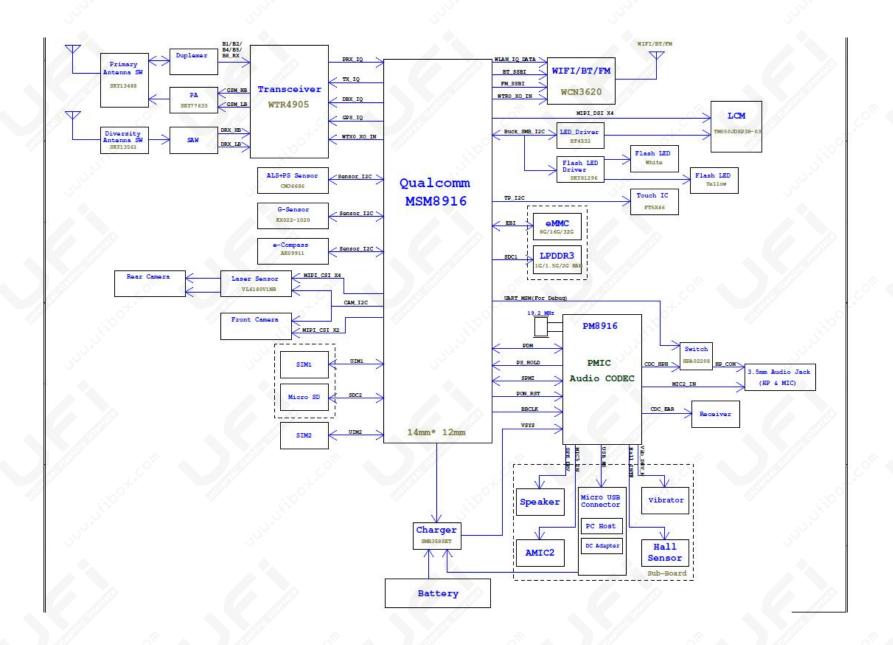
ZE550KL

Introduction & Training

2015/6/8

ZE550KL Outline

- System Block Diagram
- Component and PCB Board Introduction
- Power On Sequence
- Equipment Requirement
- Trouble Shooting Guide



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Outline Introduction (TOP)



FRONT CAMERA

Outline Introduction (BOT)



Outline Introduction (Take off the Back Cover)

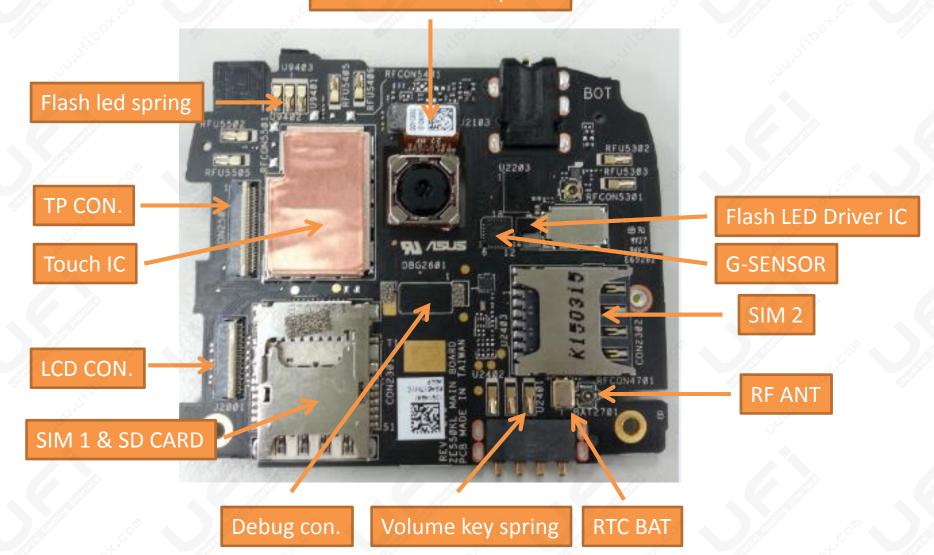
Sim 1 & SD Card combo



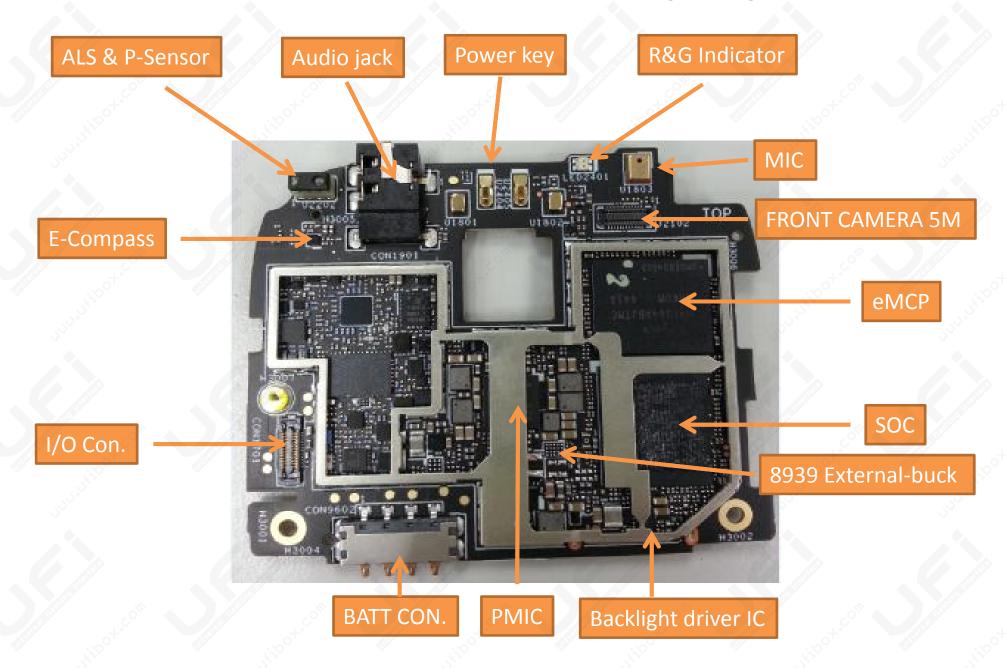
Sim 2

PCB Board Introduction (BOTTOM)

REAR CAEMRA 8M/13M



PCB Board Introduction (TOP)



ZE550KL Outline

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- Debug Skill

POWER ON SEQUENCE

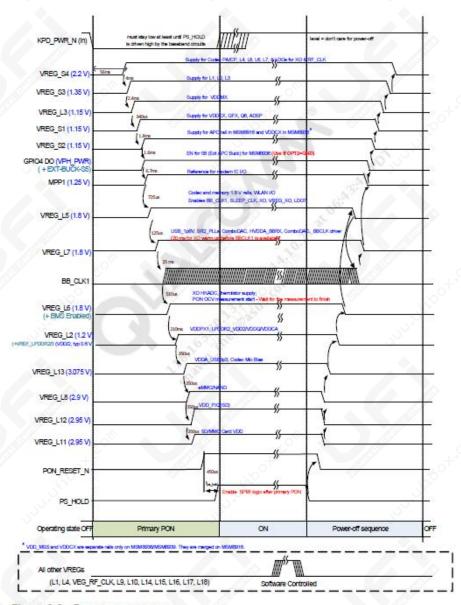


Figure 3-8 Poweron sequence

ZE550KL Outline

- System Block Diagram
- Component and PCB Board Introduction
- Power On Sequence
- Trouble Shooting Guide
- Debug Skill

Trouble Shooting Guide

- 1. 无法开机
- 2. 黑屏一可开机
- 3. Camera异常
- 4. p-sensor异常
- 5. E-compass异常
- 6. SD卡异常
- 7. Sim卡异常
- 8. TP 异常

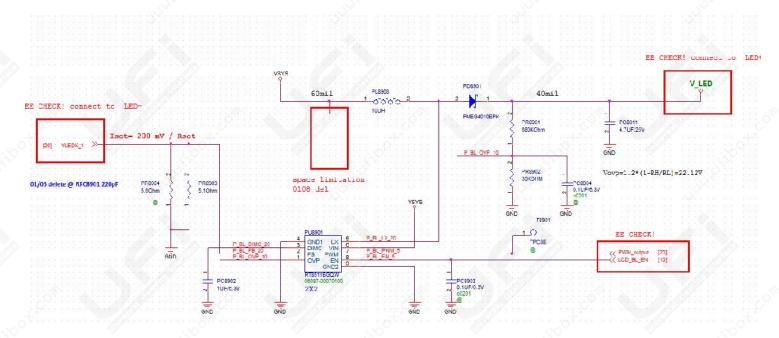
Trouble Shooting Guide 无法开机

- 接上NB, 打开装置管理员, 确认是否有抓到device;
- 量测 buck power是否起电(S1,S2,S3,S4)
 - (1) buck power不起电,检查PMICIC,以及周边零件制程;
 - (2) buck power起电,量测PS_hold信号,看是否上电并稳定高电平不掉;
- 若ps_hold上电,尝试烧录image,无法烧录则需检查eMCP是否有Mount 完整
- 若接近0 ohm,确认以上Power是否发生对地short或者是有零件打反;

Trouble Shooting Guide

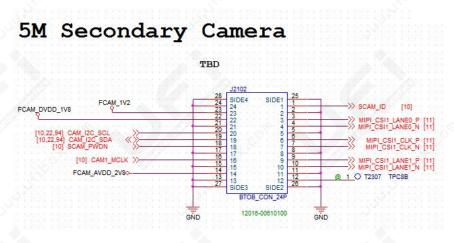
黑屏—可开机

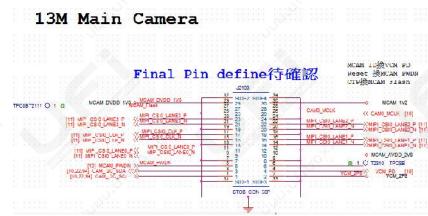
- 接上NB,打开装置管理员,确认有抓到device;
- 交换panel验证
- 若黑屏有背光,检查LCM mipi, reset信号;
- 若黑屏无背光; 确认PU8901极性正确;
- 确认V_LED电压是否正常, Boot 後> 5V;
- 确认PWM_OUT信号是否有输出;
- 确认LCD_BL_EN是否为high;



Trouble Shooting Guide CAMERA异常

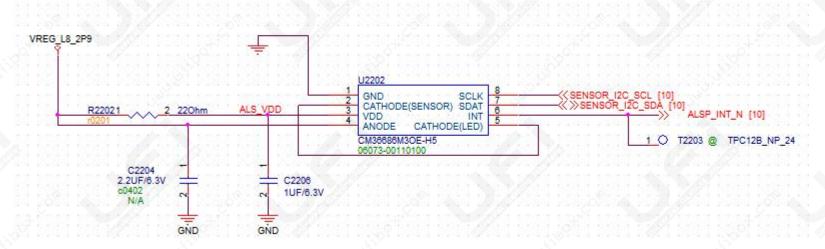
- 目检camere FPC;
- 交换camera module验证;
- 确认FCAM_DVDD_1V8, FCAM_AVDD_2V8,FCAM_1V2皆有电;
- 若FCAM_1V2没电,确认CAU2102;





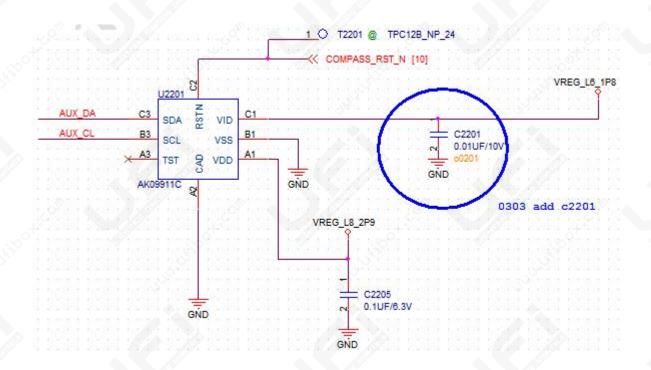
Trouble Shooting Guide P-Sensor/Light Sensor异常

- 取下rubber, 裸板对着空气测试P-sensor是否好使; 若OK, 重新组装 rubber;
- 若不OK, 确认VREG_L8_2P9电压
- 确认I2C有通



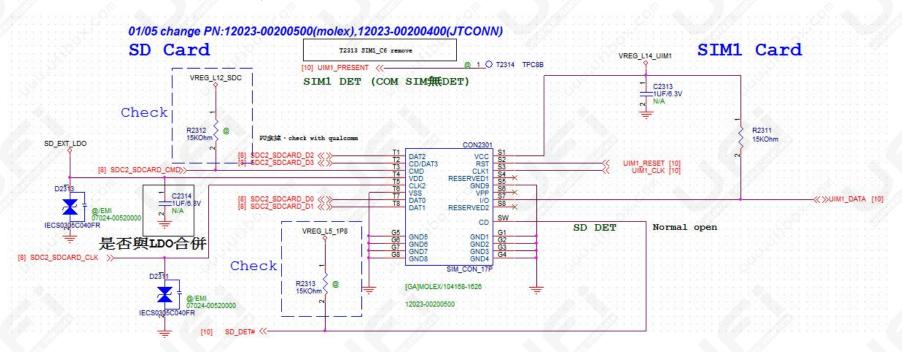
Trouble Shooting Guide e-compass异常

- 确认VREG_L6_1P8与VREG_L8_2P9皆有电
- 确认SENSOR_I2C有通



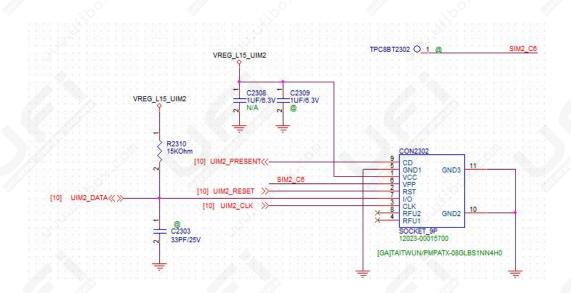
Trouble Shooting Guide SD卡异常

- 1. 目检,有无空焊;
- 2. 插入SD card时,SD_DET#是否拉low;
- 3. 確認SD_EXT_LDO电压是否为3V, 若无电压, 檢查U2301;
- 4. 若有3V輸出,檢查DATAO~3/CMD/CLK;



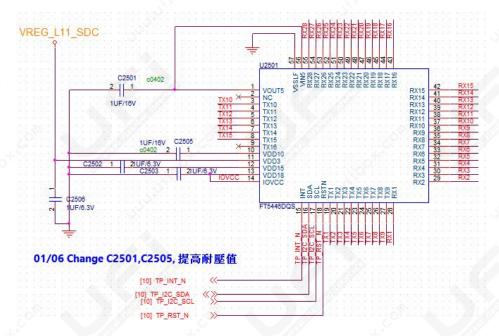
Trouble Shooting Guide SIM卡异常

- 1. 目检,有无空焊;
- 2. For sim1:确认VREG_L14_UIM1电压;
- 3. For sim2: 插入SIM2 card时,UIM2_PRESENT是否拉low; 确认VREG_L15_UIM2电压; UIM2_RESET是否拉high;



Trouble Shooting Guide TP 异常

- 交换touch panel验证;
- 确认VREG_L11_SDC是否有电压;
- 确认TP_RST_N是否为high;
- 确认TP_INT_N是否有high-low变化;



Thanks!

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