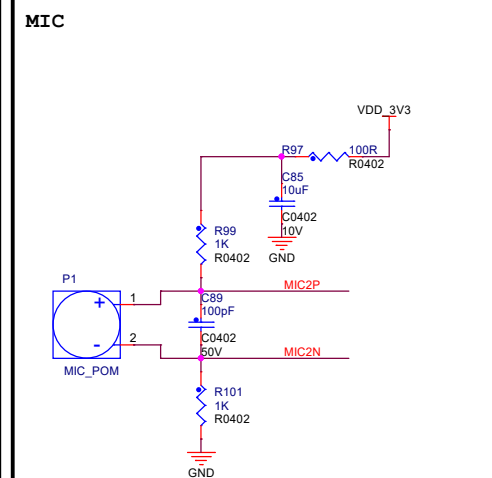
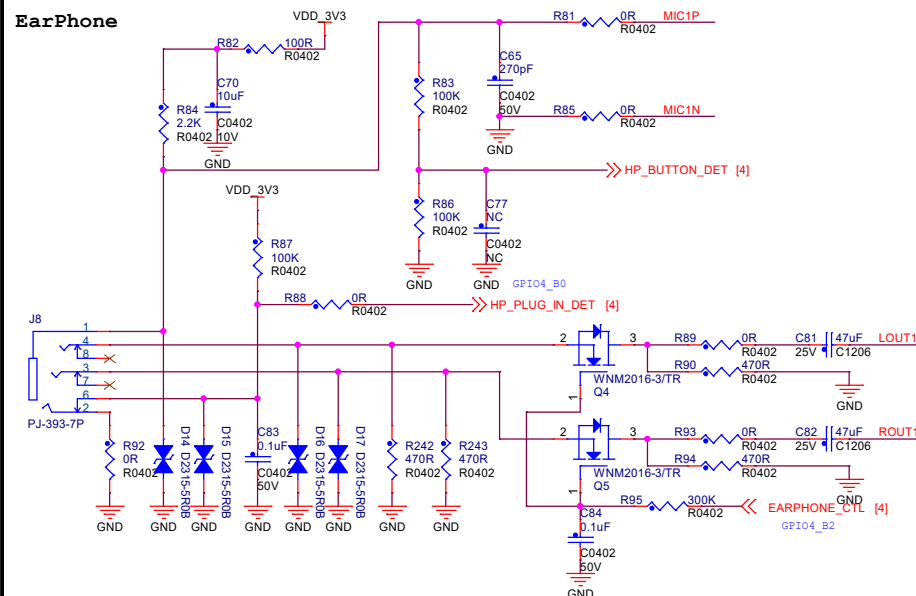
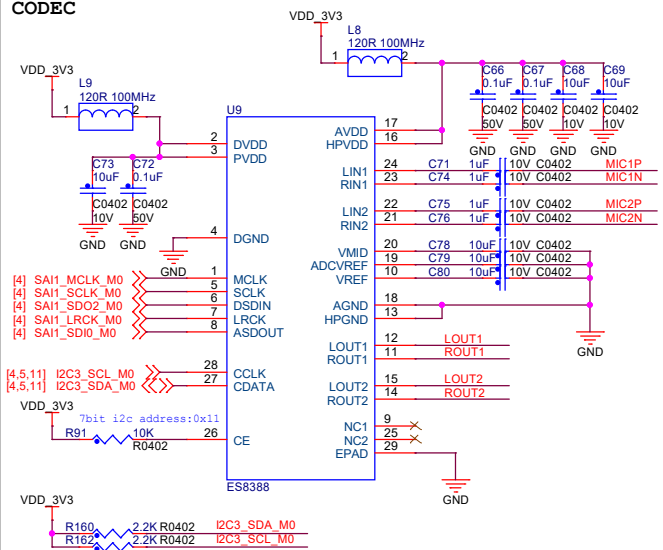
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A4

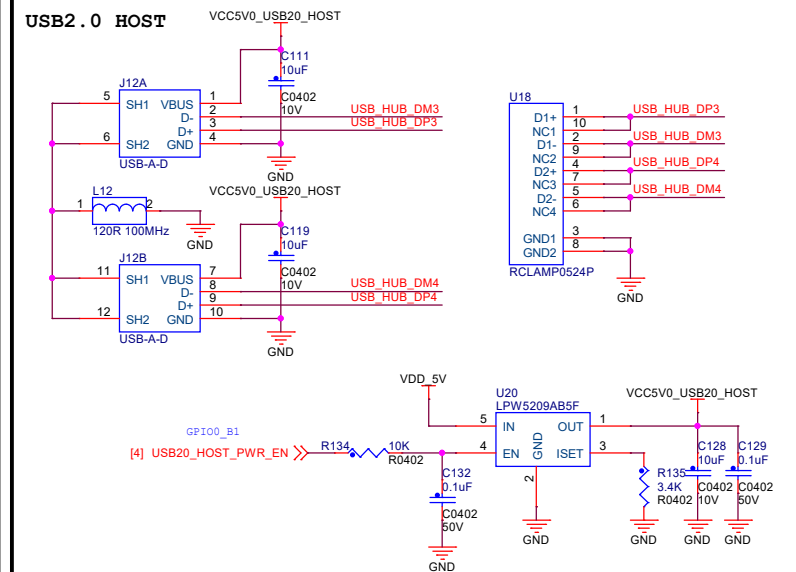
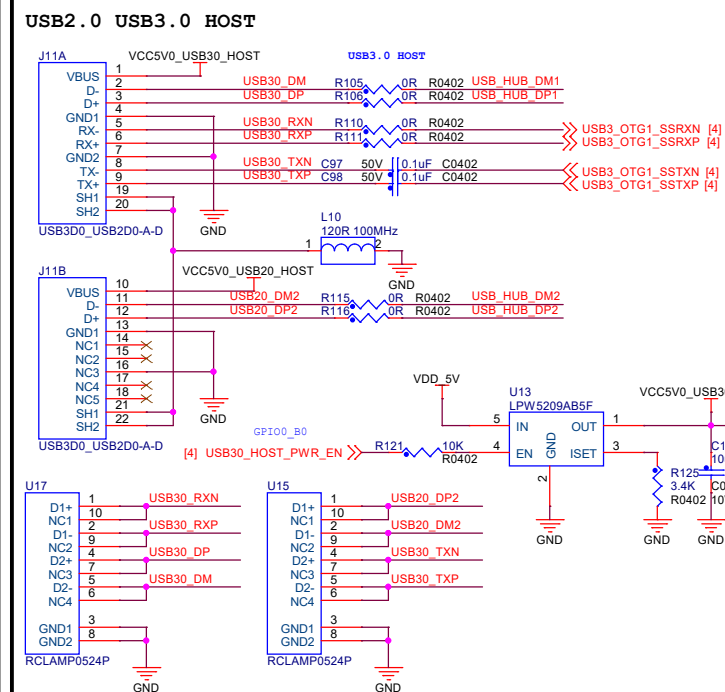
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ETH1

Rev
V0.1

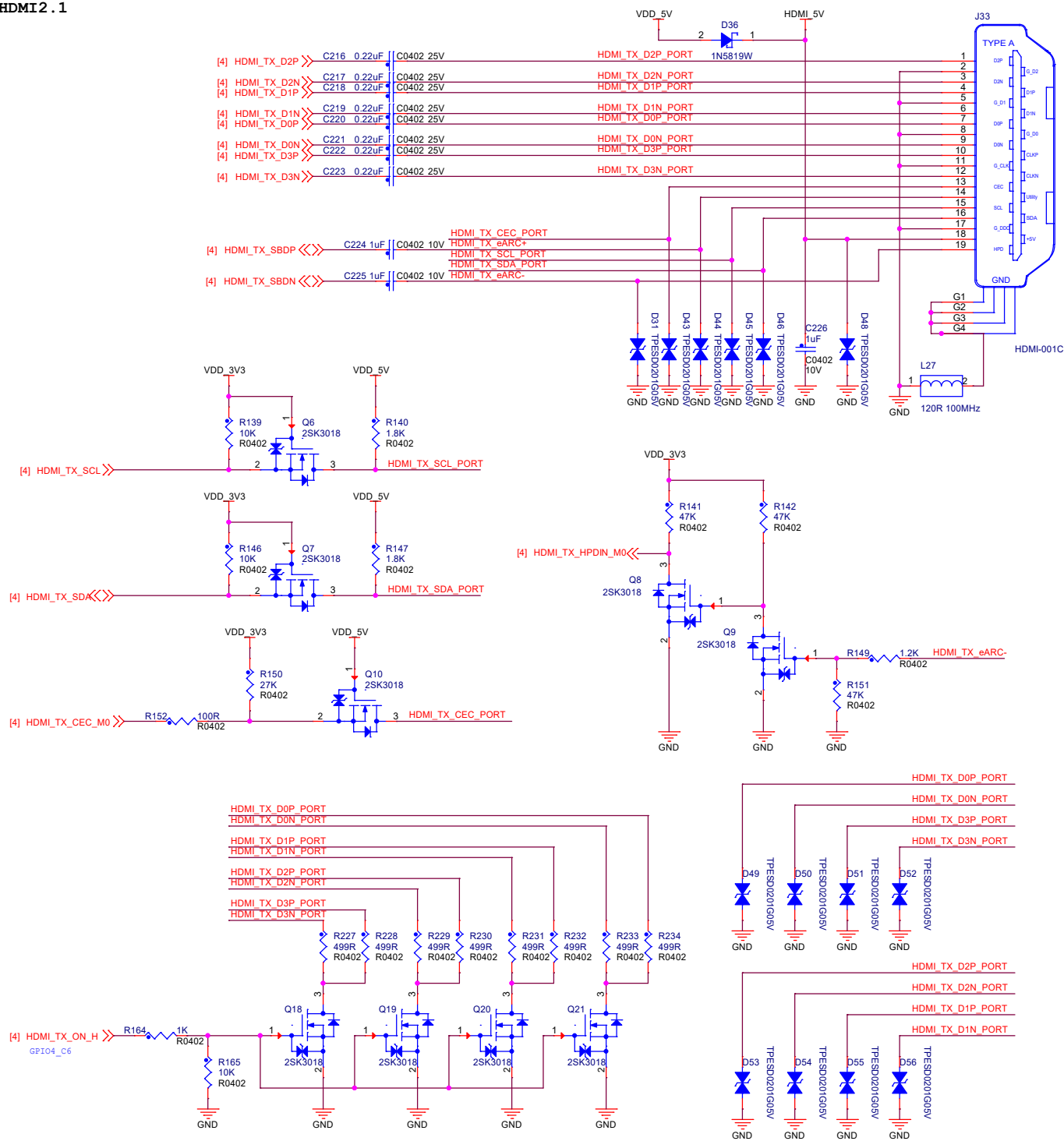
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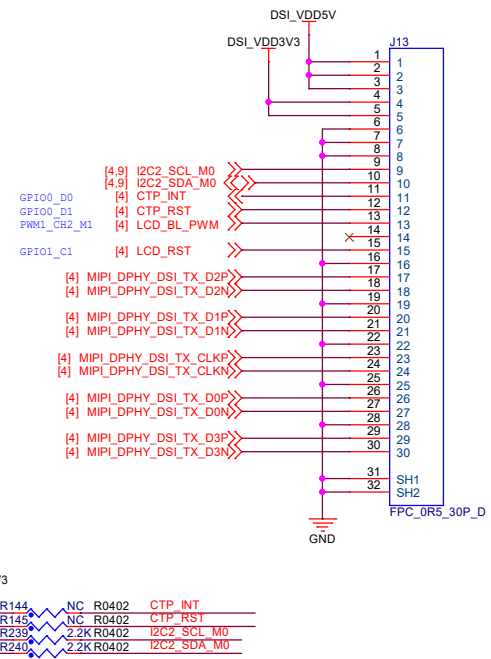




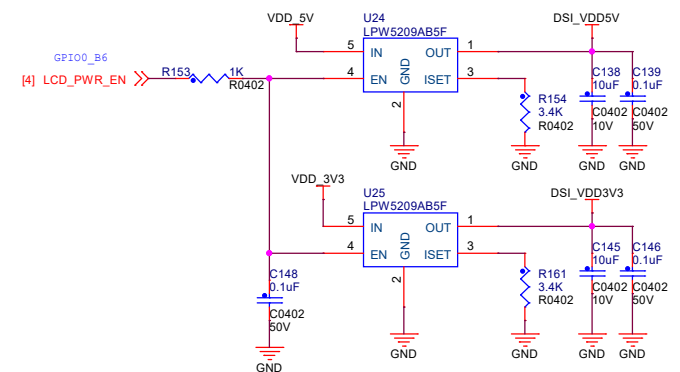
HDMI 2.1



DSI PORT

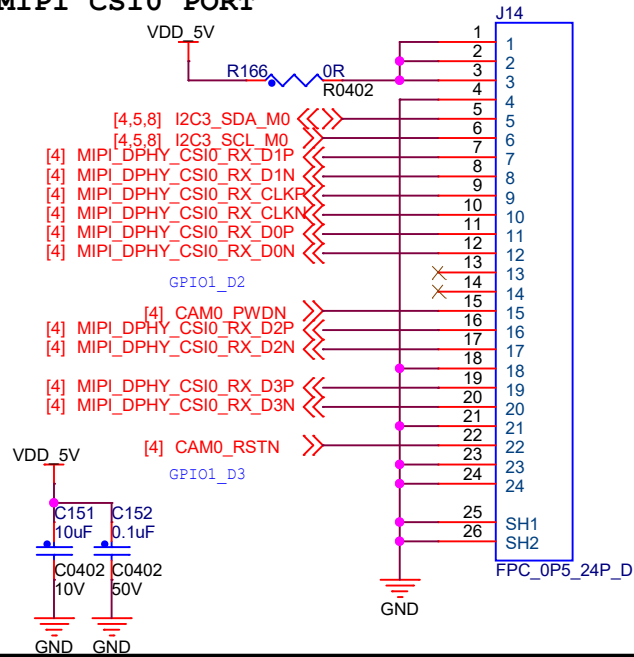


DSI PWR

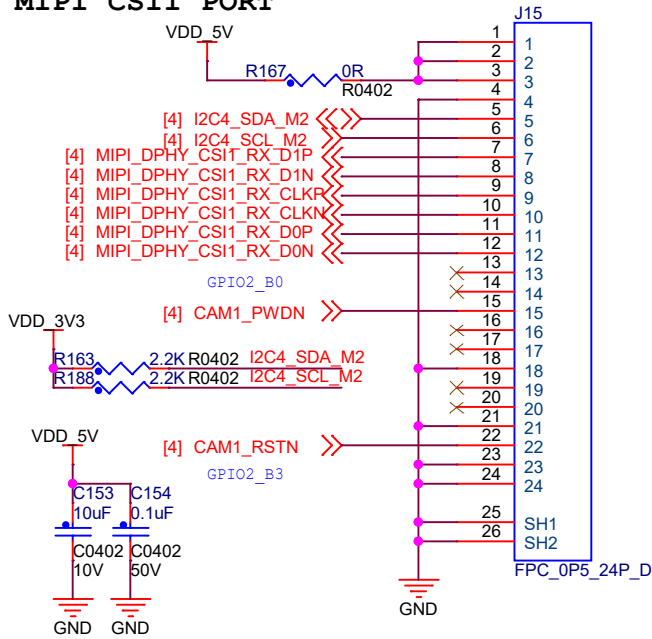


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Size A3	Document Number HDM12.1/DSI PORT		Rev V0.1
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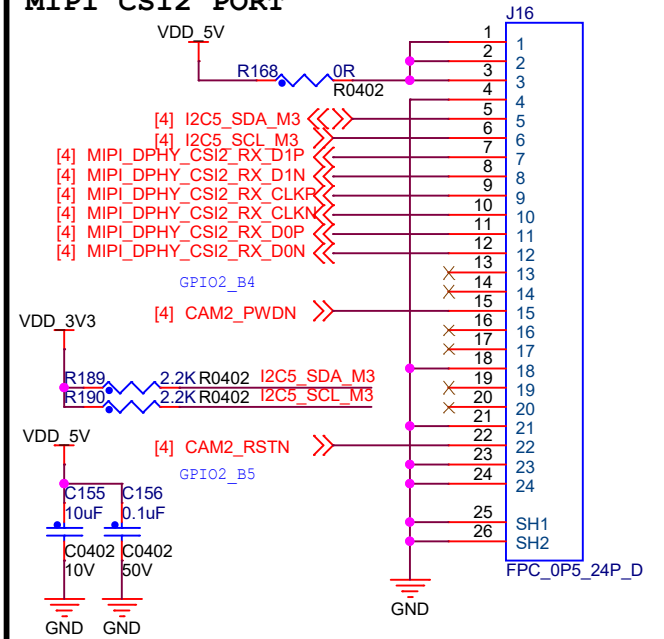
MIPI CSI0 PORT



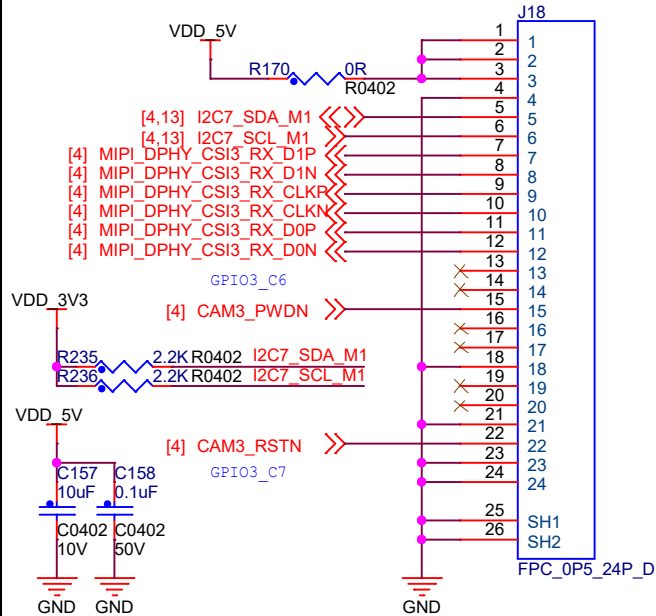
MIPI CSI1 PORT



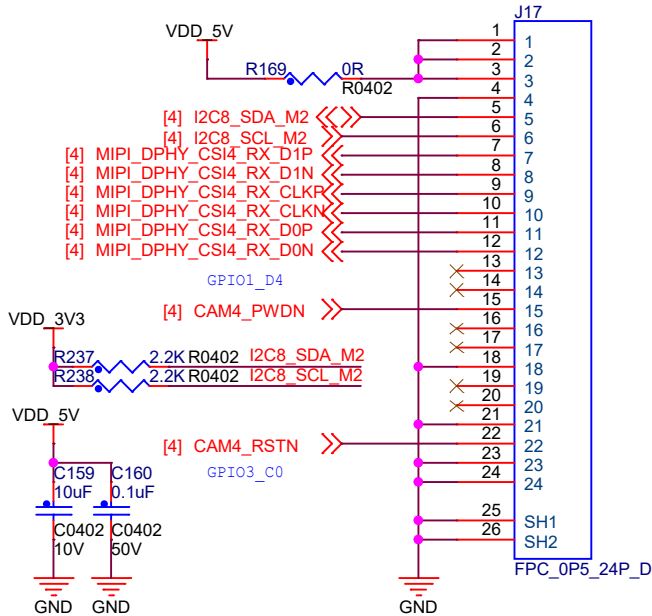
MIPI CSI2 PORT



MIPI CSI3 PORT



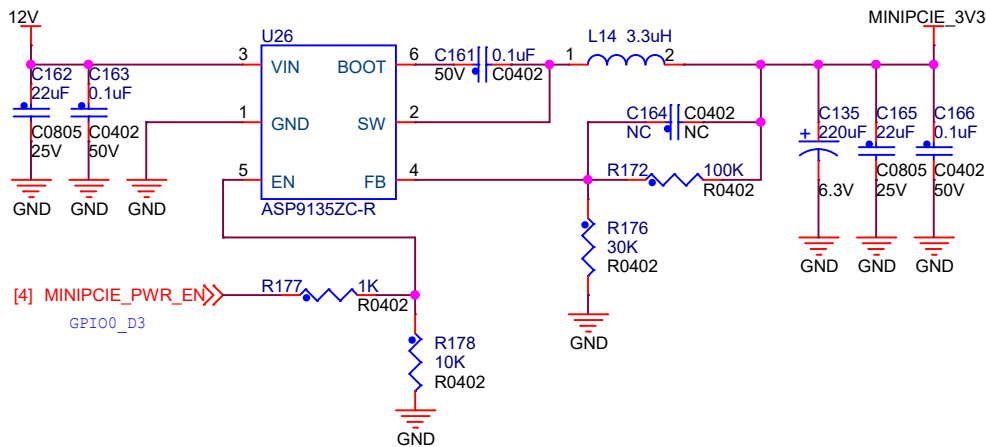
MIPI CSI4 PORT



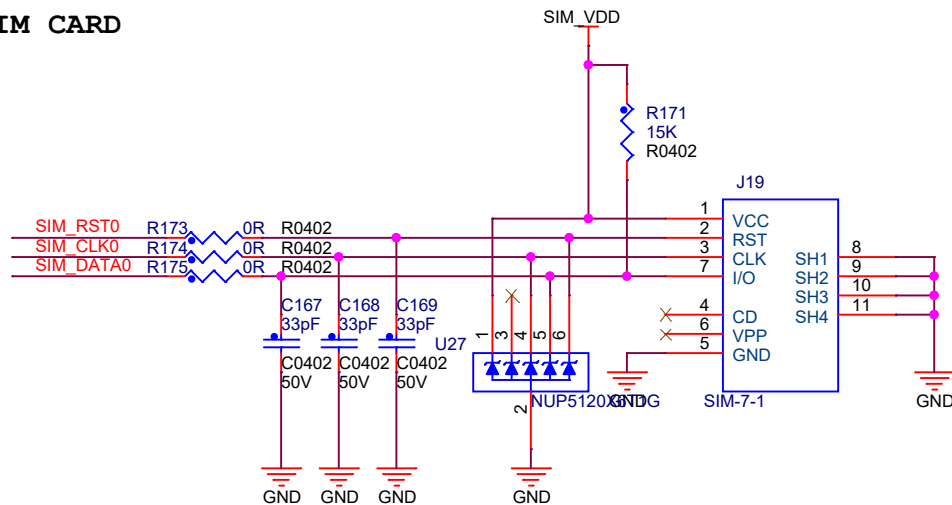
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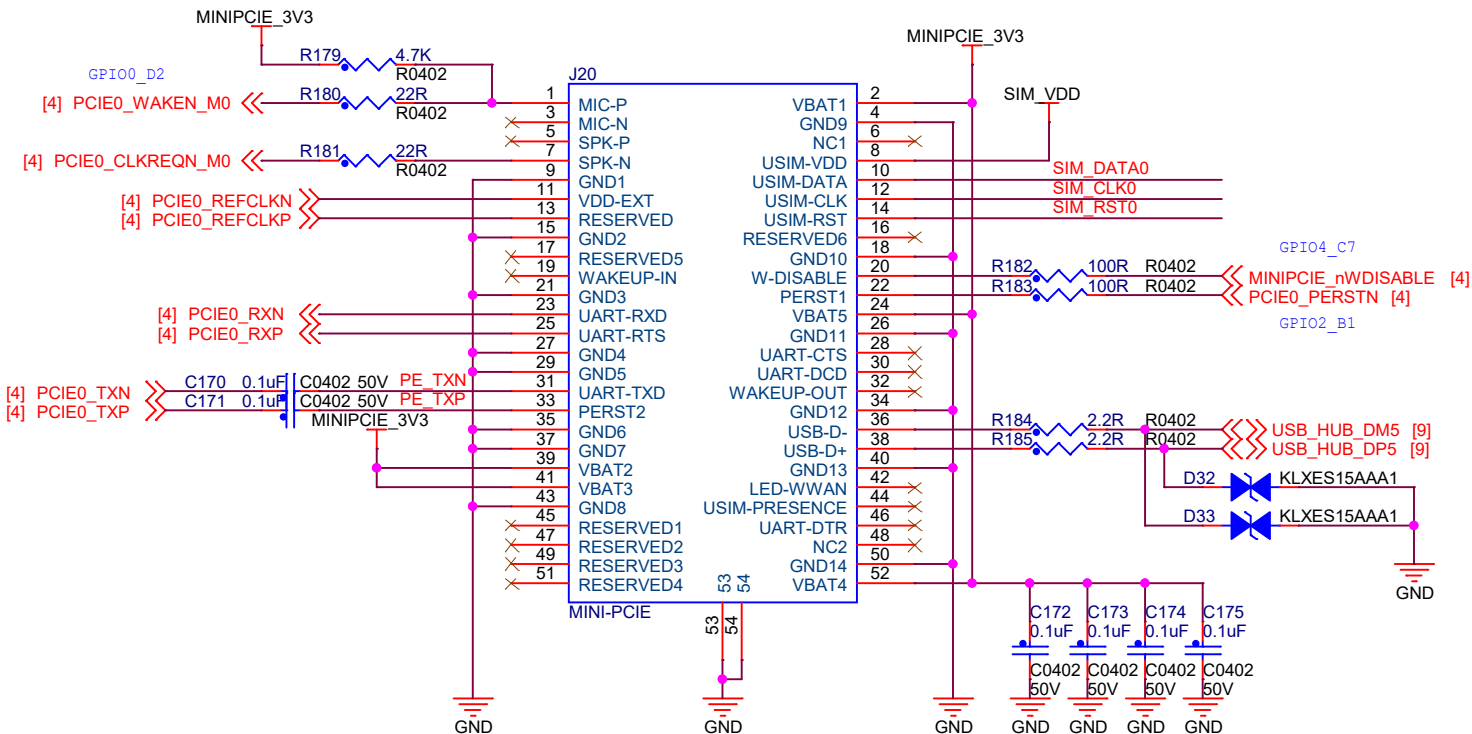
MINI PCIE PWR



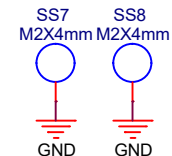
SIM CARD



MINI PCIE



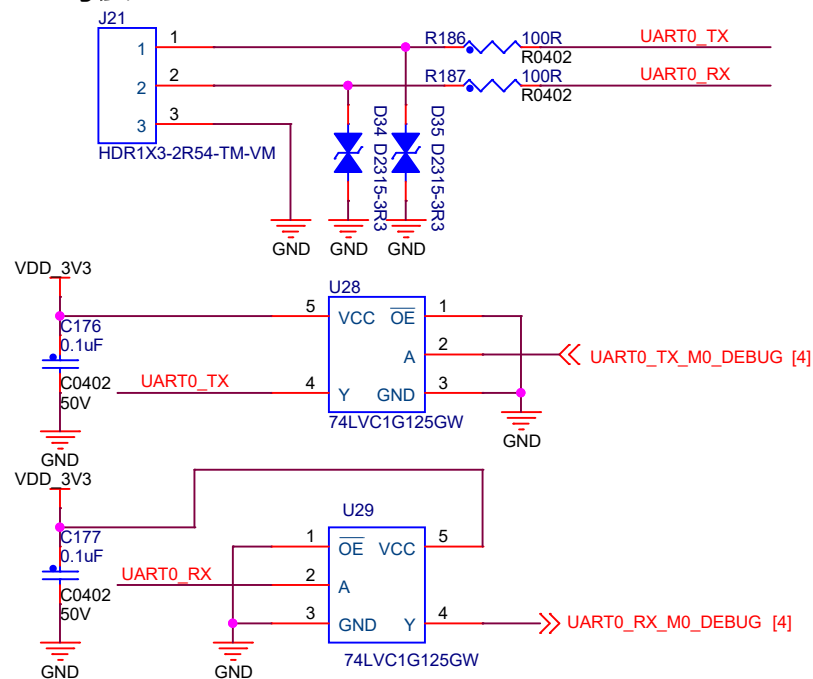
贴片螺母



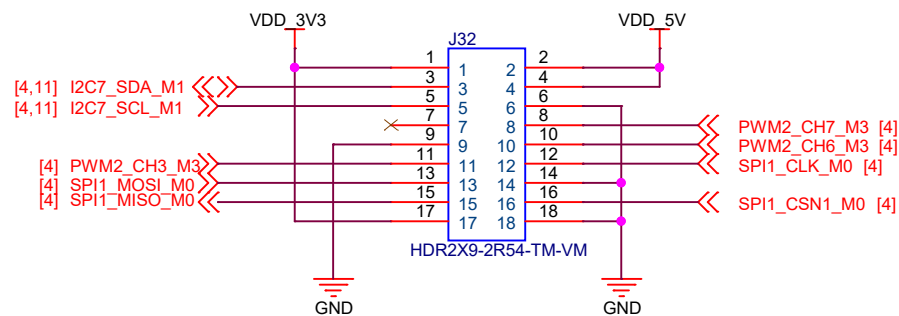
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鲁班猫3金手指底板 (LubanCat 3_IOF) RK3576		
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Debug接口



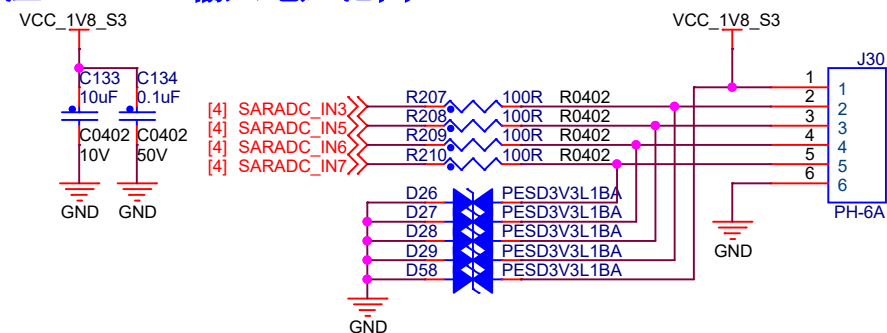
IO 引出



注：1.GPIO0_C1、GPIO0_C2、GPIO0_C3、
GPIO0_C5、GPIO0_C6支持唤醒
2.所有引出的GPIO只兼容3.3V

SARADC

注：SARADC输入电压范围：0~1.8V



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Size
A4

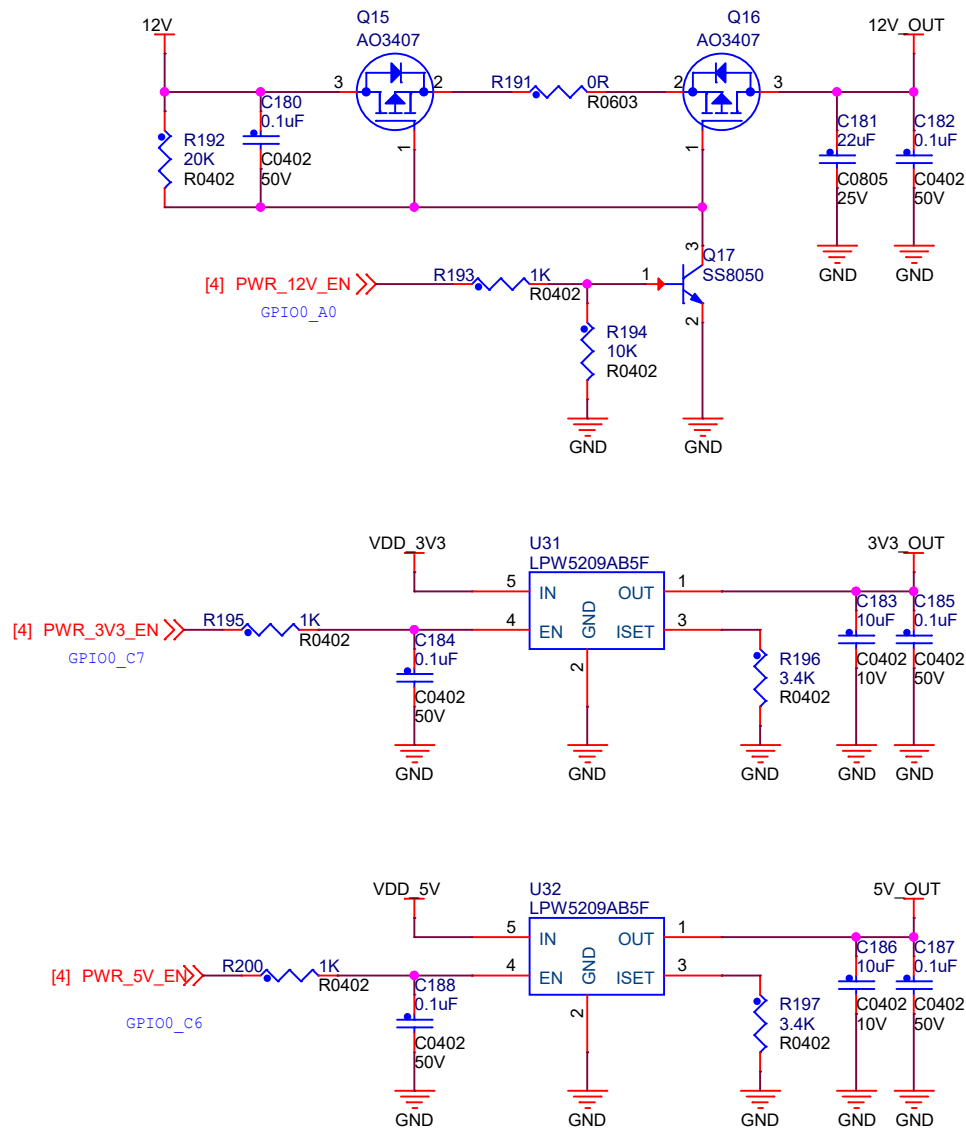
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DEBUG/IO引出/SARADC

Rev
V0.1

Date: Thursday, June 25, 2026

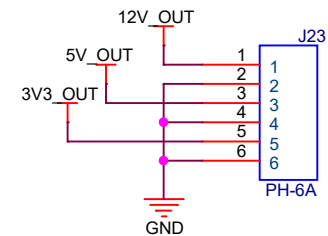
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Power OutPut SW



Power Output

OCP: 3.3V 2A
OCP: 5V 2A



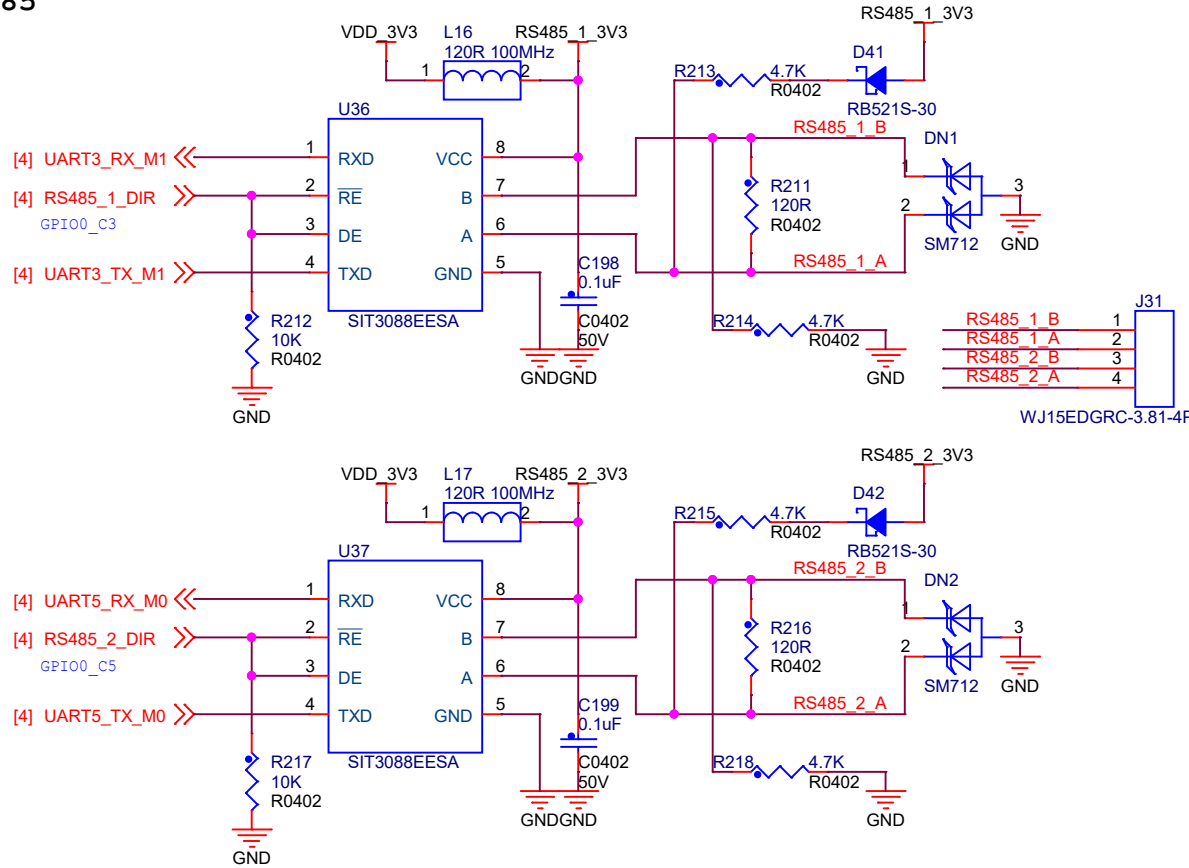
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Title
鲁班猫3金手指底板 (LubanCat 3_IOF) RK3576

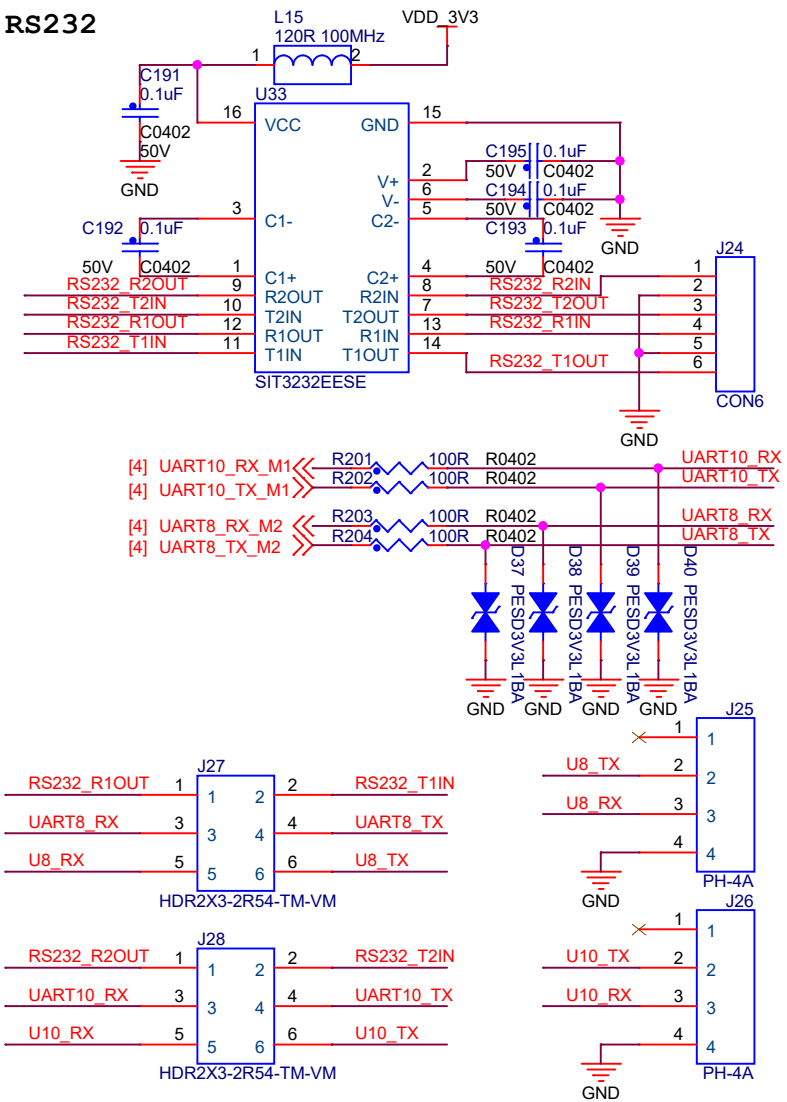
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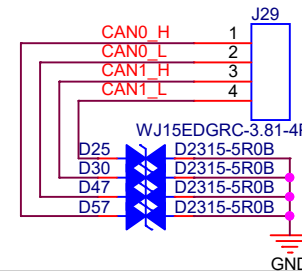
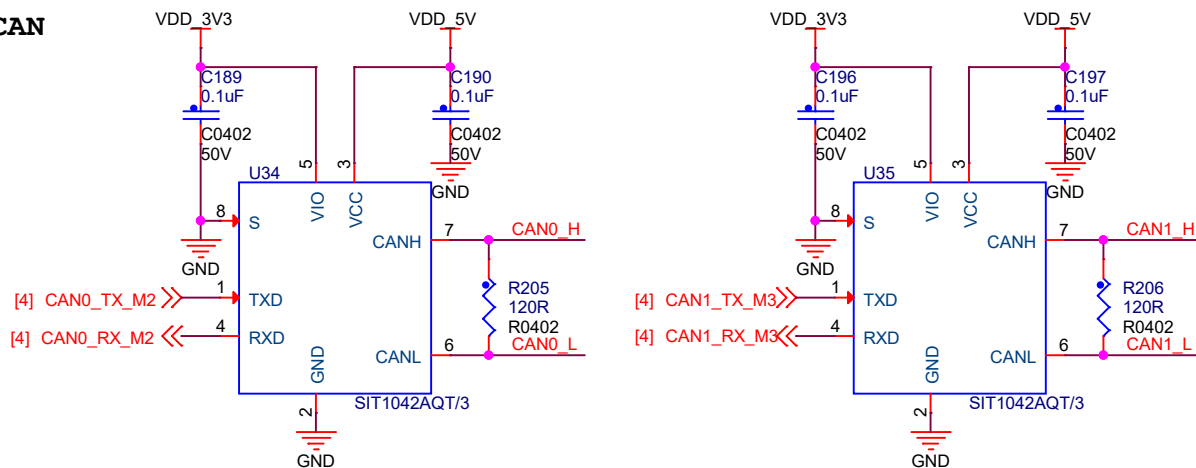
RS485



RS232



CAN



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