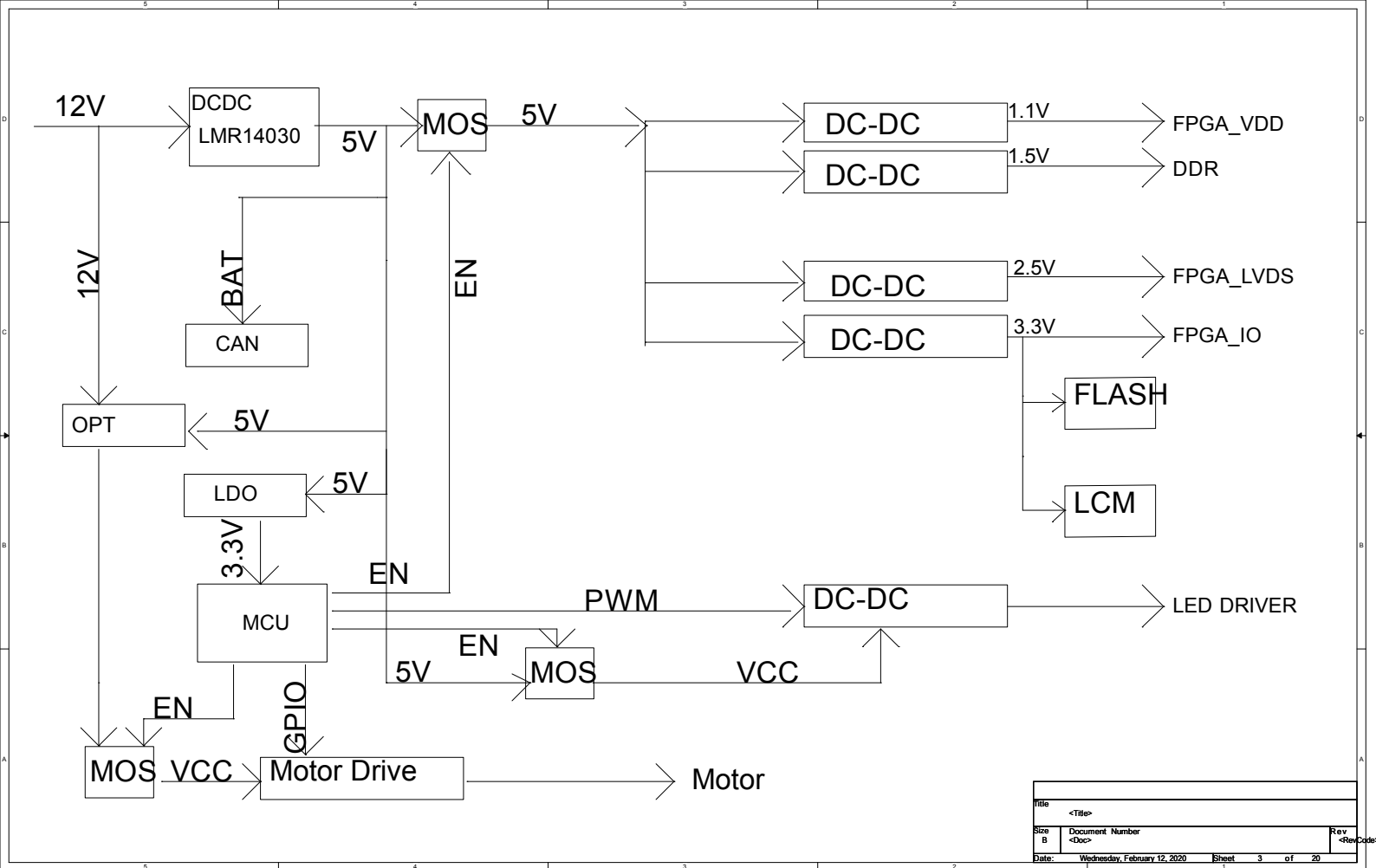
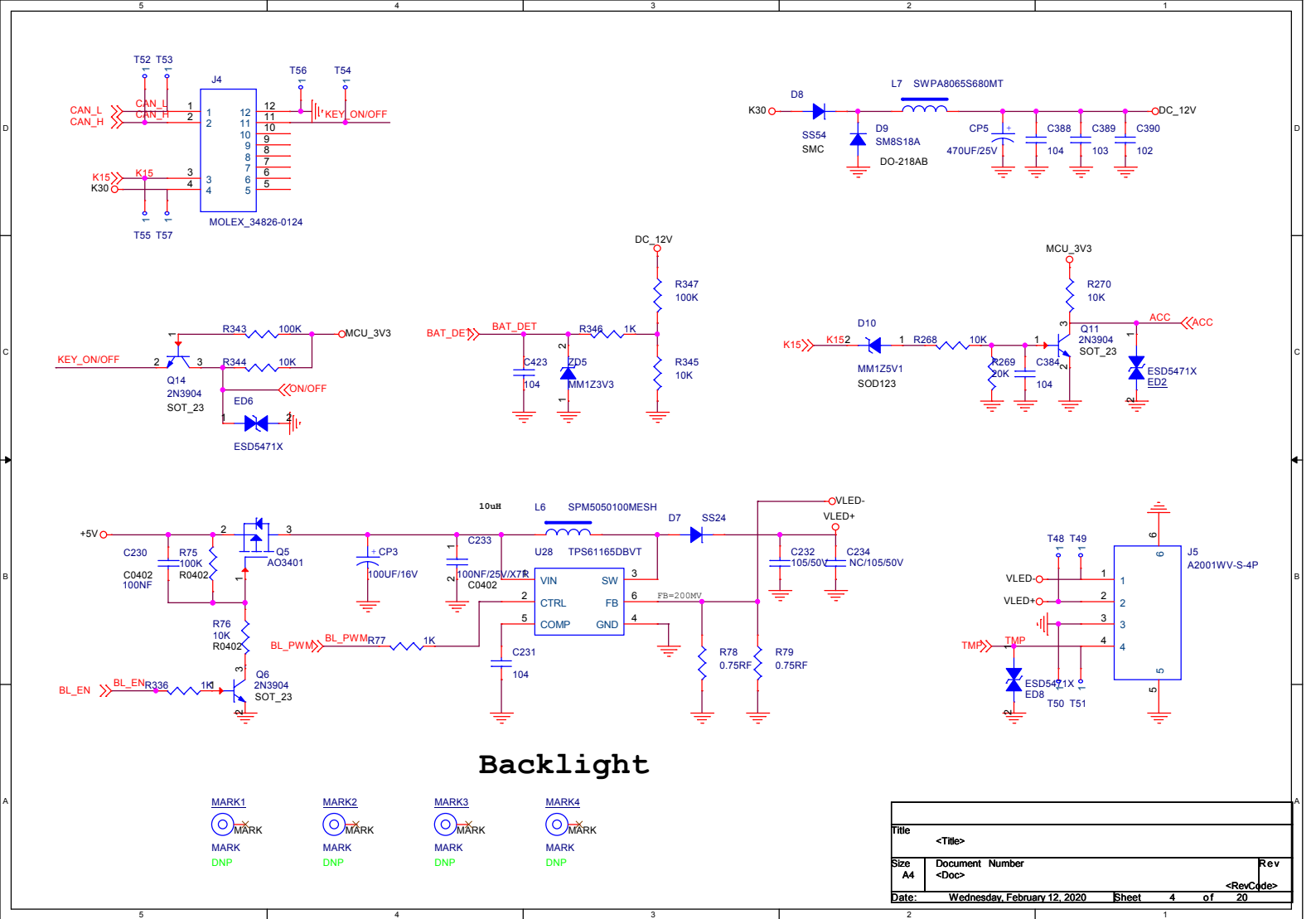


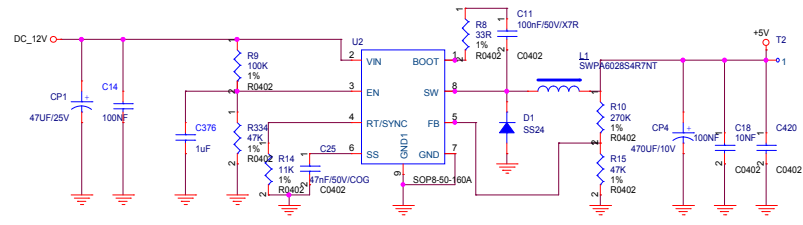
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序号	修改点
1.	新增电压检测
2.	新增 5v 和 12v 的兼容
3.	晶振更换为京瓷车规
4.	预留 Qspi 上拉，硬配置 SPI 初数状态
5.	统一 FPC 连接器为京瓷带卡扣
6.	统一其他连接器为长江连接器
7.	布局更换 MCU 的引脚
8.	布局更换 FPGA 的引脚
9.	LCD 复道能等交给 MCU 控制
10.	更改 4 颗 LED 珠背光驱动输入修改为 5V 限流电阻修改为 0.5R

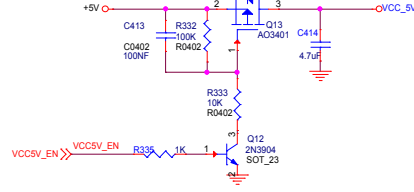
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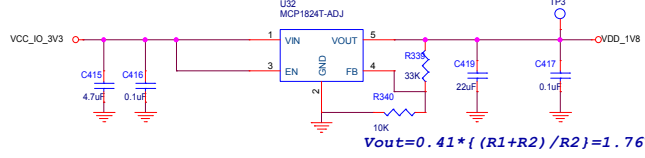




$$R1 = (VOUT - 0.75) / 0.75 * R2$$

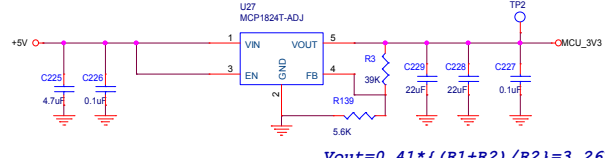


EPSON

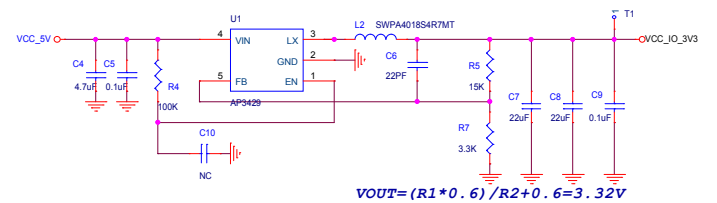


$$Vout = 0.41 * \{ (R1 + R2) / R2 \} = 1.76V$$

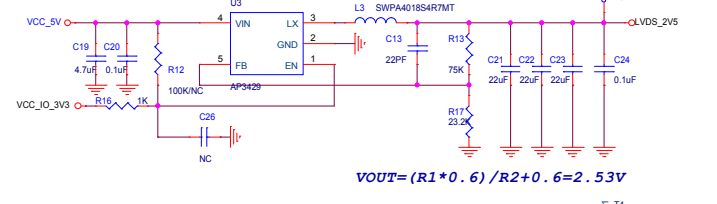
MCU/ CAN



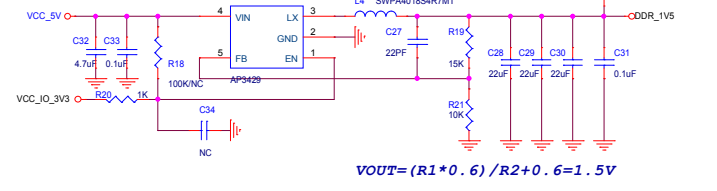
$$Vout = 0.41 * \{ (R1 + R2) / R2 \} = 3.26V$$



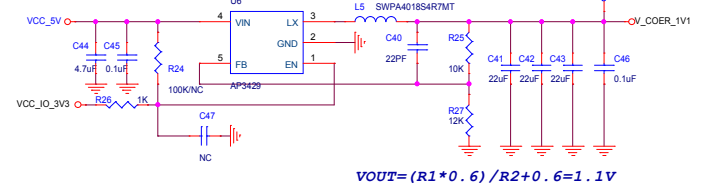
$$VOUT = (R1 * 0.6) / R2 + 0.6 = 3.32V$$



$$VOUT = (R1 * 0.6) / R2 + 0.6 = 2.53V$$

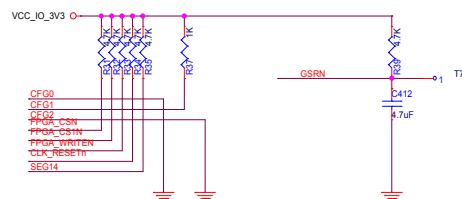
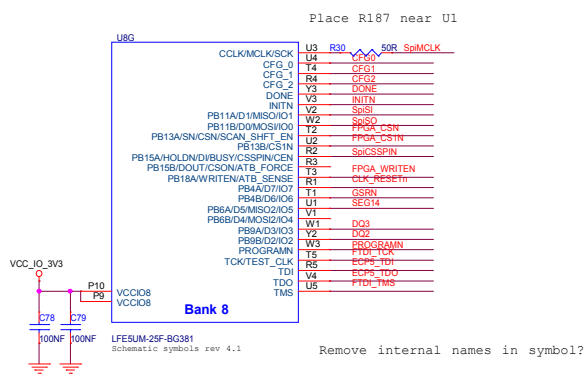


$$VOUT = (R1 * 0.6) / R2 + 0.6 = 1.5V$$

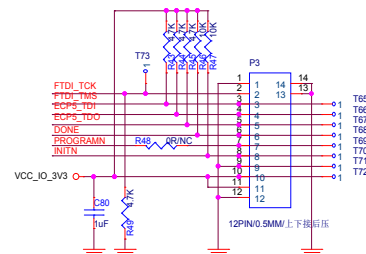
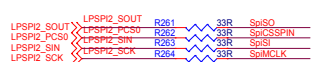


$$VOUT = (R1 * 0.6) / R2 + 0.6 = 1.1V$$

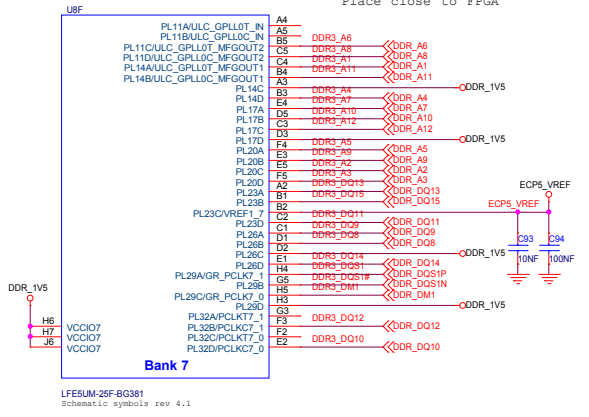
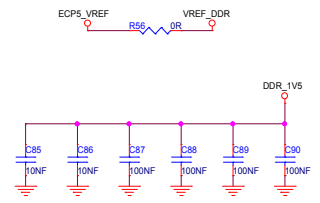
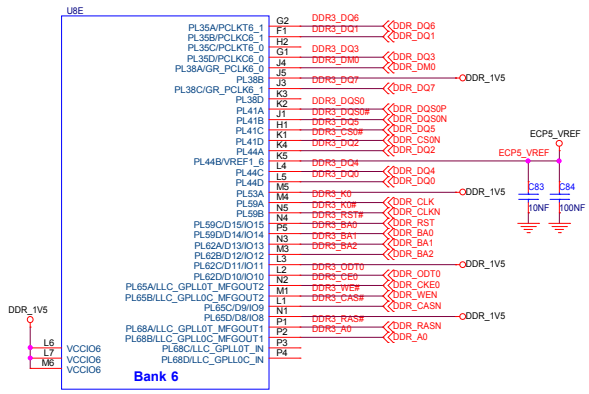
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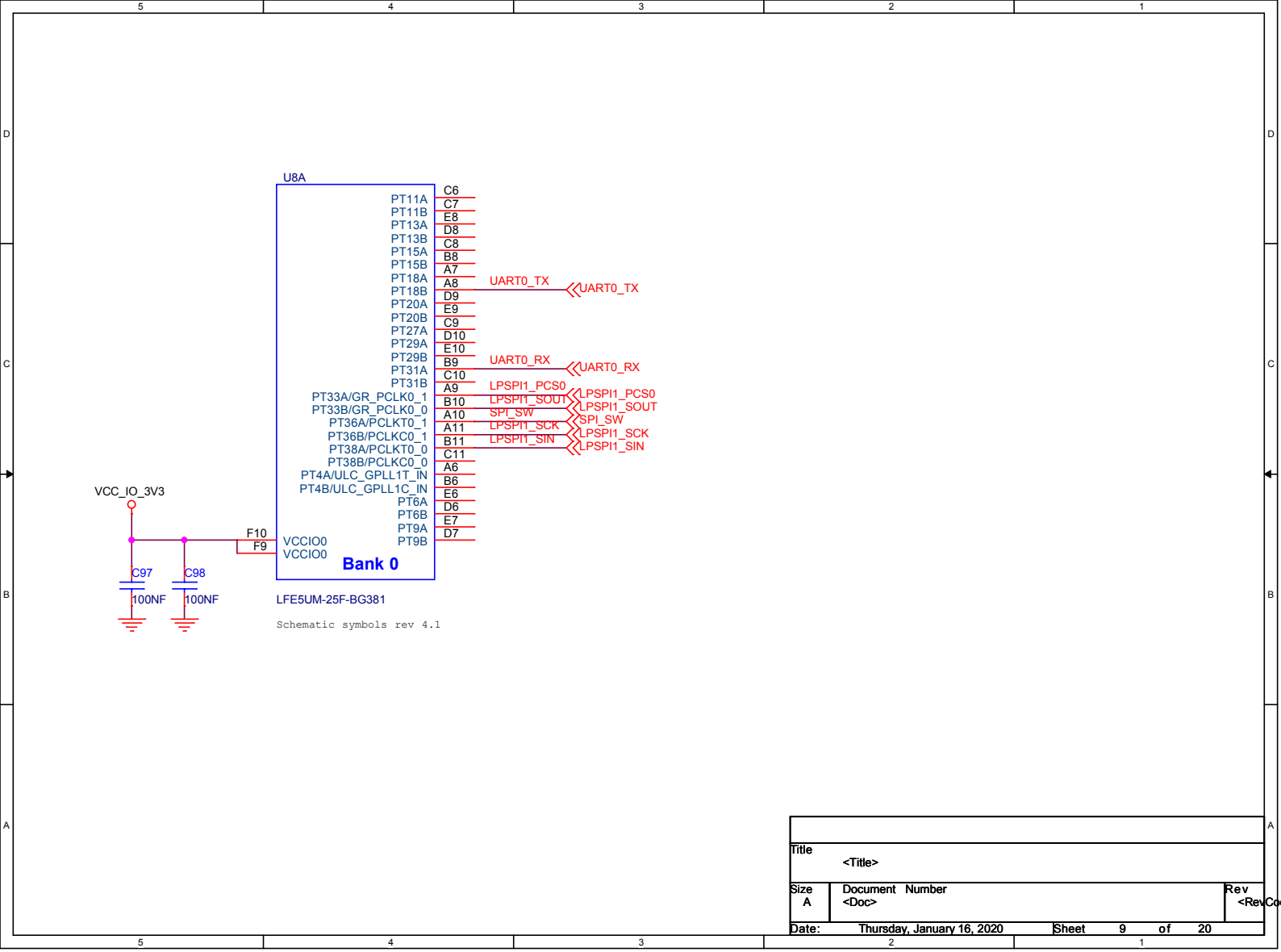


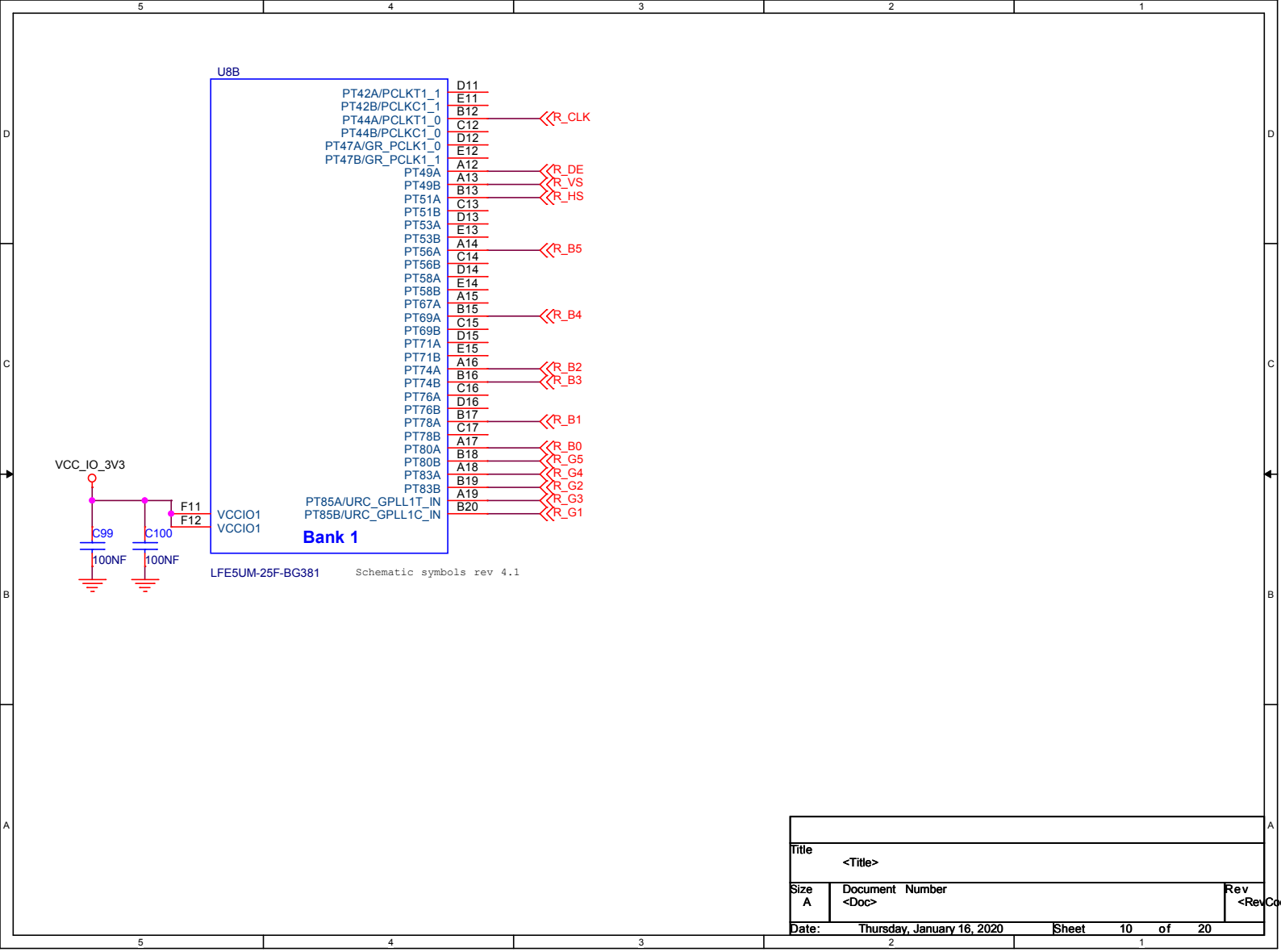
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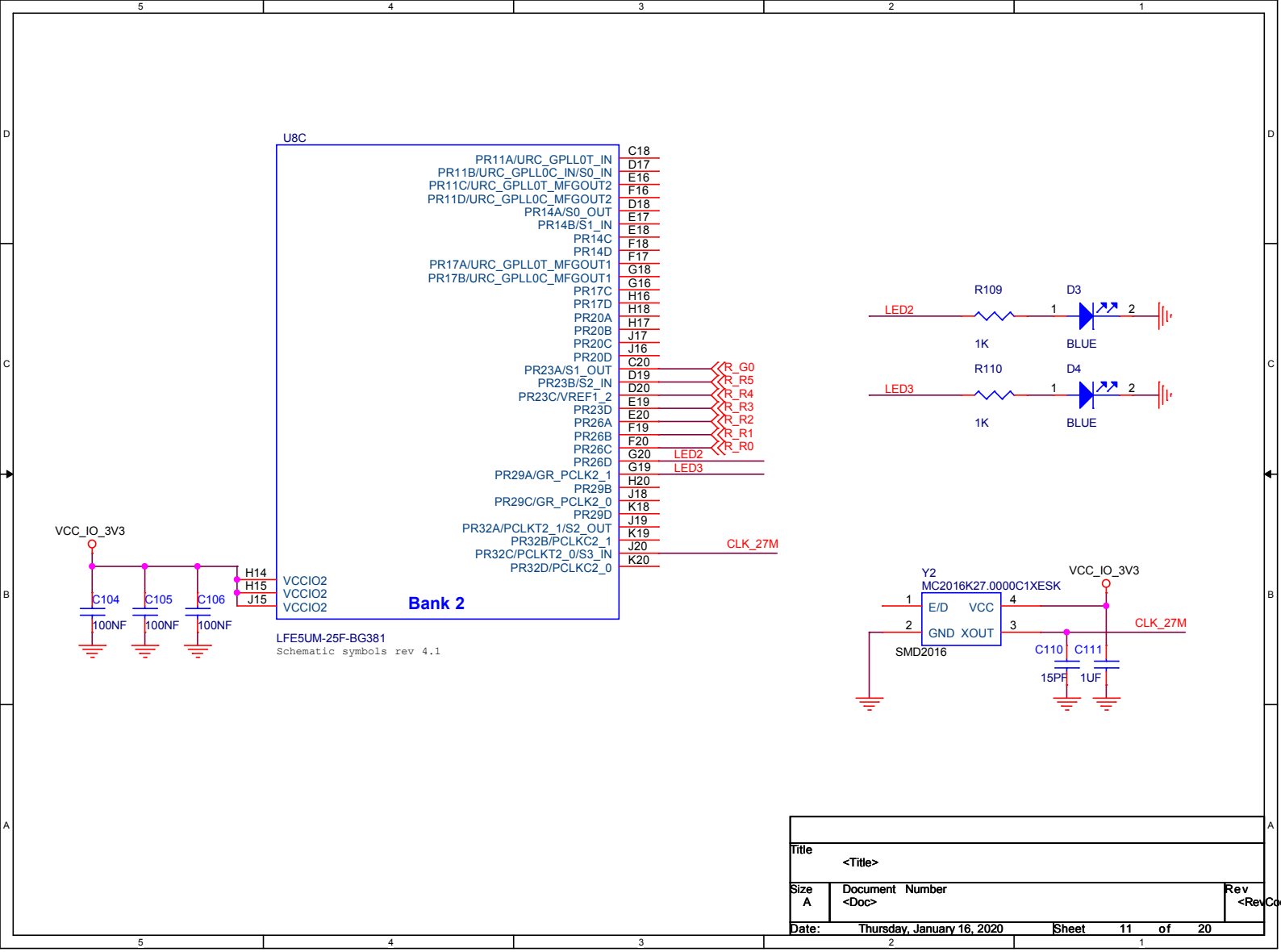


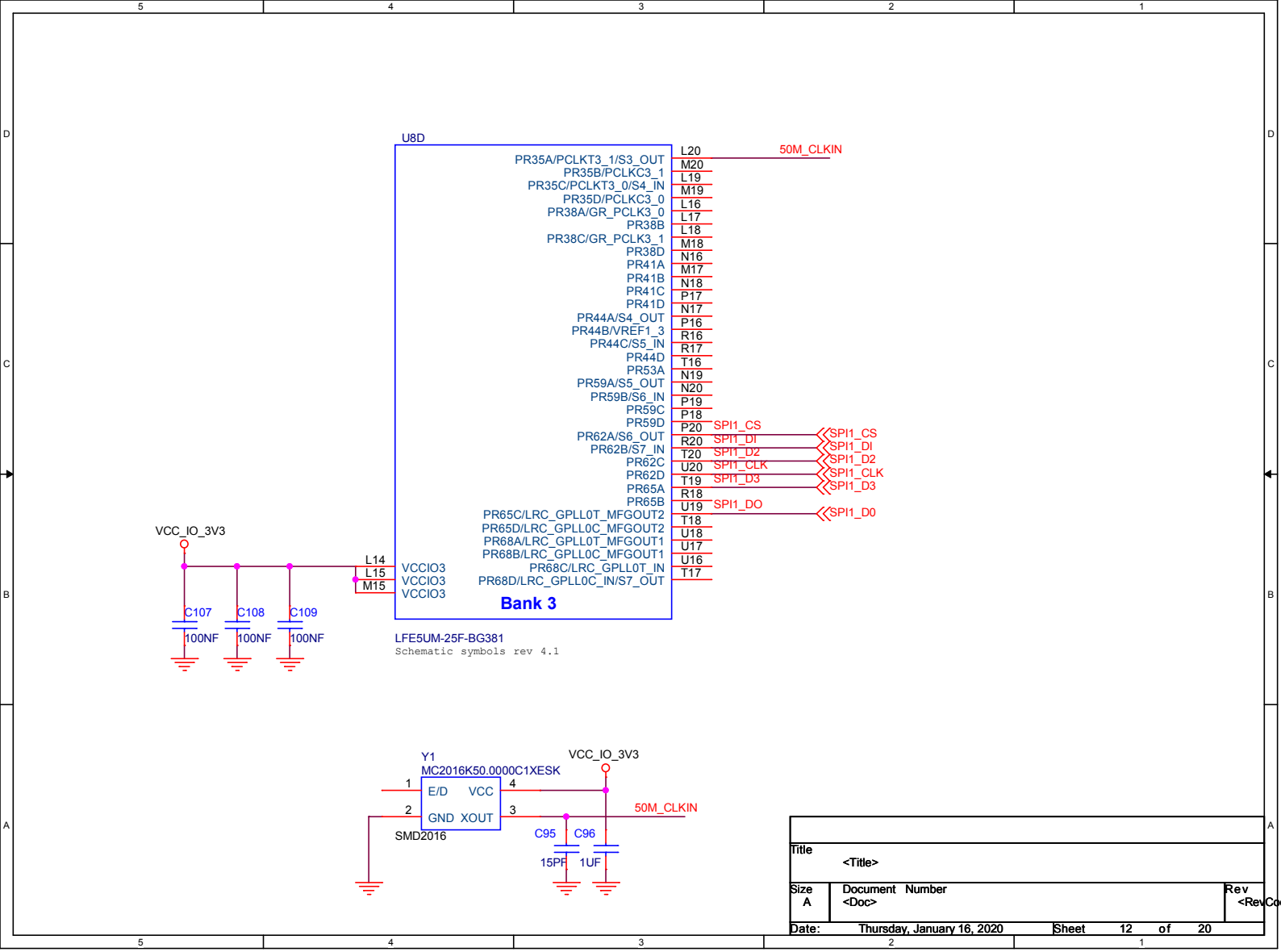
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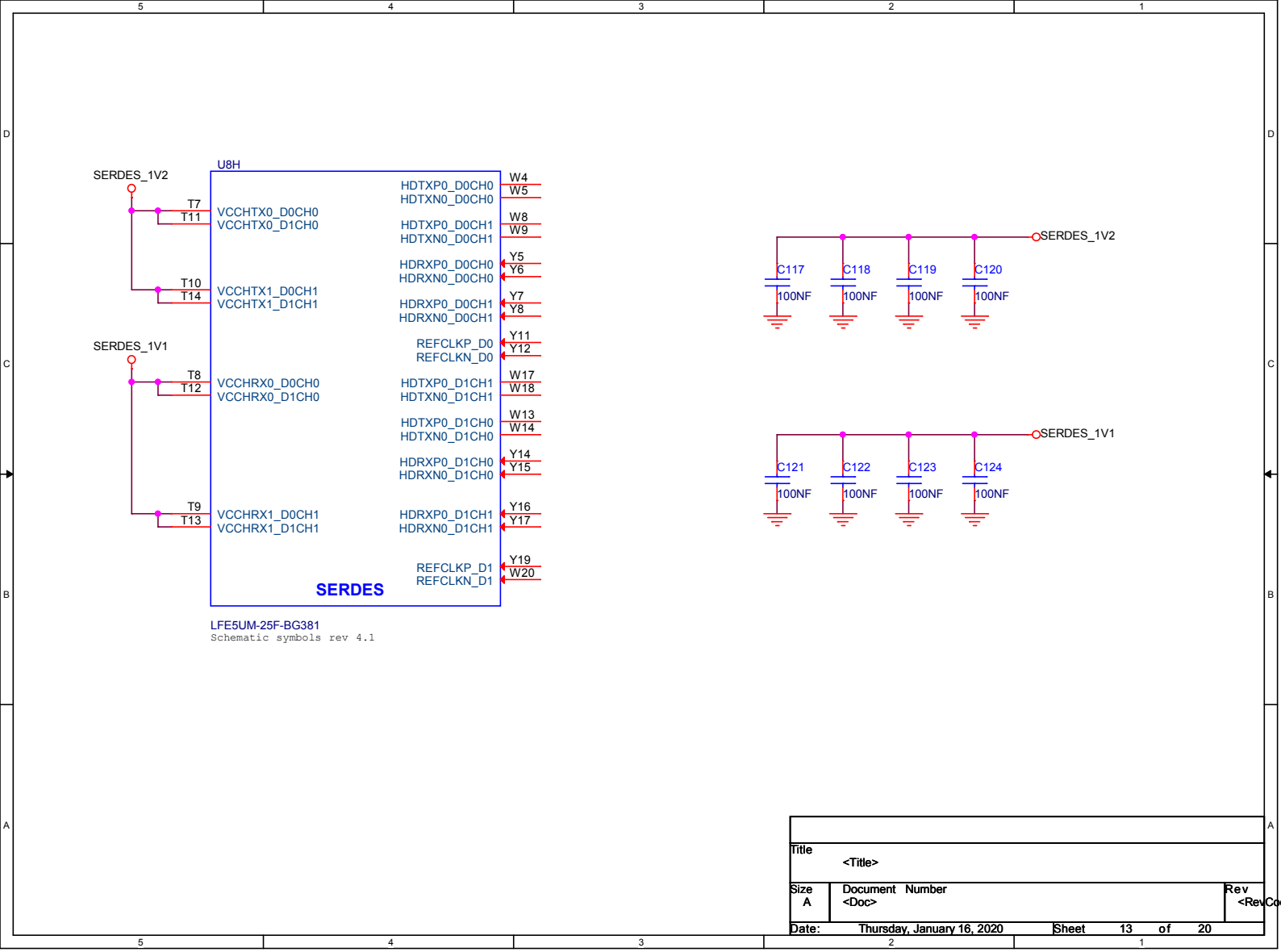
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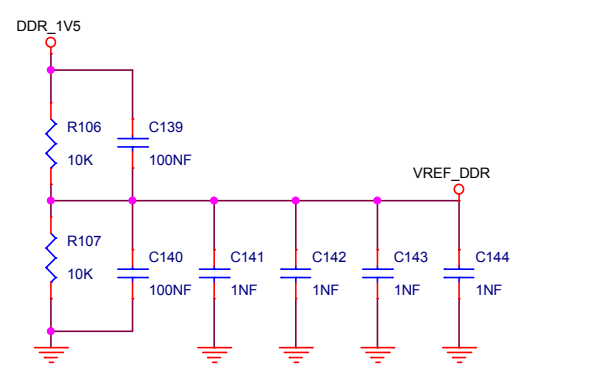
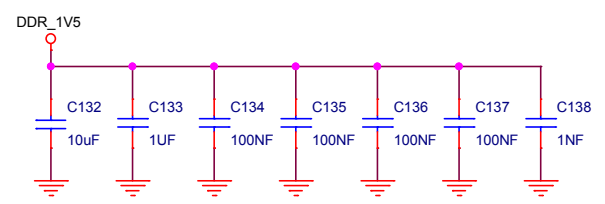
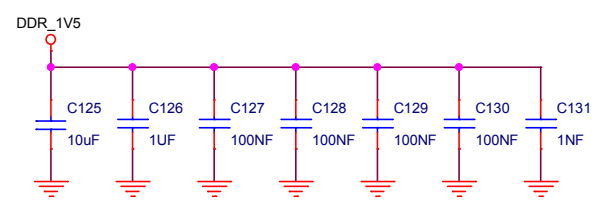
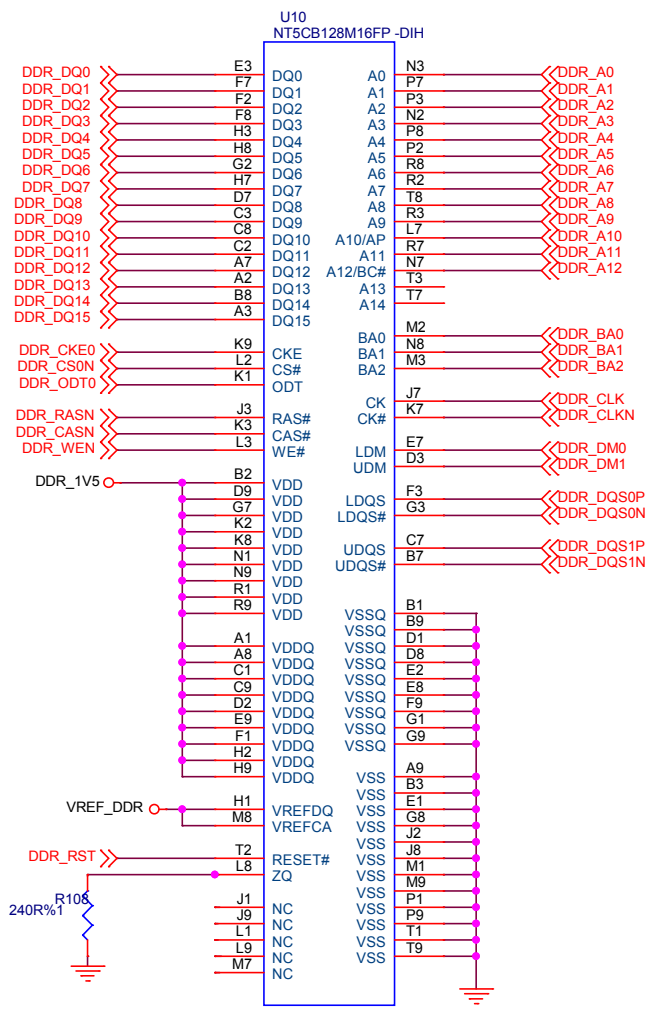




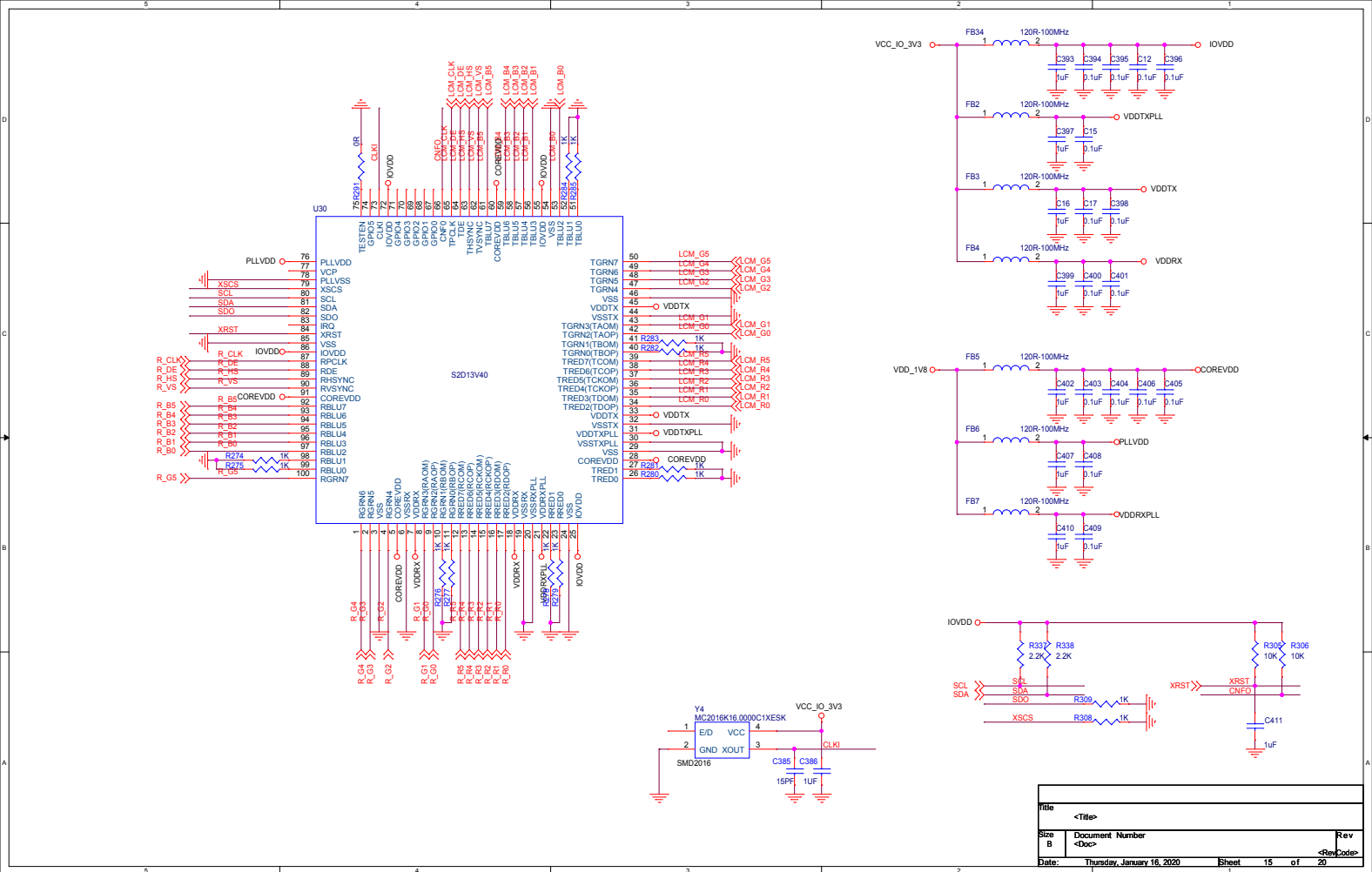


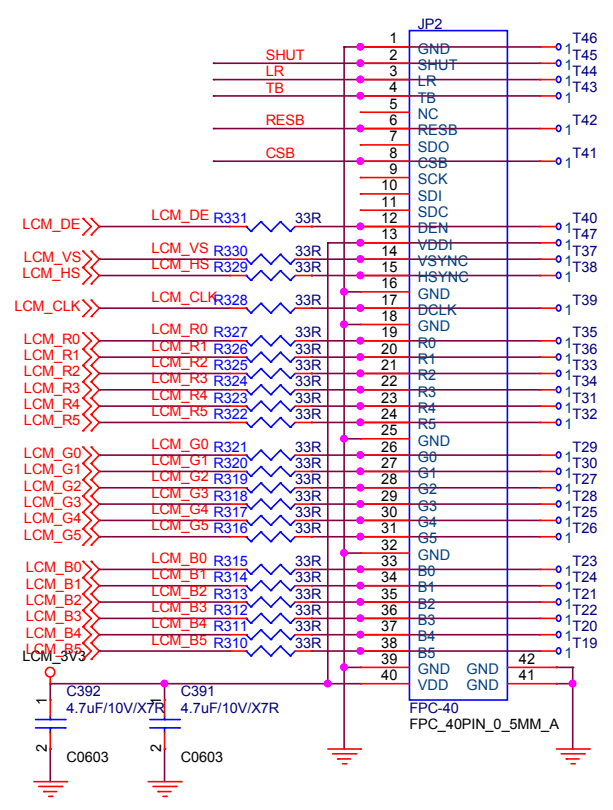
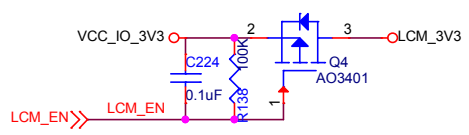
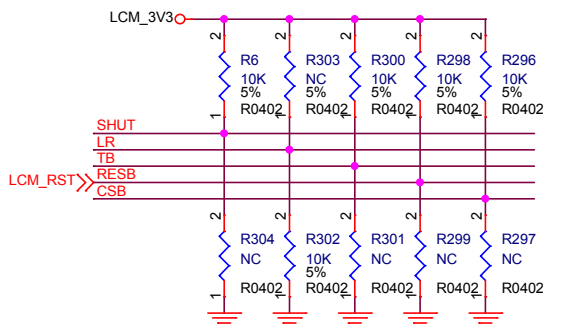






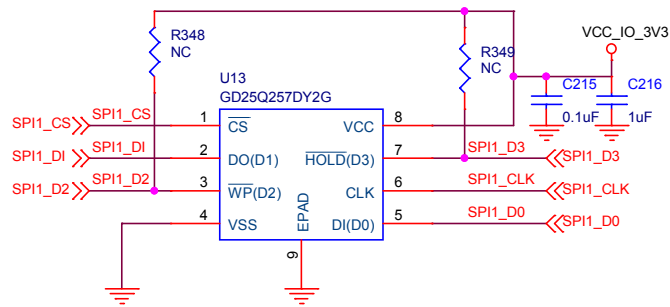
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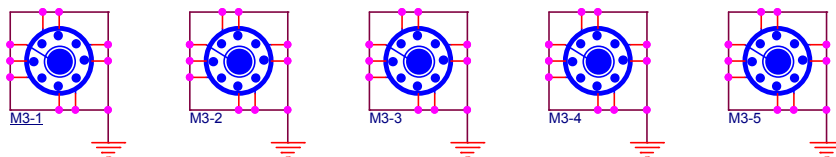


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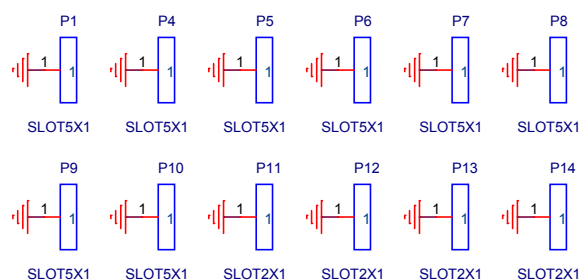
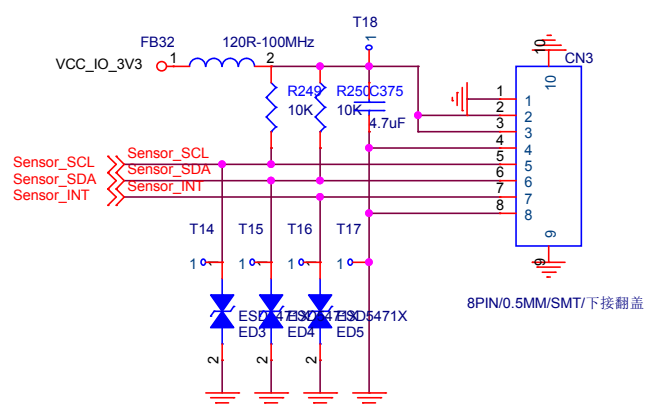
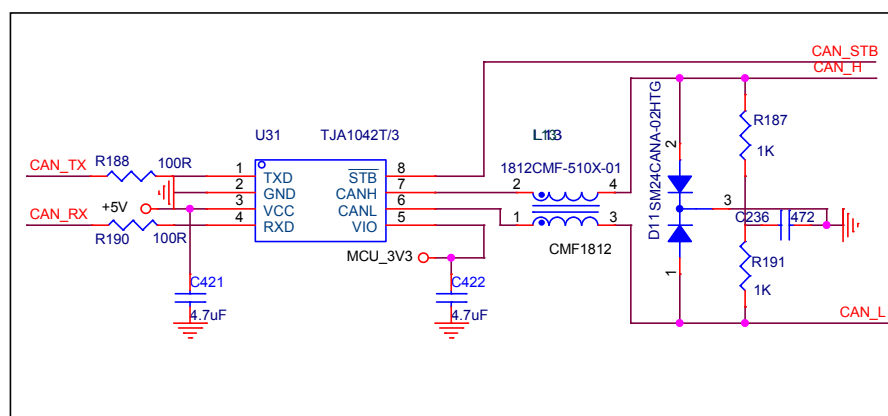
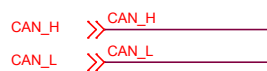
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