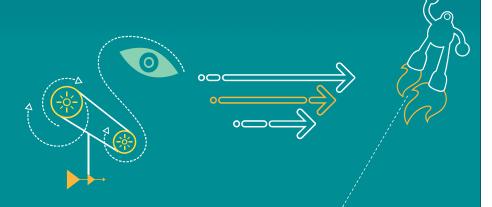
高通硬件基带技术期刊2016-3-2

QUALCOMM°

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Revision History

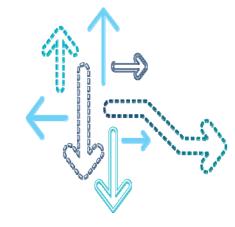
| Revision | Date | Description |
|----------|----------|-----------------|
| Α | Mar 2016 | Initial release |

Note: There is no Rev. I, O, Q, S, X, or Z per Mil. standards.

Contents

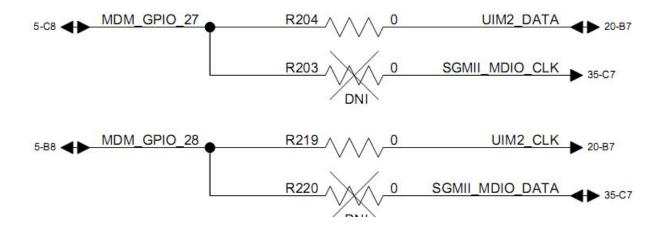
- Baseband
- audio
- PMIC and SMB

Baseband



SGMII/UIM2 coexist

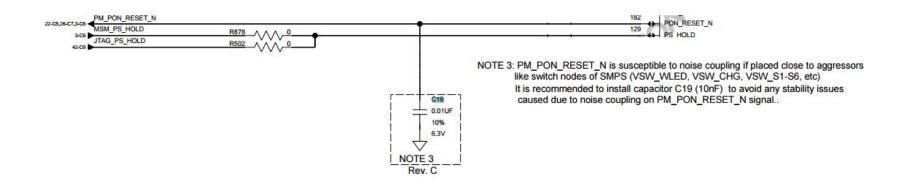
- 适用平台: MDM9x07/9628
- 问题描述:SGMII_MDIO_DATA, SGMII_MDIO_CLK 是SGMII专用控制接口,它们与UIM2_CLK,UIM2_DATA复用在 GPIO 28和GPIO 27两个管脚的转换功能上。
 - 在MiFi router/CPE 的设计中,无法同时支持SGMII和第二个USIM卡(UIM2)
 - 主USIM卡(USIM1) 不受影响



• 参考文档: 80-P1511-41, 80-P1511-1B

PM_PON_RESET_N 上的电容

- 适用平台: MSM8917/37
- 问题描述:在参考设计里面,PM_PON_RESET_N上面有一个10nF的电容位置,之前是NC的,目前建议客户把这个电容 贴上避免一些因为PM PON RESET N上的noise产生的稳定性问题。

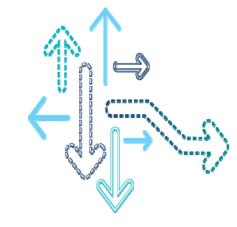


• 参考文档: 80-P2468-41 & 80-P2470-41

DDR 仿真

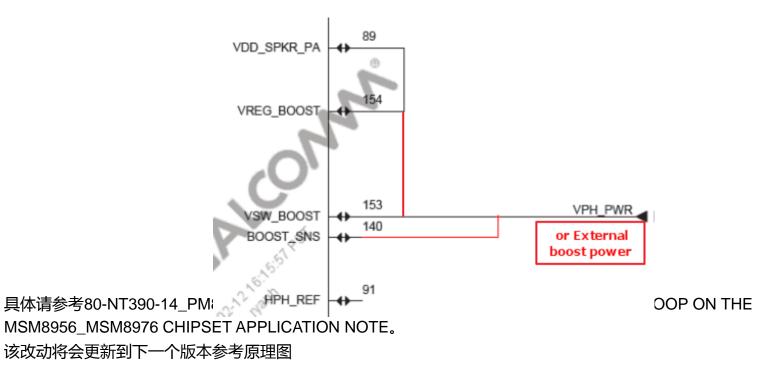
- 适用平台:所有做仿真的平台
- 问题描述: 当做完DDR仿真之后,QCOM会有一个对Rout/slew/MR3推荐的参数,请在拿到报告之后务必和软件驱动确认下设置是否一致。

Audio

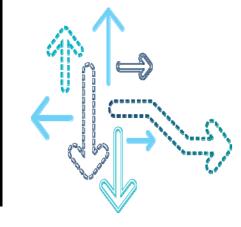


PM 5V CDC boost不用时的连接方法

- 适用平台: PM8952/PM8956/PM8937
- 问题描述:CDC 5V boost 不用的时候,如果BOOST_SNS pin悬空,在有干扰的时候,容易导致PM的REF_BYP有波动,从 而导致PM的输出电平有异常,甚至会导致部分MSM芯片烧毁。
- 推荐
- 1) 当PM的5v boost和speaker PA不用的时候,把BOOST SNS, VREG BOOST, VSW BOOST, and VDD SPKR PA接到 VPH PWR.
- 2) 当PM的5v boost不用,但是speaker PA使用的时候,把BOOST_SNS, VREG_BOOST, VSW_BOOST, and VDD_SPKR_PA接到VPH_PWR或者外部的boost电源。



PMIC



注意PMI的BATT_ID上并联电容的选择

■ 适用平台: PMI8952/PMI8937

■ 问题描述:如果在BATT_ID上有并联比较大的电容,容易导致电池type检测异常,甚至检测不到电池在位

• 推荐: 参考PMI datasheet, 根据ID电阻的值选择相对应的并联电容。

| Battery ID capacitor (optional) | | | | | | | |
|---|------------------------------|--|-------|----|----|--|--|
| Optional capacitor in parallel with battery | BATT_ID_res = 1 k to 15 k | | 10 | 47 | nF | | |
| טו | BATT_ID_res = 19 K to 140 k | | 4.7 | 10 | nF | | |
| | BATT_ID_res = 240 k to 450 k | | 0.470 | 1 | nF | | |

具体请参考

80-NT391-1 PMI8952 POWER MANAGEMENT IC DEVICE SPECIFICATION 80-P2563-1_PMI8937 POWER MANAGEMENT IC DEVICE SPECIFICATION