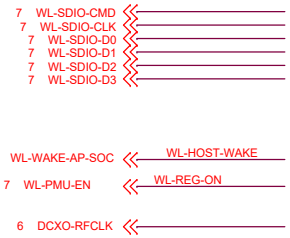
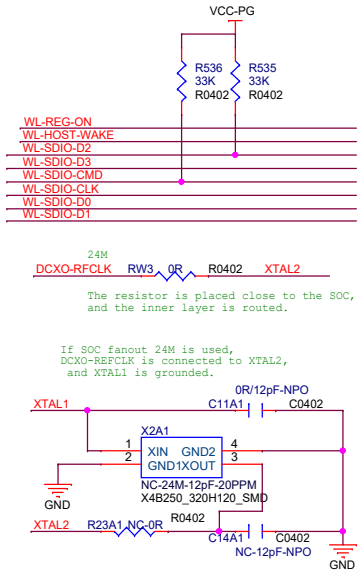
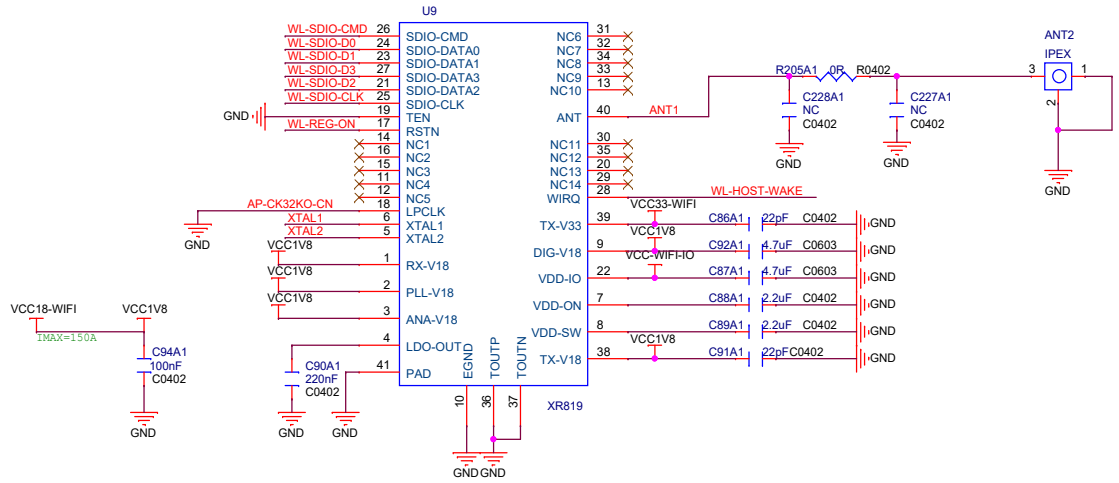
GPIO ASSIGNMENT

SDIOWIFI

XR819







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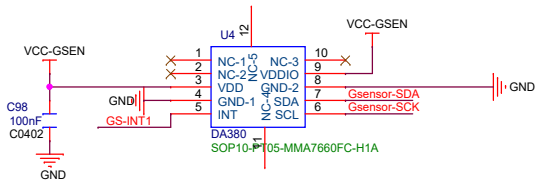
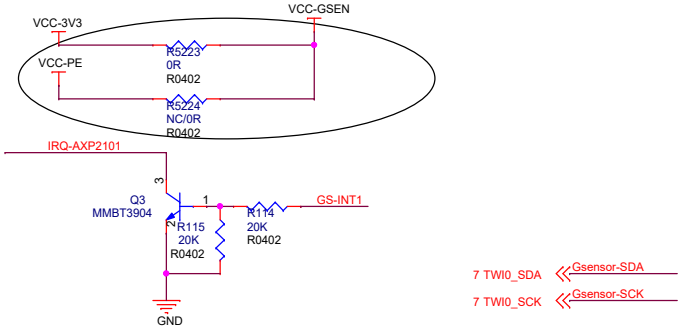
G-SENSOR (DA380)

注：停车监控开机电路
GSENSOR 需要用1.8V 的I2C





5,6 IRQ-AXP2101
11,14 PWRON-AXP2101
VCC-RTC
VCC-PE
VCC-IO
VCC-3V3

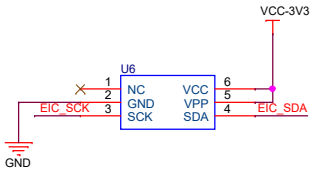
13 TWI1-SCK
13 TWI1-SDA

7 TWI0_SDA Gsensor-SDA
7 TWI0_SCK Gsensor-SCK

G-SENSOR IC与屏平行放置，放在屏的左上方，右上方放置PIN1脚。

1、关机前配置为中断输出，采用高电平脉冲中断方式；
2、PMU接收到上述产生的16ms以上低电平后快速上电开机；
3、开机之后，配置屏蔽中断输出，采用I2C轮询方式；

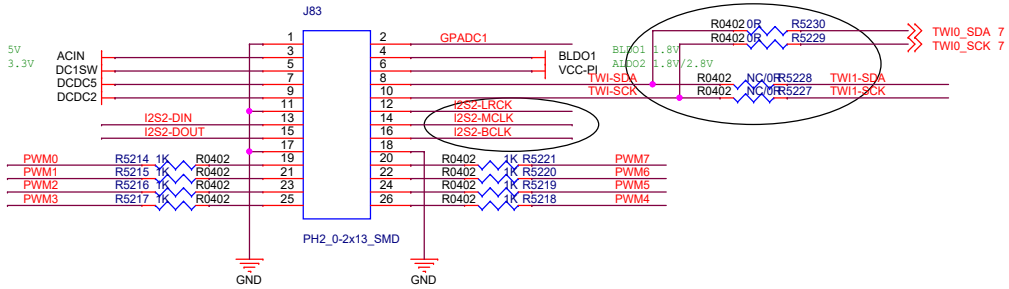
Encrypt IC



7 TWI0_SDA EIC_SDA
7 TWI0_SCK EIC_SCK

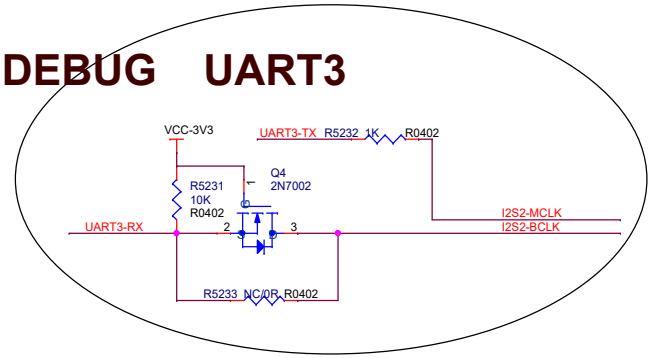
4 PWM0
4 PWM1
4 PWM2
4 PWM3
4 PWM4
4 PWM5
4 PWM6
4 PWM7

I2S/PWM*8/I2C/UART/POWER/GPADC



7,11 UART3-TX UART3-TX
7,11 UART3-RX UART3-RX

DEBUG UART3



I2S

7,10 I2S0-MCLK
7,10 I2S0-LRCK
7,10 I2S0-BCLK
7 I2S0-DIN
7,14 I2S0-DOUT

6 GPADC1 GPADC1

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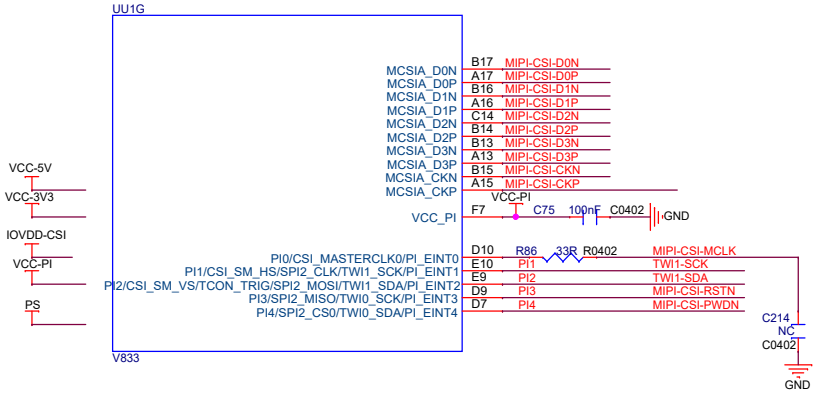
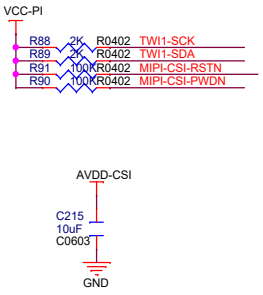
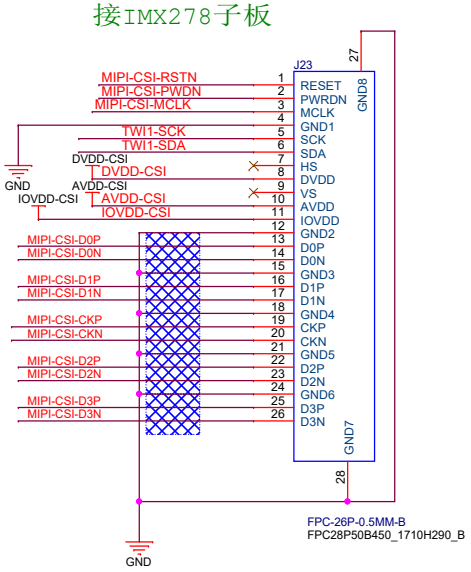
CSI

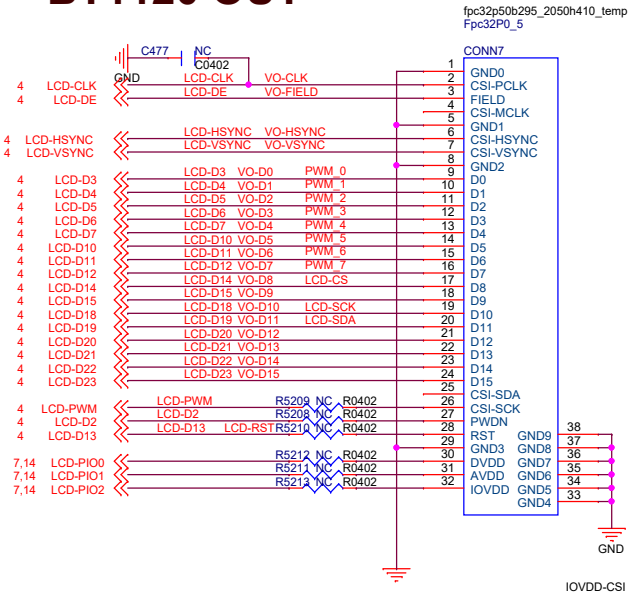




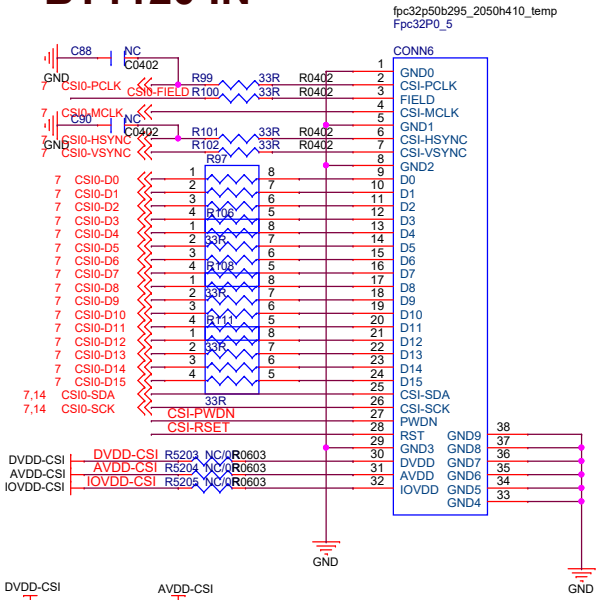


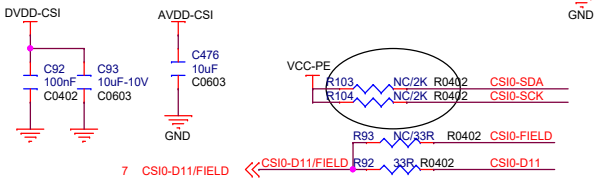
14 TWI1-SCK
14 TWI1-SDA
TWI1-SCK
TWI1-SDA

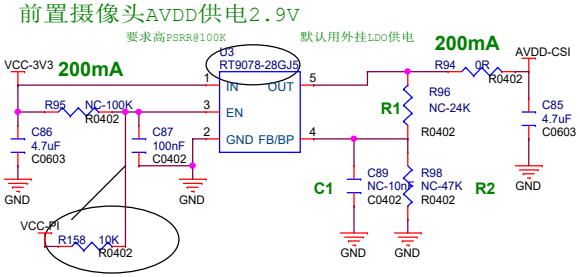
BT1120 OUT

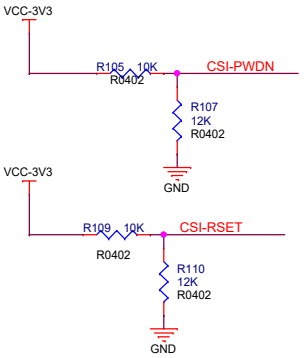


BT1120 IN









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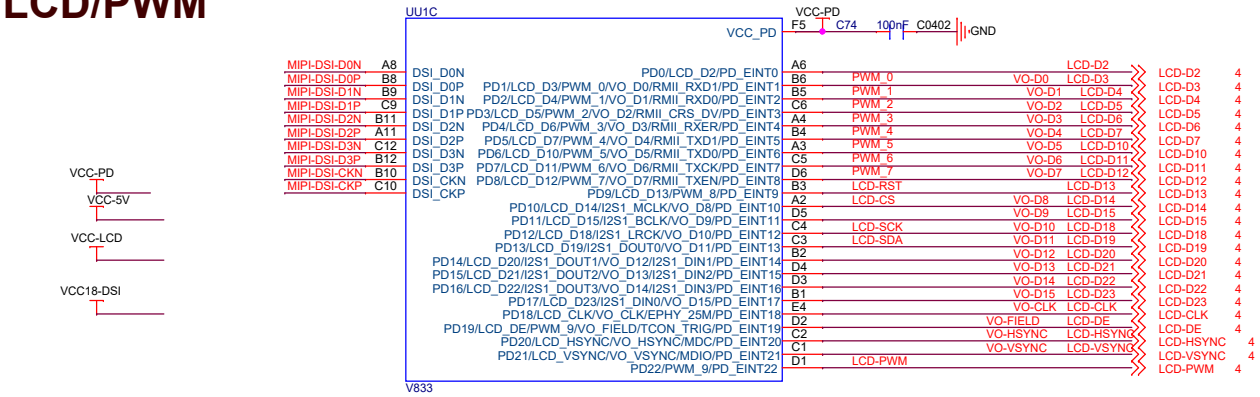
LCD/PWM



VCC-PD
VCC-5V
VCC-LCD
VCC18-DSI

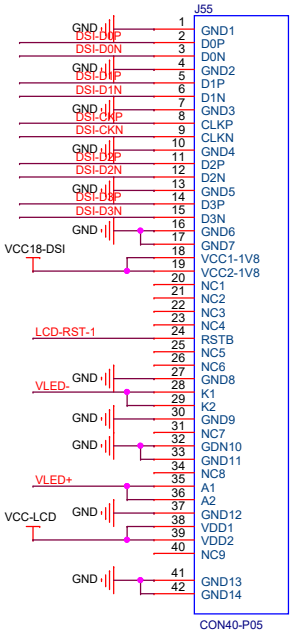
需要核对CDR原型机的CTP座子以及和DSI座子的相对位置！

4 PWM0
4 PWM1
4 PWM2
4 PWM3
4 PWM4
4 PWM5
4 PWM6
4 PWM7

PWM0 R55 NC/0R R0402 PWM_0
PWM1 R56 NC/0R R0402 PWM_1
PWM2 R57 NC/0R R0402 PWM_2
PWM3 R58 NC/0R R0402 PWM_3
PWM4 R59 NC/0R R0402 PWM_4
PWM5 R60 NC/0R R0402 PWM_5
PWM6 R61 NC/0R R0402 PWM_6
PWM7 R62 NC/0R R0402 PWM_7

MIPI DSI

MIPI-DSI-D0N DSI-D0N
MIPI-DSI-D0P DSI-D0P
MIPI-DSI-D1N DSI-D1N
MIPI-DSI-D1P DSI-D1P
MIPI-DSI-D2N DSI-D2N
MIPI-DSI-D2P DSI-D2P
MIPI-DSI-D3N DSI-D3N
MIPI-DSI-D3P DSI-D3P
MIPI-DSI-CKN DSI-CKN
MIPI-DSI-CKP DSI-CKP



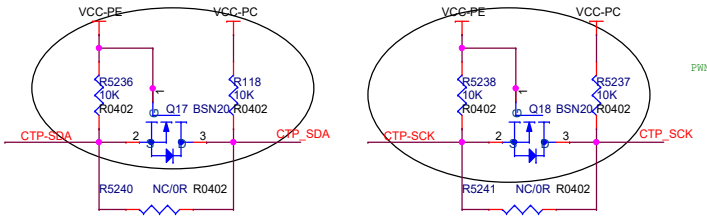
CTP CN

7,13 CSI0-SDA CTP-SDA
7,13 CSI0-SCK CTP-SCK

7 CTP-INT
7 CTP-RST
C464 102 C0402
C465 102 C0402

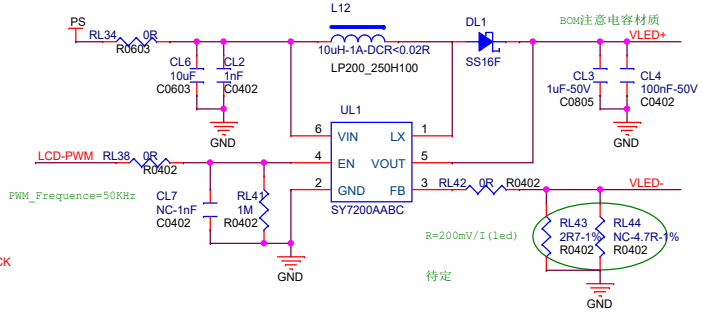
JL6 FPC-6P-0.5MM-B
GND
INT
RST/WAKE
VDD
CTP-SDA
CTP-SCL
CL13 100nF C0402
TWI0_SDA 7
TWI0_SCK 7
NOTE:CTP CONNECTOR

R533 10K R0402
R534 NC/10K R0402



BACKLIGHT

LCD-RST RL55 10K R0402 LCD-RST-1
RL54 12K R0402
CL19 NC-1uF C0402



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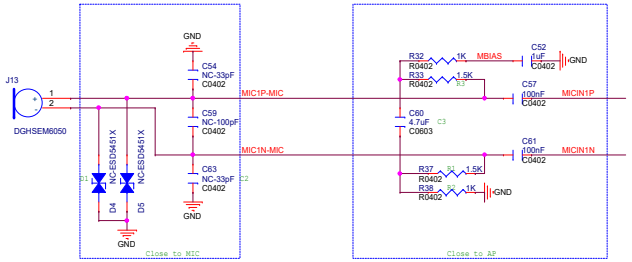
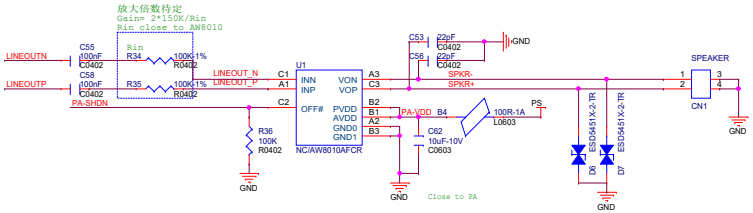
AUDIO/KEY

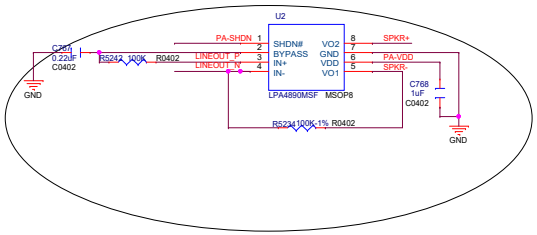
MIC



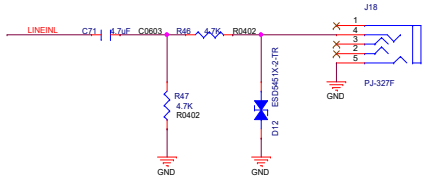
COMPONENT	Diferential	Single-ended
R1 R2 C3 D1	USE	NC
C2	NC-33pF	0R
R3	1.5K	1K

SPEAKER

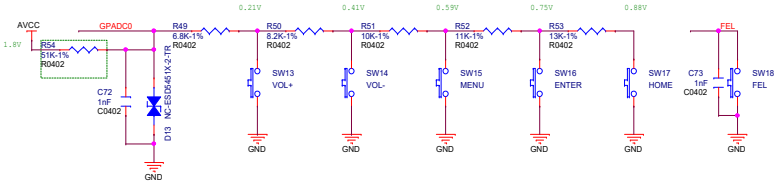




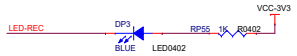
LINE IN



KEY



LED



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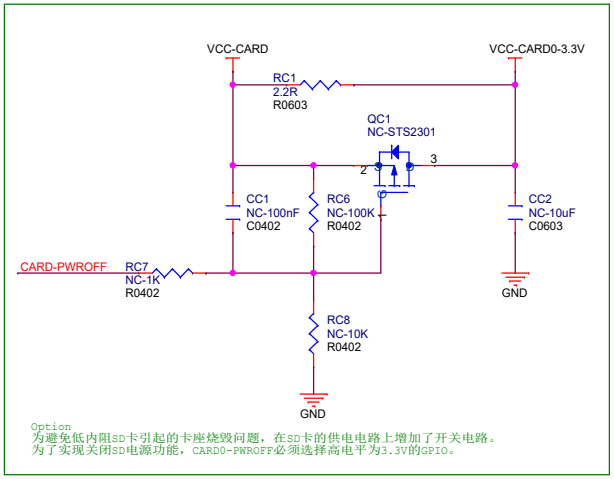
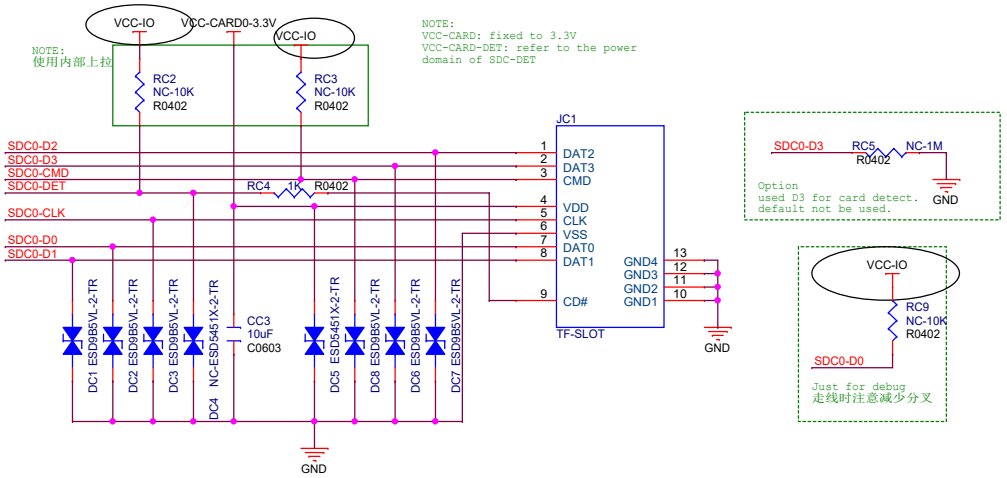
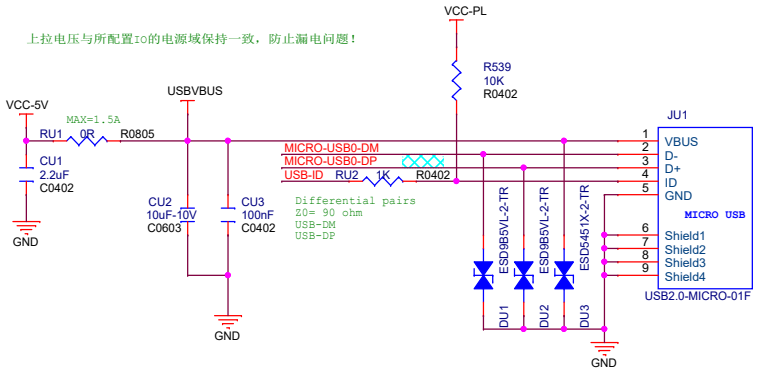
CARD





microUSB



note: Make sure the routing between the ESD and the USB connectors should be on the same PCB side

7 SDC0-D1
7 SDC0-D0
7 SDC0-CLK
7 SDC0-CMD
7 SDC0-D3
7 SDC0-D2
7 SDC0-DET
7,11 CARD-PWROFF
VCC-CARD

USBVBUS
VCC-5V
6 USB0-DM
6 USB0-DP
6 USB-ID
USB-ID
17 4G-USB0-DP
17 4G-USB0-DM
4G-USB0-DP
4G-USB0-DM
VCC-3V3

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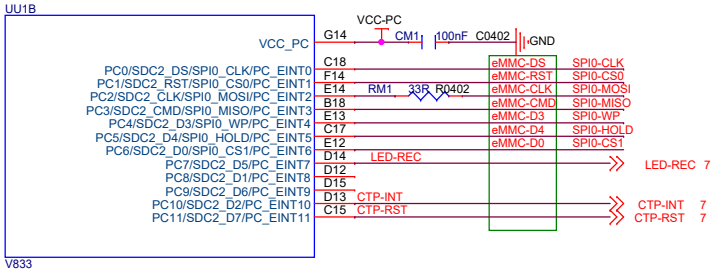
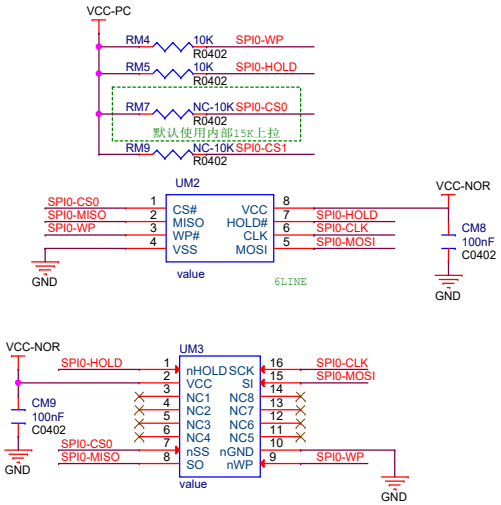
FLASH



PC-SPI0



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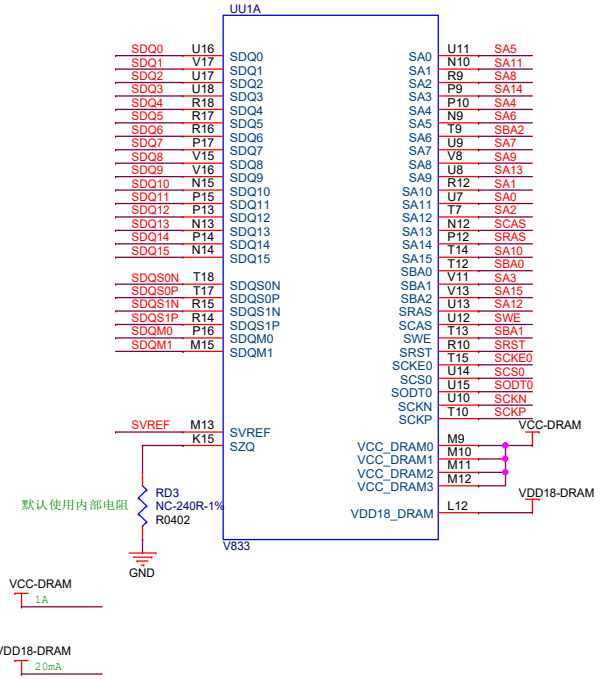
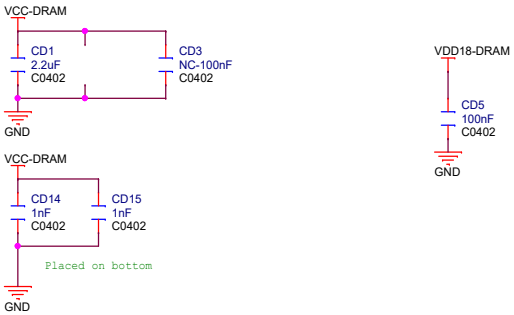
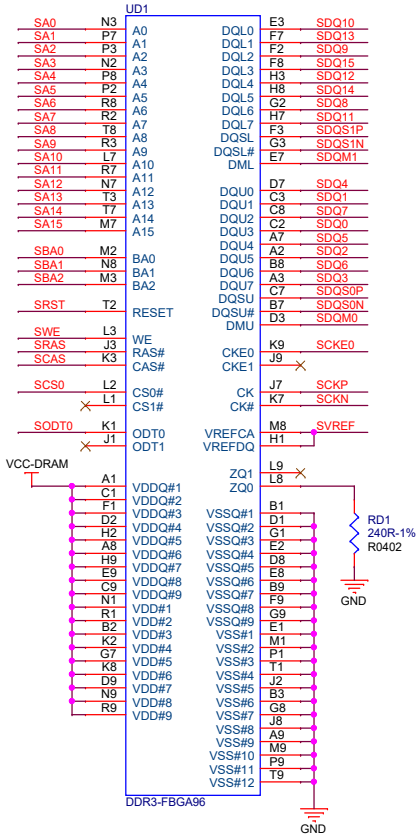
DDR3 16X1

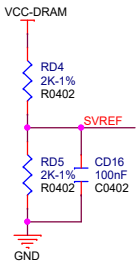


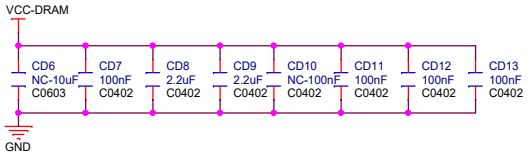
VCC-DRAM
1A

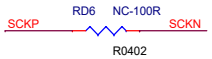
VDD18-DRAM
20mA











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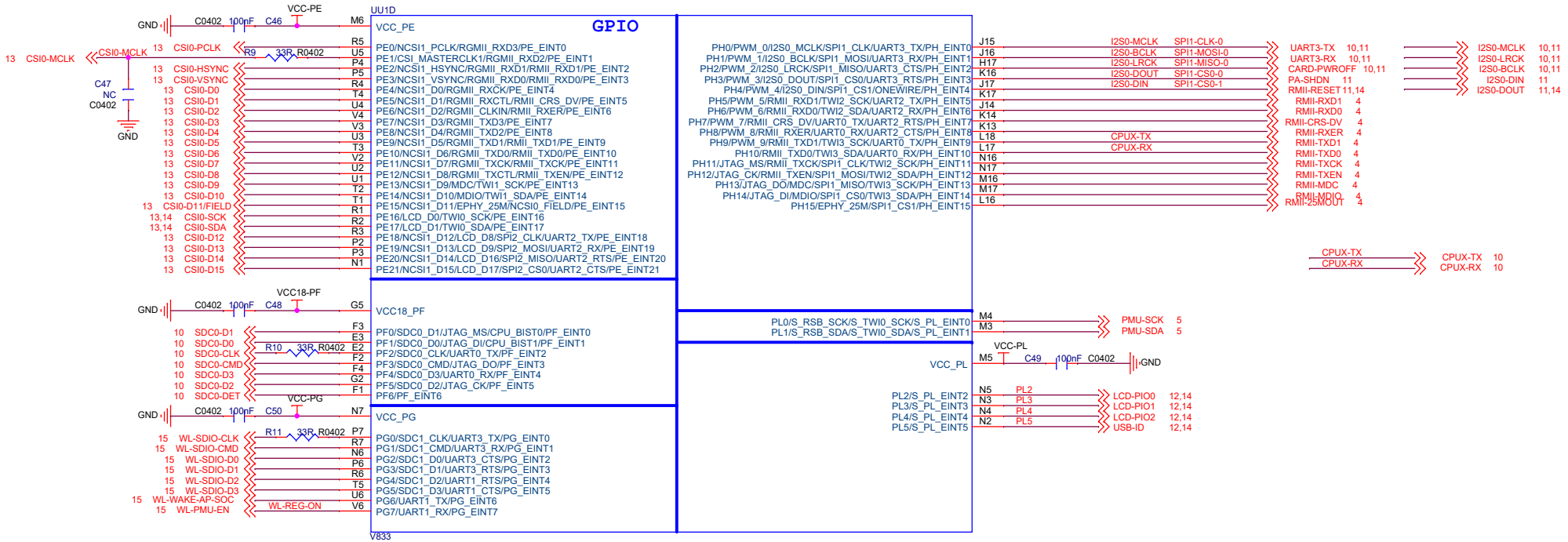
SOC



0R 电阻默认贴上,验证时可将其他模块电阻去掉

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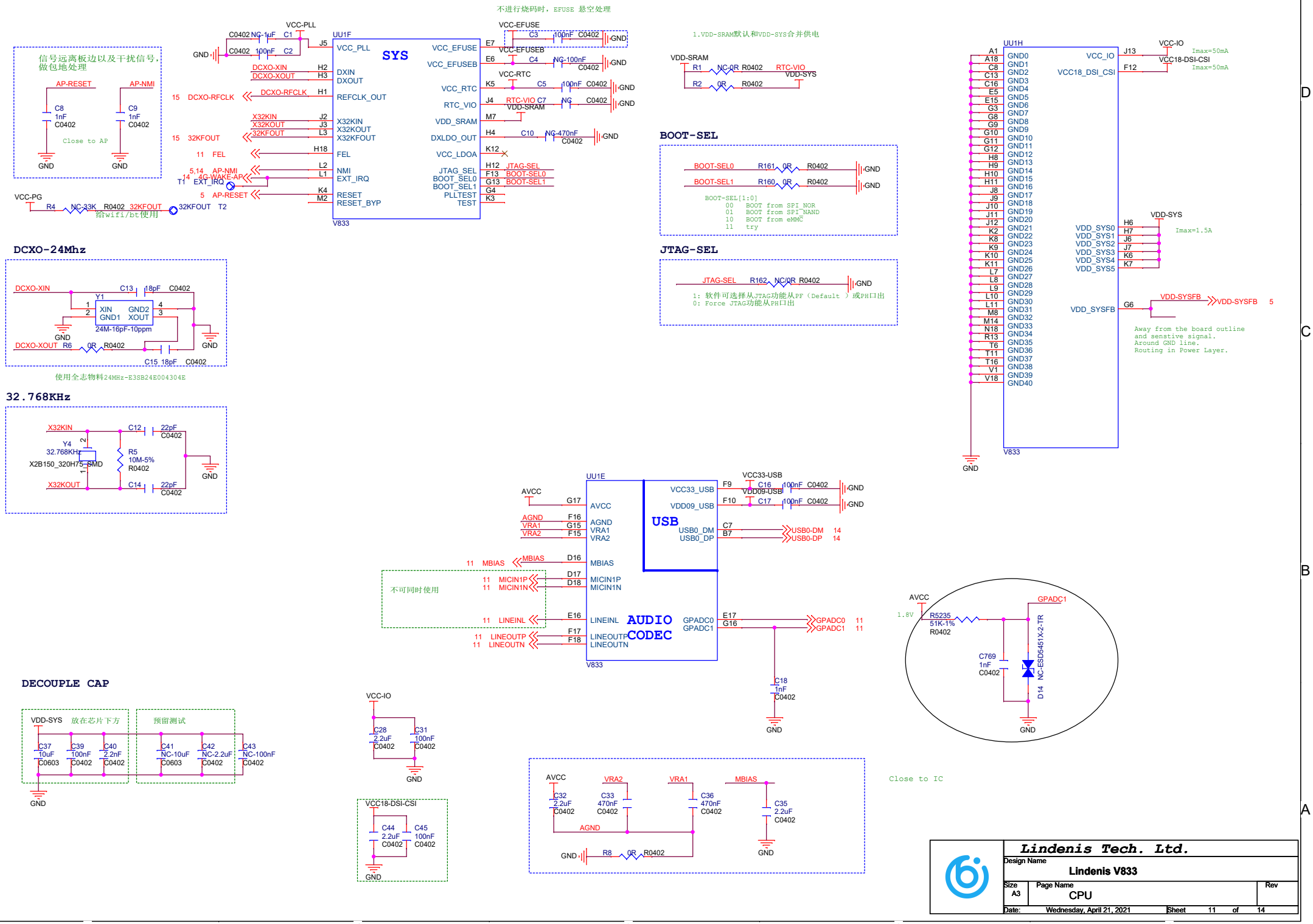
不进行烧码时，EFUSE 悬空处理
信号远离板边以及干扰信号，做包地处理
AP-RESET
AP-NMI
Close to AP
SYS
VCC_PLL
DXIN
DXOUT
REFCLK_OUT
X32KIN
X32KOUT
X32KFOUT
FEL
NMI
EXT_IRQ
RESET
RESET_BYP
VCC_EFUSE
VCC_EFUSEB
VCC_RTC
RTC_VIO
VDD_SRAM
DXLDO_OUT
VCC_LDOA
JTAG_SEL
BOOT_SEL0
BOOT_SEL1
PLLTEST
TEST
V833
1.VDD-SRAM默认和VDD-SYS合并供电
BOOT-SEL
BOOT-SEL[1:0]
00 BOOT from SPI_NOR
01 BOOT from SPI_NAND
10 BOOT from eMMC
11 try
JTAG-SEL
1: 软件可选择从JTAG功能从PF（Default ）或PH口出
0: Force JTAG功能从PH口出
DCXO-24Mhz
24M-16pF-10ppm
使用全志物料24MHz-E3SB24E004304E
32.768KHz
X2B150_320H75_SMD
USB
AUDIO CODEC
不可同时使用
DECOUPLE CAP
VDD-SYS 放在芯片下方
预留测试
Close to IC
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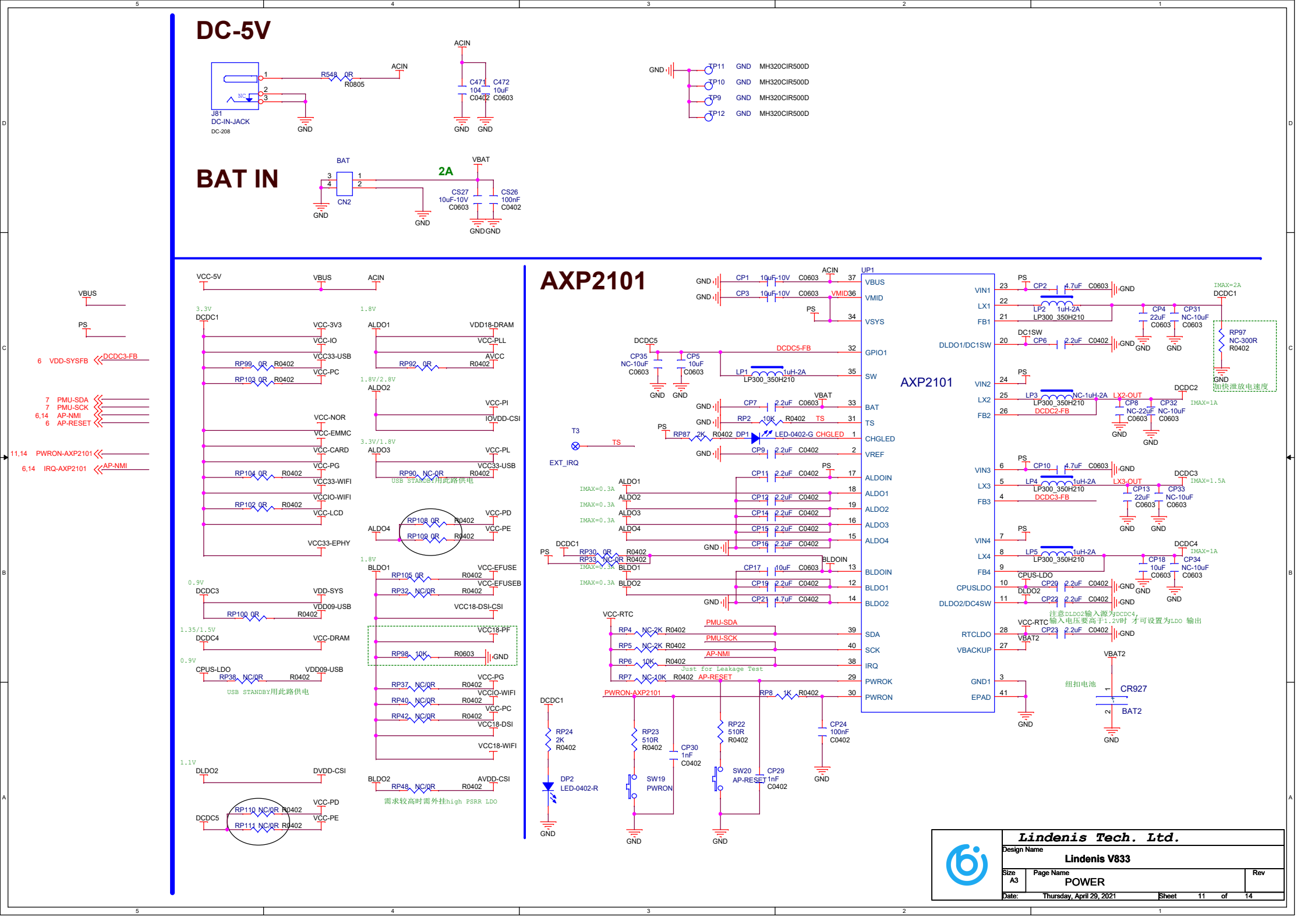
DC-5V
ACIN
R548 0R
R0805
J81
DC-IN-JACK
DC-208
C471 104 C0402
C472 10uF C0603
GND
TP11 GND MH320CIR500D
TP10 GND MH320CIR500D
TP9 GND MH320CIR500D
TP12 GND MH320CIR500D
BAT IN
BAT
CN2
2A
VBAT
CS27 10uF-10V C0603
CS26 100nF C0402
VBUS
PS
6 VDD-SYSFB DCDC3-FB
7 PMU-SDA
7 PMU-SCK
6,14 AP-NMI
6 AP-RESET
11,14 PWRON-AXP2101
6,14 IRQ-AXP2101 AP-NMI
VCC-5V
VBUS
ACIN
DCDC1
VCC-3V3
VCC-IO
VCC33-USB
VCC-PC
VCC-NOR
VCC-EMMC
VCC-CARD
VCC-PG
VCC33-WIFI
VCCIO-WIFI
VCC-LCD
VCC33-EPHY
RP99 0R R0402
RP103 0R R0402
RP104 0R R0402
RP102 0R R0402
ALDO1
VDD18-DRAM
VCC-PLL
AVCC
RP92 0R R0402
ALDO2
VCC-PI
IOVDD-CSI
ALDO3
VCC-PL
VCC33-USB
RP90 NC-0R R0402
USB STANDBY用此路供电
ALDO4
RP108 0R R0402
RP109 0R R0402
VCC-PD
VCC-PE
DCDC3
VDD-SYS
VDD09-USB
RP100 0R R0402
DCDC4
VCC-DRAM
CPUS-LDO
RP38 NC/0R R0402
USB STANDBY用此路供电
BLDO1
RP105 0R R0402
VCC-EFUSE
RP32 NC/0R R0402
VCC-EFUSEB
VCC18-DSI-CSI
VCC18-PF
RP98 10K R0603
GND
VCC-PG
RP37 NC/0R R0402
VCCIO-WIFI
RP40 NC/0R R0402
VCC-PC
RP42 NC/0R R0402
VCC18-DSI
VCC18-WIFI
DLDO2
DVDD-CSI
BLDO2
RP48 NC/0R R0402
AVDD-CSI
需求较高时需外挂high PSRR LDO
DCDC5
RP110 NC/0R R0402
RP111 NC/0R R0402
VCC-PD
VCC-PE
AXP2101
UP1
VBUS
VMID
VSYS
GPIO1
SW
BAT
TS
CHGLED
VREF
ALDOIN
ALDO1
ALDO2
ALDO3
ALDO4
BLDOIN
BLDO1
BLDO2
SDA
SCK
IRQ
PWROK
PWRON
CP1 10uF-10V C0603
CP3 10uF-10V C0603
CP35 NC-10uF C0603
CP5 10uF C0603
LP1 1uH-2A LP300_350H210
CP7 2.2uF C0603
RP2 10K R0402
RP87 2K R0402 DP1 LED-0402-G
CP9 2.2uF C0402
T3
EXT_IRQ
CP11 2.2uF C0402
CP12 2.2uF C0402
CP14 2.2uF C0402
CP15 2.2uF C0402
CP16 2.2uF C0402
RP30 0R R0402
RP33 NC-0R R0402
CP17 10uF C0603
CP19 2.2uF C0402
CP21 4.7uF C0402
VCC-RTC
RP4 NC-2K R0402
RP5 NC-2K R0402
RP6 10K R0402
RP7 NC-10K R0402
PMU-SDA
PMU-SCK
AP-NMI
AP-RESET
Just for Leakage Test
PWRON-AXP2101
RP8 1K R0402
DP2 LED-0402-R
RP24 2K R0402
RP23 510R R0402
CP30 1nF C0402
SW19 PWRON
RP22 510R R0402
SW20 AP-RESET
CP29 1nF C0402
CP24 100nF C0402
VIN1
LX1
FB1
DLDO1/DC1SW
VIN2
LX2
FB2
VIN3
LX3
FB3
VIN4
LX4
FB4
CPUSLDO
DLDO2/DC4SW
RTCLDO
VBACKUP
GND1
EPAD
CP2 4.7uF C0603
LP2 1uH-2A LP300_350H210
CP4 22uF C0603
CP31 NC-10uF C0603
CP6 2.2uF C0402
RP97 NC-300R R0402
加快泄放电速度
CP3 NC-1uH-2A
LP3 LP300_350H210
LX2-OUT
CP8 NC-22uF C0603
CP32 NC-10uF C0603
DCDC2-FB
CP10 4.7uF C0603
LP4 1uH-2A LP300_350H210
LX3-OUT
CP13 22uF C0603
CP33 NC-10uF C0603
DCDC3-FB
CP5 1uH-2A LP300_350H210
CP18 10uF C0603
CP34 NC-10uF C0603
CP20 2.2uF C0402
CP22 2.2uF C0402
注意DLDO2输入源为DCDC4，输入电压要高于1.2V时 才可设置为LDO 输出
CP23 2.2uF C0402
VBAT2
纽扣电池
CR927
BAT2
IMAX=2A
IMAX=1A
IMAX=1.5A
IMAX=0.3A
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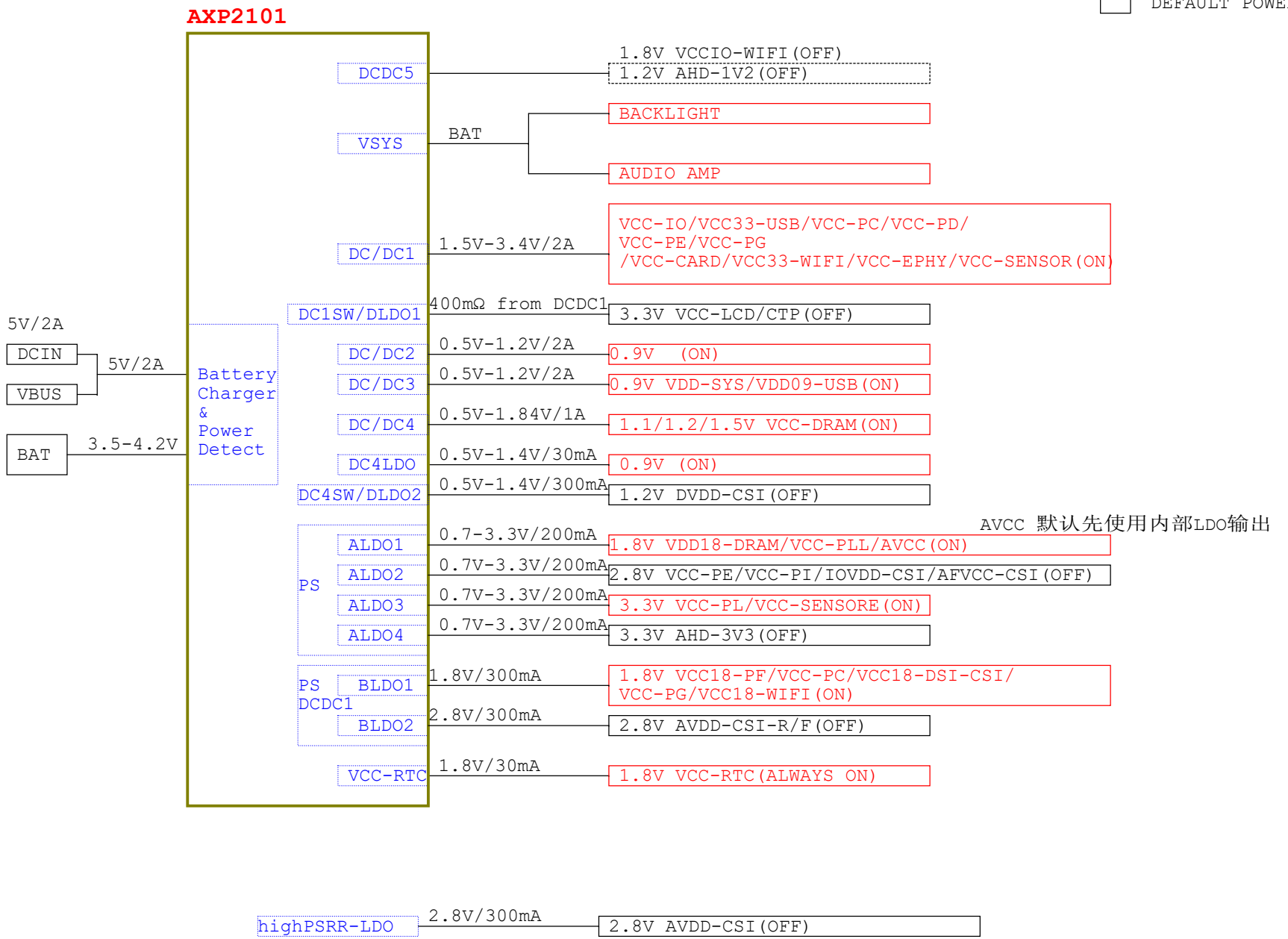
POWER TREE

DEFAULT POWER ON

DEFAULT POWER OFF



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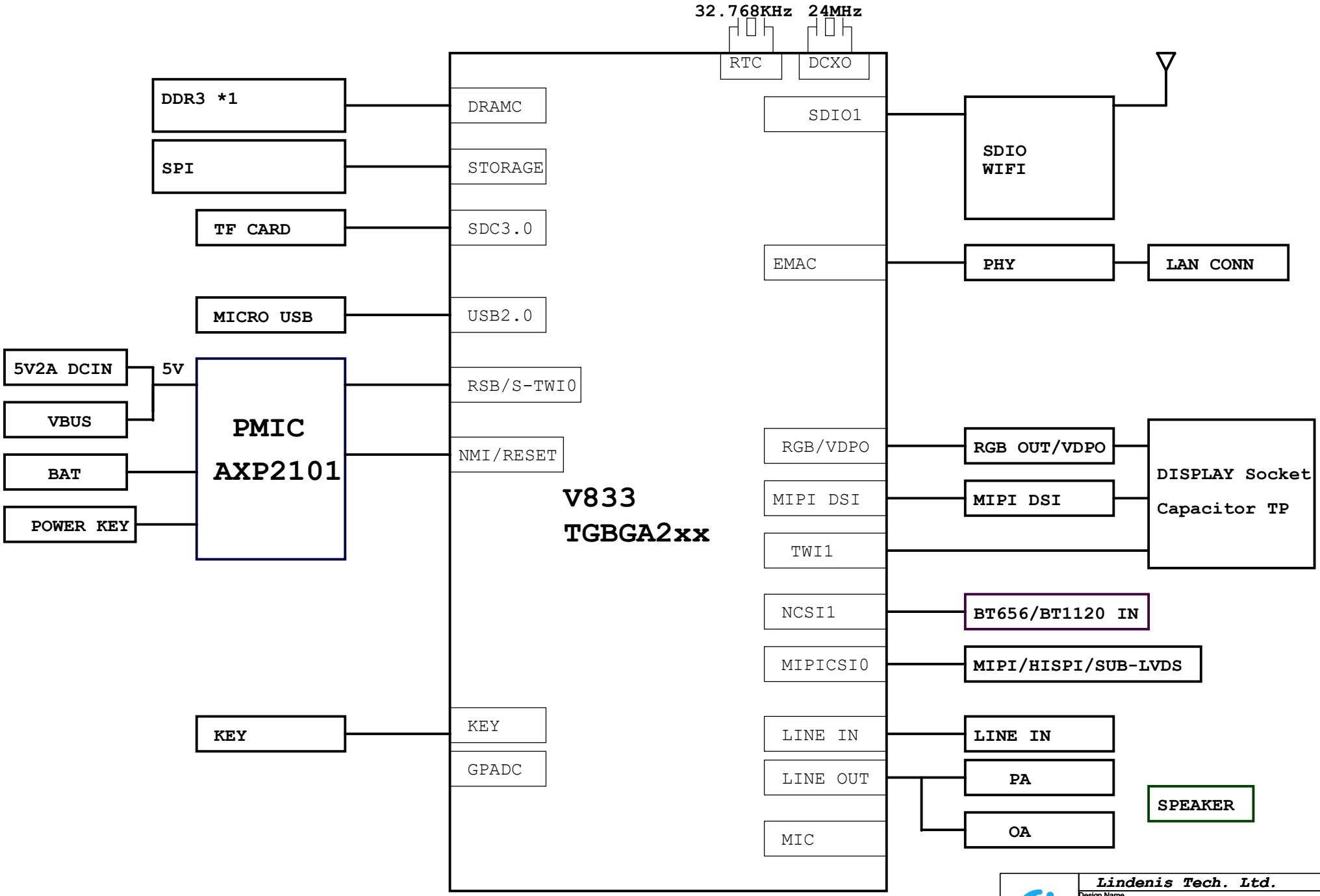
BLOCK



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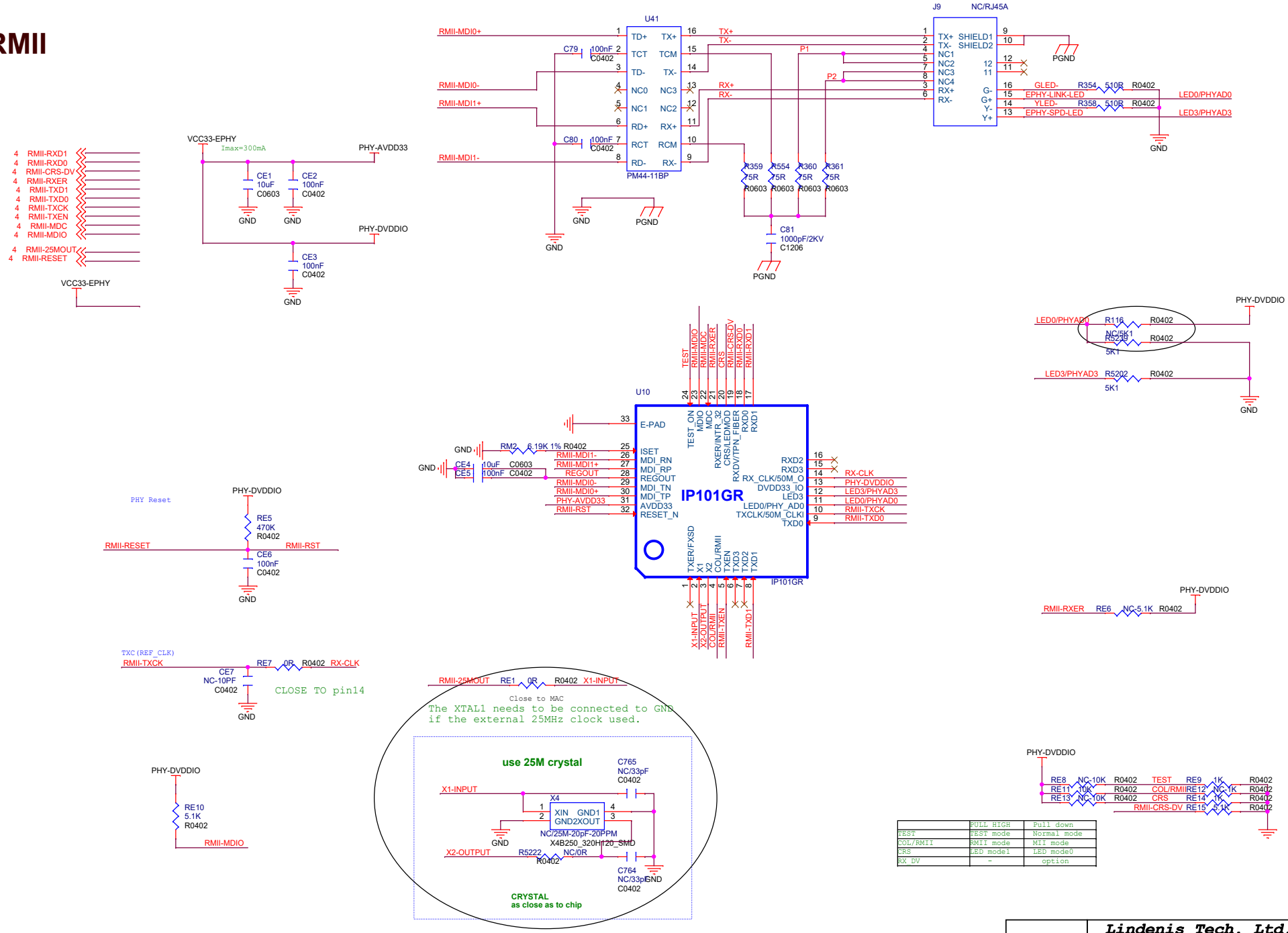
REVISION HISTORY

Revision	Description	Date	Drawn	Checked
Ver 0.1	Initial Version	2020-12-03	HXF	

Schematics Index:

RMII



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