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30018

P2024-EC014

Revision History

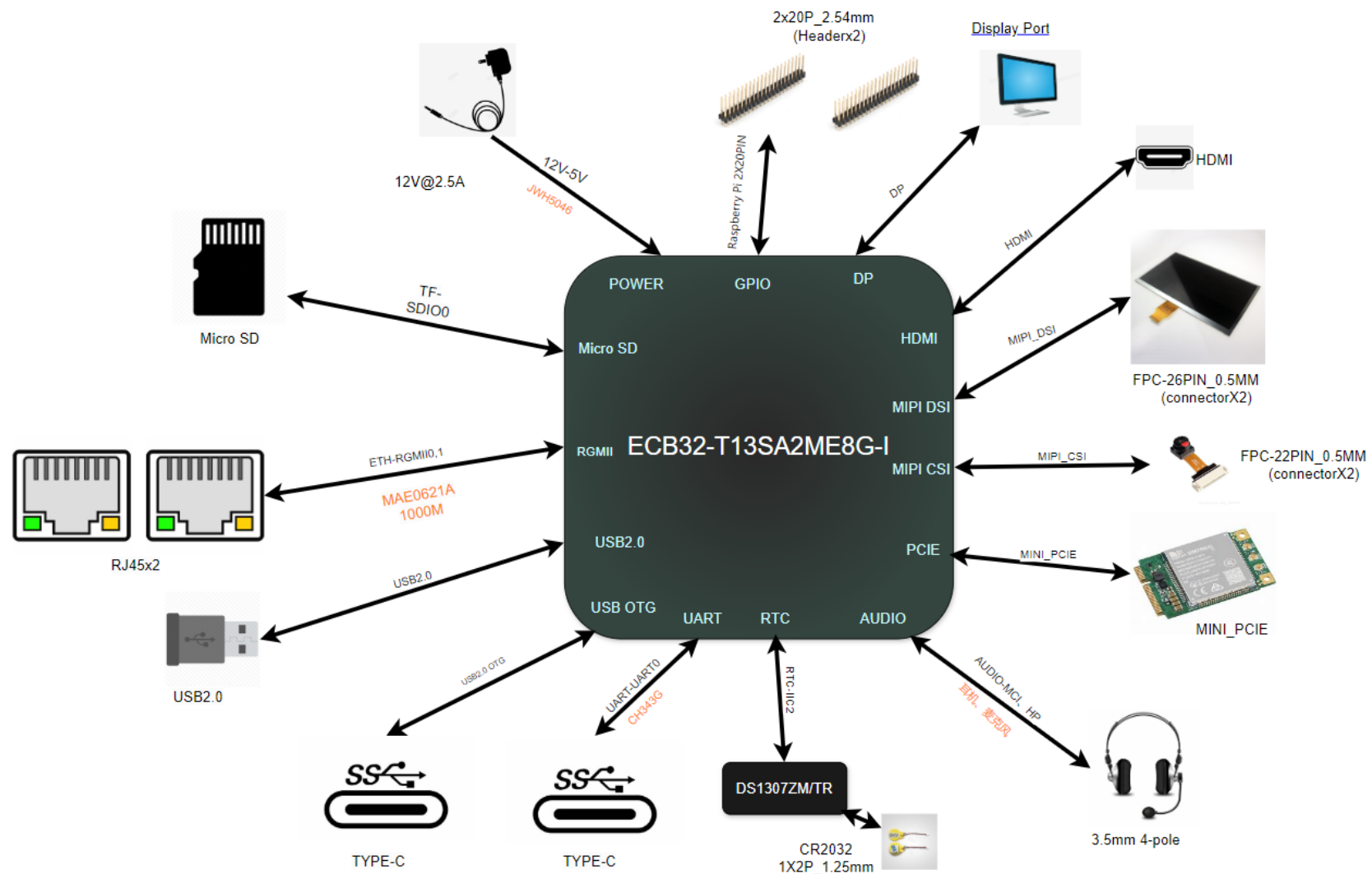
V1.0-2025.3.28-WJ
1. 初始版本。
2. OTG电源管理芯片MT9700EN引 脚由5V改为3.3V, R19改为51K;
3. 调整部分I2C外设位置, 交换PE1, 2和PL2, 3位置的I2C, 交换PM2, 3和PK22, 23位置的I2C;
3. 更改Q1 器件A03415原理图引脚编号, 使其与PCB封装匹配;
4. 音频反馈信号接地电容去掉改为直接接地;
5. 将MINI_PCIE封装由原来的短尺寸改为长尺寸封装;

2025.2.13
6. OTG电路增加CC检测芯片, 将MT9700芯片换为拓尔微TM16263BH;
7. CSI摄像头模组的I2C是3.3V电平, 需更换I/O口, 将两组CSI接口的I2C均改为PK10, PK11;
8. 底板电源使能信号由原来的VCC_3V3改为I/O口 (选择在DCDC4电源域下的I/O) 使能, 保证底板电源域在最后上电;
9. SD卡供电改为VCC_3V3, 将VCC_3V3网络名称改为VCC_CARD;

2025.2.17
10. 将JWH5046电源芯片使能信号改为12V分压的信号, PCIE的电源改为不受控电源, 两个树莓派接口的3V3用一个受控信号控制负载开关, 其余的用一个受控负载开关;
11. USB_HOST接口负载开关, IN端10uF, OUT端47uF; 其他负载开关接口, IN端47uF, OUT端0.1uF;

2025.3.11
12. 底板3.3V电源除串口和TF卡采用VCC_CARD外其他同一用VDD-3V3受控电源, 采用DCDC4电源域下的IO口 (PE) 使能。”

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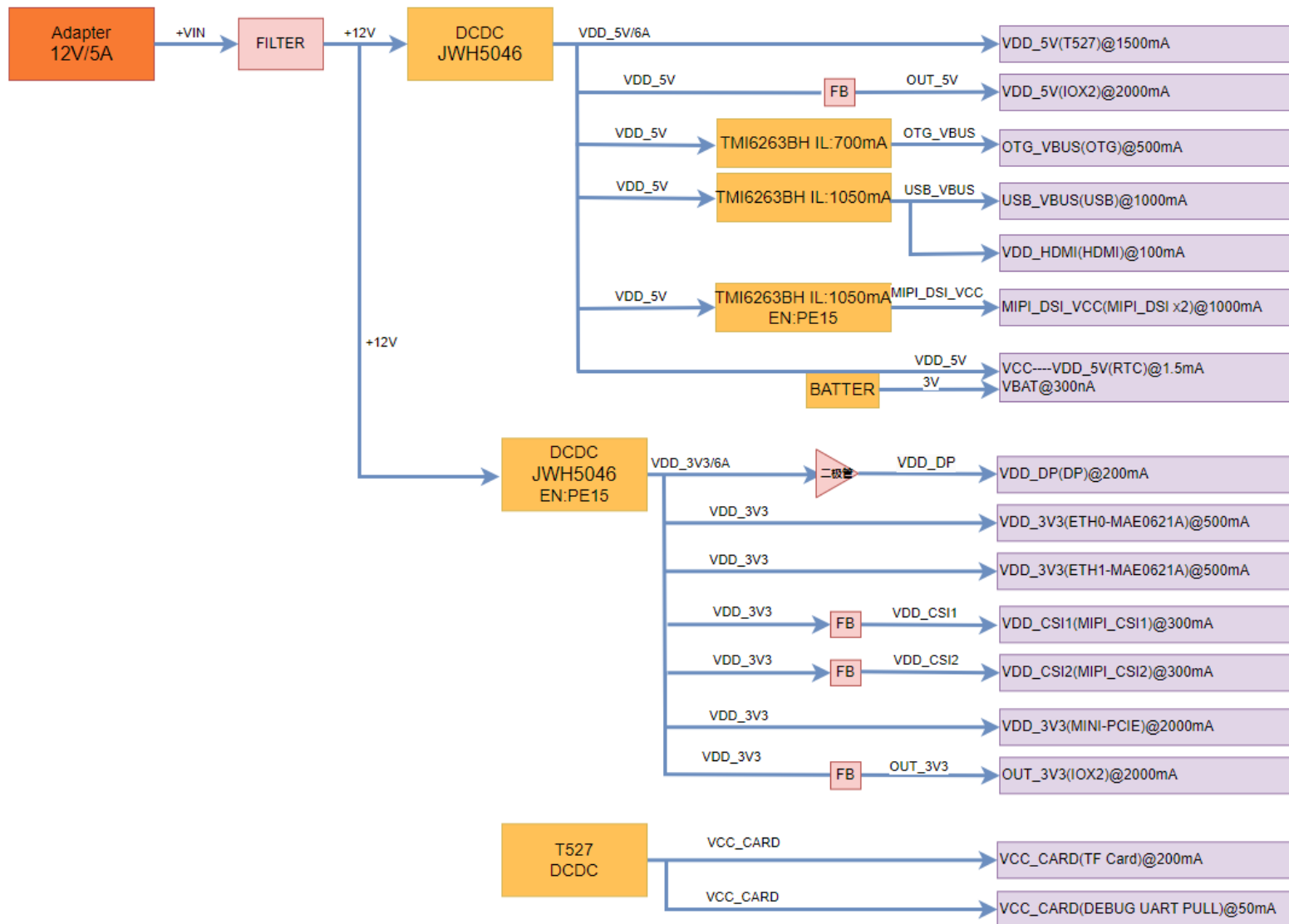
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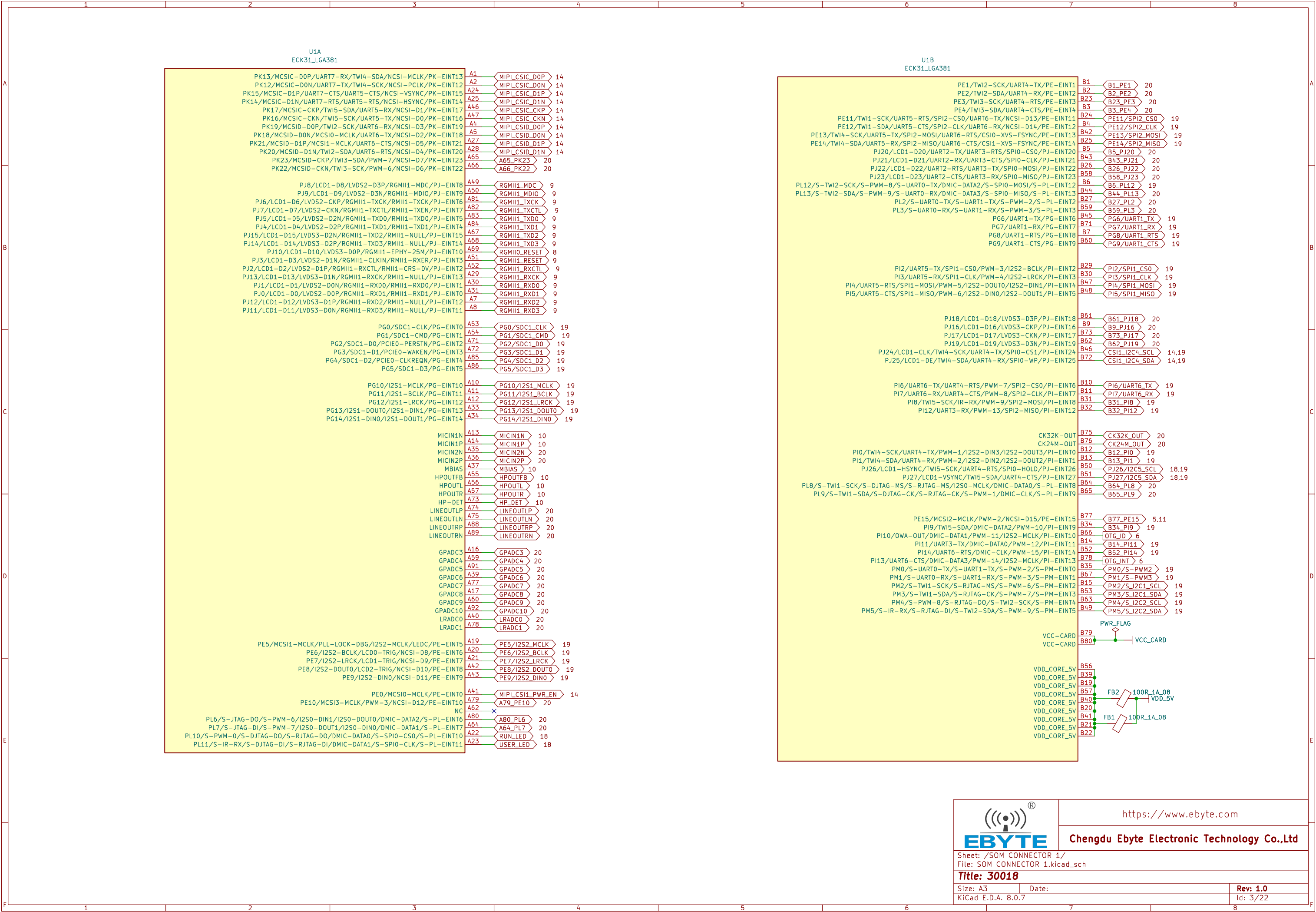
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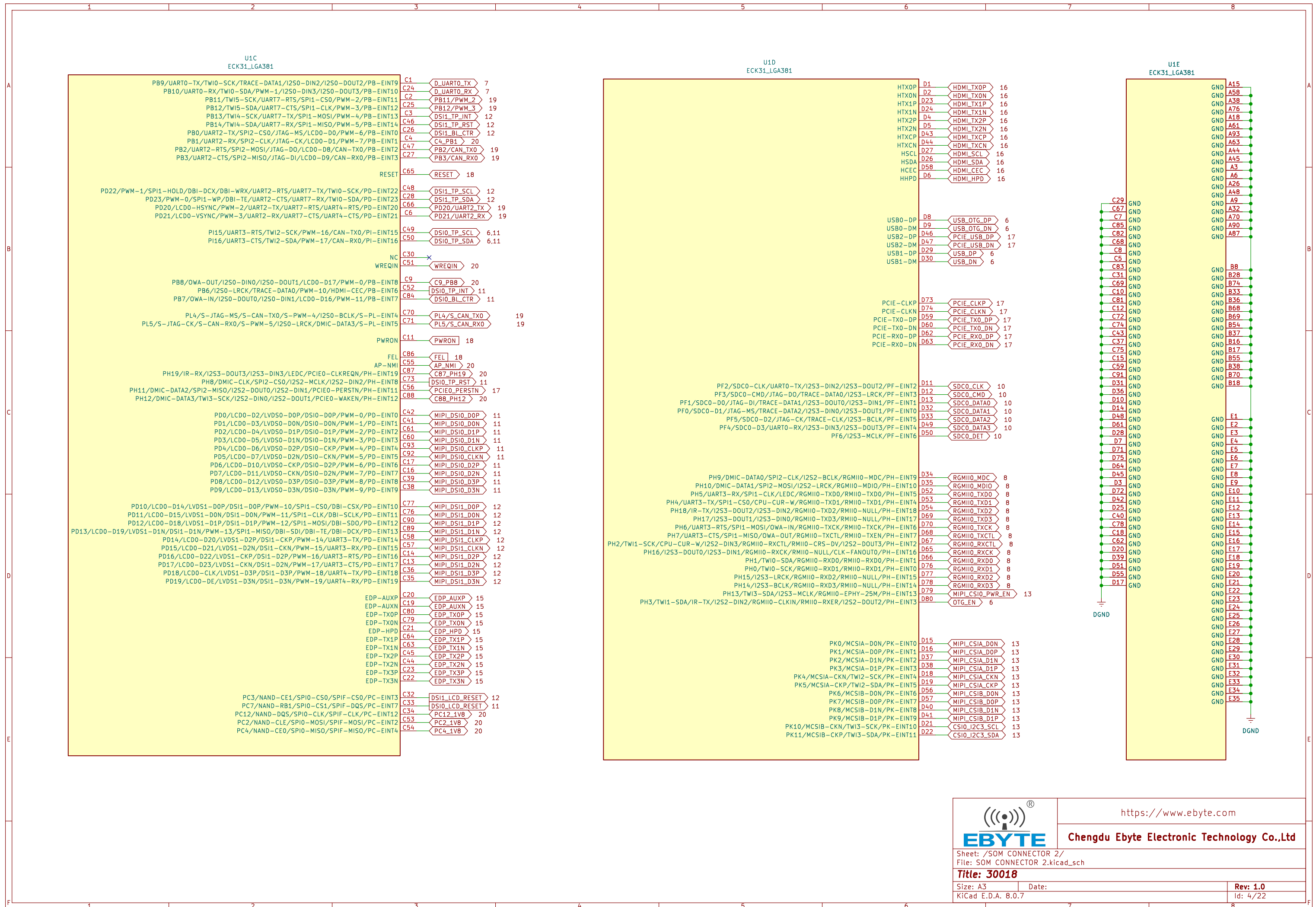
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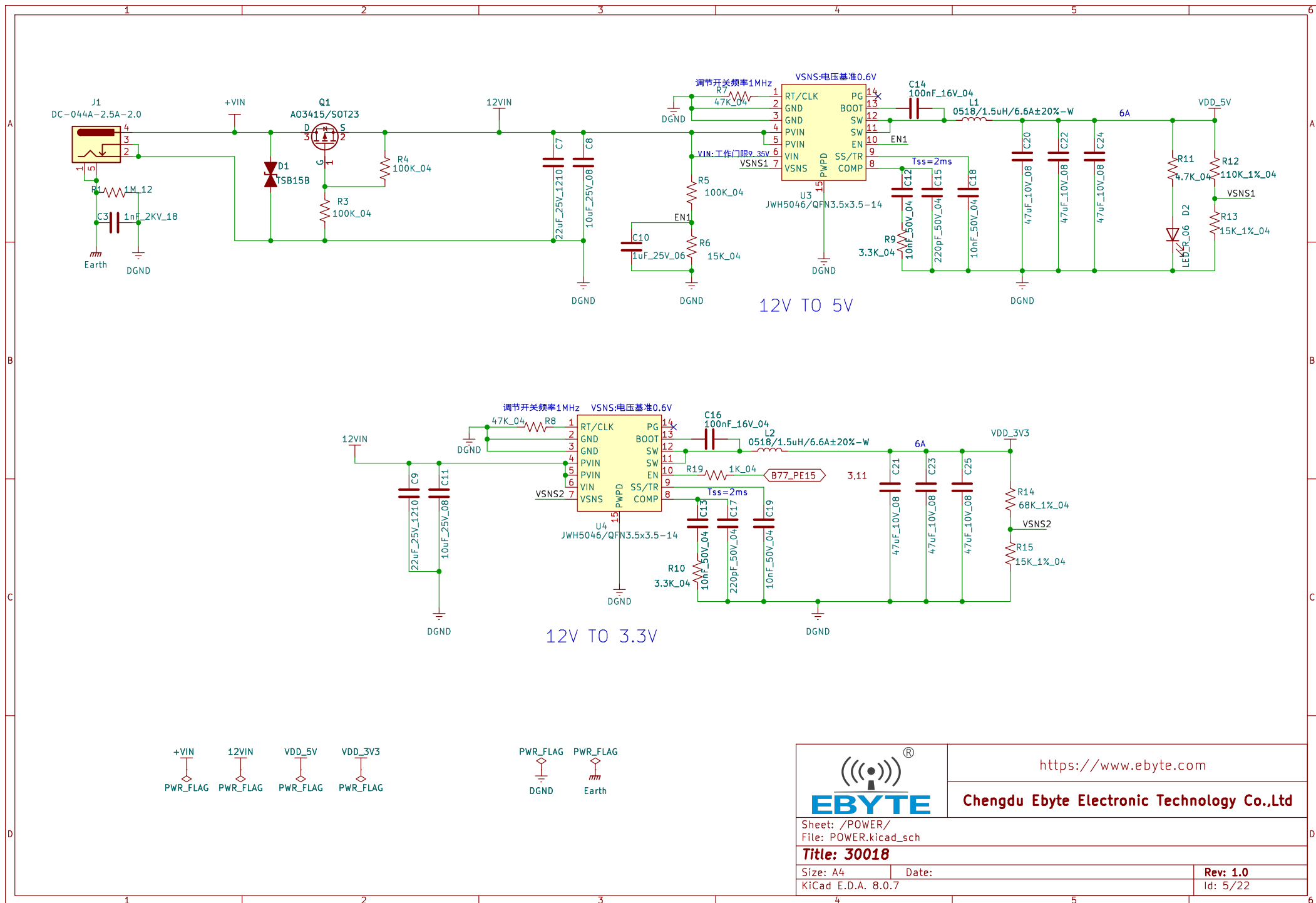
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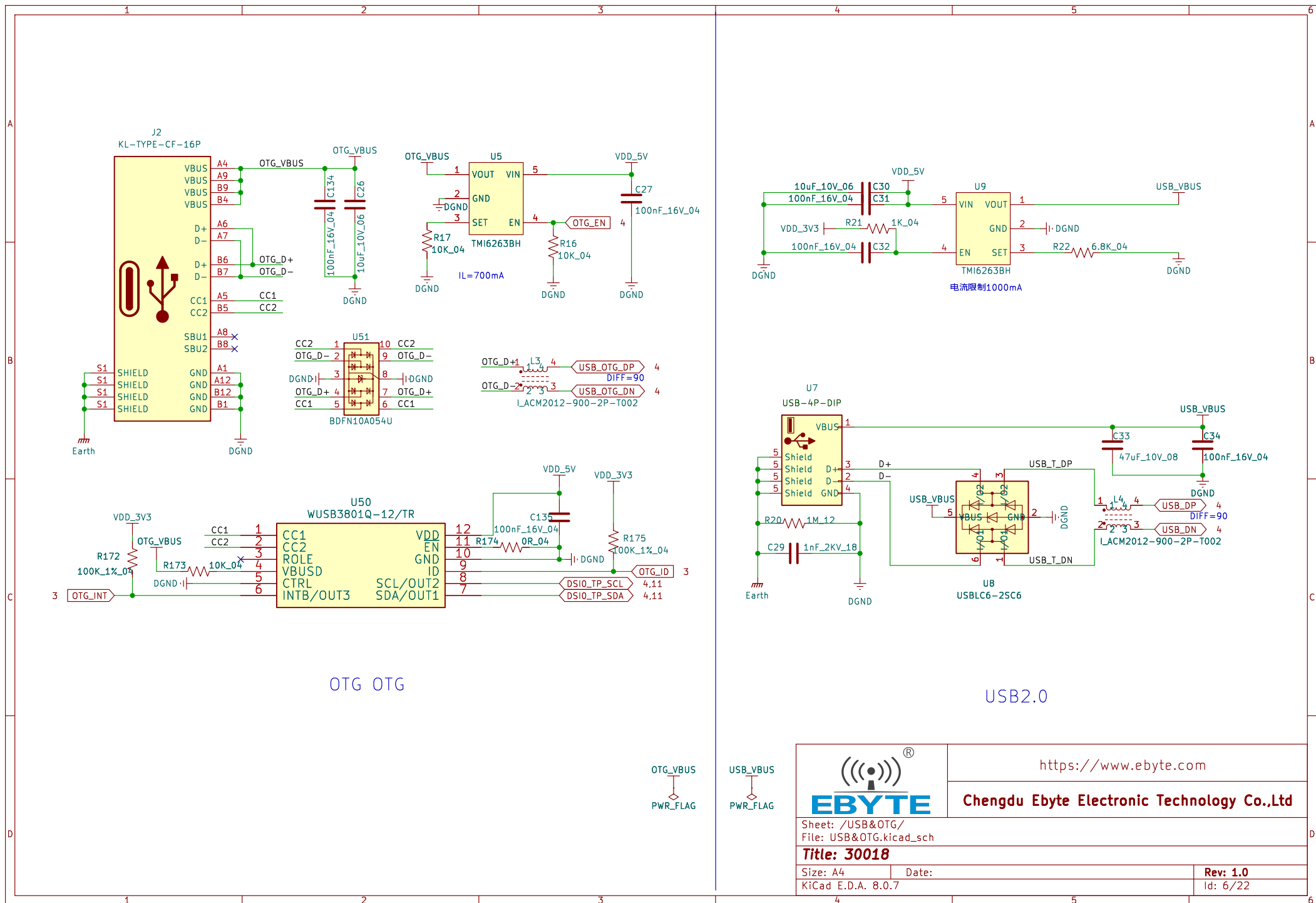
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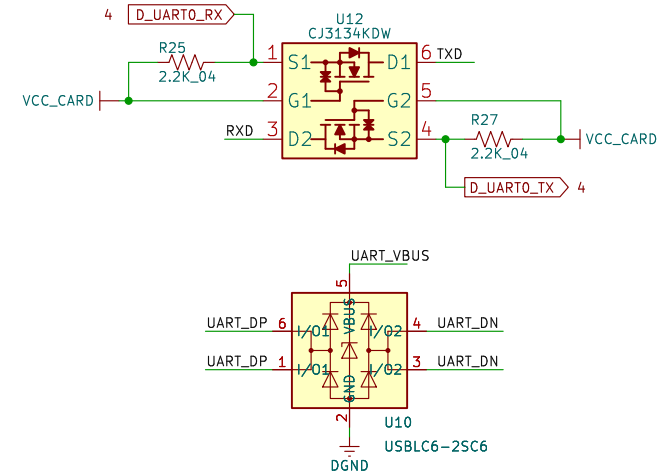


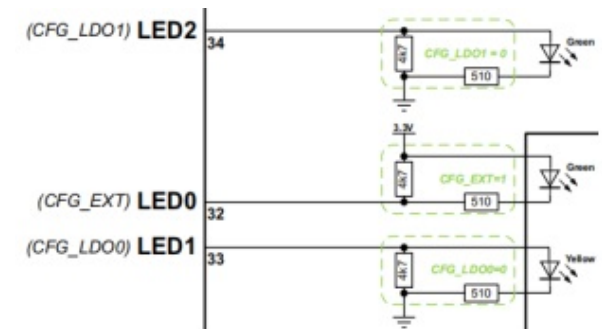




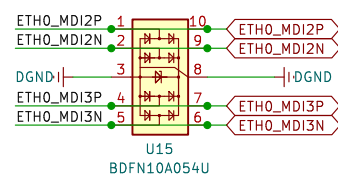
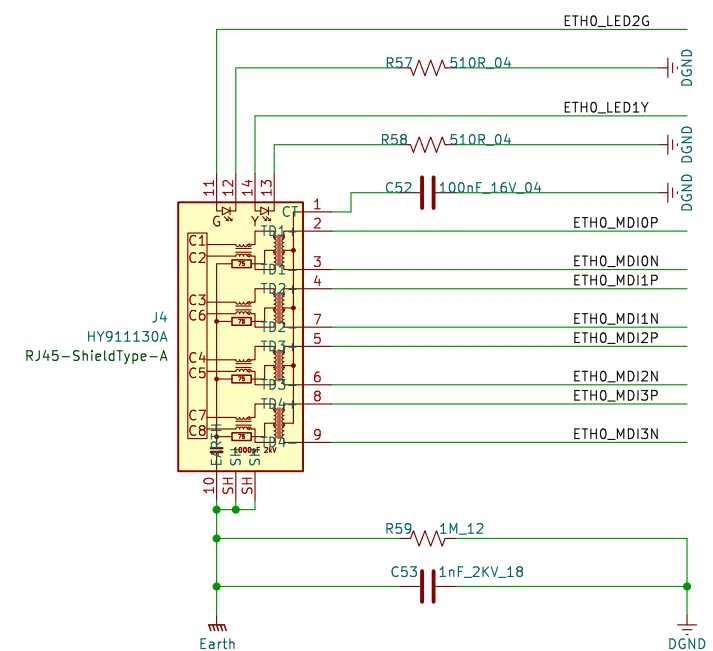
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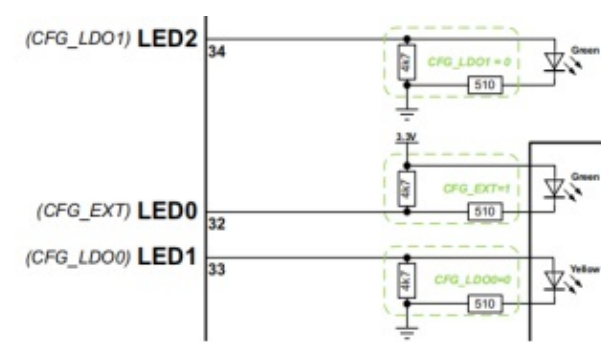




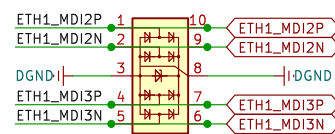
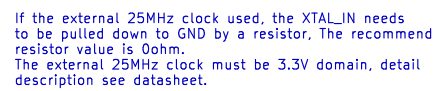
EXT: external power source.
LDO: 3.3V.



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EXT: external power source.
LDO: 3.3V.

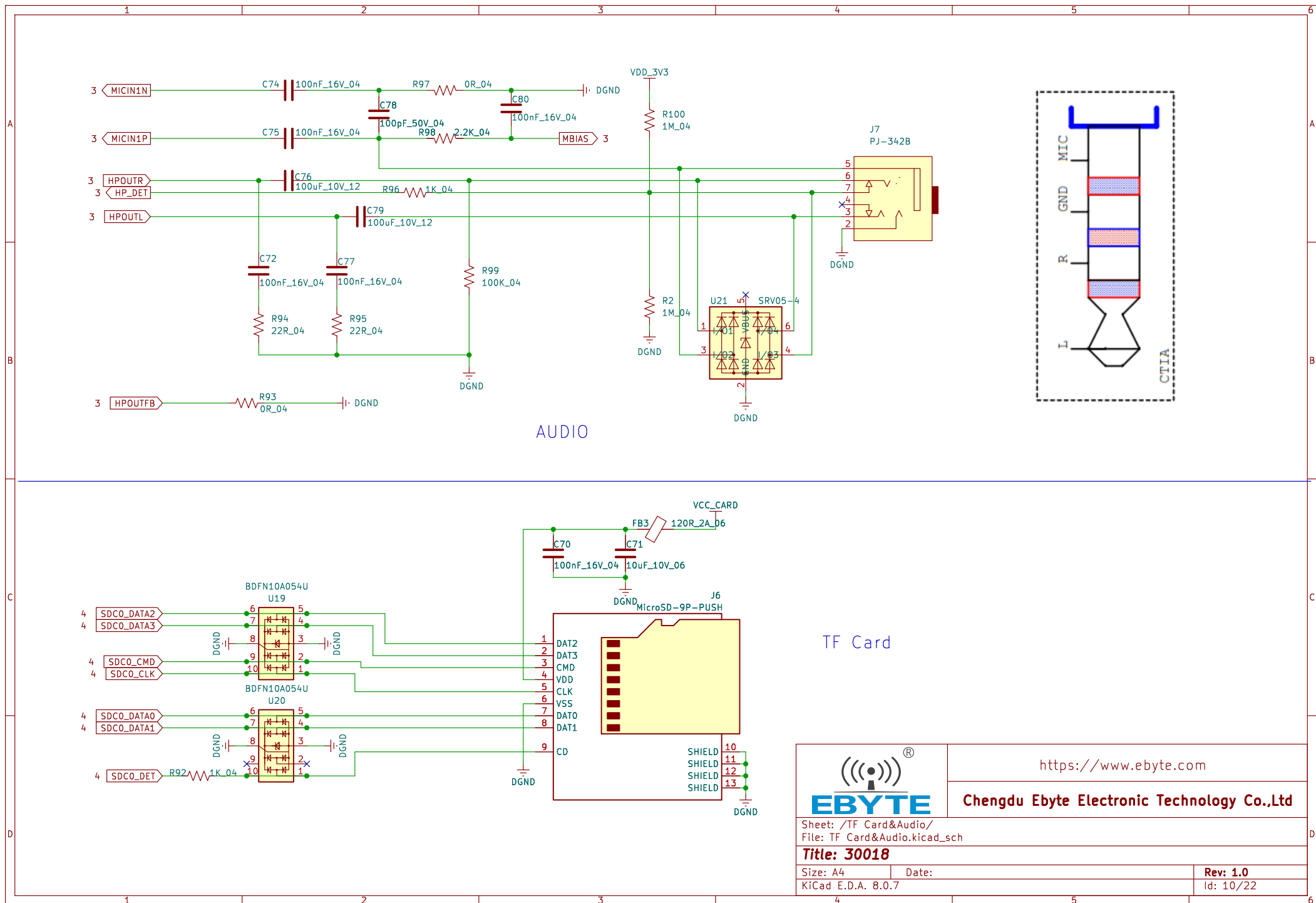


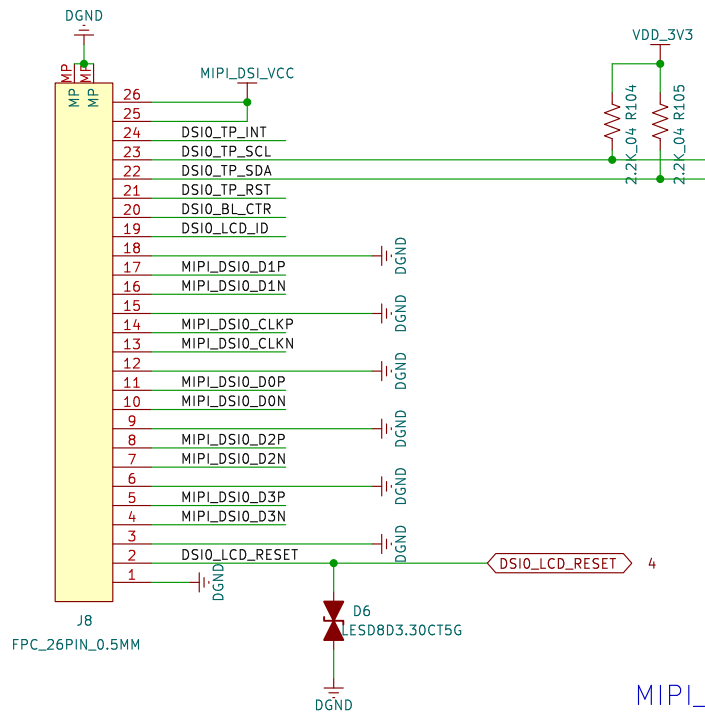
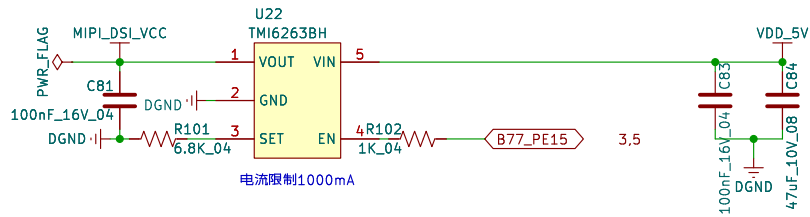
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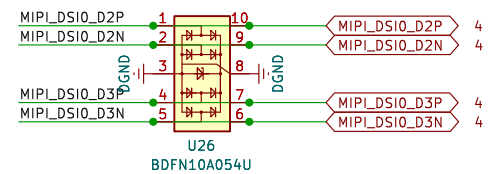
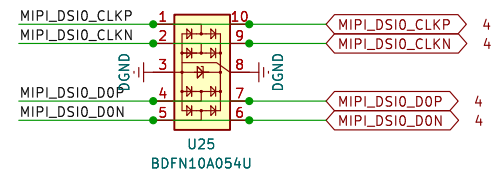
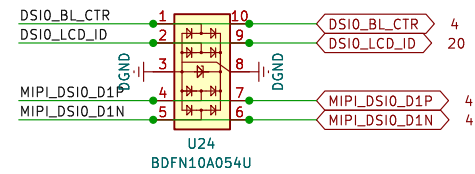
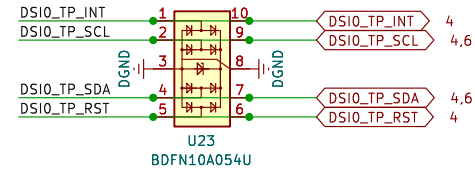
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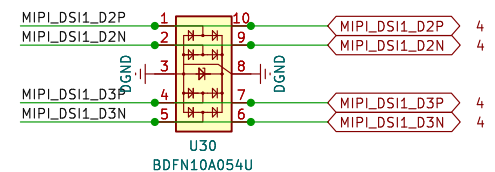


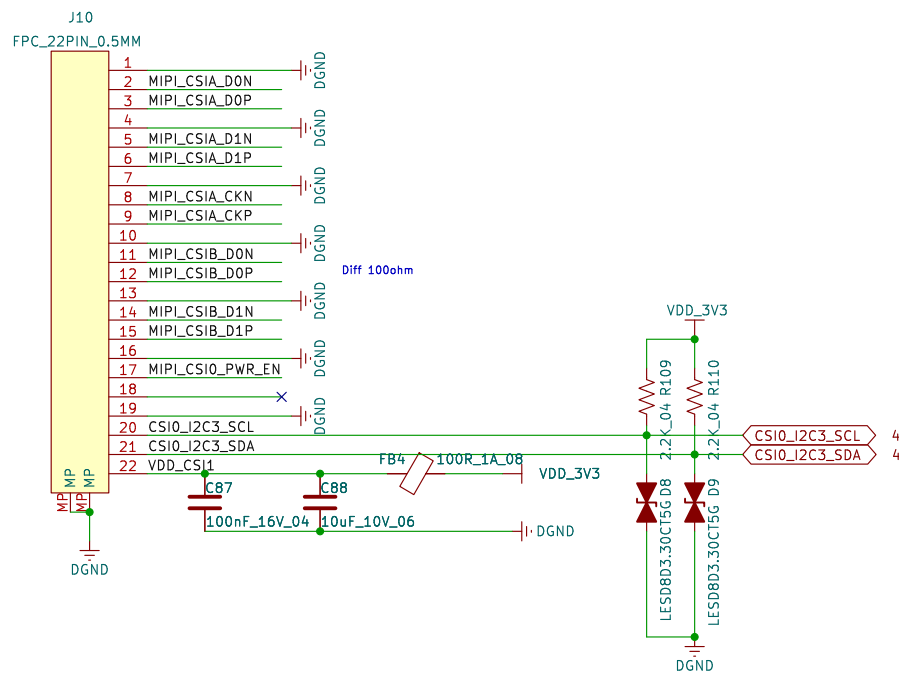


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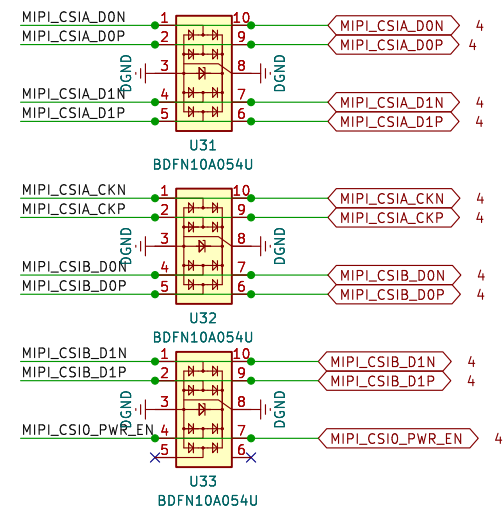


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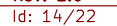
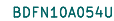


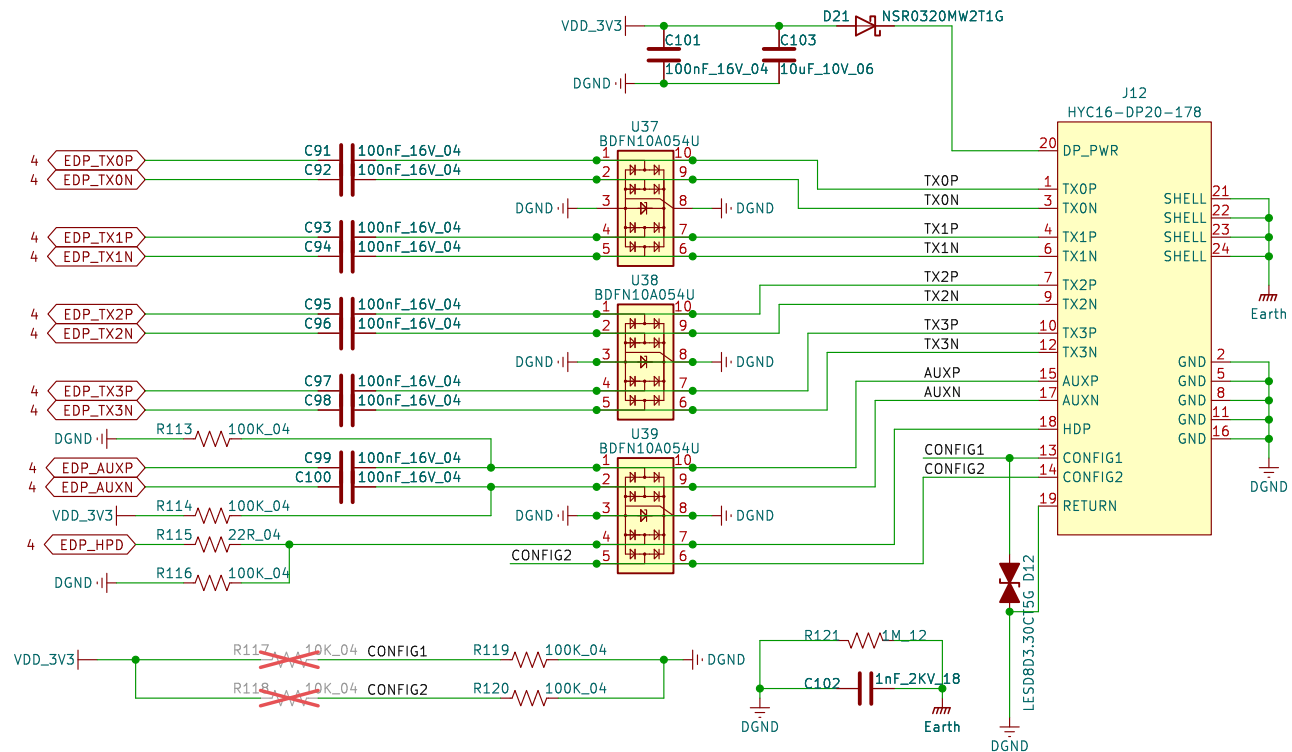


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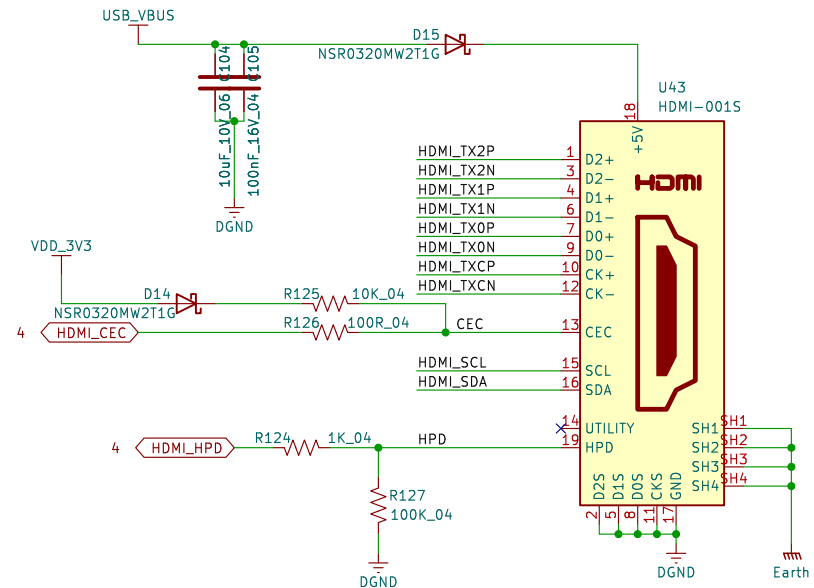


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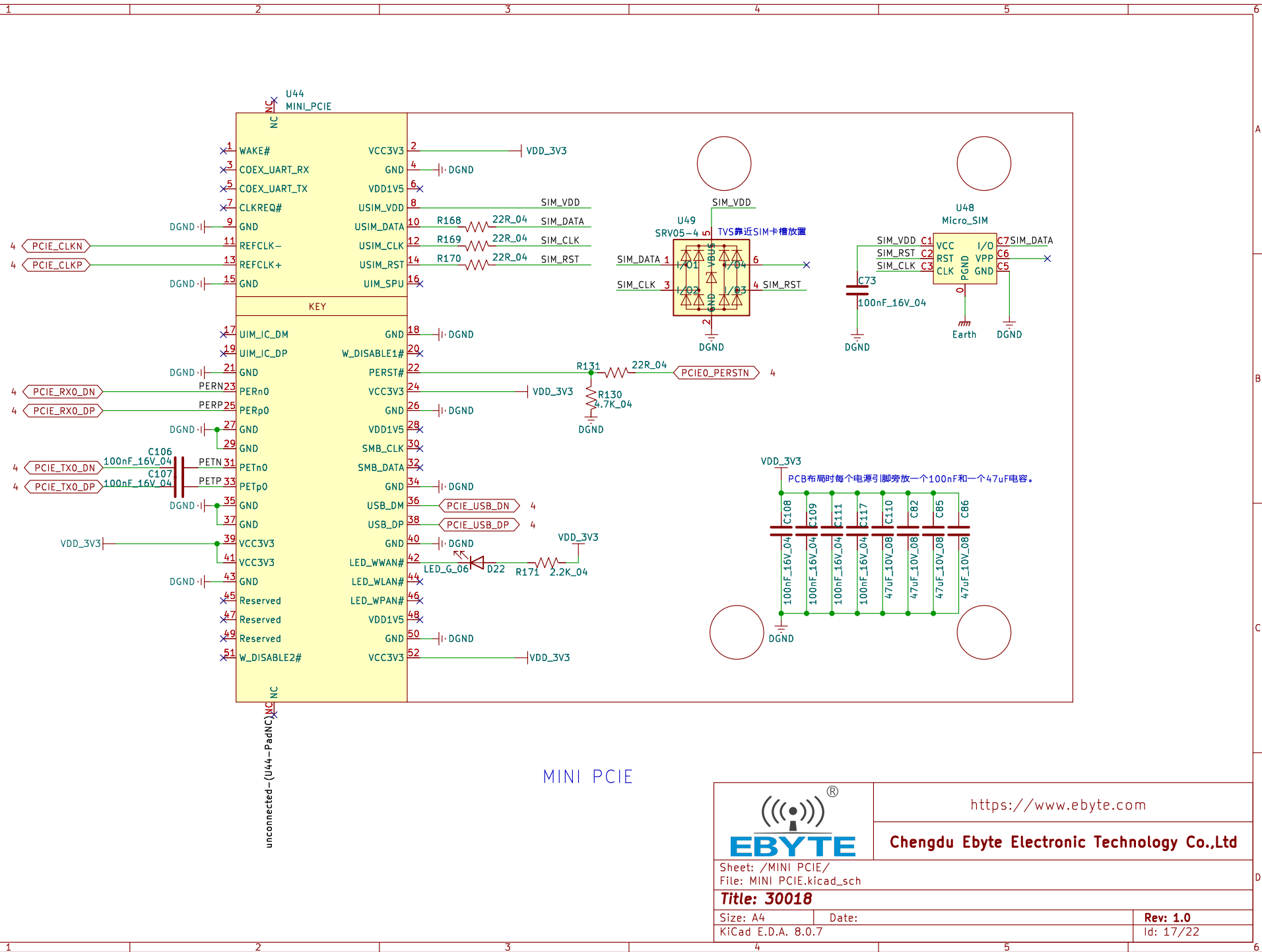


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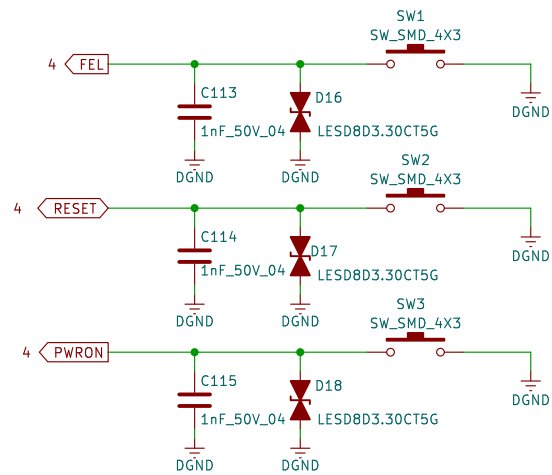


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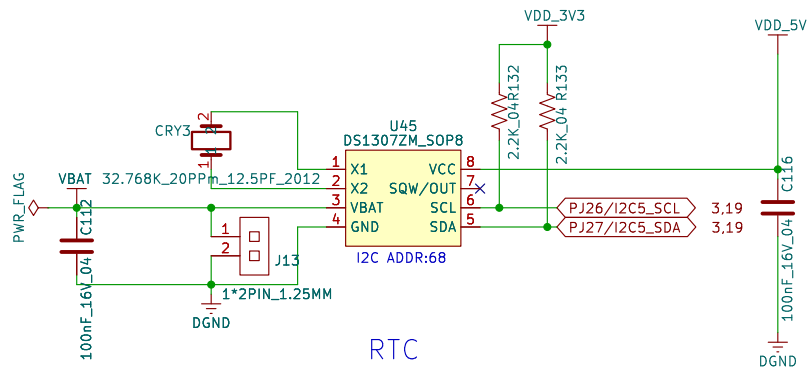
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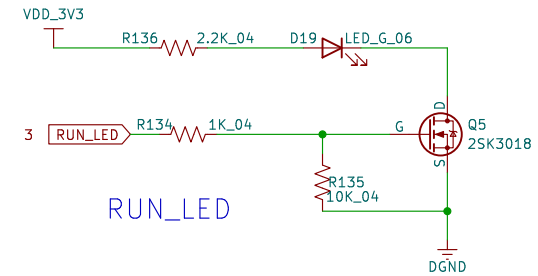
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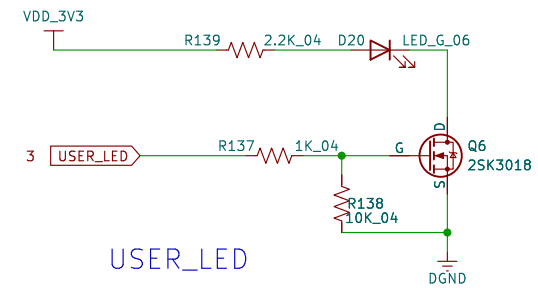
KEY



RTC



RUN_LED



USER_LED



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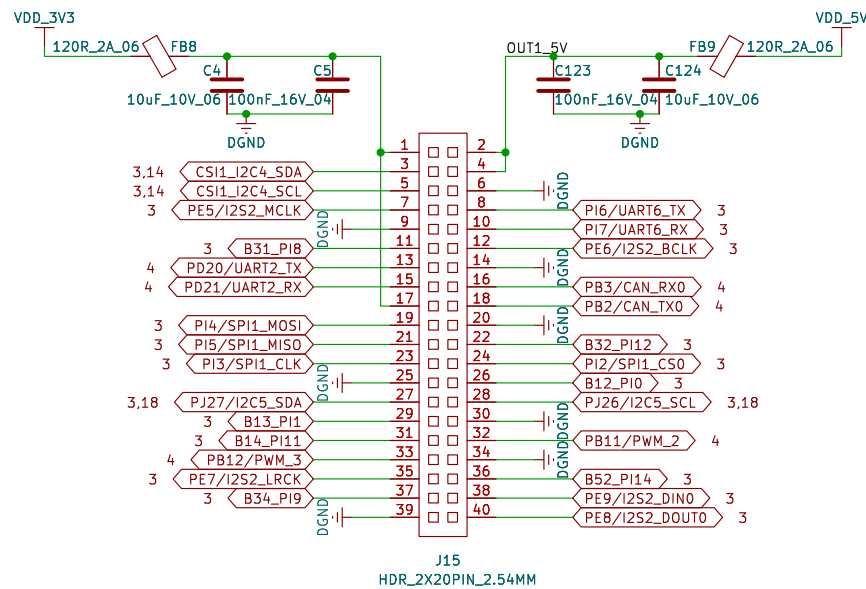
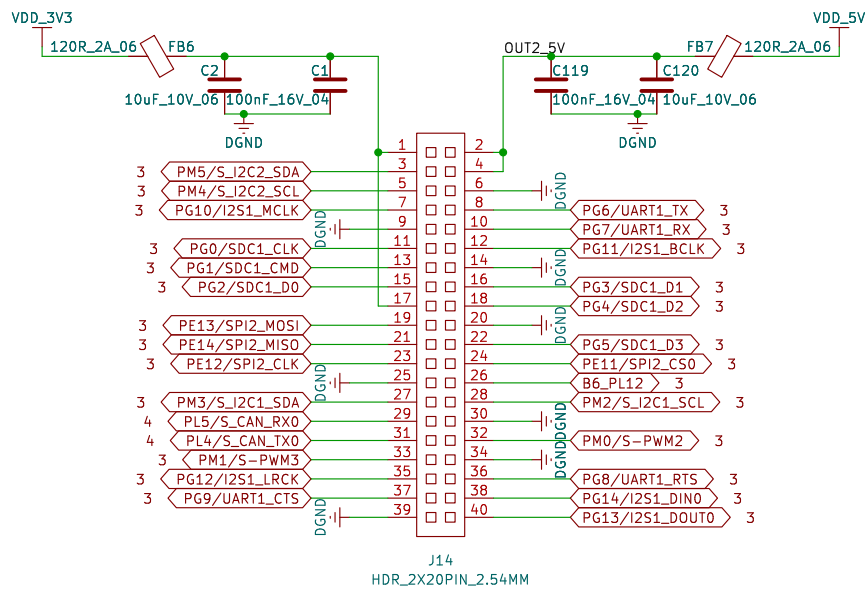
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Raspberry Pi Connector

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