

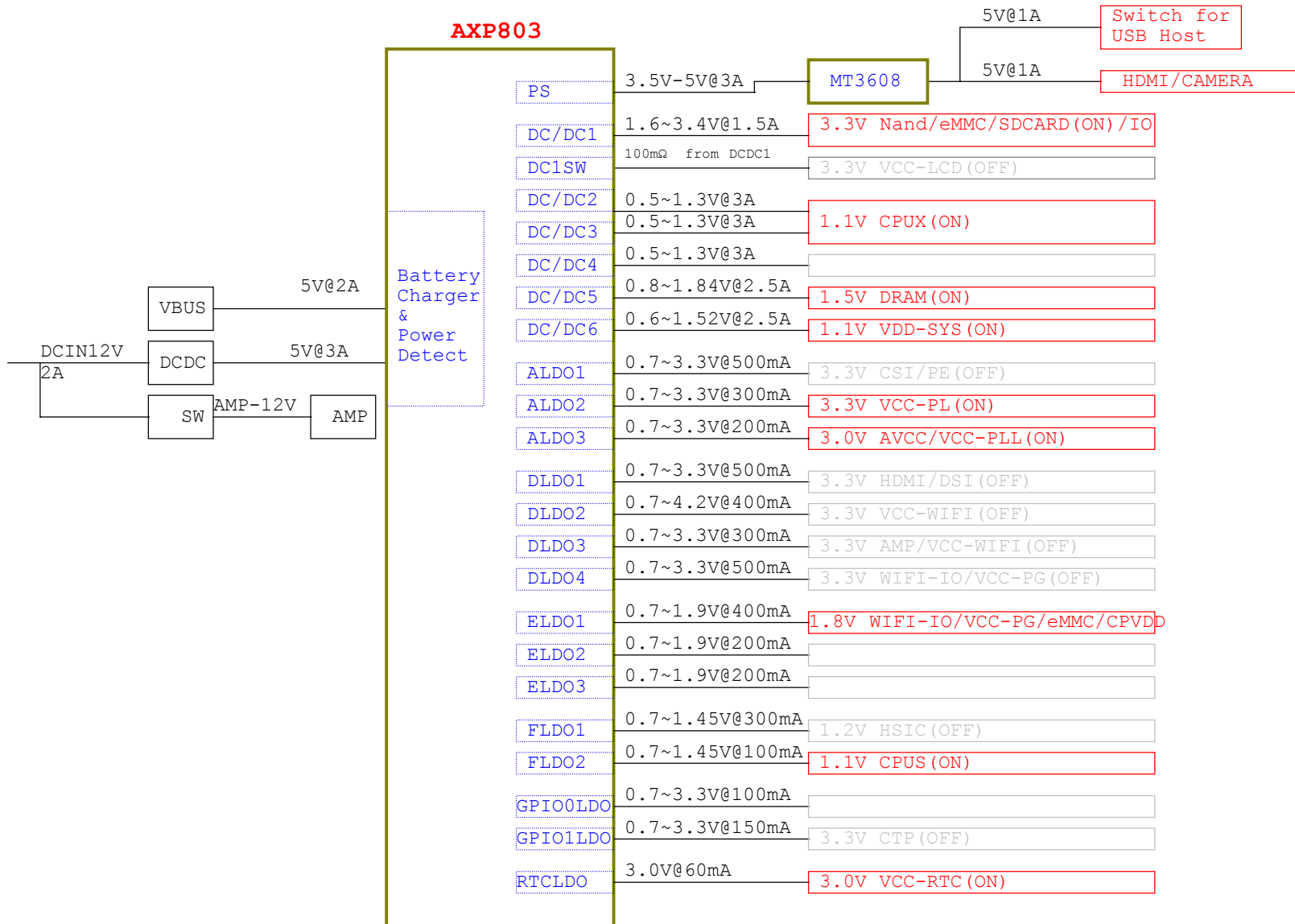
VERSION HISTORY

Index:

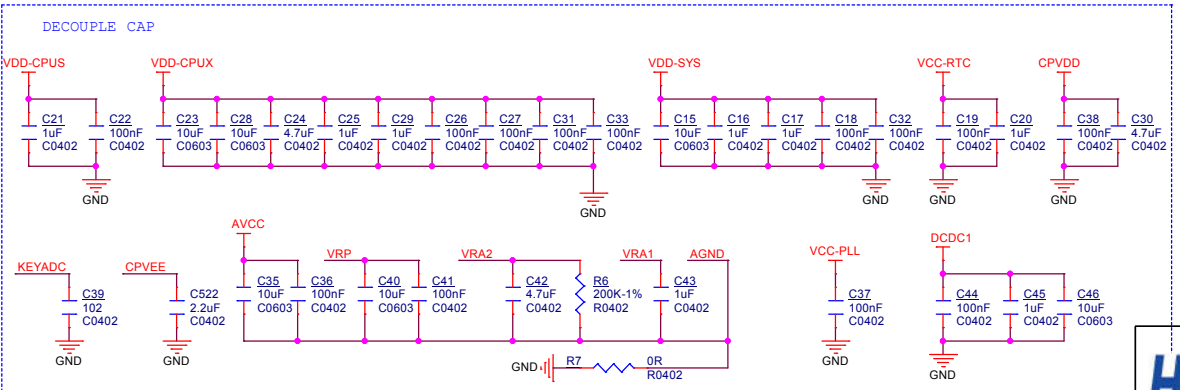
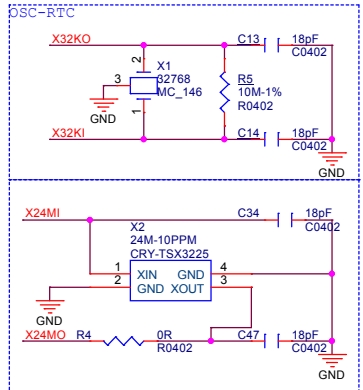
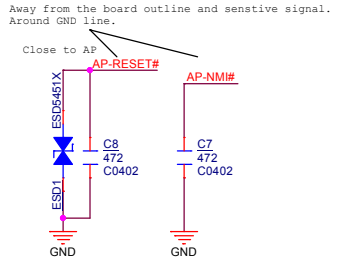
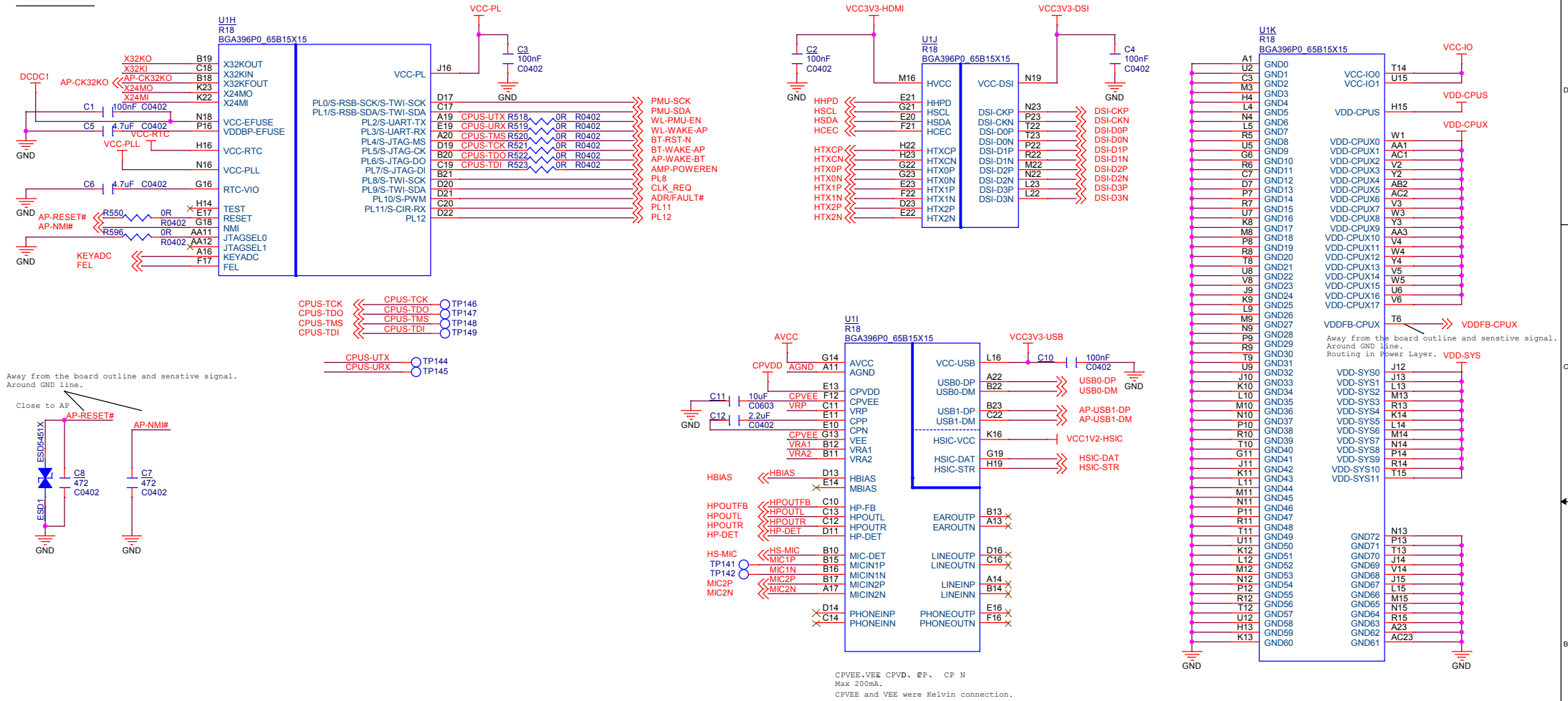
- R18-SPEAKER-DEV
- 01 VERSION HISTORY
- 02 POWER TREE
- 03 DDR3 16X2
- 04 CPU
- 05 POWER1
- 06 POWER2
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- 08 MSIC
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- 10 HDMI
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Revision	Description	Date	Drawn	Checked	Approved
Ver 0_1	Releas version	2018/5/10	LIN	Lee	GUO
Ver 0_2	Add diode D14 to control DCIN-12V current flow direction.	2018/9/27	LIN	Lee	GUO
Ver 0_2	Add a 2 pin male heade J308 to provide extra 12V output for 40 pin low profile female 2mm receptacle.	2018/9/27	LIN	Lee	GUO
Ver 0_2	The interface 60pin is updated to a 1.8V 100K pull up.	2018/9/27	LIN	Lee	GUO
Ver 0_2	GPIO-A increase voltage conversion circuit	2018/9/27	LIN	Lee	GUO
Ver 0_2	Add TP test point for UART2	2018/9/27	LIN	Lee	GUO
Ver 0_2	Remove NAND for EMMC	2018/9/27	LIN	Lee	GUO

POWER TREE



CPU



HiChips Technology Co., Ltd

Design Name: **<HiChips-Parrot Board>**

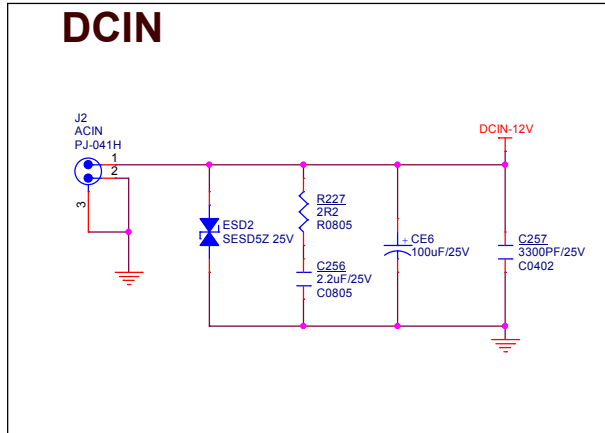
Size A3 Page Name: **CPU**

Date: **Thursday, November 22, 2018** Sheet **4** of **15**

Rev: **Ver. 2**

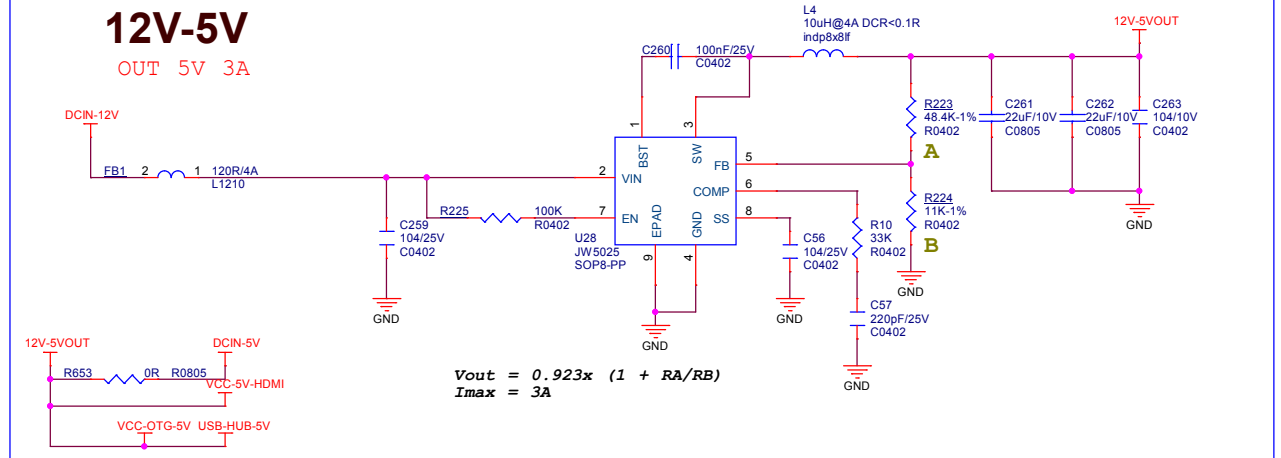
POWER1

DCIN

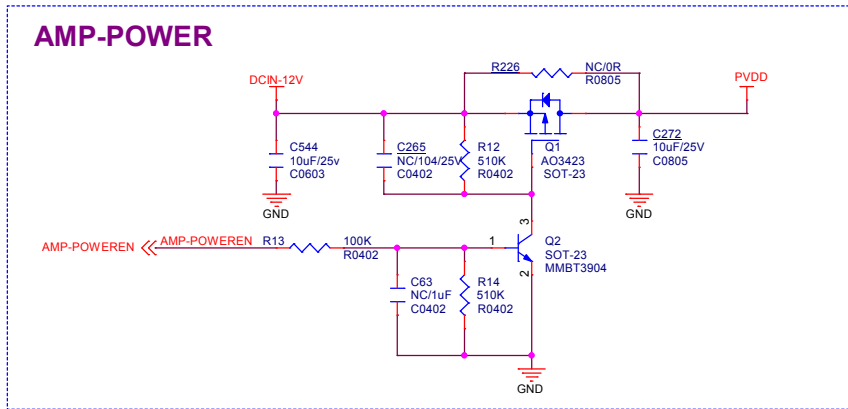


12V-5V

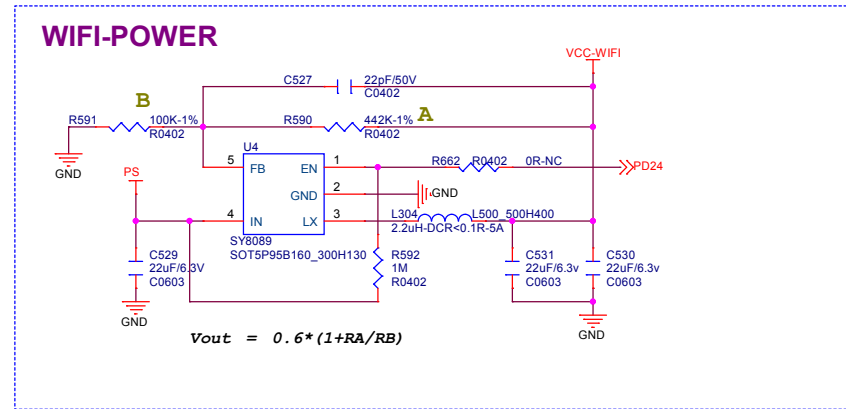
OUT 5V 3A



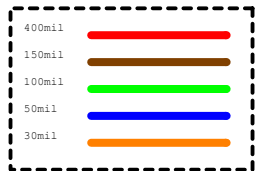
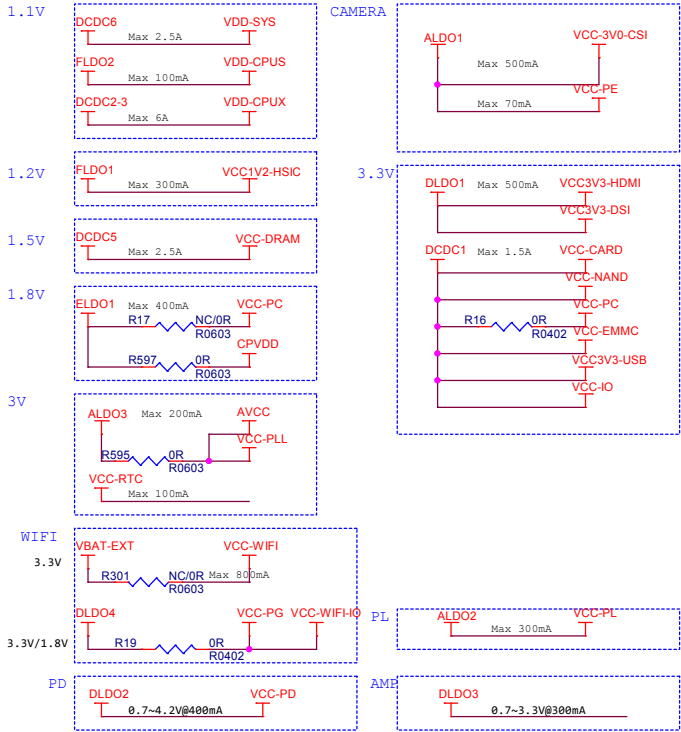
AMP-POWER



WIFI-POWER

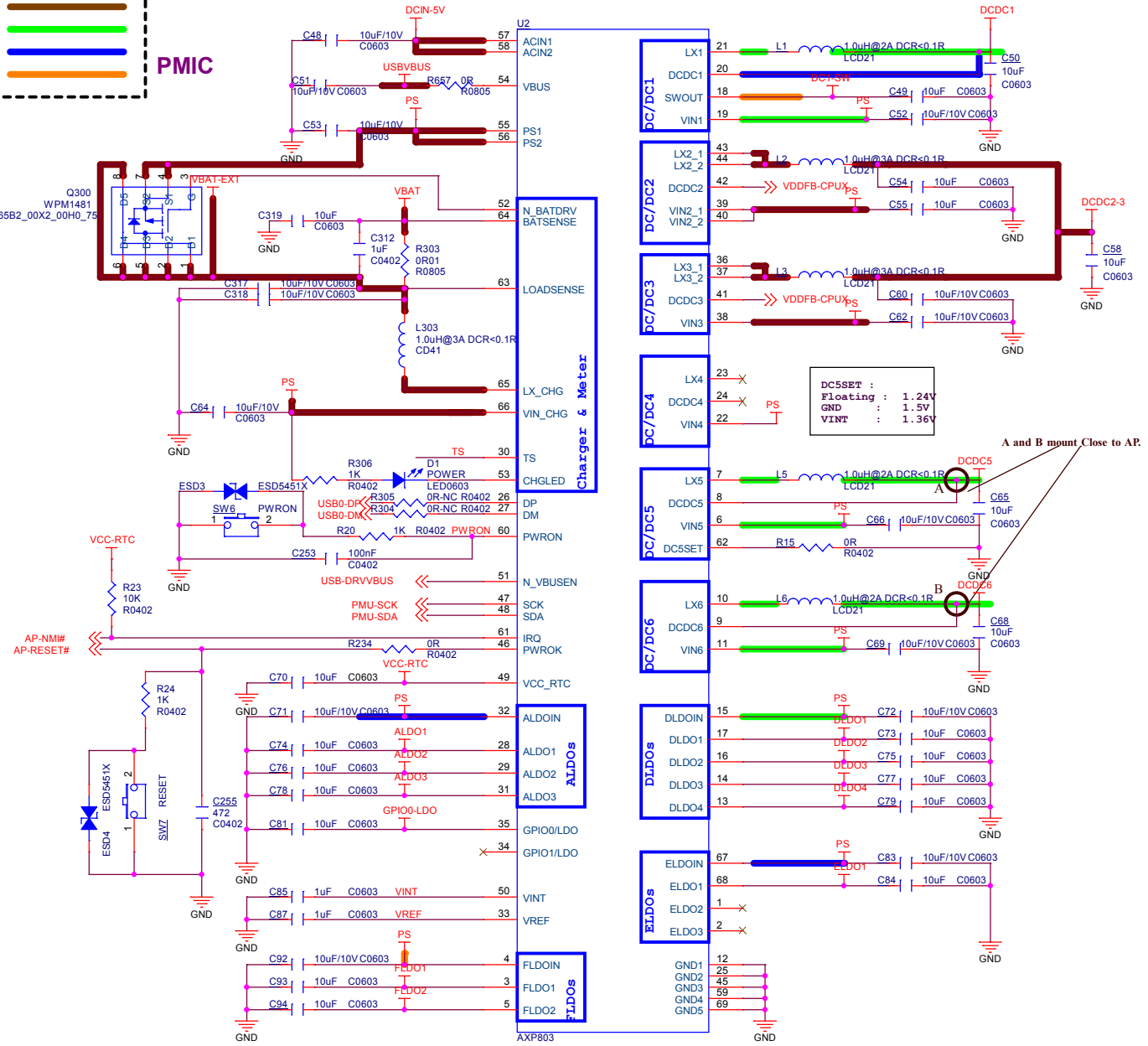


POWER



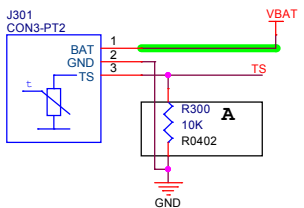
PMIC

Q300 WPM1481 DFN8P0_65B2_00X2_00H0_75

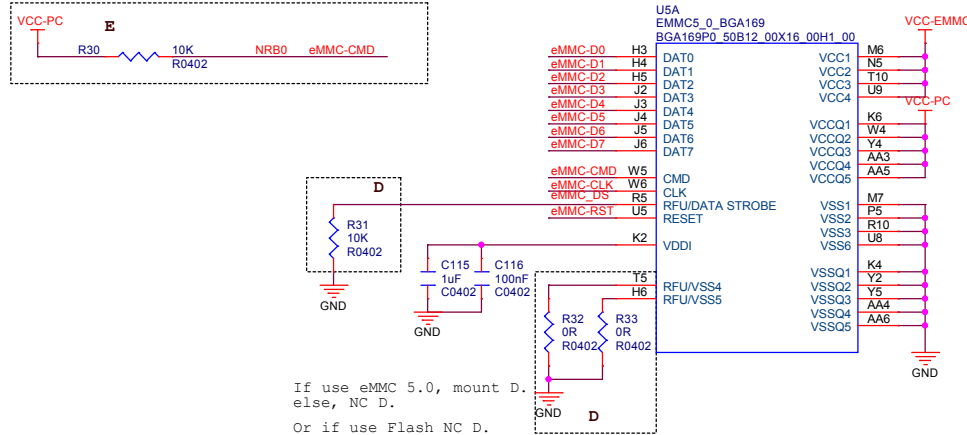
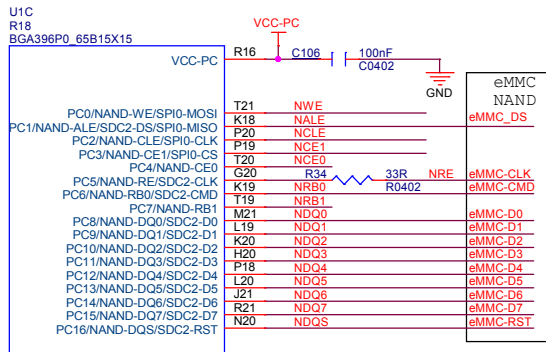


BAT

IF use the battery temperature sensor: A=NC otherwise: A=10k

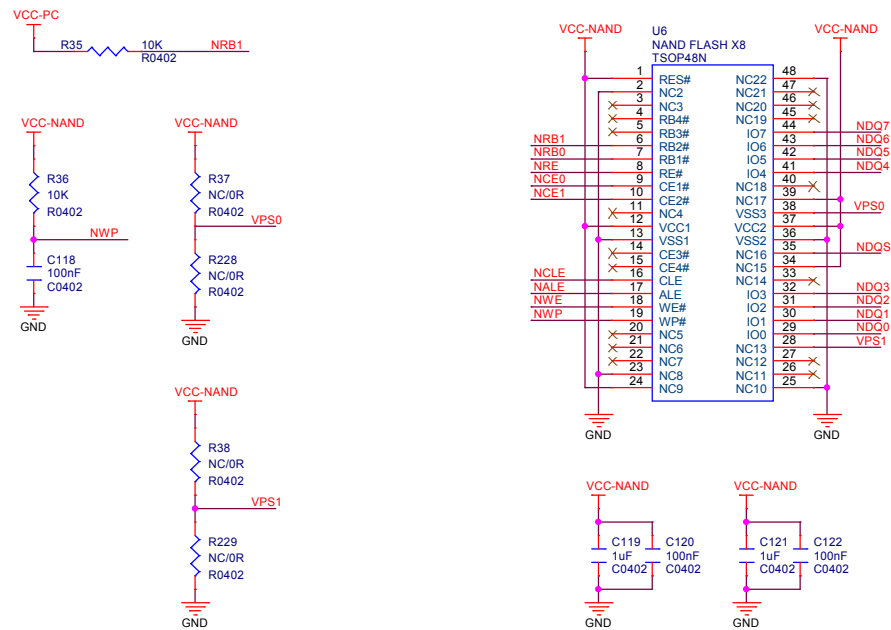


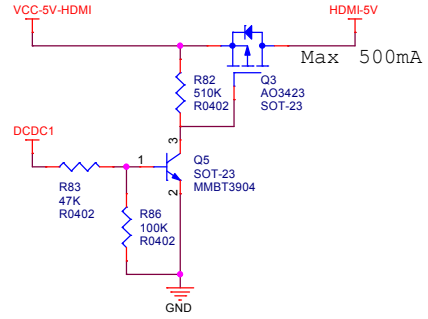
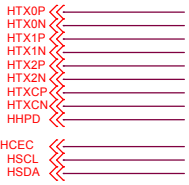
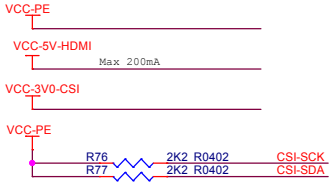
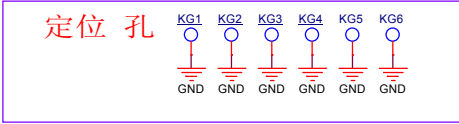
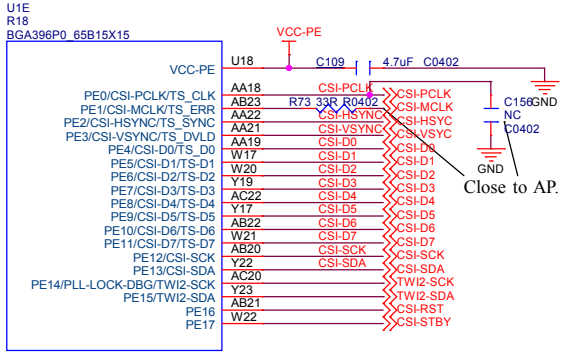
NAND/eMMC



Both eMMC NAND and first TSOP NAND layout together
1 NAND : [1 CE or 2 CE]

The first NAND FLASH

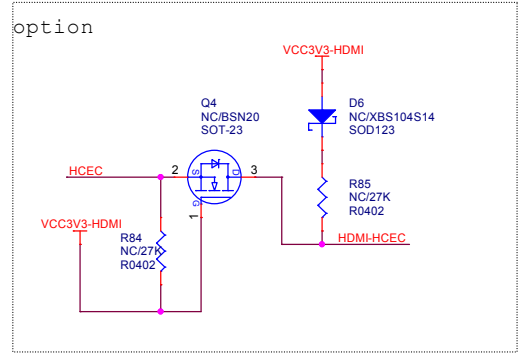
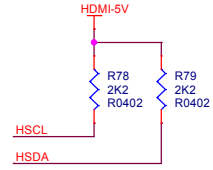




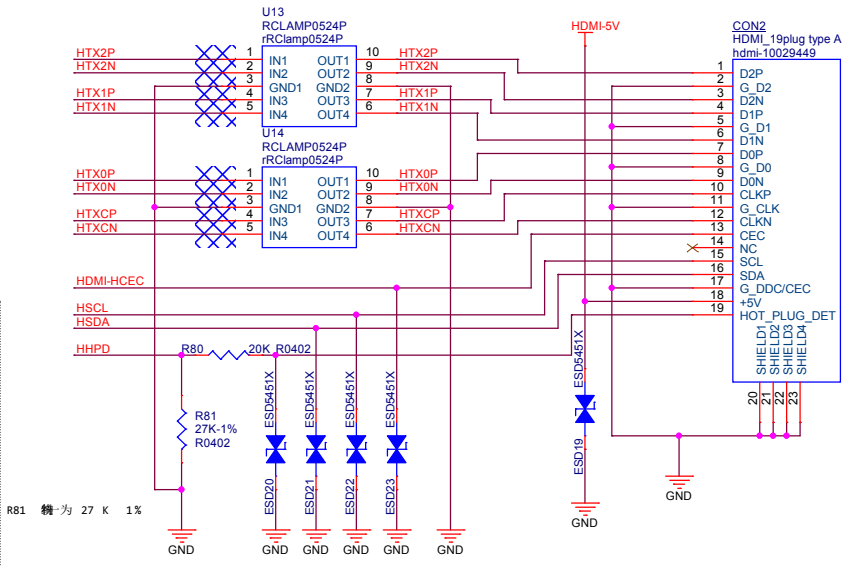
HDMI



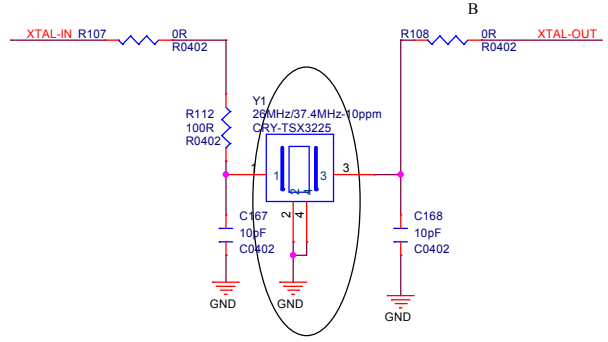
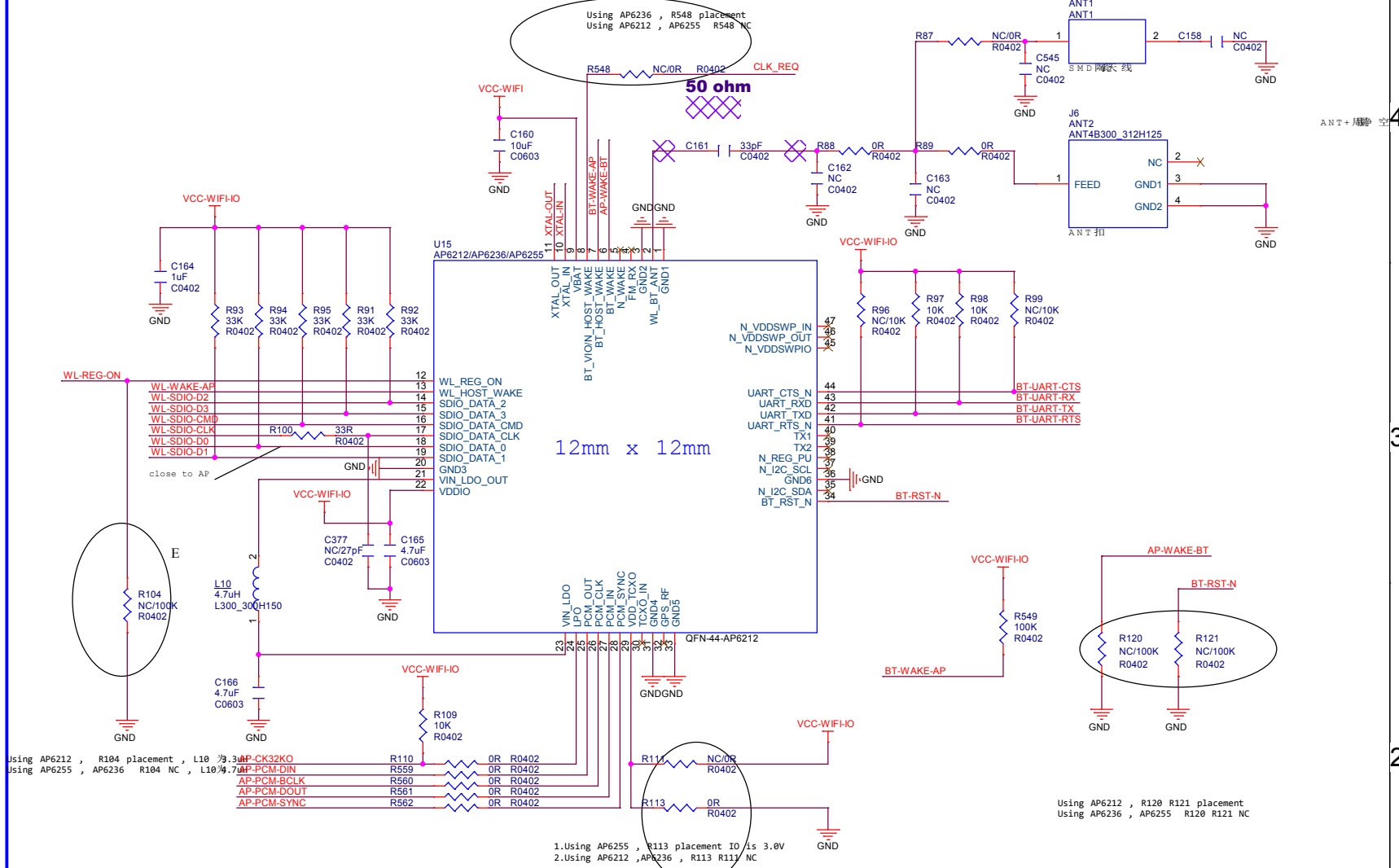
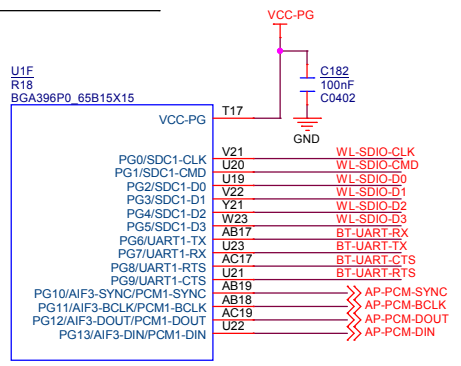
Differential pairs
Z0= 100 ohm



防止接入 HDMI时,在系统待机状态下向系统倒灌电;
若需要CEC功能则该部分电路 HDMI-CEC悬空。



WIFI+BT

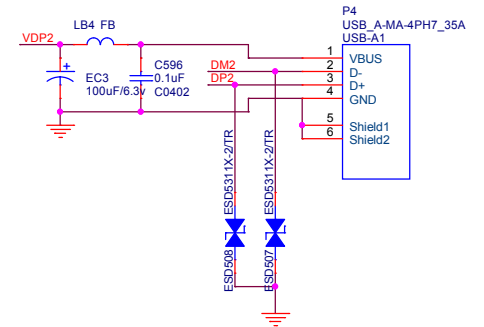
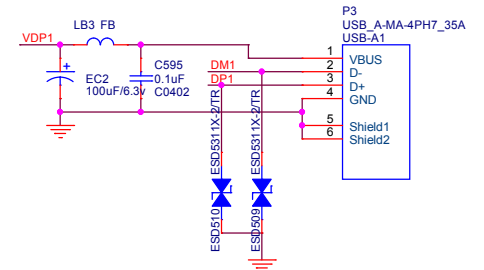
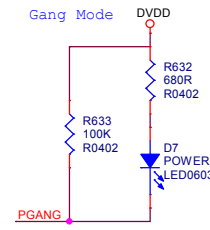
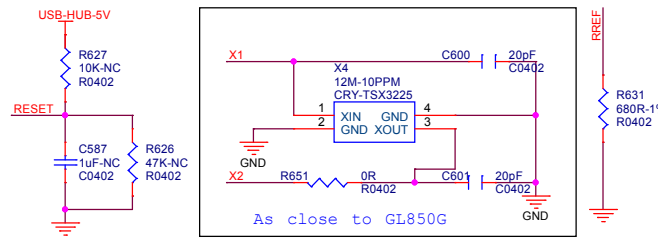
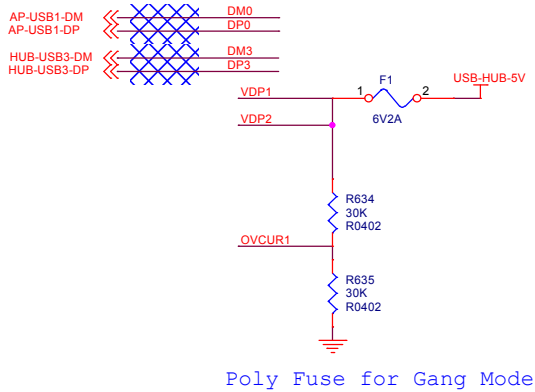
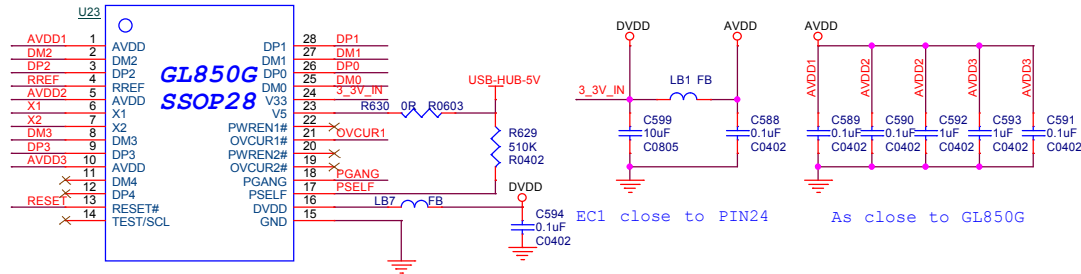


Note:
Using AP6212, AP6236, Y1 change to 26M
Using AP6255, Y1 change to 37.4M

USB HUB

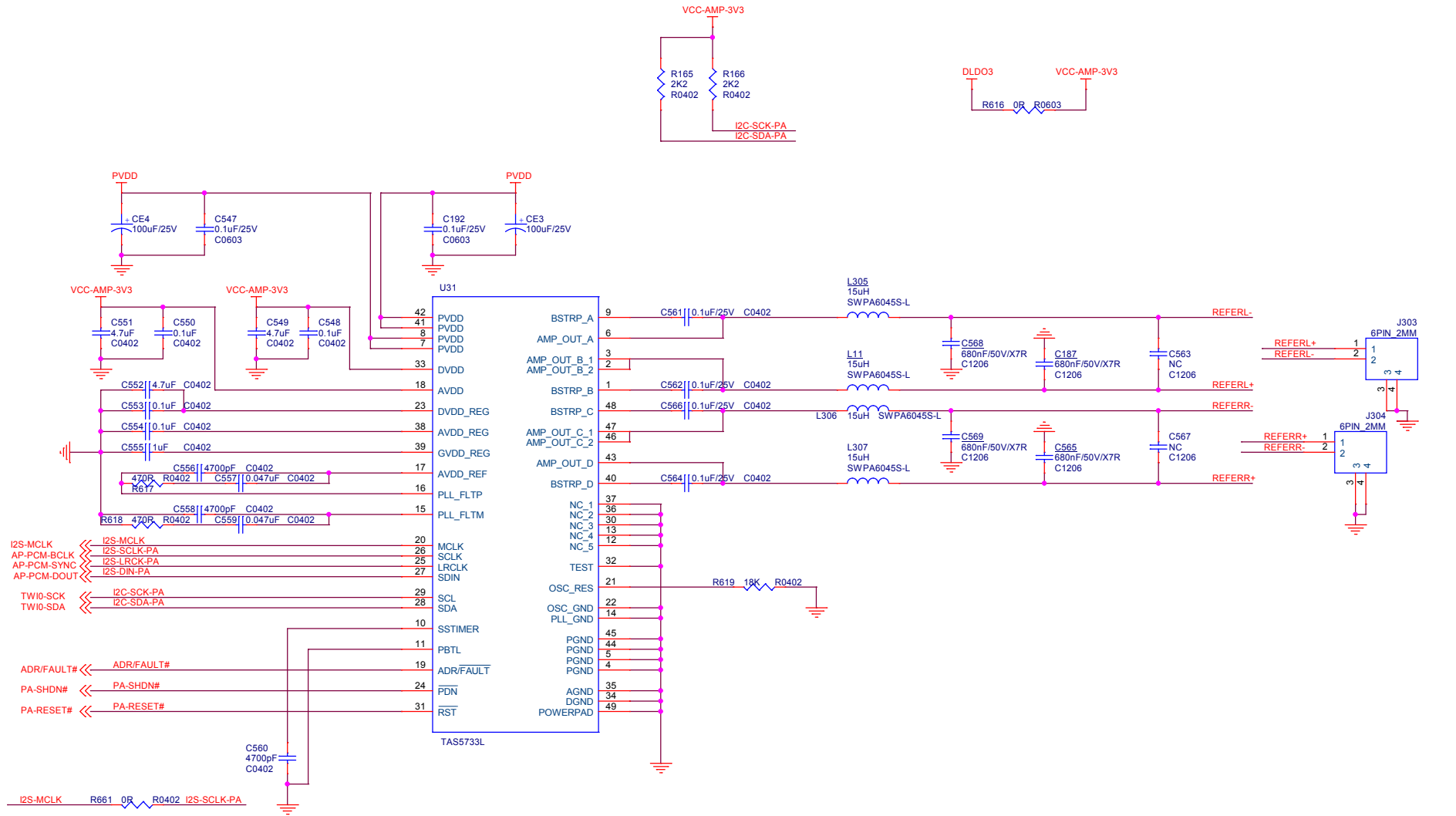
GL850G-22 not support power switch

R1: Mount -> Internal regulator
Remove -> External regulator

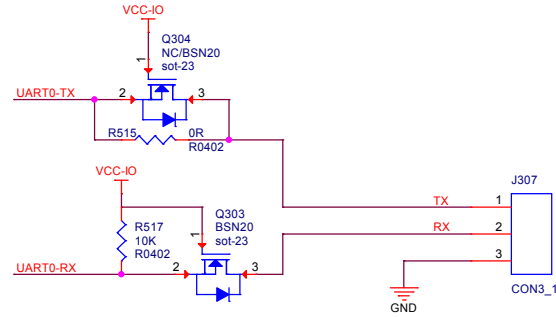
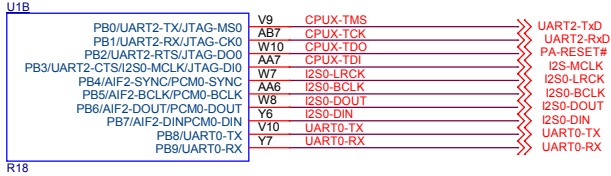


AMP

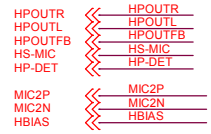
AEC



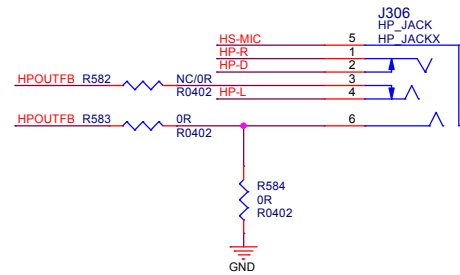
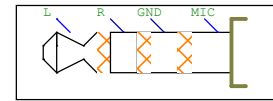
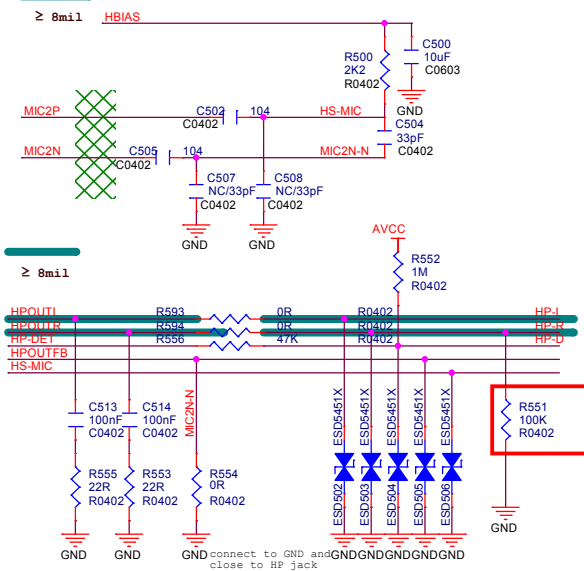
DEBUG



Headphone



HP_JACK



Notice:
 1: 耳机插座插脚, 插入耳机座子 pin1 与 pin2 脚, 则 R551 100k 电阻短路。
 2: 耳机插座插脚, 插入耳机座子 pin1 与 pin2 脚断开, 则 R551 贴 100k

BLOCK

