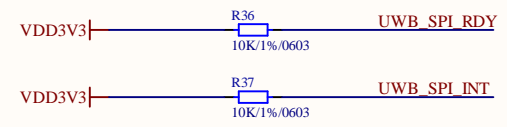
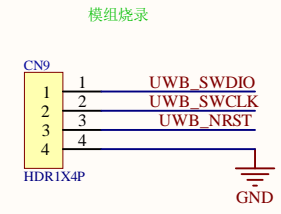
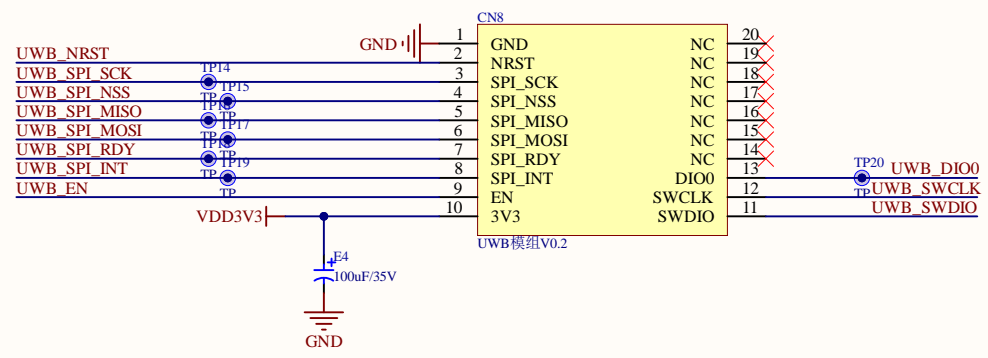
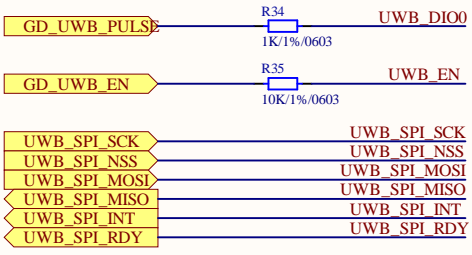
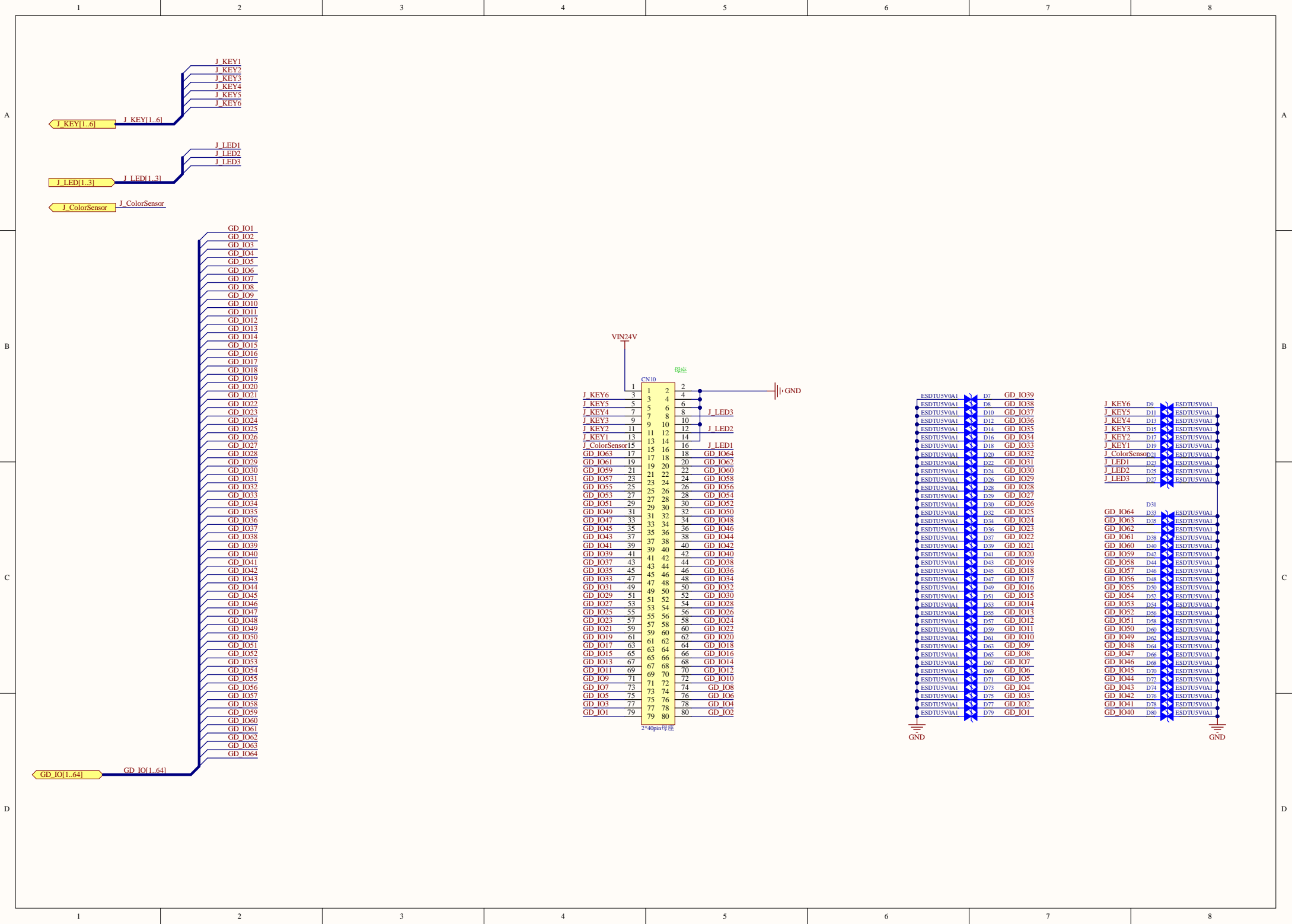


Revision History

Rev.code	Date	Description
V2.6	2024.10	GD32主控，UWB无线通信，全IO检测，初版
V2.61	2025.03	<p>供电模块</p> <p>1、增加测试点</p> <p>2、更换24V输入的ESD，VBR：31.1~34.4V</p> <p>3、对调电源插座24+与24-位置，与卡丁IO板电源插座、开关电源接口一致</p> <p>4、更换DC-DC电感型号，调整RFS阻值</p> <p>5、修正充电IC的REGN网络的错误</p> <p>6、更换供电切换电路的二极管为常用料LIN4148WTIG</p> <p>7、电池插座更换为直插式2.50mm间距白座，与现有的电池接头匹配</p> <p>8、增大指示灯限流电阻，降低亮度</p> <p>9、电池电压检测的ADC输入前端添加100nF滤波电容</p> <p>10、LAYOUT中滑动开关添加"ON"、"OFF"丝印</p> <p>11、LAYOUT中电源插座往板内移</p> <p>MCU</p> <p>1、预留调试串口UART0、预留I2C</p> <p>2、VBAT接VDD3V3，PDR_ON通过10K电阻上拉至VDD3V3</p> <p>3、BOOT0、BOOT1可配置</p> <p>4、更正UART编号，与芯片手册一致</p> <p>UWB模组</p> <p>1、优化UWB模组器件封装</p> <p>2、模组供电引脚接100uF电解电容</p> <p>接口板</p> <p>1、增加两路IO检测，共64路检测</p> <p>2、更改1*2P端子座正负，与现有线材保持一致</p> <p>3、LAYOUT中调整定位孔位置</p> <p>4、LAYOUT中调整端子座位置</p> <p>5、2*40Pin公座物料针脚需适当加粗或加长</p> <p>6、LAYOUT中2*40Pin公座位置调整，结构上解决防反插问题</p> <p>7、LAYOUT中接口板与主控板中间放置支撑条</p> <p>电磁阀驱动板</p> <p>1、调整限流电阻阻值，减少物料</p> <p>2、更改1*2P端子座正负，与现有线材保持一致</p> <p>3、增加测试点</p> <p>RS232/RS485</p> <p>1、更正RS232芯片GND引脚未接地的错误</p> <p>2、增加测试点</p> <p>3、RS485终端匹配电阻空贴</p> <p>外部设备控制</p> <p>1、增加测试点、ESD防护器件</p>







A

B

C

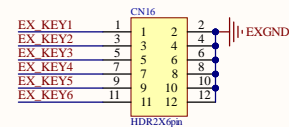
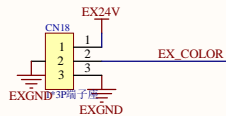
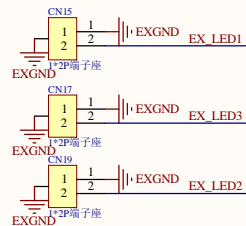
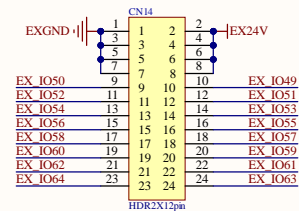
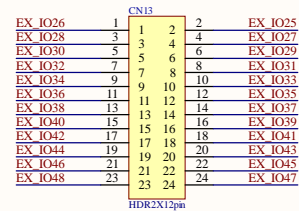
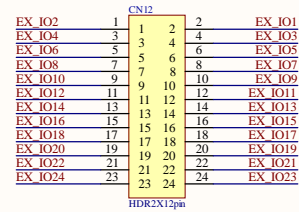
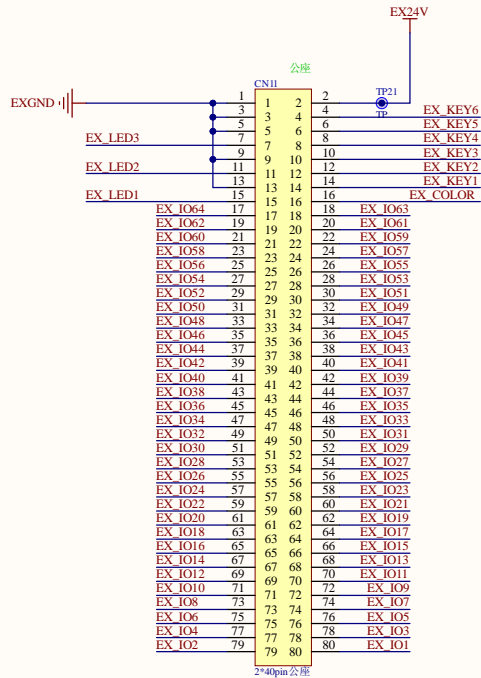
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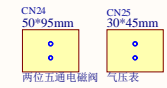
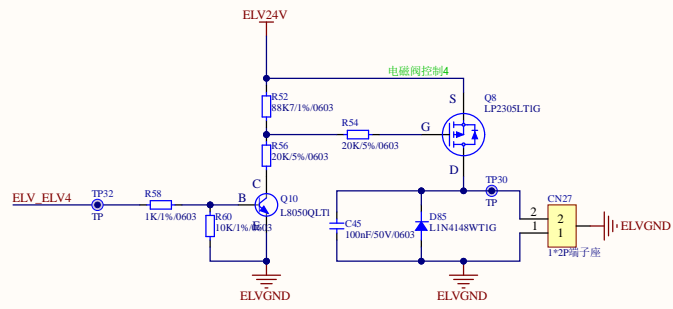
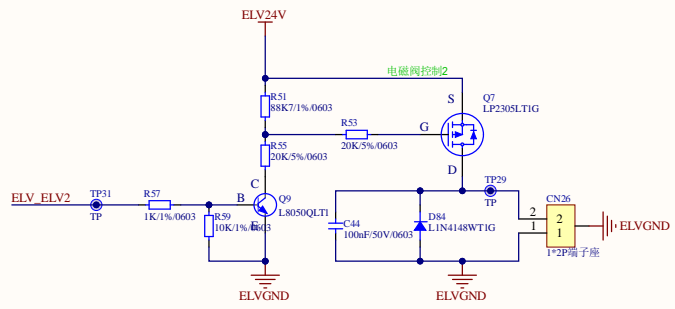
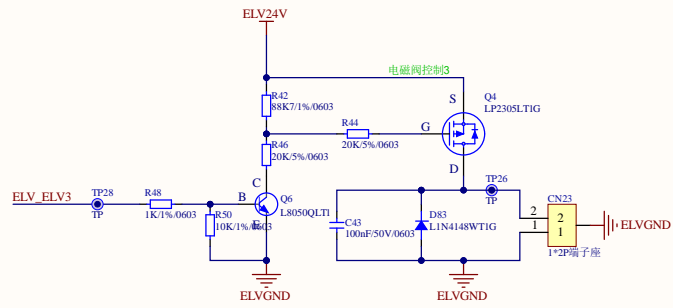
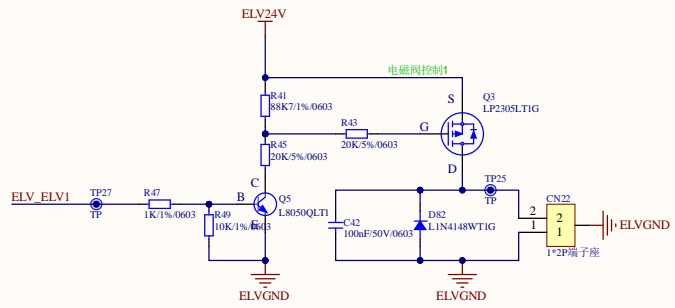
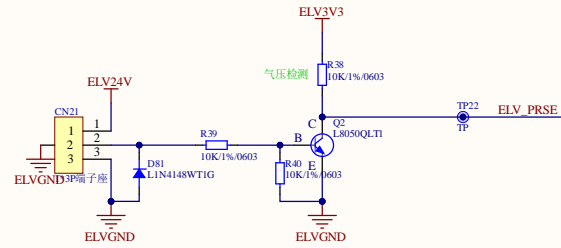
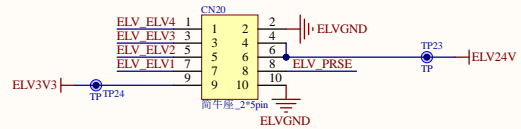
A

B

C

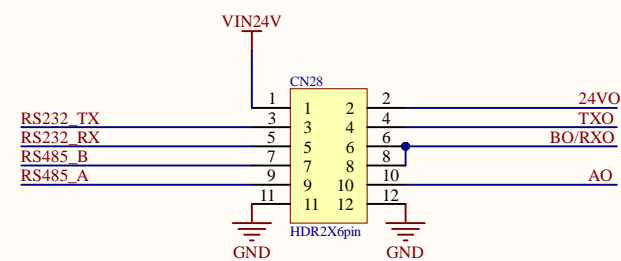
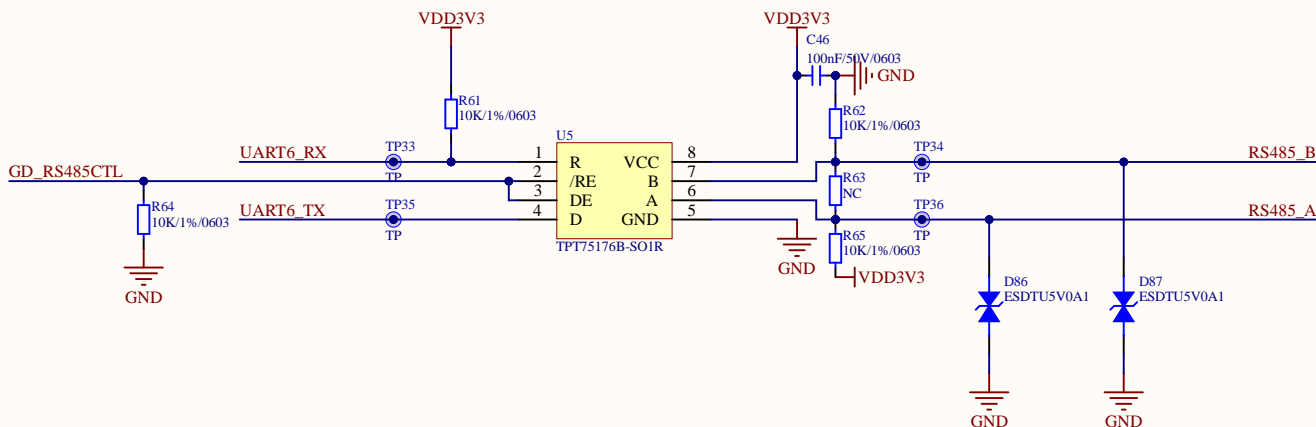
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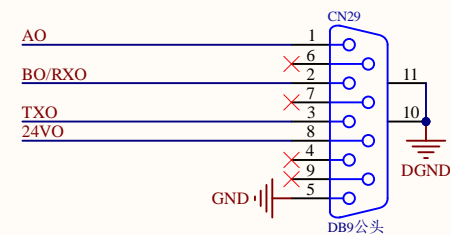
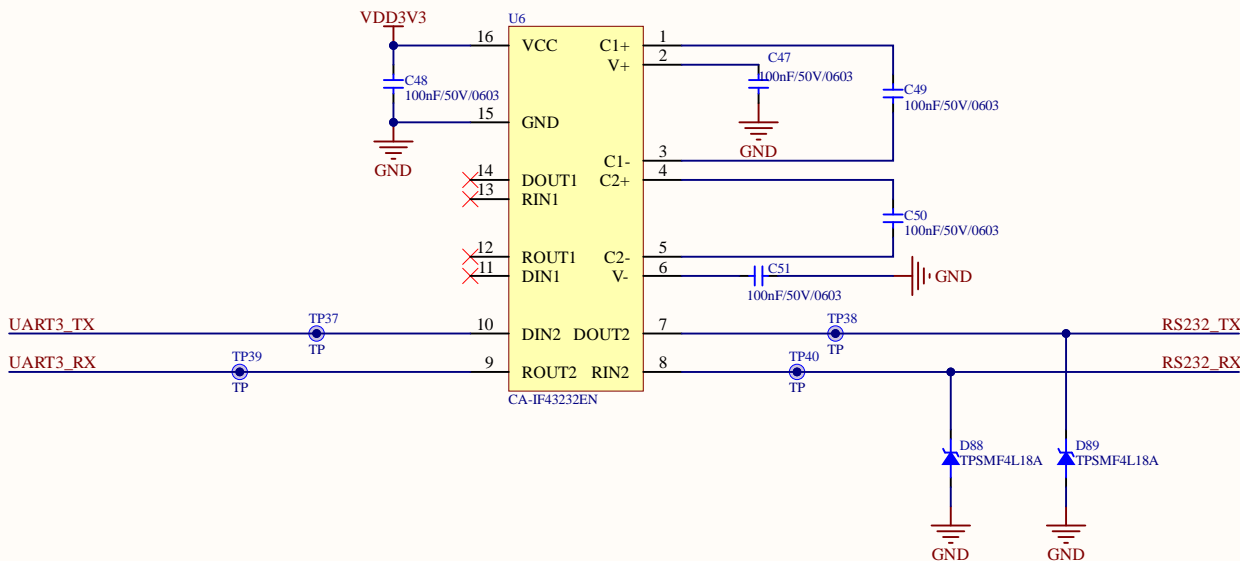


GD_RS485CTL
UART6_RX
UART6_TX

UART3_TX
UART3_RX



RS232通信: 短接3,4与5,6
RS485通信: 短接7,8与9,10



1

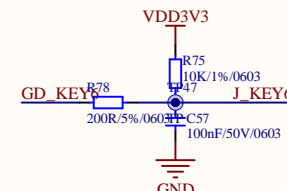
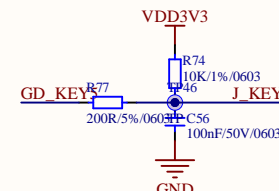
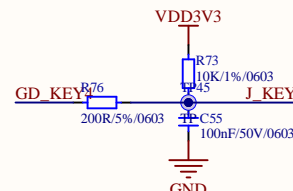
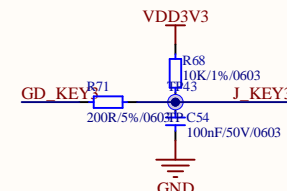
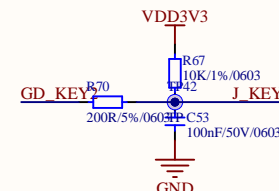
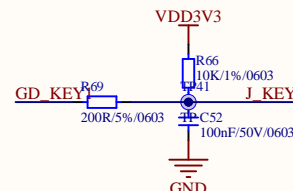
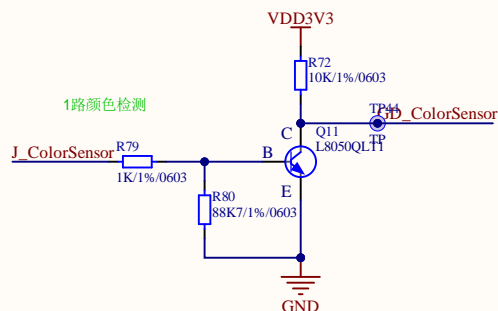
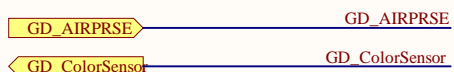
2

3

4

A

A



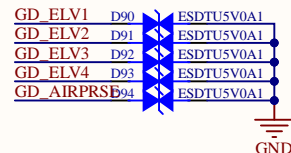
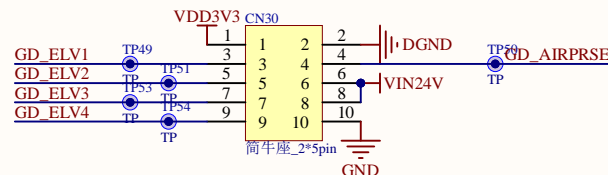
B

B

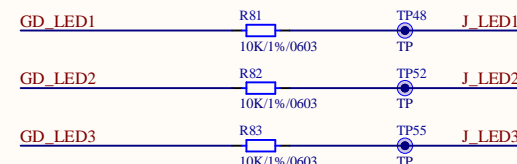


4路电磁阀控制
1路气压检测GD_PRSE

公座



3路LED控制辅助检测



C

C

D

D

1

2

3

4

