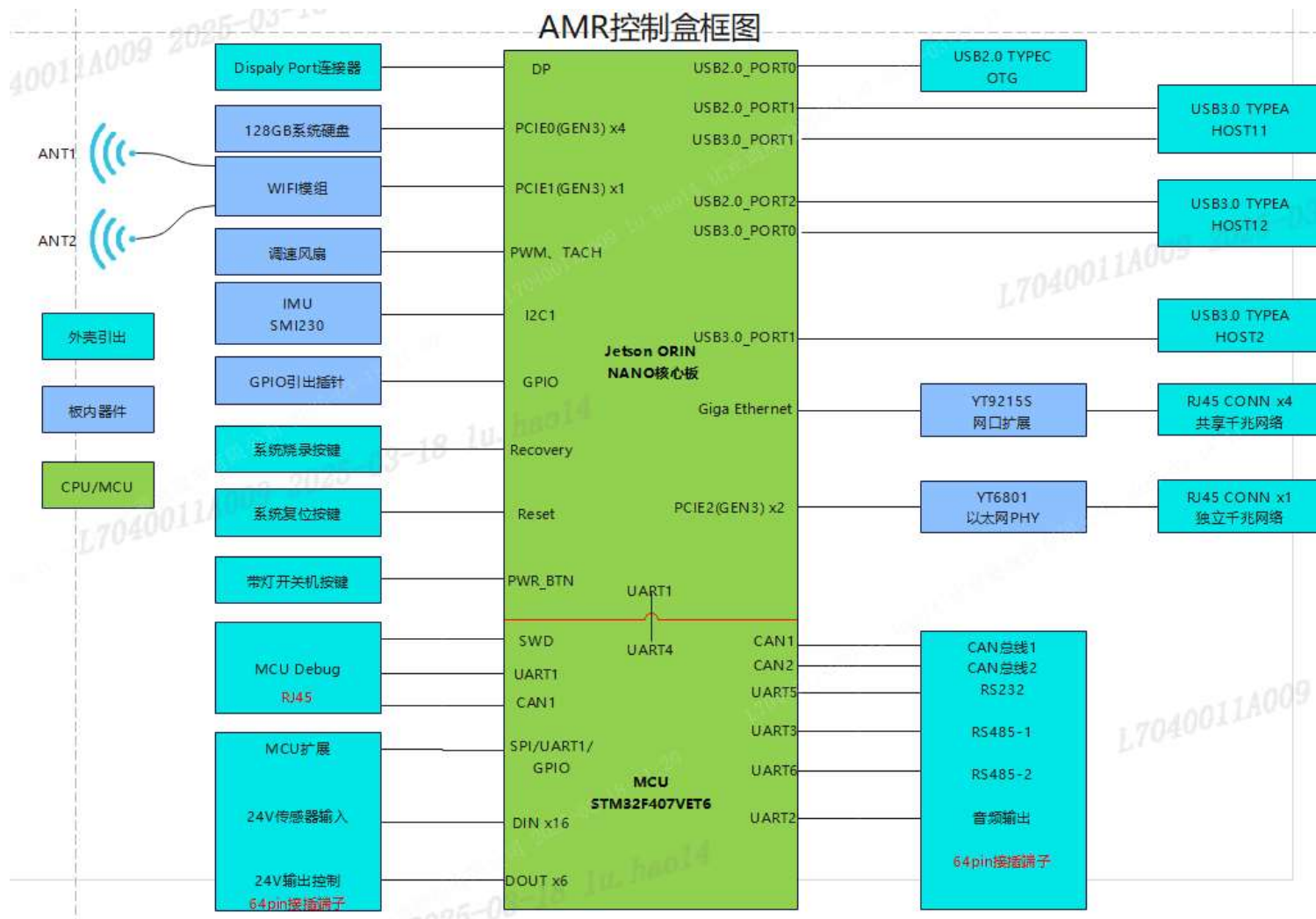


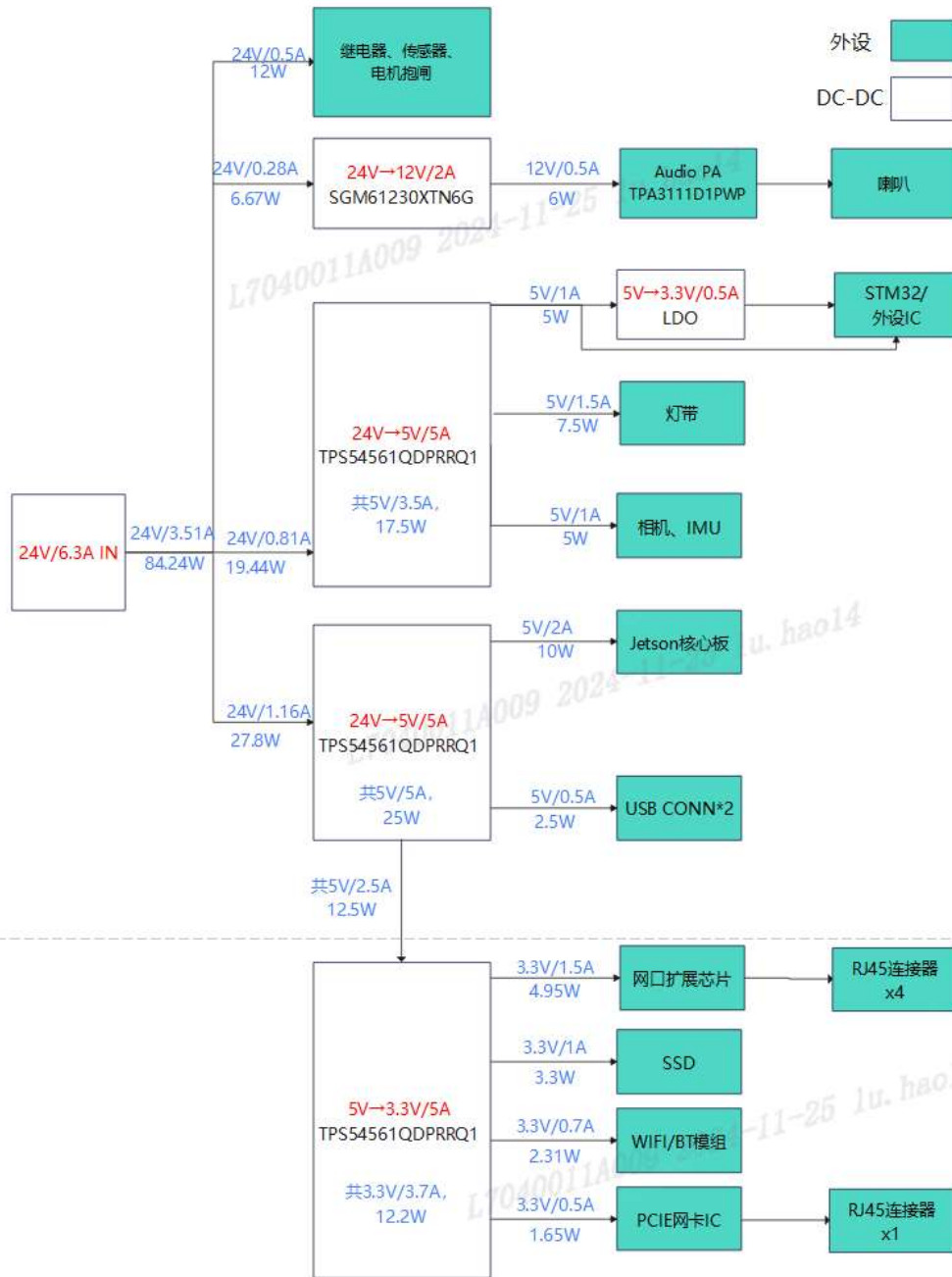
Revision History

| Version | Date | By | Change Dscription | Approved |
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| A01 | 2024-7-10 | LU HAO | 1:Revision preliminary version | |
| A05 | 2024-10-14 | LU HAO | 1:去掉D1/Q1 休眠弯插指示灯控制部分; 2:核心板固定方式由六角双通螺柱H1,H2变更为贴片螺母; 3.24V_DO改为3路; 4.U8的供电输入由24V0改为5V0_JETSON; 5.删除MINI PCIE-4G_Module功能部分 6.增加R519,R520电阻并NC, 硬件上禁用蓝牙功能。 7.去除U31,J29部分, 取消外接视频转接板和6.8寸触摸LCD屏功能。 8.去除CSI_Camera功能部分。 9.去除J19,J20,J21三个DB9连接器, 将CAN/RS485/RS232直接引出到大端子。 10.J10大端子由引出一组USB接口改为引出2组, 预留外接其他外设。 11.MCU 调试串口UART1一分二接灯带IC, 支持灯带OTA快速升级。 | |
| A06 | 2025-3-1 | LU HAO | 1:增加电池开关电路并引出到线束端子。 2:删除SSD预留的2230贴片螺母MEC3。 3.删除USB2.0 HUB U47。 4.增加MCU U16的硬件版本管理, ADC分压检测。 5.删除灯带IC U20和烧录座J8。 6.增加一路RS485输出和一路CAN输出, 并连接到线束端子。 7.取消蓝牙功能, 将其USB信号线连接至J3 USB-TYPEA连接器。 8.增加板载IMU电路。 9.增加DOUT为6路。 10.对CAN电路和485电路进行抗干扰处理设计, 增加共模电感。 11.MCU烧录线SWCLK和SWDIO之间走线用地隔离, 减小信号干扰。 12.对大端子处的引脚进行防护, 增加TVS管器件。 13.烧录与产测治具相关测试点全部放置于底层。 14.修改DCDC转换频率, R22修改为43K, R29修改为200K, 应对CE测试。 15.增加U5的EN下拉R574, 避免不插核心板时EN悬空导致U5直接上电不受控。 15.将R46改为靠近U8.EN脚位置。 | |

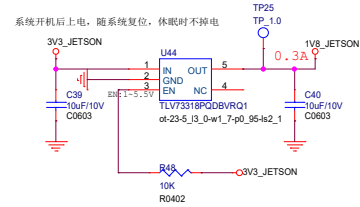
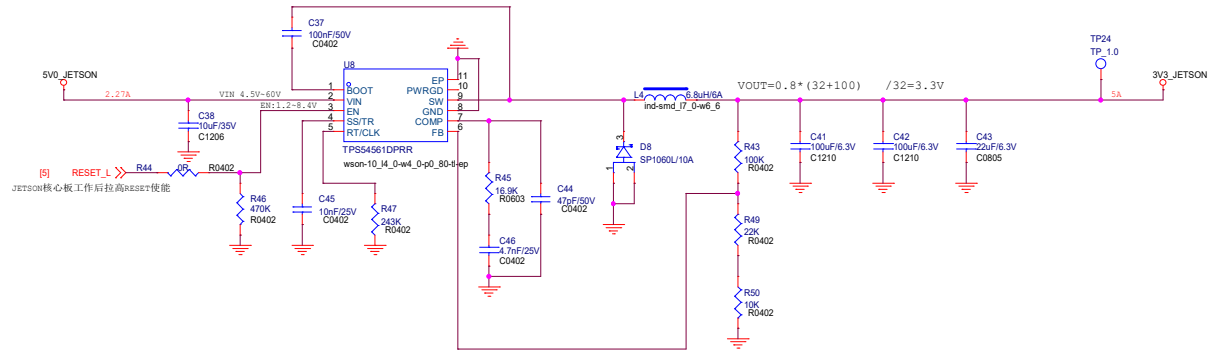
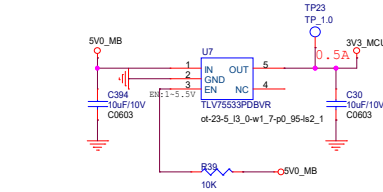
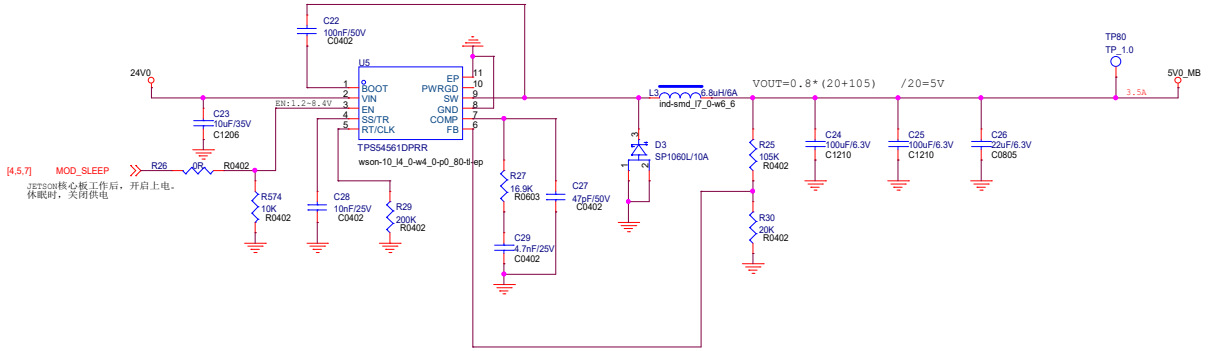
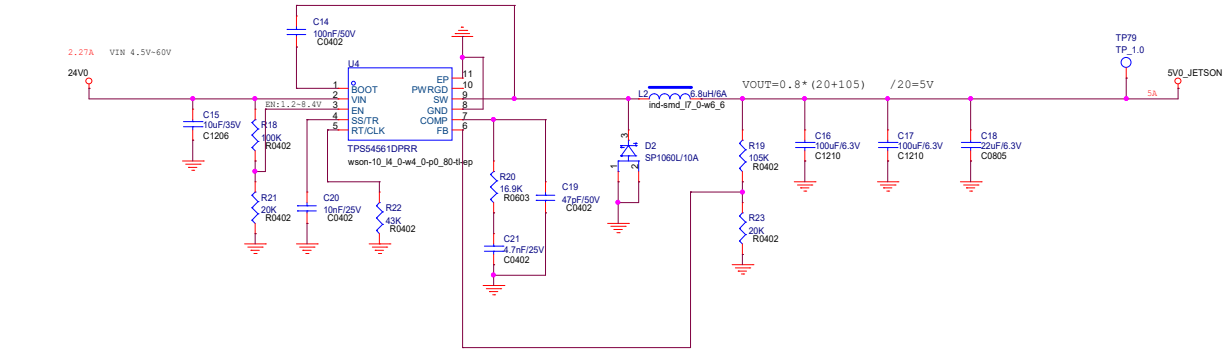
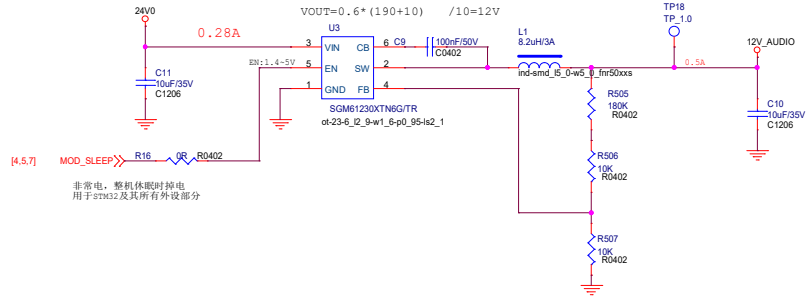
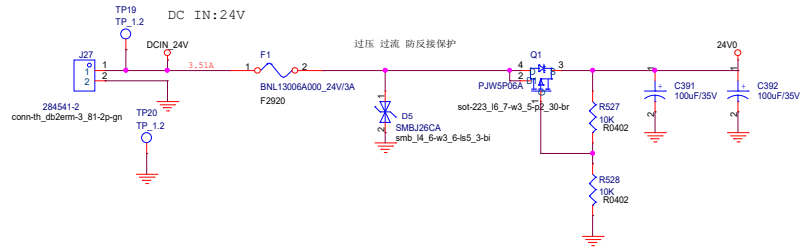
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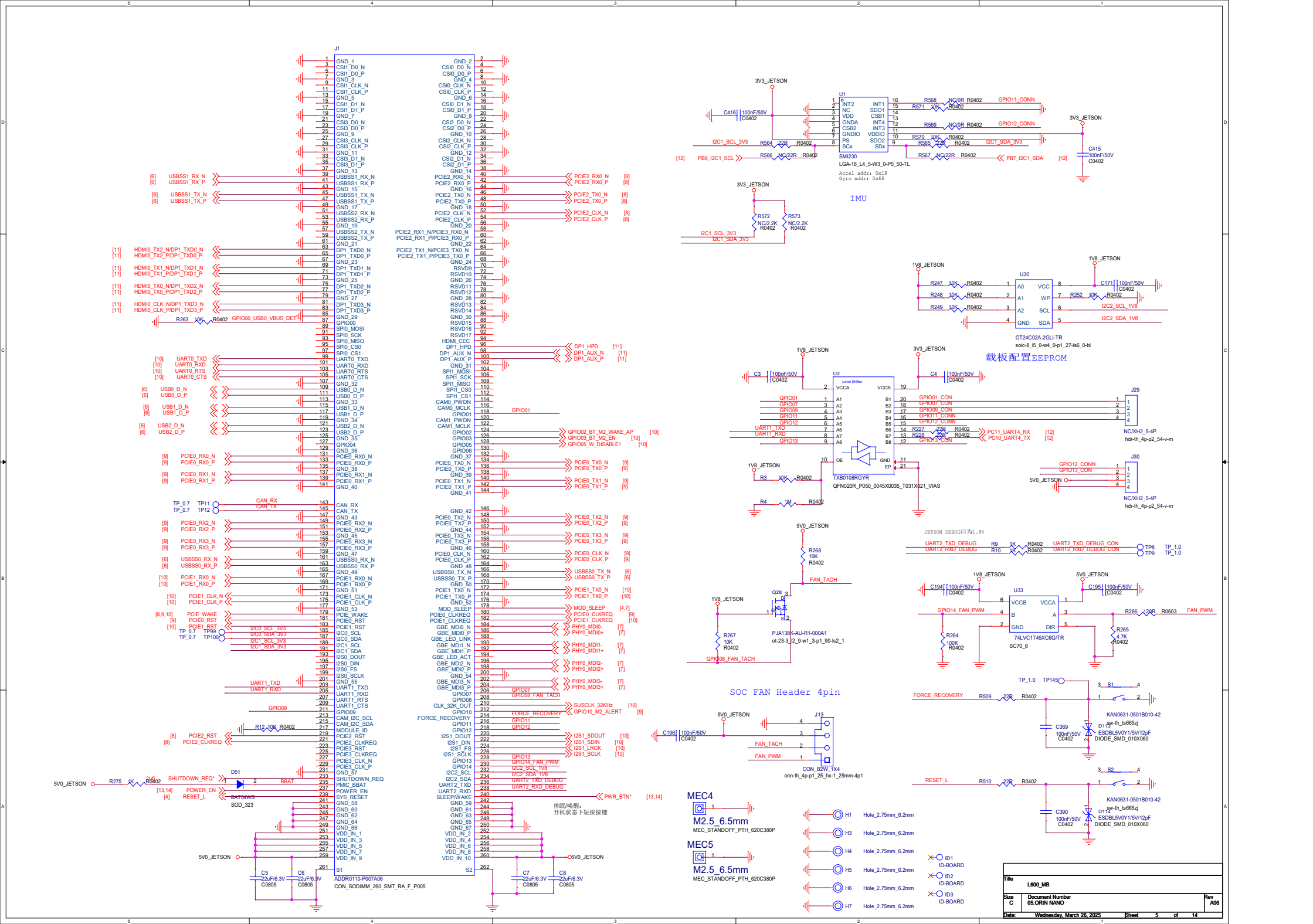
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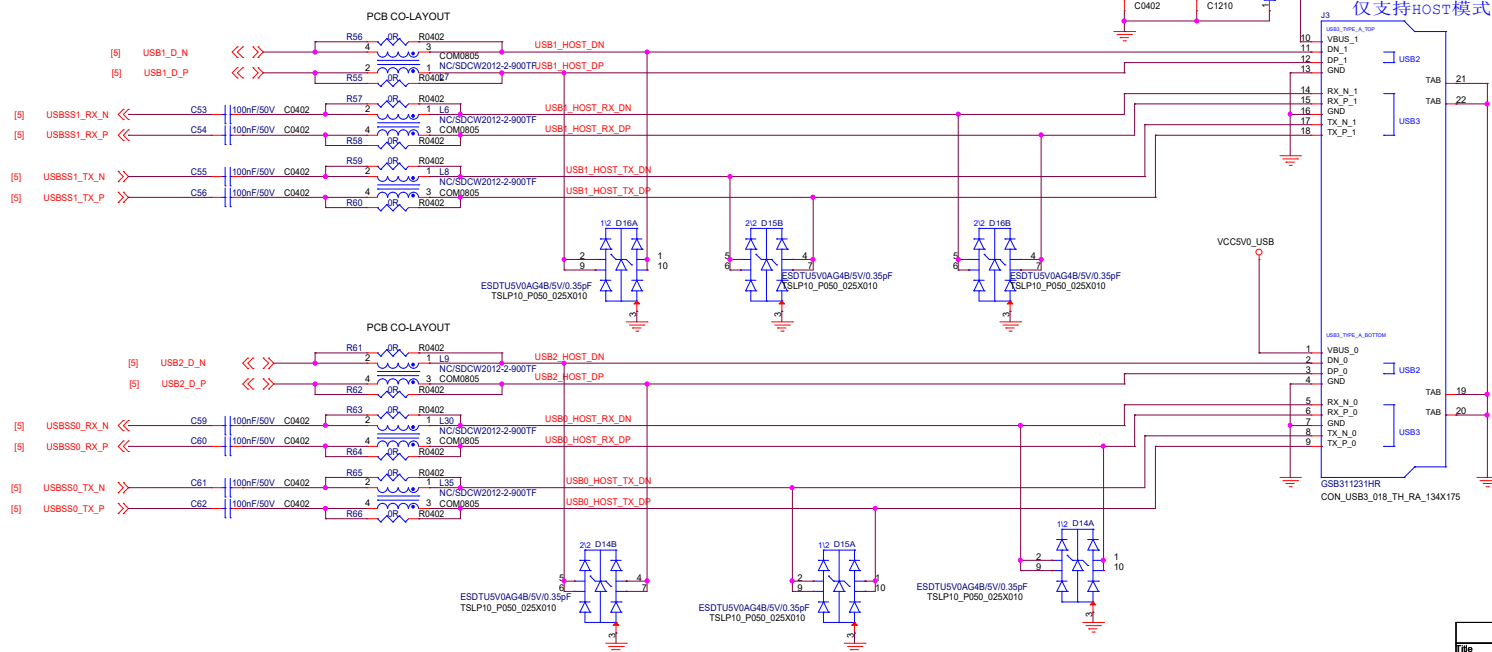
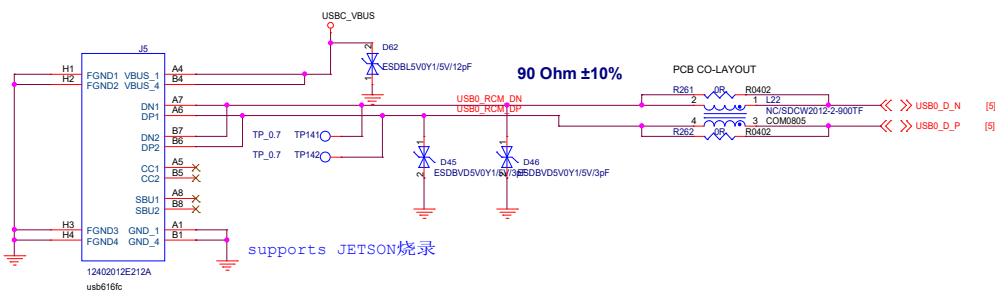
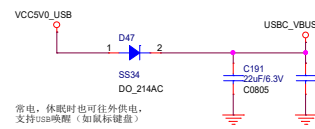
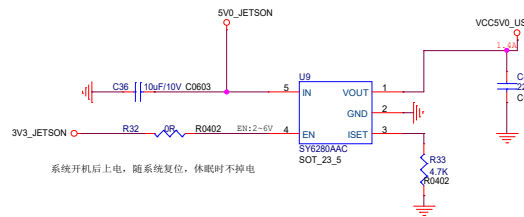


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| B | 03.Power_Tree | A06 |
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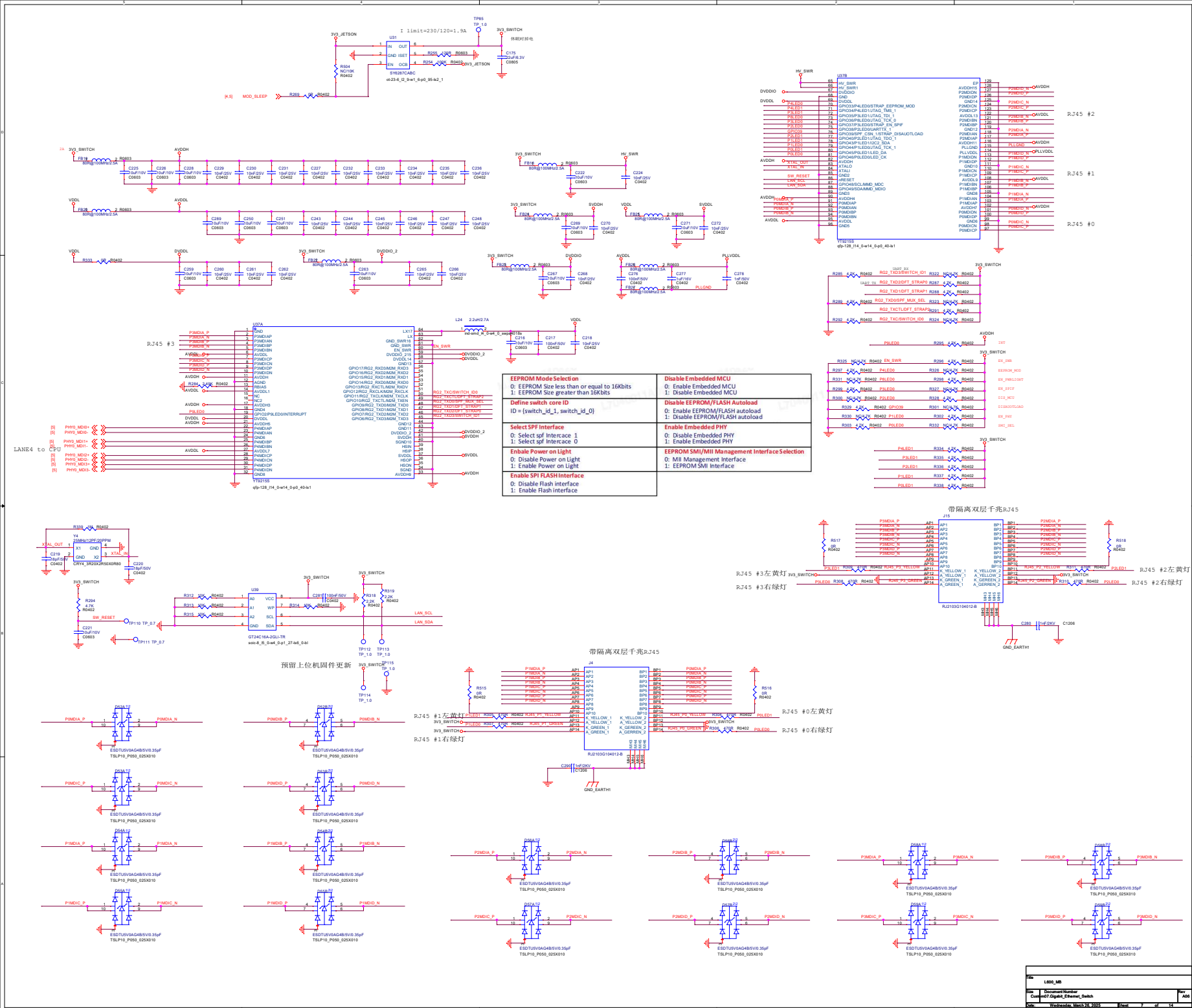
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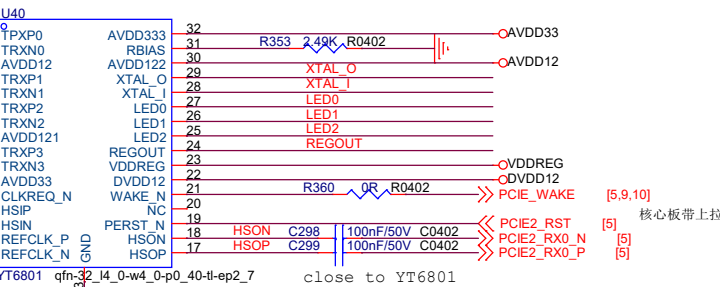
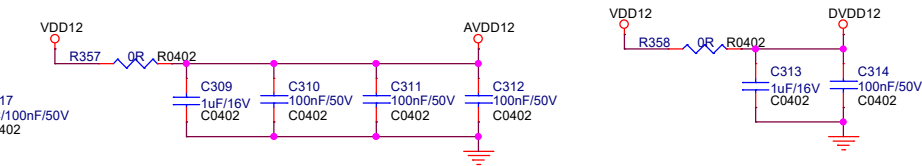
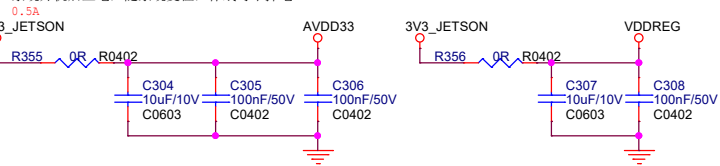


90 Ohm ±10%

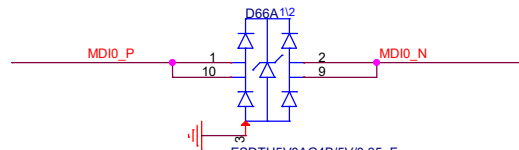
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系统开机后上电，随系统复位，休眠时不掉电



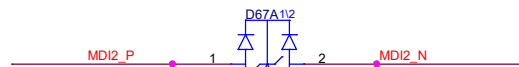
100 Ohm $\pm 10\%$
GEN1



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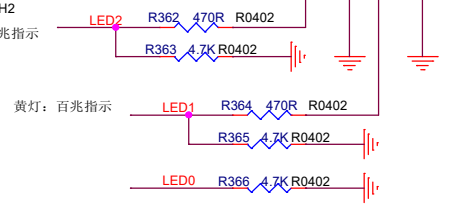
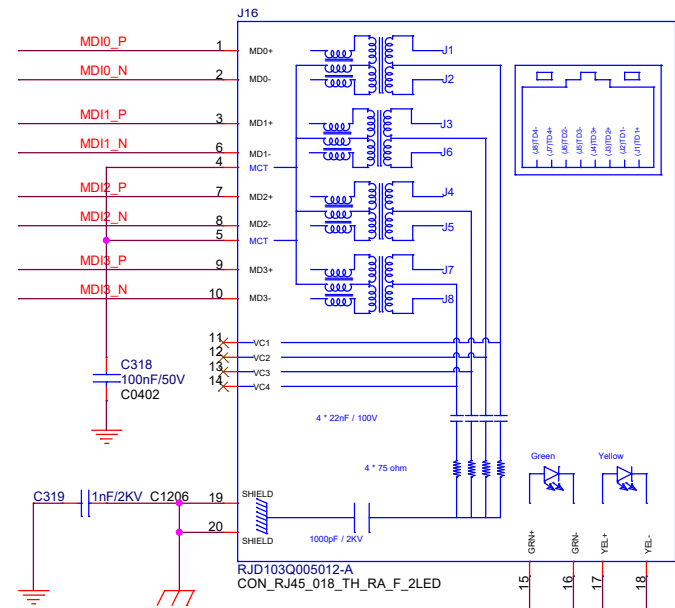
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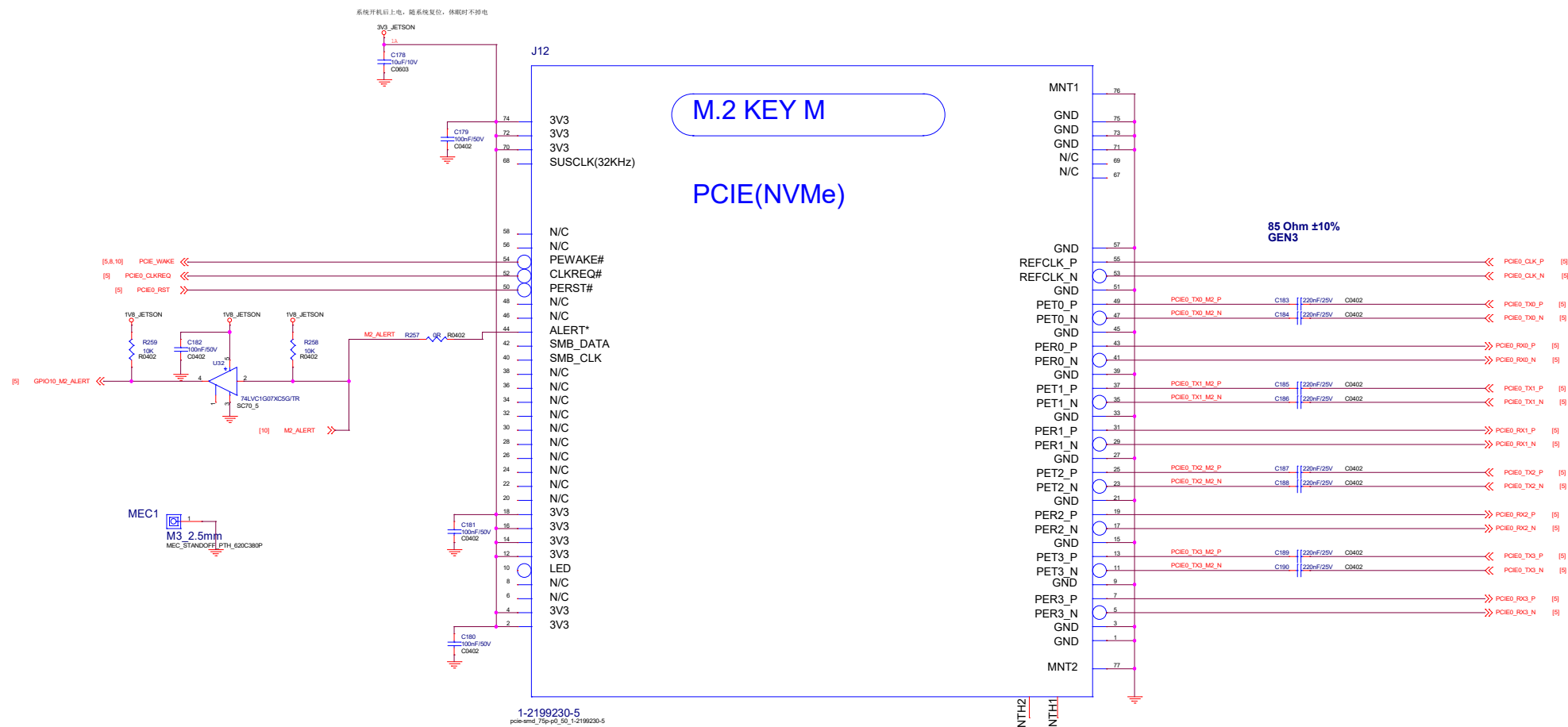
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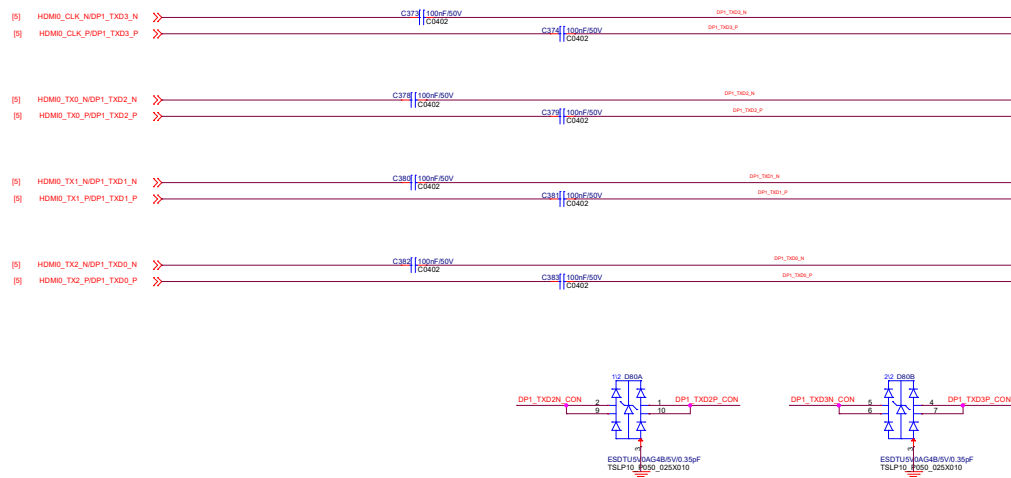
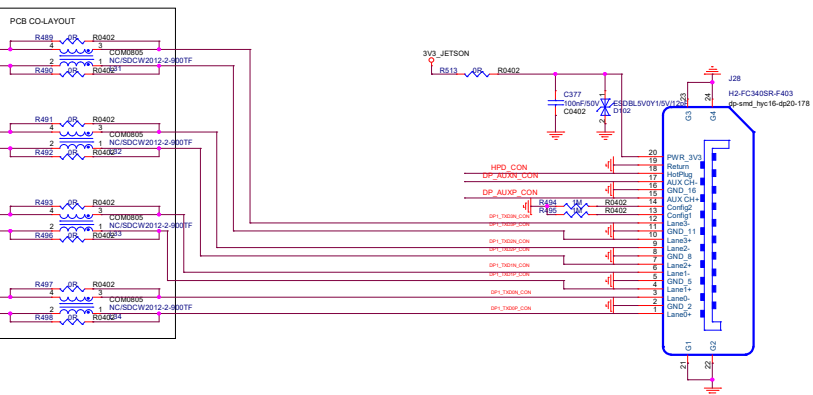


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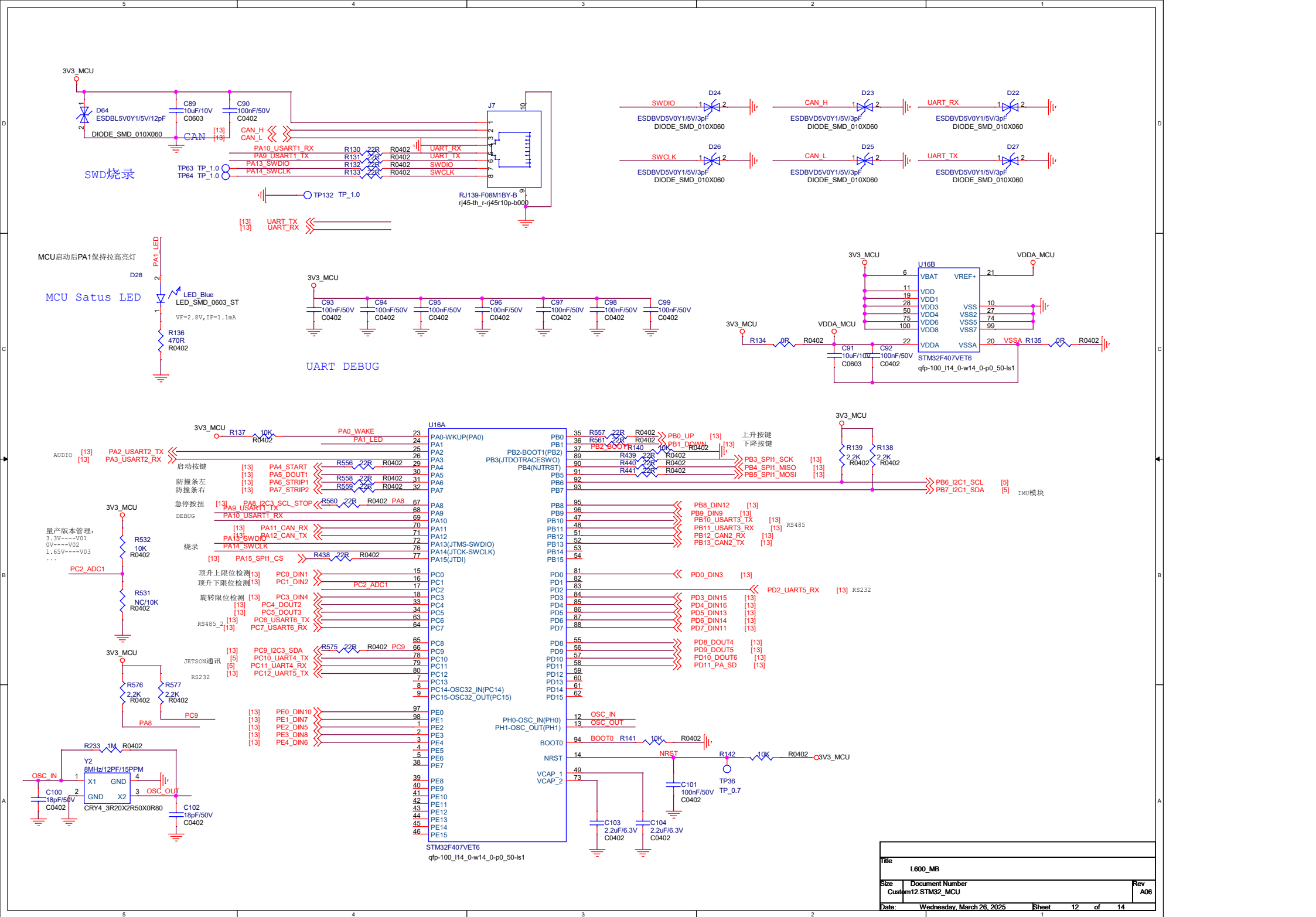


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| B | 08.PCIE to Gigabit | A06 |
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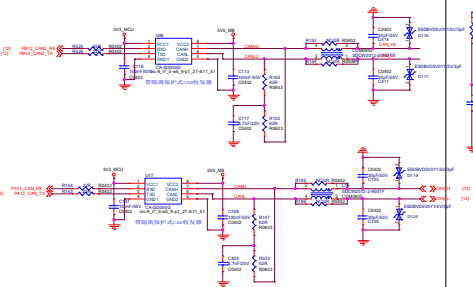




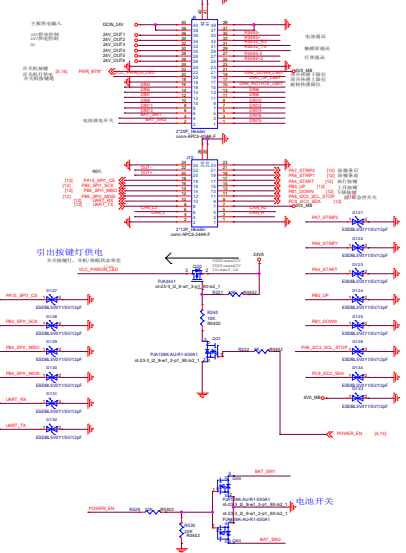
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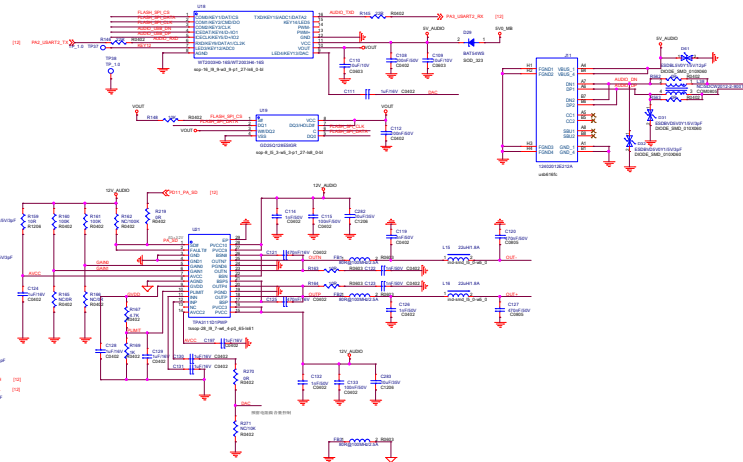
CAN x2



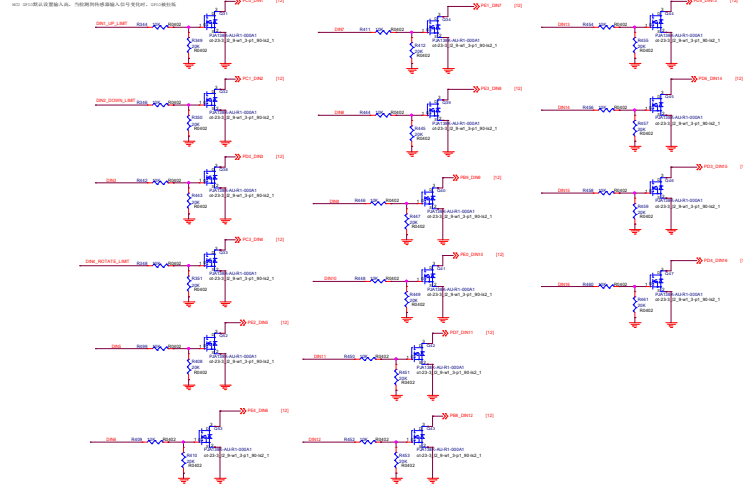
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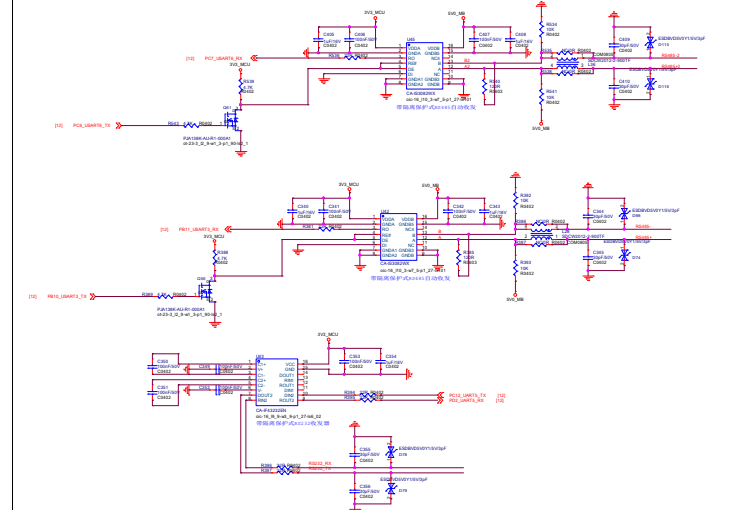
Audio喇叭



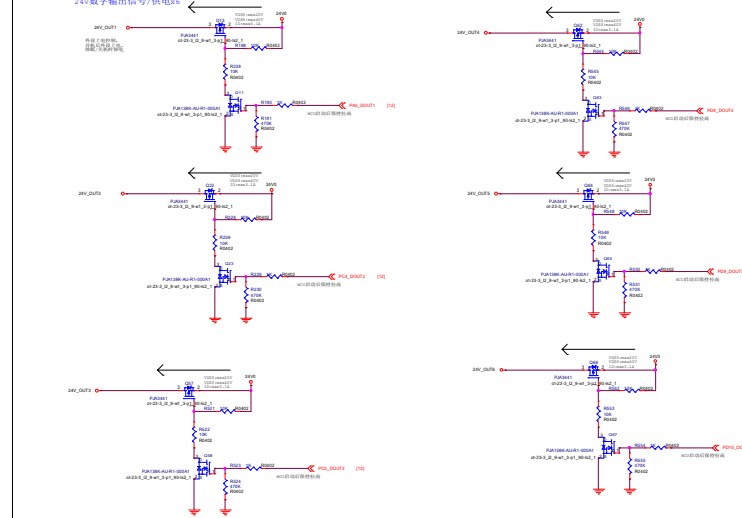
传感器输入检测x16



COM1 RS485x2+RS232x1



24V数字输出信号/供电x6



| | |
|---------|----------|
| 图例 | 说明 |
| 1. 元件符号 | 按国家或行业标准 |
| 2. 元件参数 | 按实际标注 |
| 3. 元件位置 | 按实际标注 |
| 4. 元件数量 | 按实际标注 |

Module Power ON/OFF logic

