

54321

# VERSION HISTORY

D

C

B

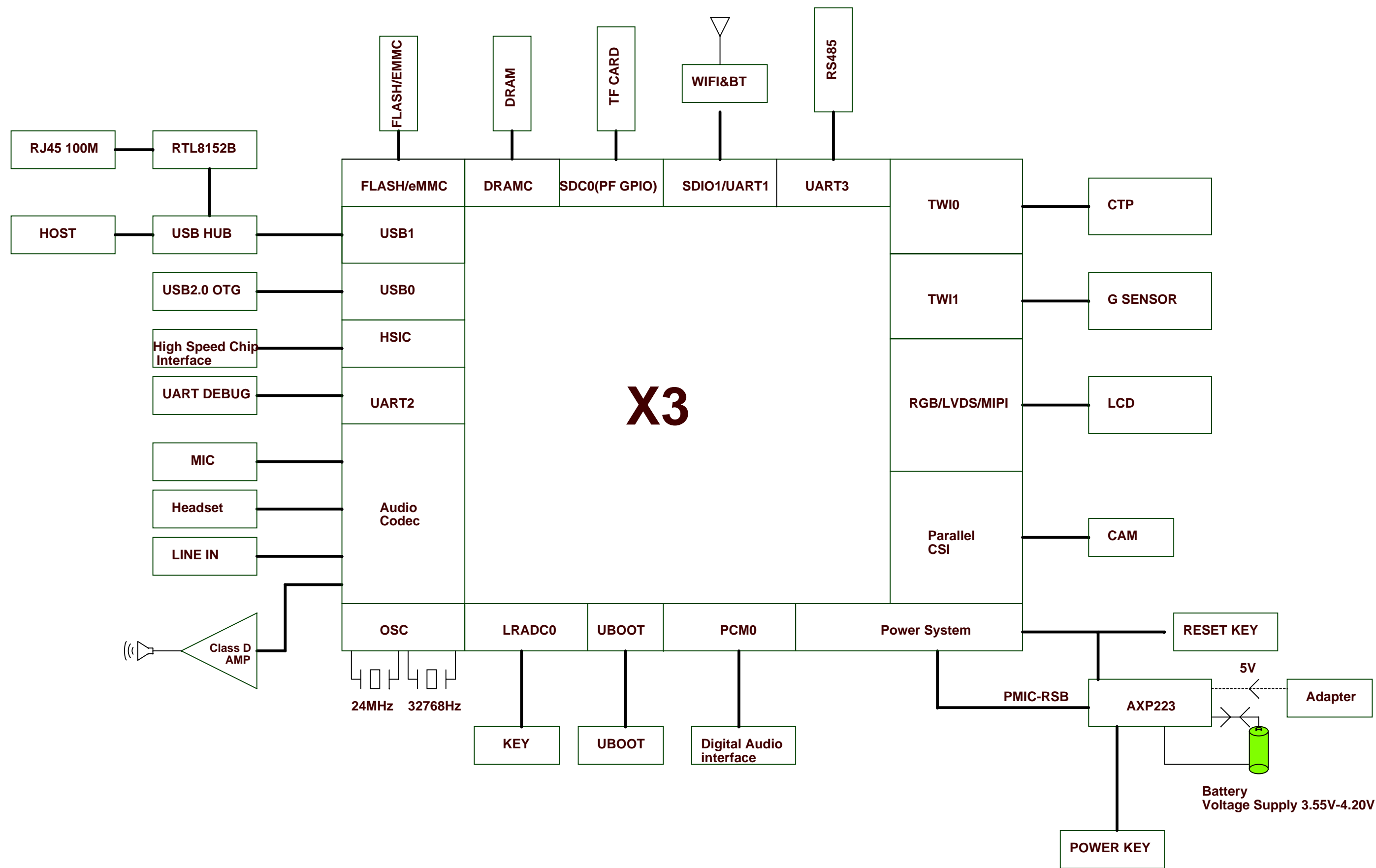
A

## Index:

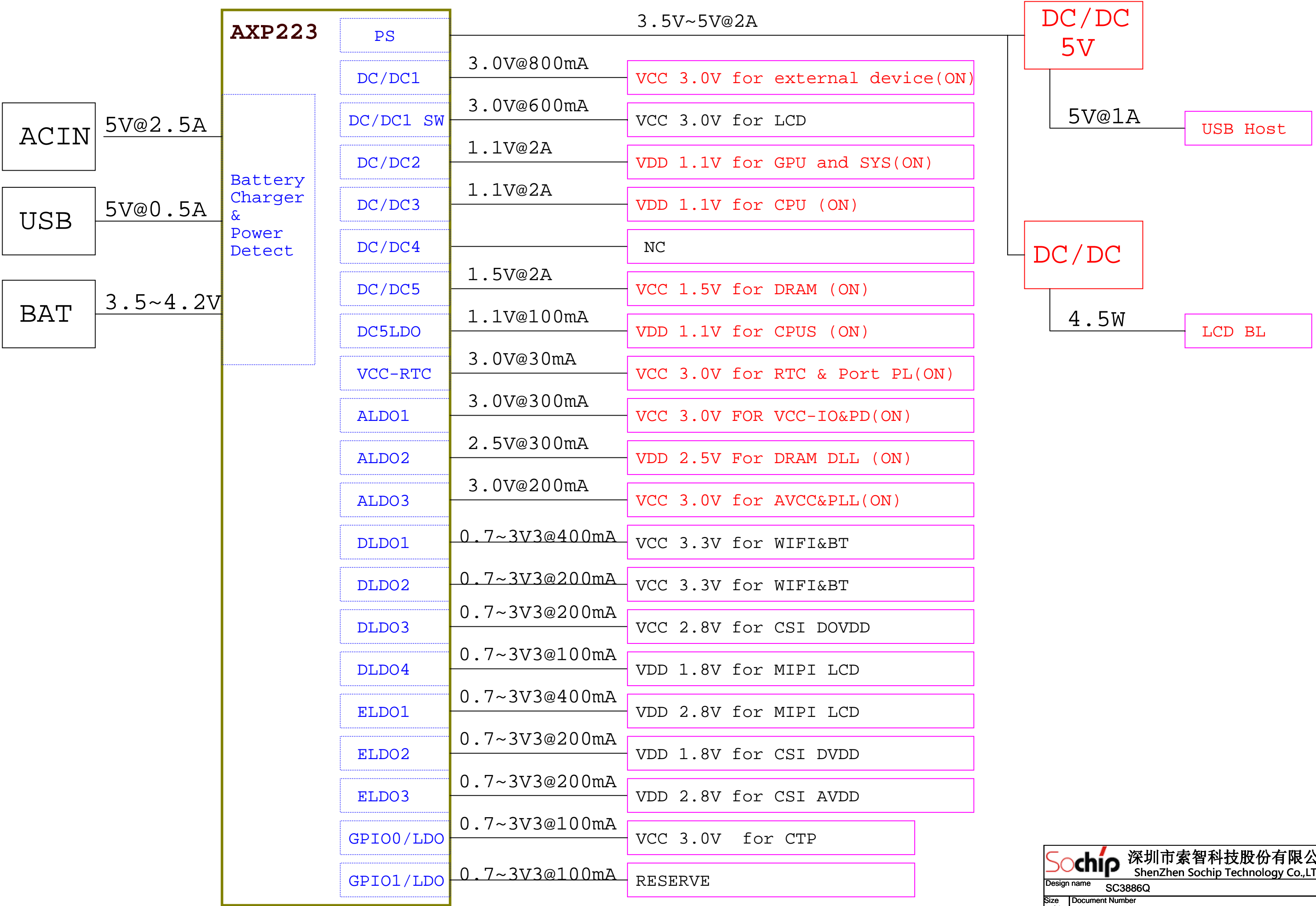
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Revision	Description	Date	Drawn	Checked	Approved
Ver 00	First release	2019-8-26	zsc		

BLOCK DIAGRAM



POWER TREE



54321

# GPIO ASSIGNMENT

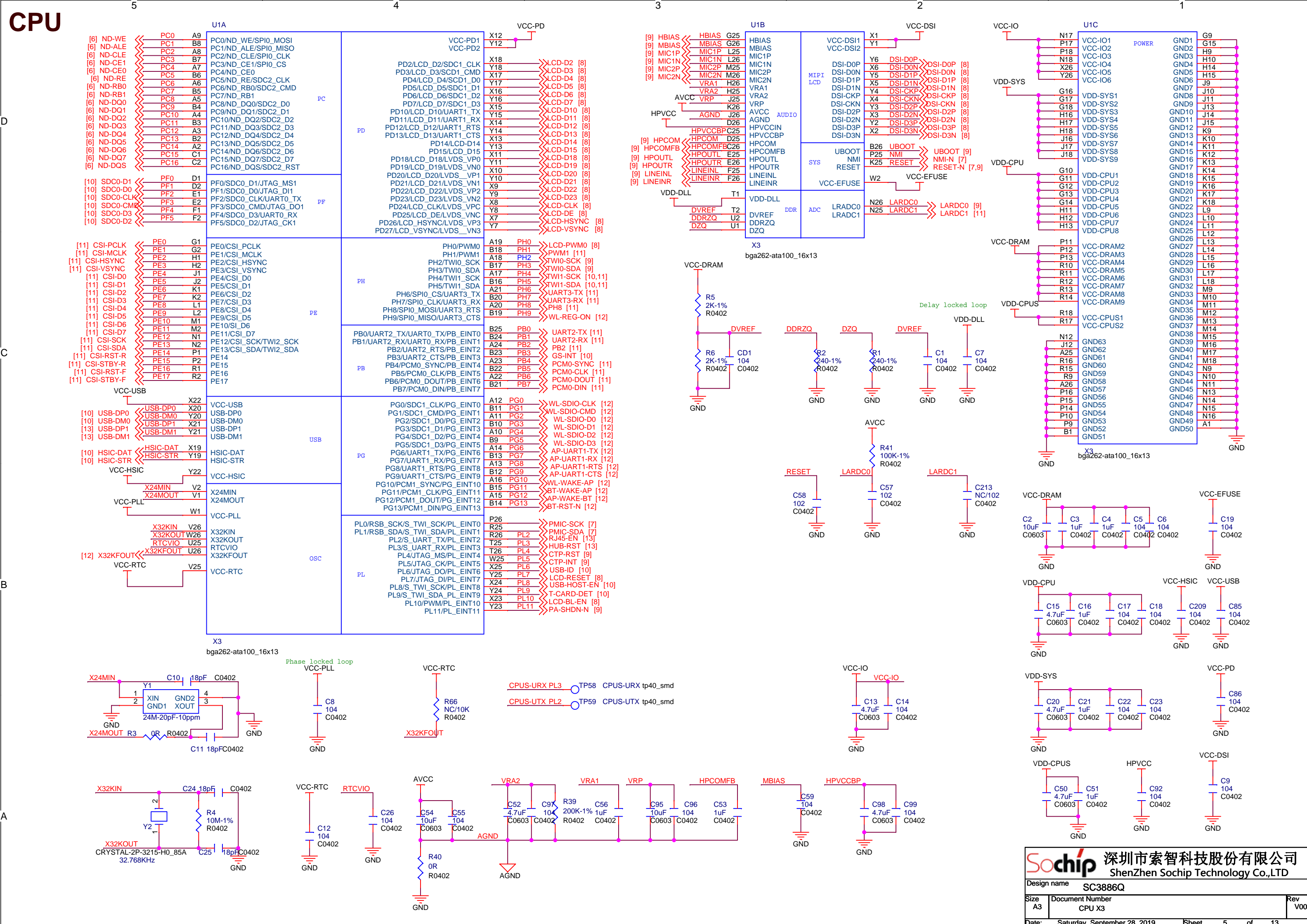
PIN	Name	Function
PB0	UART2-TX	DEBUG
PB1	UART2-RX	
PB2	PB2	Digital Audio
PB3	GS-INT	G-Sensor
PB4	PCM0-SYNC	Digital Audio
PB5	PCM0-CLK	
PB6	PCM0-DOUT	
PB7	PCM0-DIN	

PIN	Name	Function
PG0	WL-SDIO-CLK	WLAN&BT
PG1	WL-SDIO-CMD	
PG2	WL-SDIO-D0	
PG3	WL-SDIO-D1	
PG4	WL-SDIO-D2	
PG5	WL-SDIO-D3	
PG6	AP-UART1-TX	
PG7	AP-UART1-RX	
PG8	AP-UART1-RTS	
PG9	AP-UART1-CTS	
PG10	WL-WAKE-AP	
PG11	BT-WAKE-AP	
PG12	AP-WAKE-BT	
PG13	BT-RST-N	

PIN	Name	Function
PH0	LCD-PWM0	LCM
PH1	PWM1	Digital Audio
PH2	TWI0-SCK	TP
PH3	TWI0-SDA	
PH4	TWI1-SCK	SENSOR
PH5	TWI1-SDA	
PH6	UART3_TX	RS485
PH7	UART3-RX	
PH8	REVERSE	Digital Audio
PH9	PA-SHDN	WIFI&BT

PIN	Name	Function
PL0	PMIC-SCK	PMIC
PL1	PMIC-SDA	
PL2	RJ45-EN	RJ45
PL3	HUB-RST	HUB
PL4	CTP-RST	CTP
PL5	CTP-INT	
PL6	USB-ID	USB
PL7	LCD-RESET	LCD
PL8	USB-HOST-EN	HOST
PL9	T-CARD-DET	TF CARD
PL10	LCD-BL-EN	LCD
PL11	PA-SHDN-N	SPK

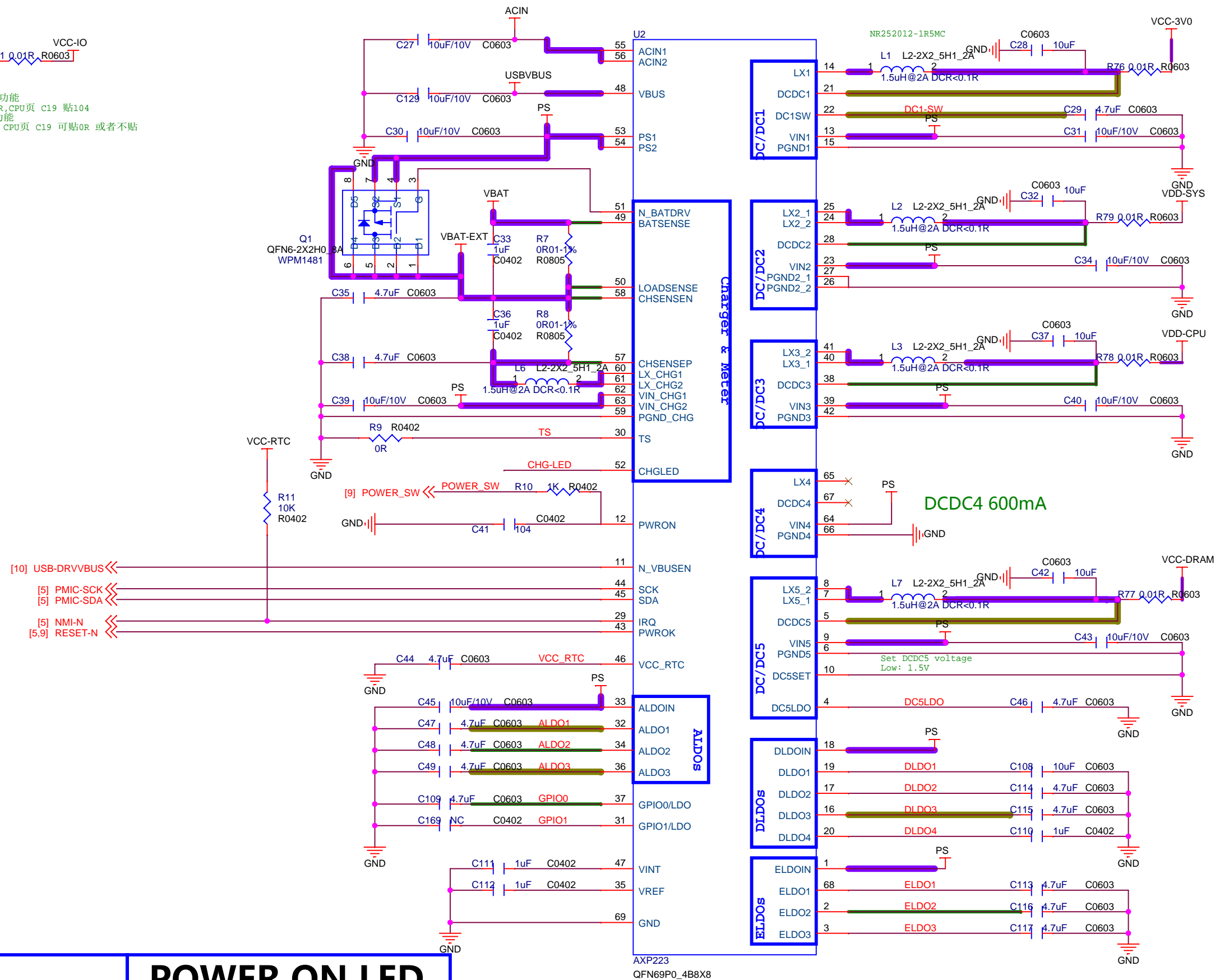
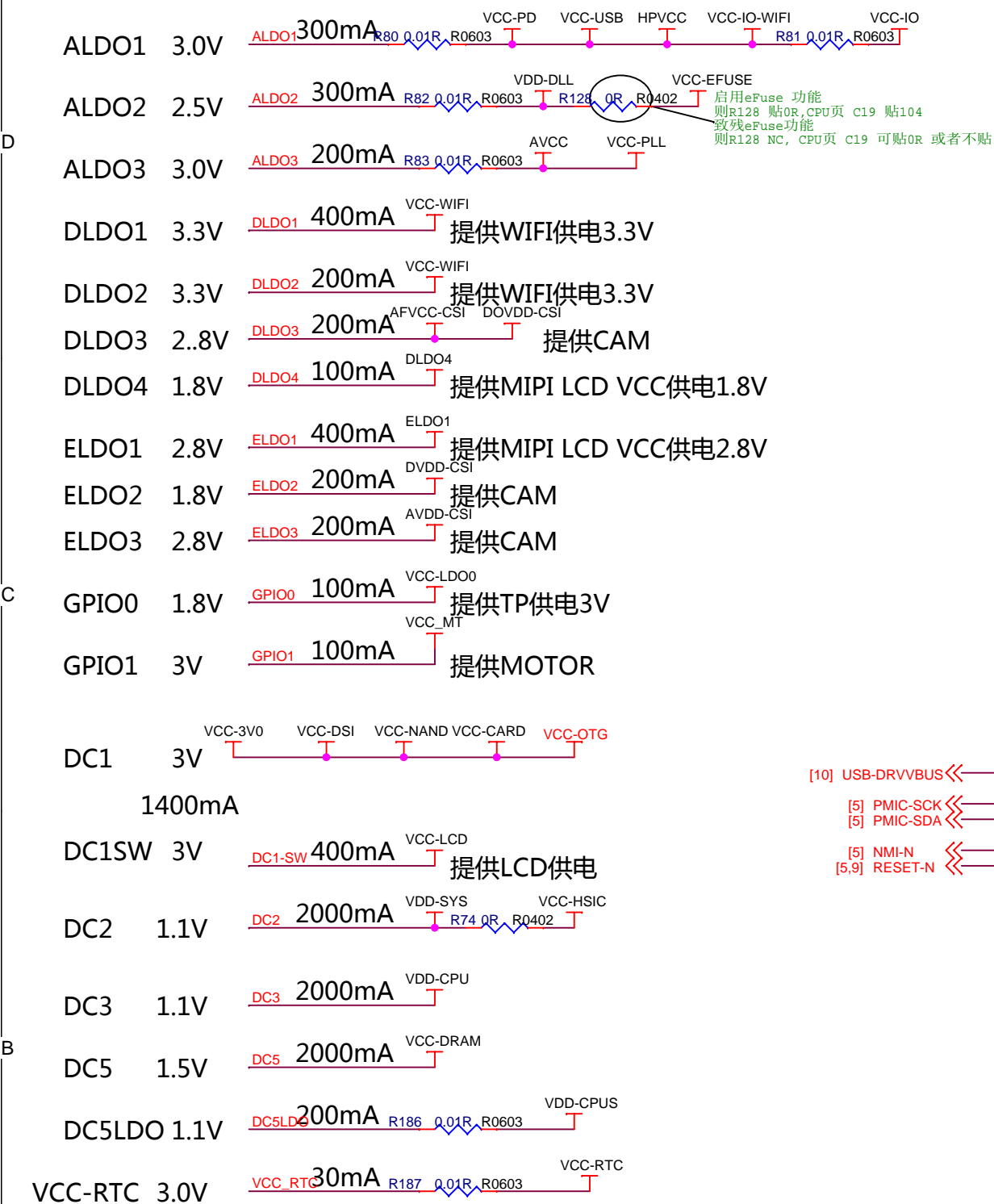
## CPU



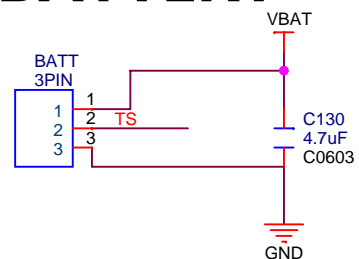




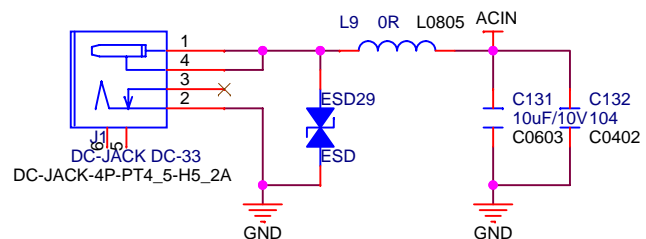
# POWER



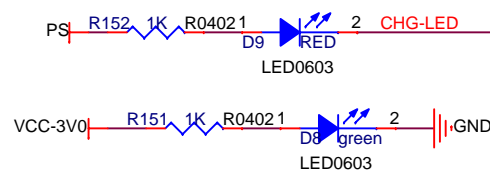
## BATTERY



# DC JACK



## POWER ON LED CHARGER LED



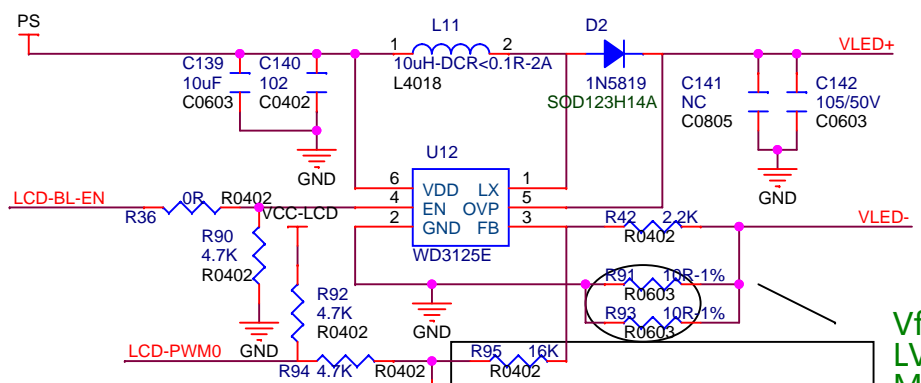
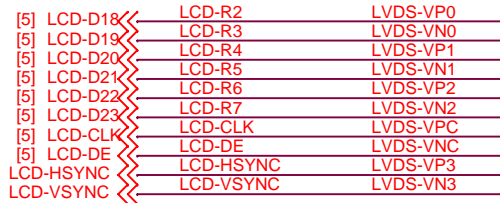
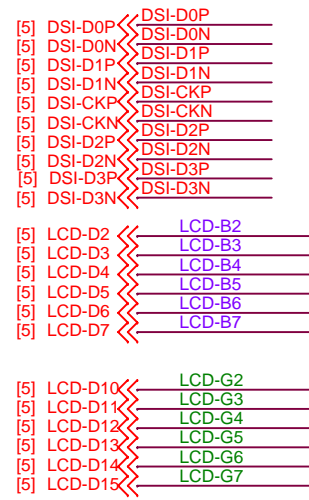
# RGB&MIPI LCD

D

C

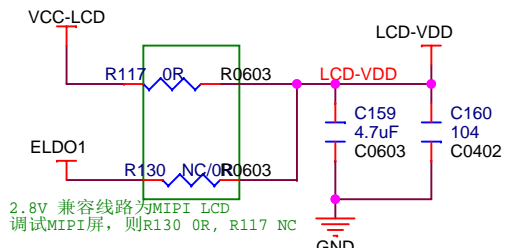
B

A

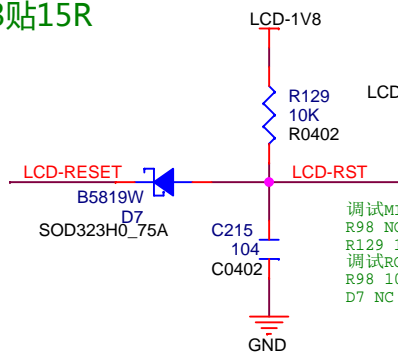


Reference:  
Vfb = 100mv : LSR1 = 73K  
Vfb = 150mv : LSR1 = 47K  
Vfb = 200mv : LSR1 = 33K  
Vfb = 250mv : LSR1 = 25K  
Vfb = 300mv : LSR1 = 20K  
Vfb = 350mv : LSR1 = 16K

Vfb=300mV/I(led)  
LVDS 7串3并 : R91,R93 贴10R  
MIPI 6串2并 : R91,R93贴15R

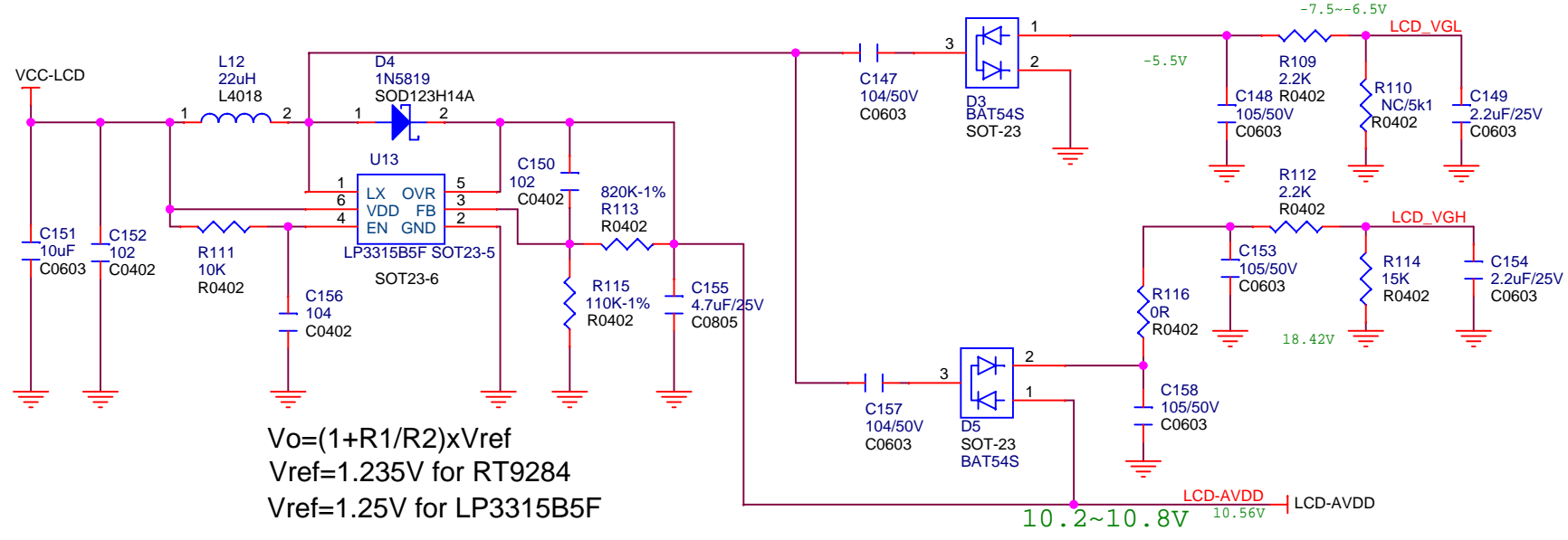
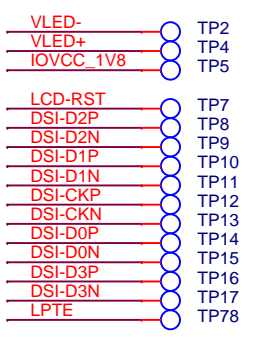
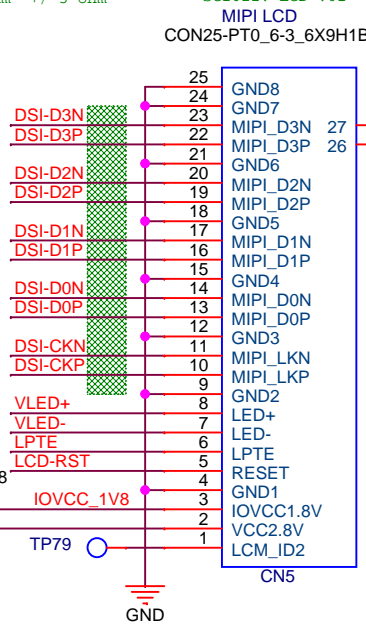


2.8V 兼容线路为MIPI LCD  
调试MIPI屏, 则R130 0R, R117 NC



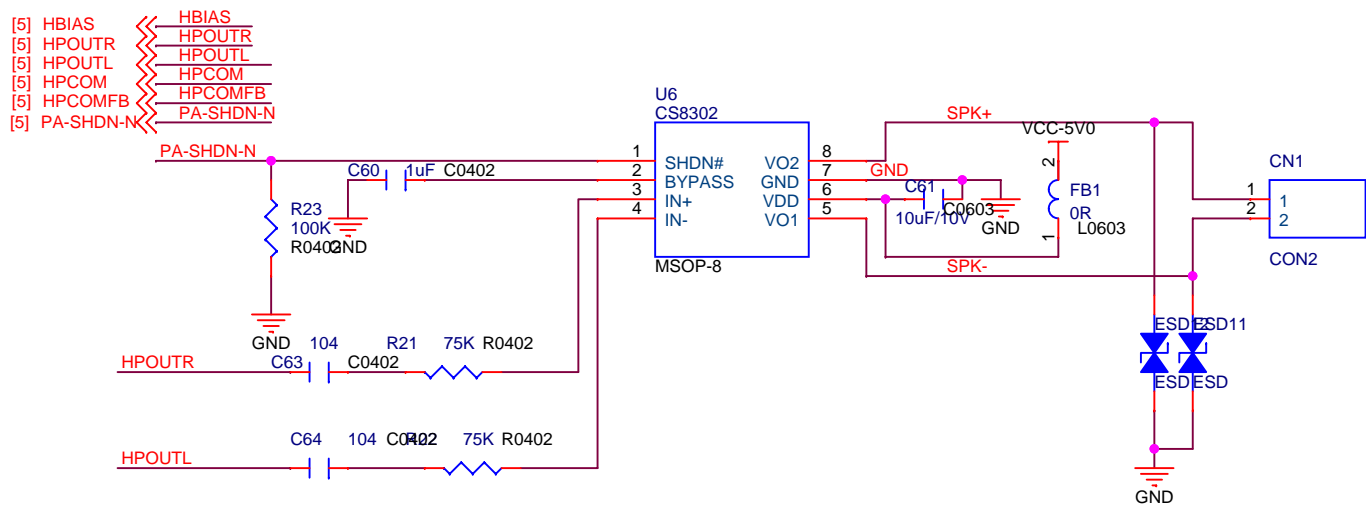
调试MIPI LCD  
R98 NC, C145 NC  
R129 10K, C215 104  
调试RGB LCD  
R98 10K, C145 104  
D7 NC

SC3840 LCD  
转接板同SC1663V  
----SC1622V LCD V01

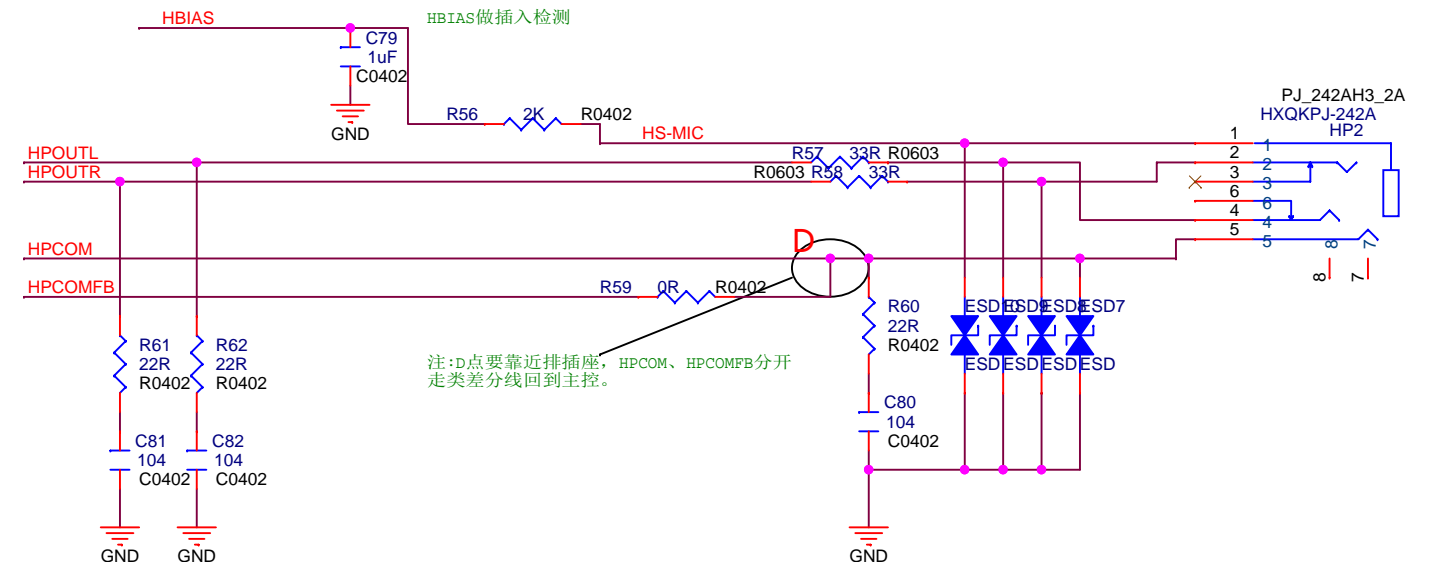




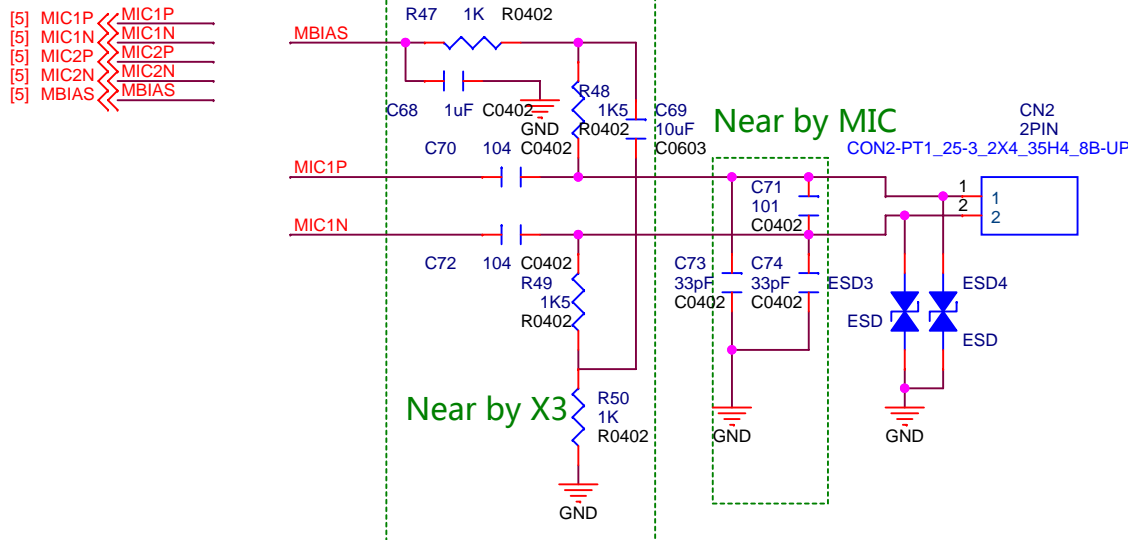
# SPK



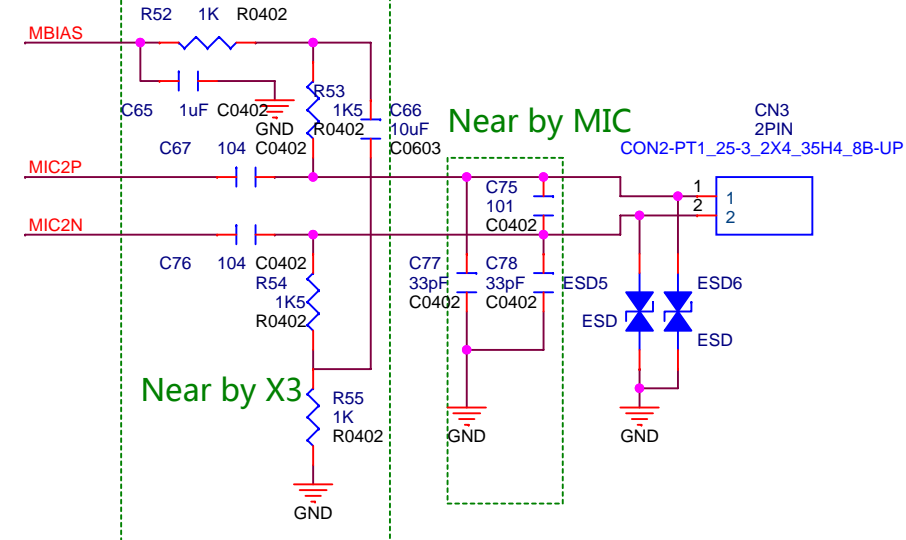
# EARPHONE



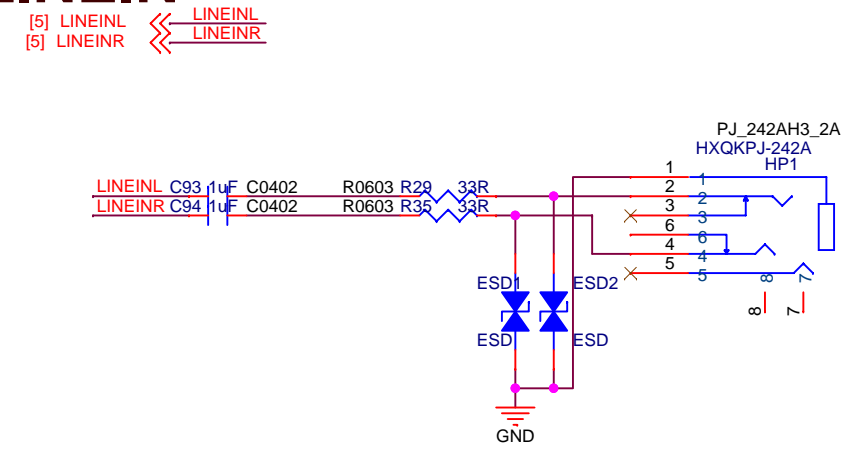
# MIC1



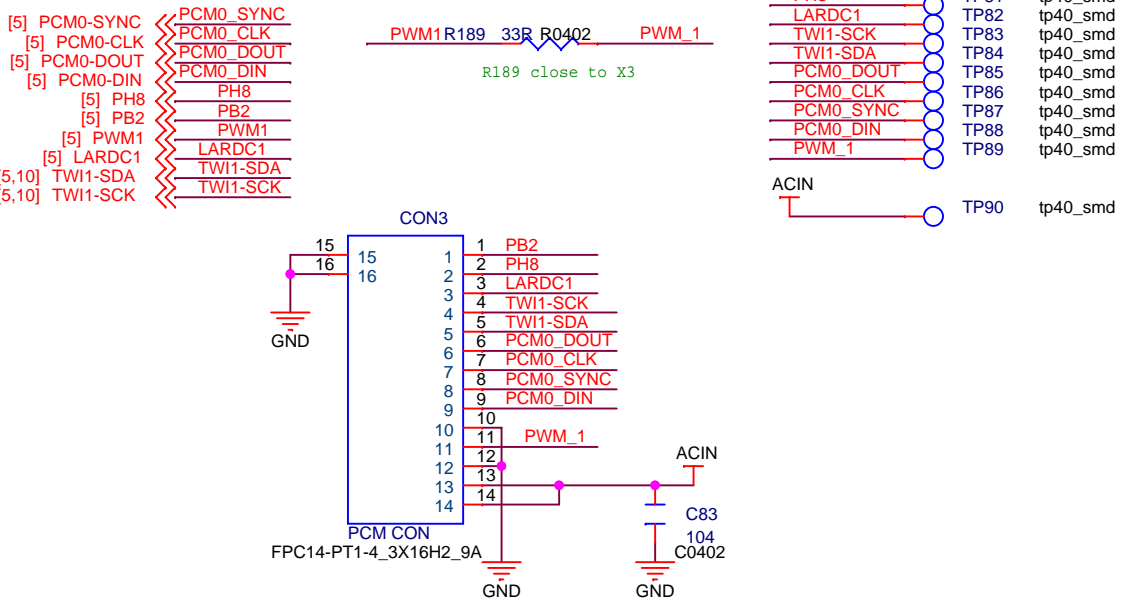
# MIC2



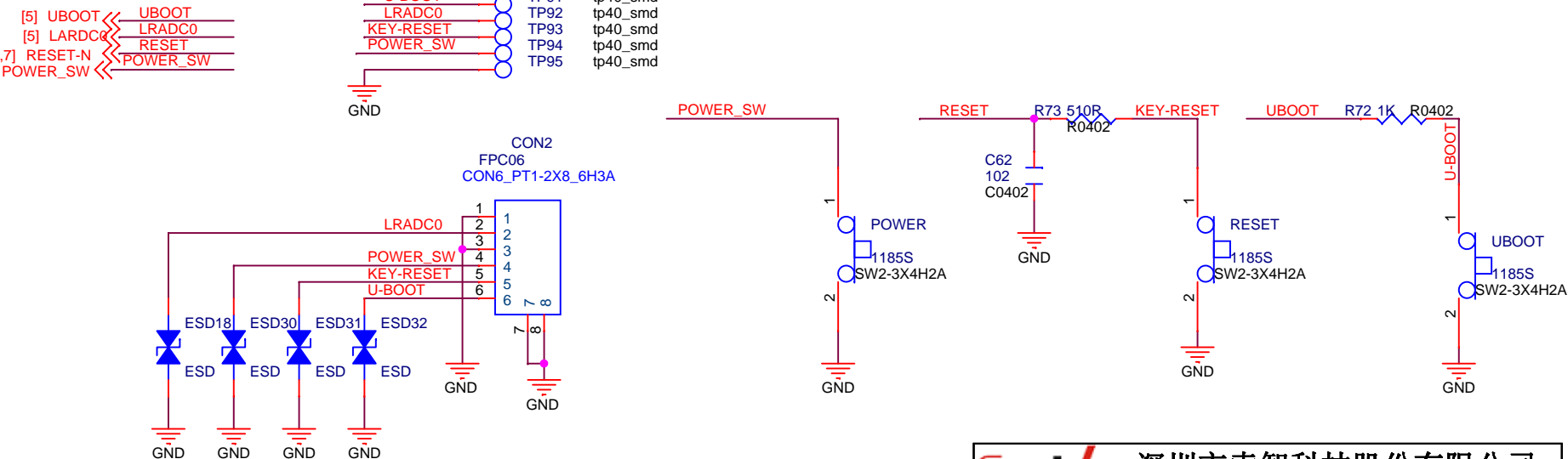
# LINEIN



# PCM AUDIO INTERFACE

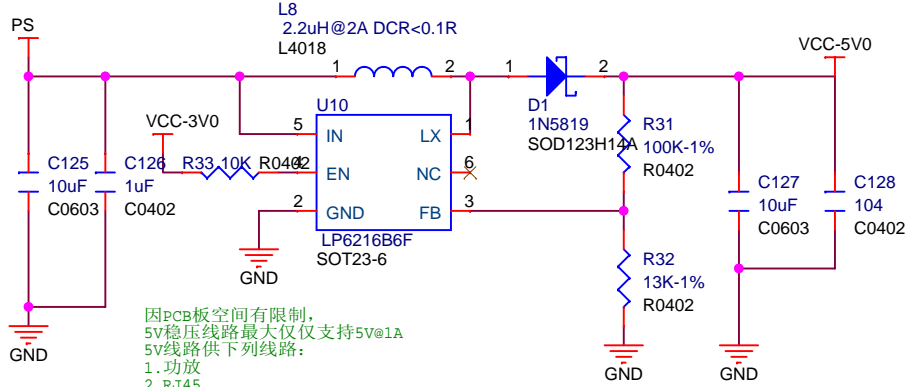


# KEY

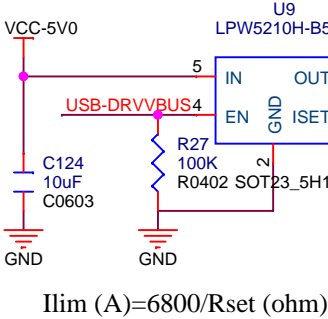


# USB OTG

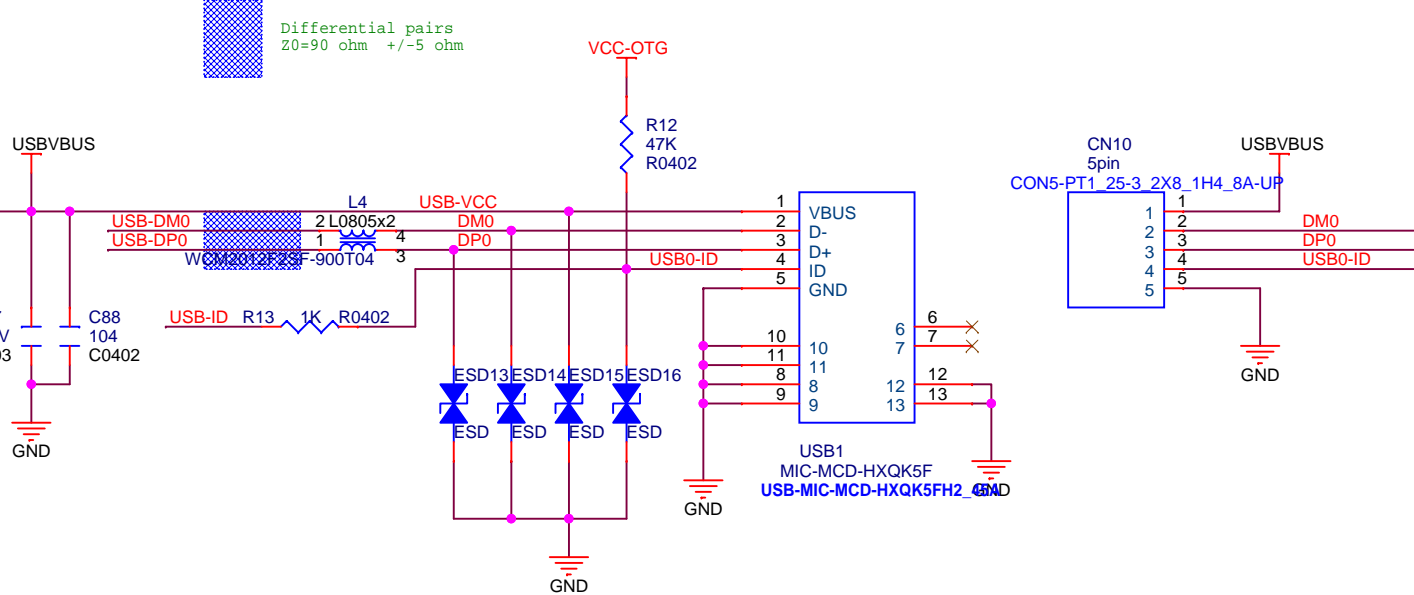
- [7] USB-DRVVBUS << USB-DRVVBUS
- [5] USB-DM0 << USB-DM0
- [5] USB-DP0 << USB-DP0
- [5] USB-ID << USB-ID



因PCB板空间有限制，  
5V稳压线路最大仅仅支持5V@1A  
5V线路供下列线路：  
1. 功放  
2. RJ45  
3. USB OTG做HOST的供电  
4. HOST USB-A座子的供电  
因此请注意：功放的输出最大不能超过8W@1W  
USB OTG+USB HOST同时向外供电时候不能超过5V@500mA

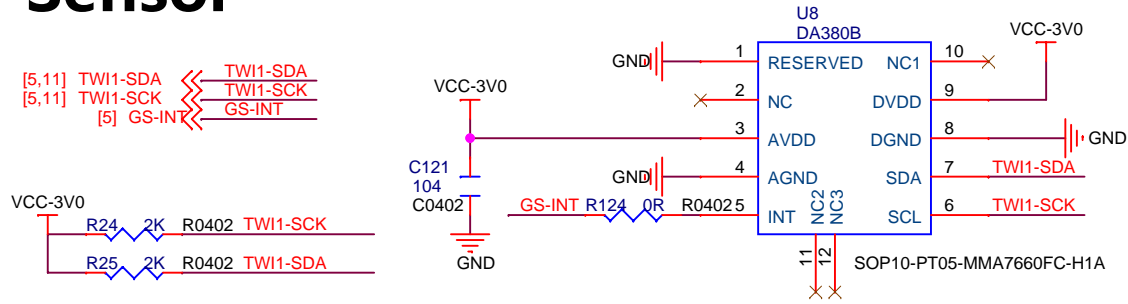


$I_{lim} (A) = 6800 / R_{set} (ohm)$



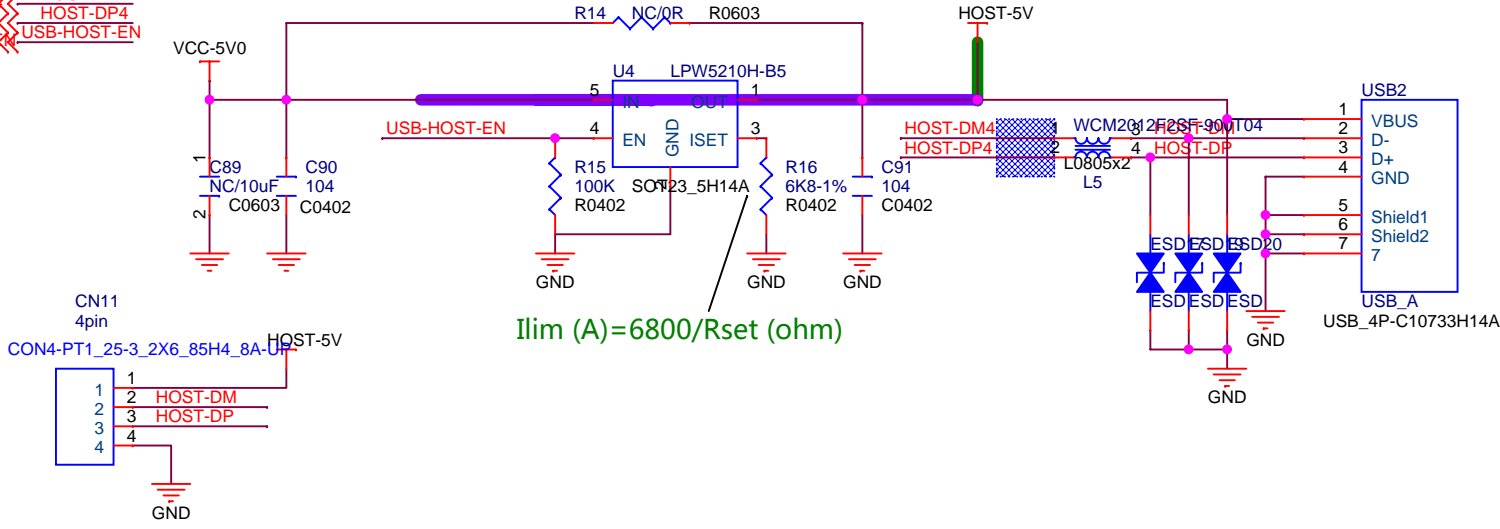
# G-Sensor

- [5,11] TWI1-SDA << TWI1-SDA
- [5,11] TWI1-SCK << TWI1-SCK
- [5] GS-INT << GS-INT



# HOST

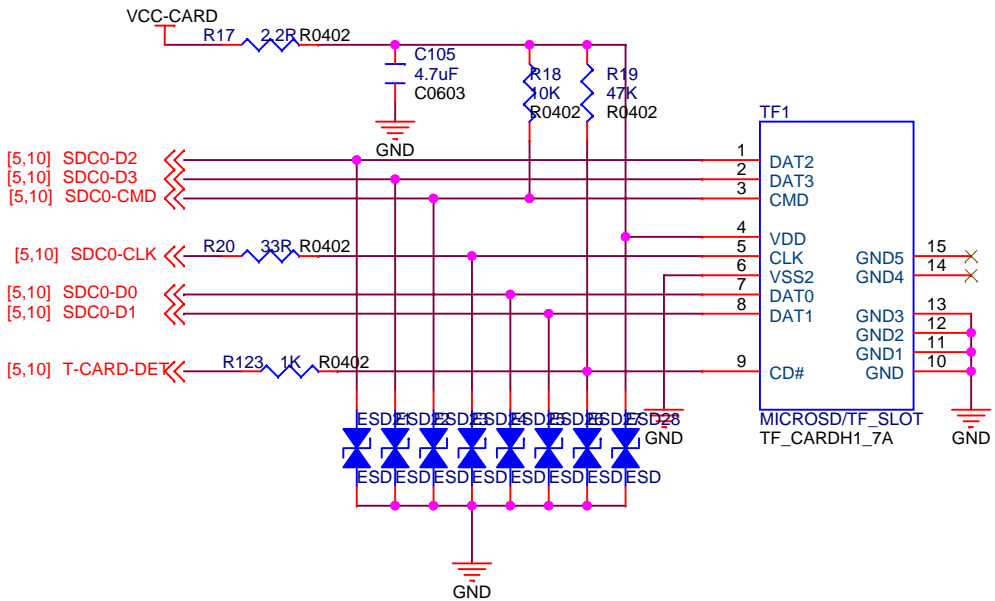
- [13] HOST-DM4 << HOST-DM4
- [13] HOST-DP4 << HOST-DP4
- [5] USB-HOST-EN << USB-HOST-EN



$I_{lim} (A) = 6800 / R_{set} (ohm)$

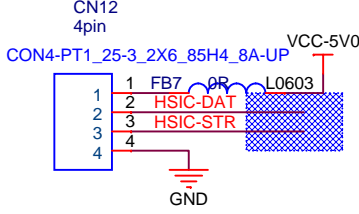
# TF

- [5,10] SDC0-D1 << PF0
- [5,10] SDC0-D0 << PF1
- [5,10] SDC0-CLK << PF2
- [5,10] SDC0-CMD << PF3
- [5,10] SDC0-D3 << PF4
- [5,10] SDC0-D2 << PF5
- [5,10] T-CARD-DET << T-CARD-DET

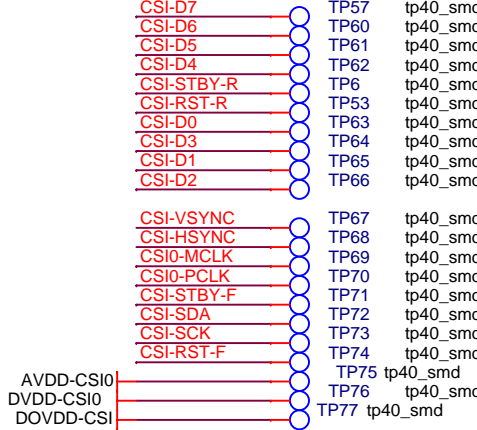
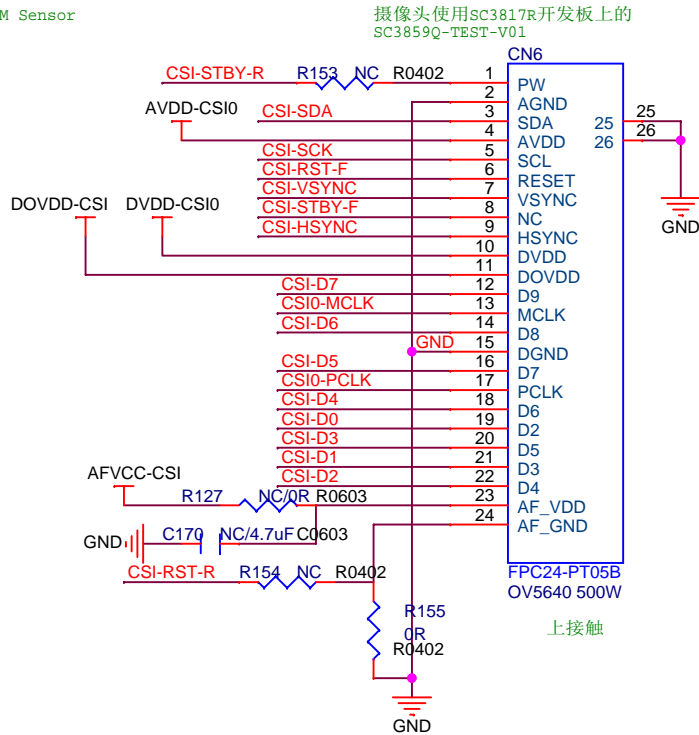
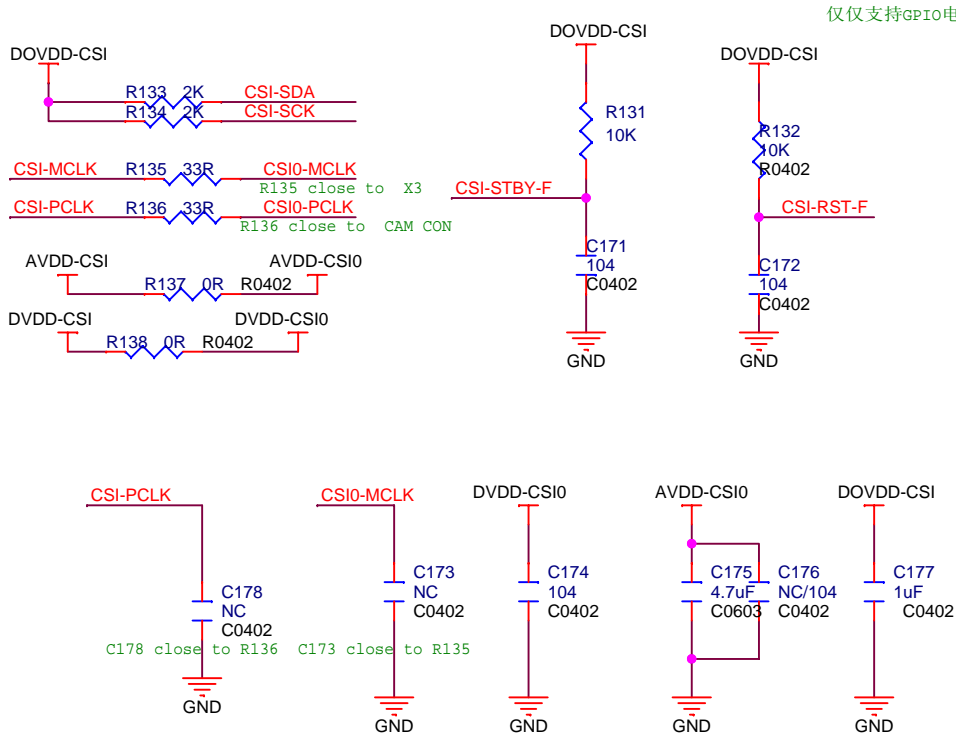
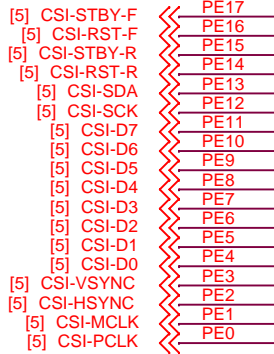


# High Speed Chip Interface

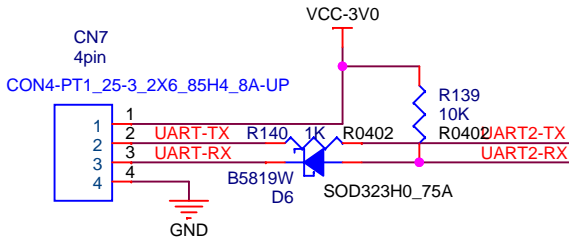
- [5] HSIC-DAT << HSIC-DAT
- [5] HSIC-STR << HSIC-STR



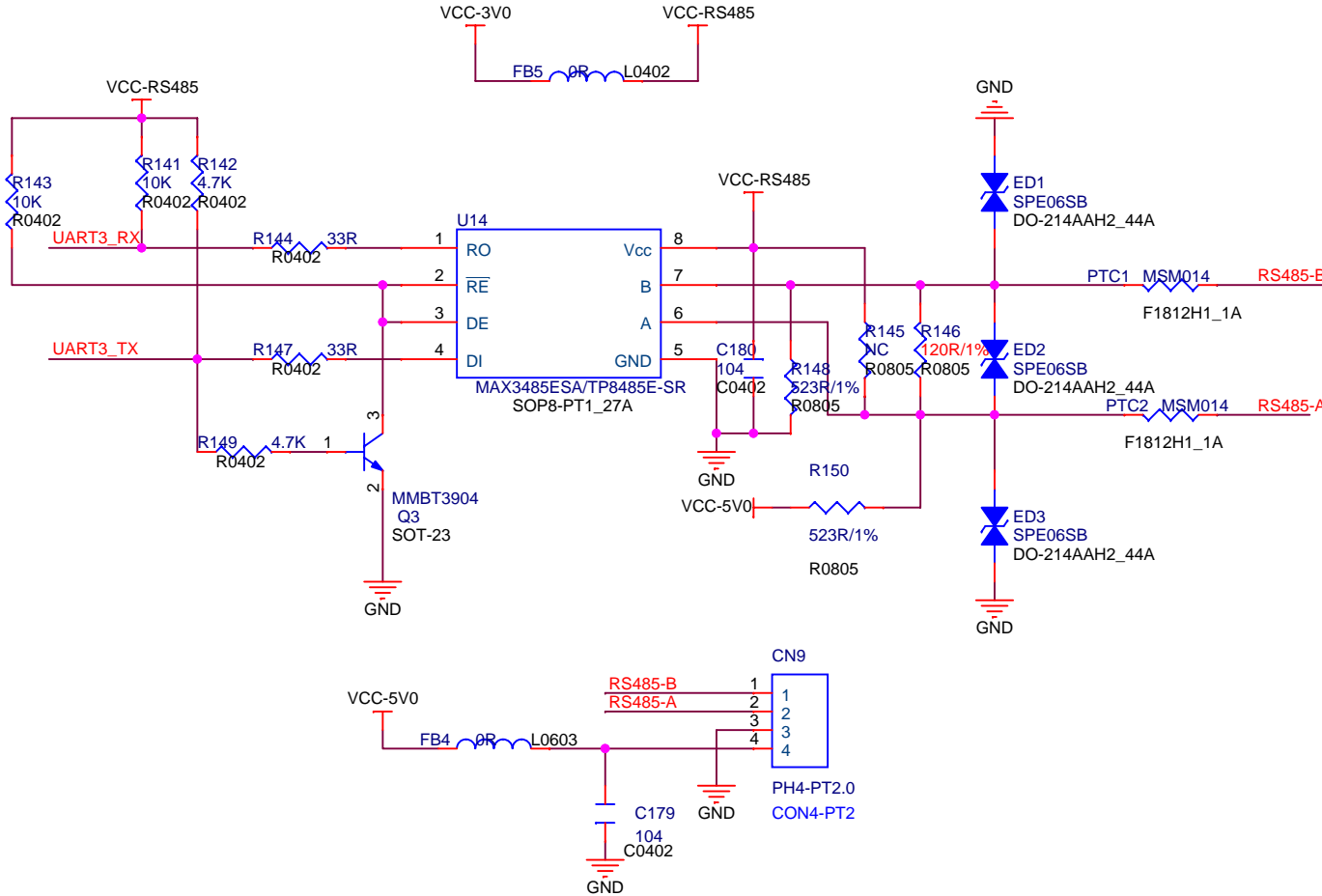
# DVP CAM



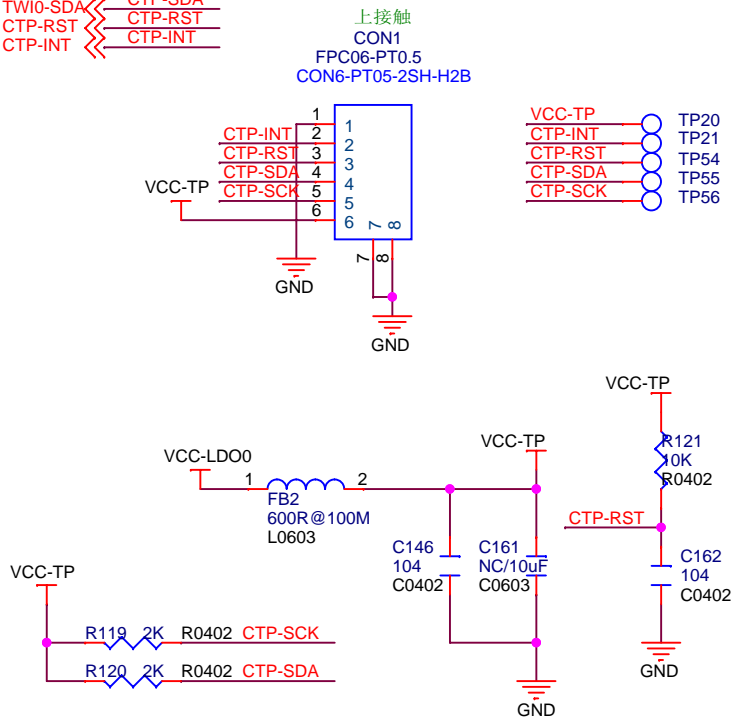
# UART DEBUG



# RS485



# CTP



# SCREW HOLD

