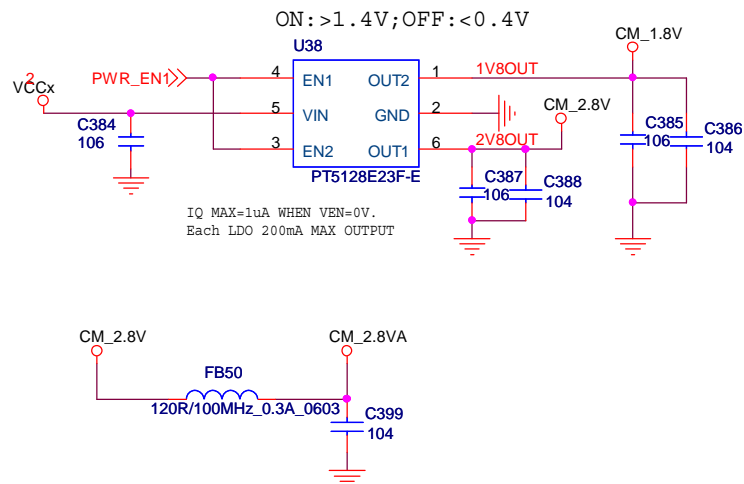
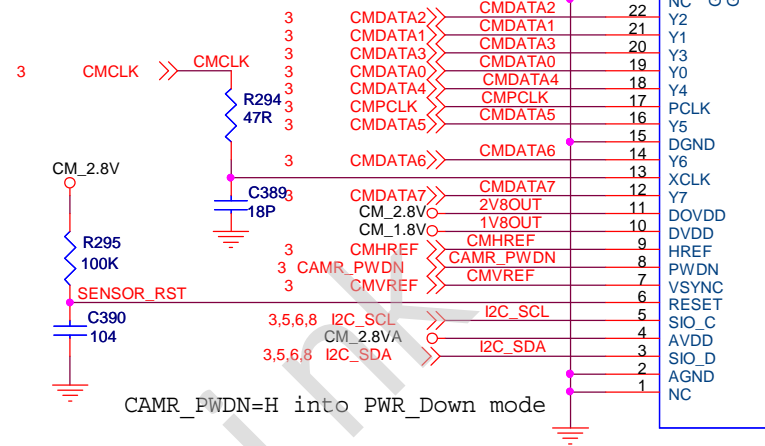


# zenithink CAMERA PART



亦可用广州大凌实业有限公司摄像头  
DC-100628A:200W pixels/  
30fps for SVGA&15fps for UXGA.  
注意两种摄像头FPC接口定义有所不同。

友立森摄像头:30W pixels/30fps

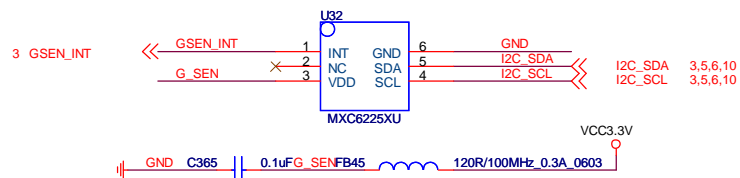


注意确认摄像头型号与所需机构是否匹配，很多型号都是为指定机构所做。



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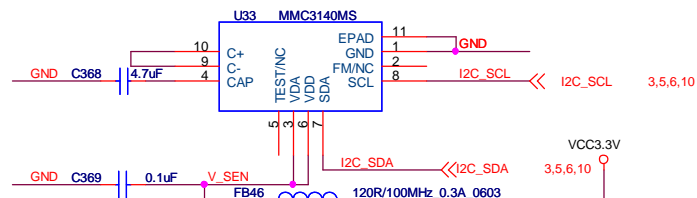
## G Sensor



I2C ADDRESS: 2AH

## Magnetic Sensor

注意: MMC3140MS封装与MMC3140MR不同

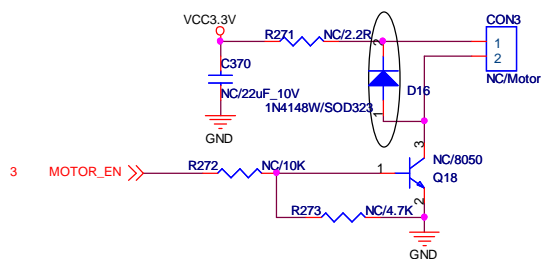


Far from Speaker, >50mm  
Far from Power line, >10mm

## 触力马达

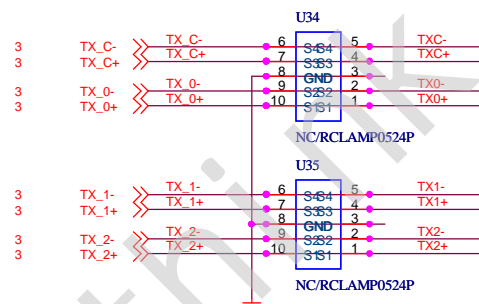
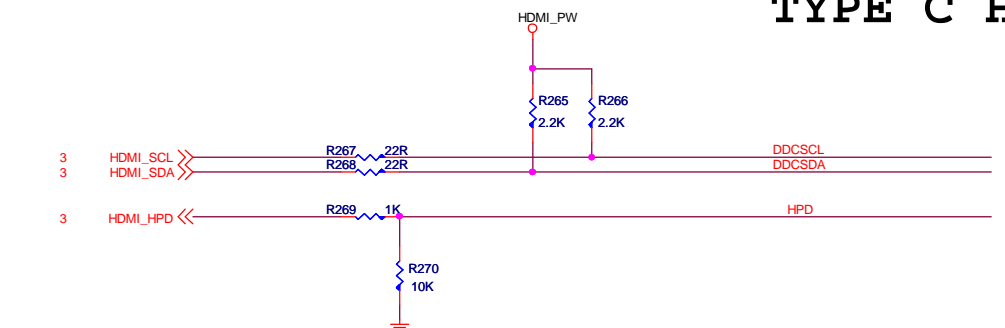
## OPTIONAL

layout注意预留MOTOR的摆放位置

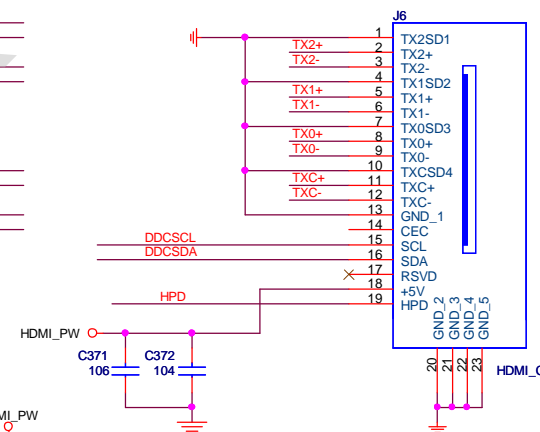
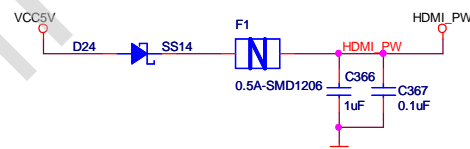


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## TYPE C HDMI



HDMI Spec.  
+4.8V < PVDD5 < +5.3V

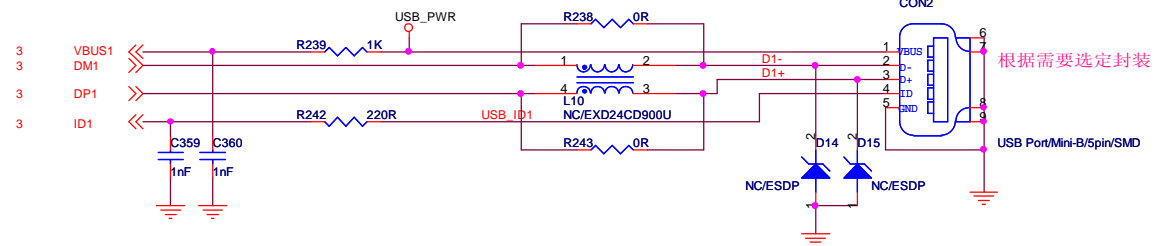
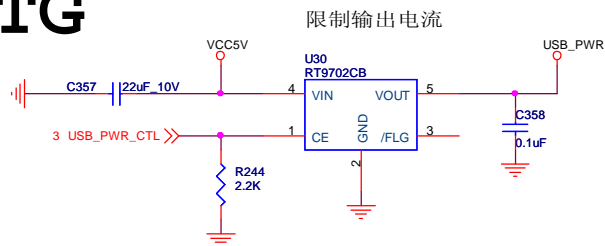


注意: 此处信号为TypeC排列,  
和TypeA, B座子信号排列不同

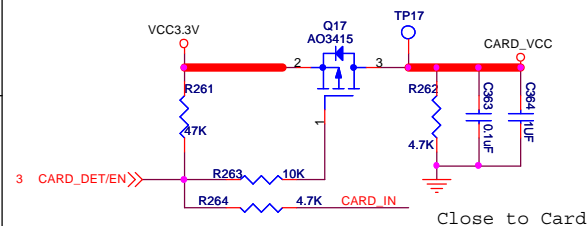
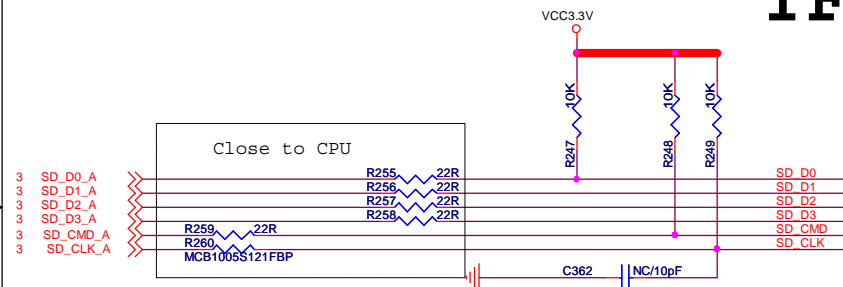


Title			AML8726-M_MID_Ref
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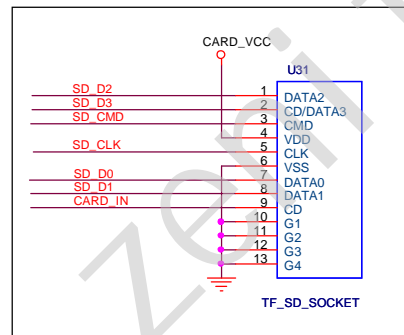
zeni<sup>3</sup> thi nk



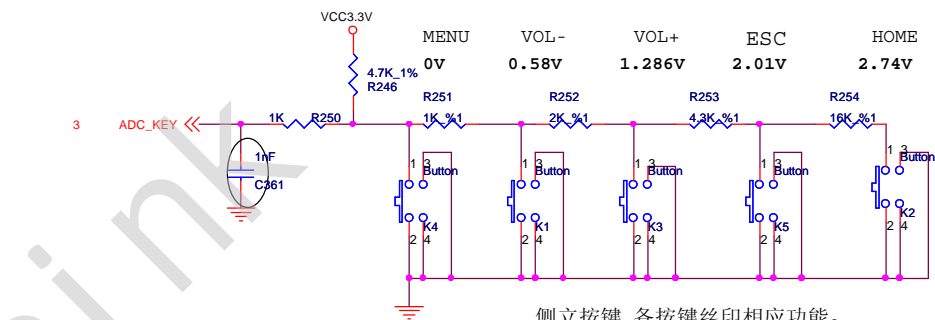
# TF CARD



可以检测卡的输入及卡电源的控制。  
CARD\_DET/EN默认为输入，  
检测到低电平后（有卡插入），  
设为输出可控制卡电源，稳定  
后，设为输入，检测是否有卡  
插拔的操作。只用单一的卡时，  
可以不做电源控制。



# IR



側立按键,各按键丝印相应功能。

需要较少按键时，可以去掉一些按键，合并阻值。  
同时按下多个按键时，检测到最左边  
低压按键OK键等特殊按键应当放在  
右侧高压端

# ADC KEY



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## Audio

如果不需要FM和MIC输入  
可以直接使用AML8726-M  
内部的Codec。

## HEADPHONE

请check实物封装确保左右声道正确,确保结构性一致。  
注意满足“耳麦插头”插入时亦能侦测到。

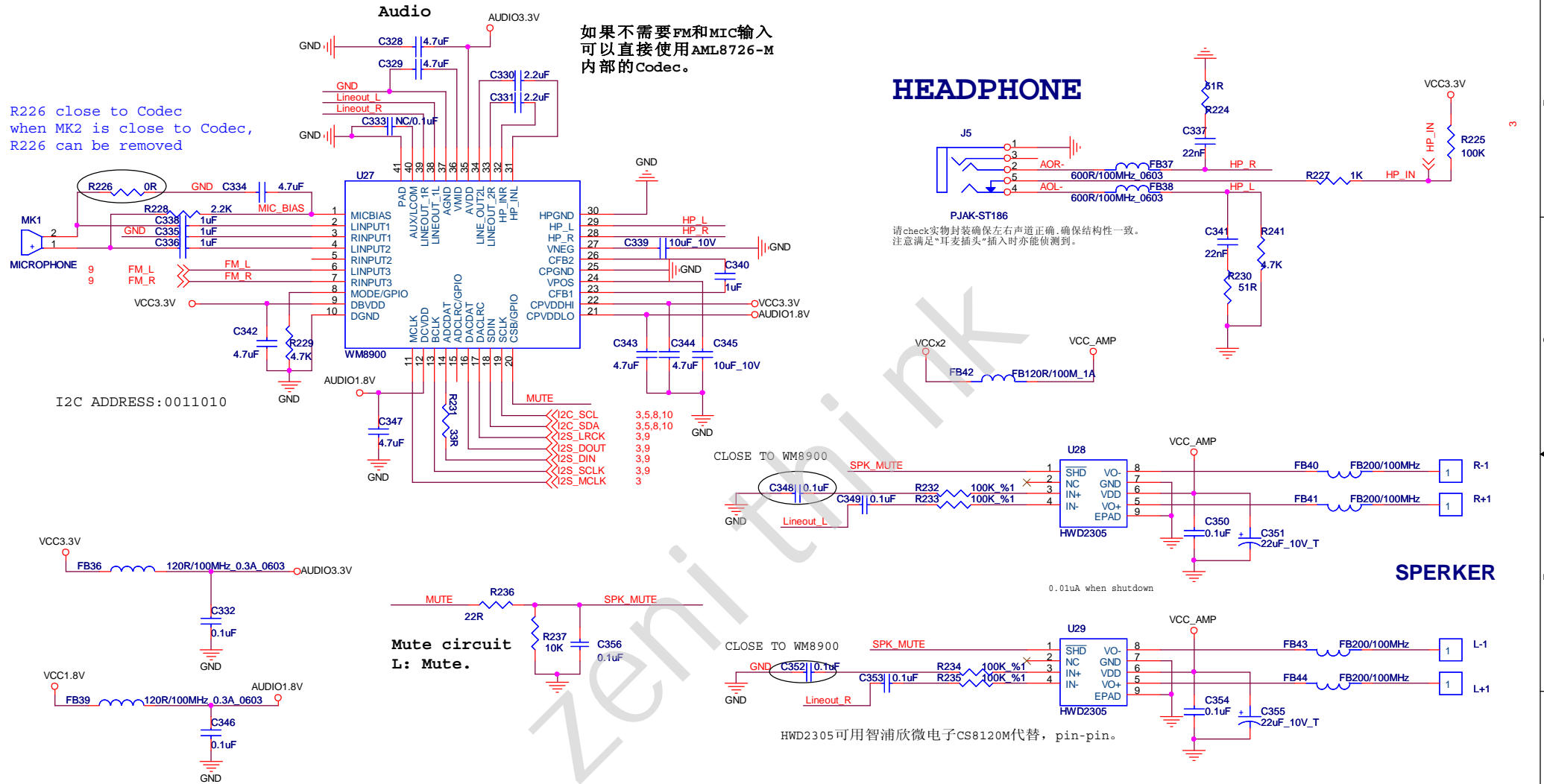
**SPERKER**

0.01uA when shutdown

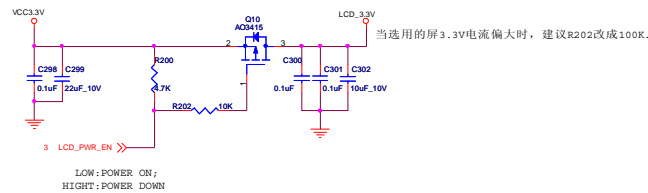
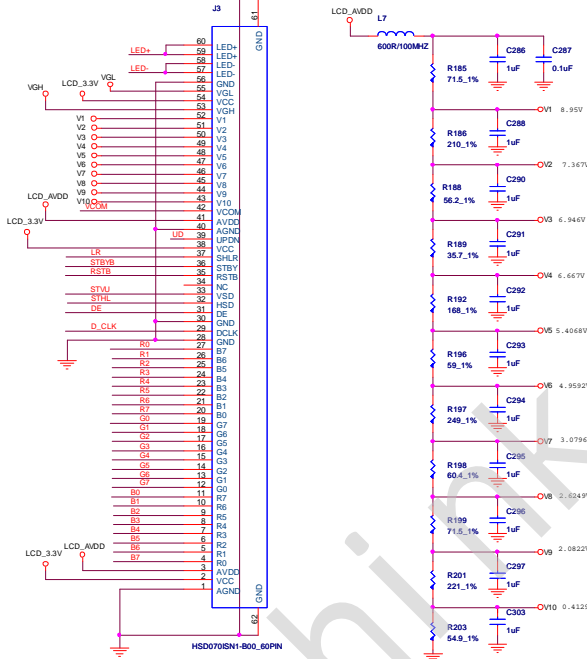
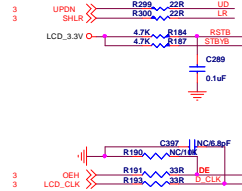
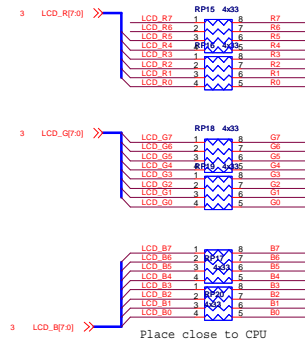
HWD2305可用智浦欣微电子CS8120M代替, pin-pin。



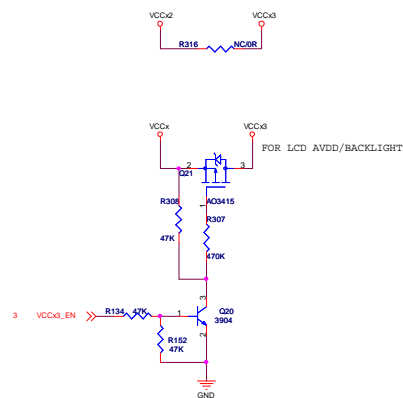
Title				
AML8726-M_MID_Ref_B				
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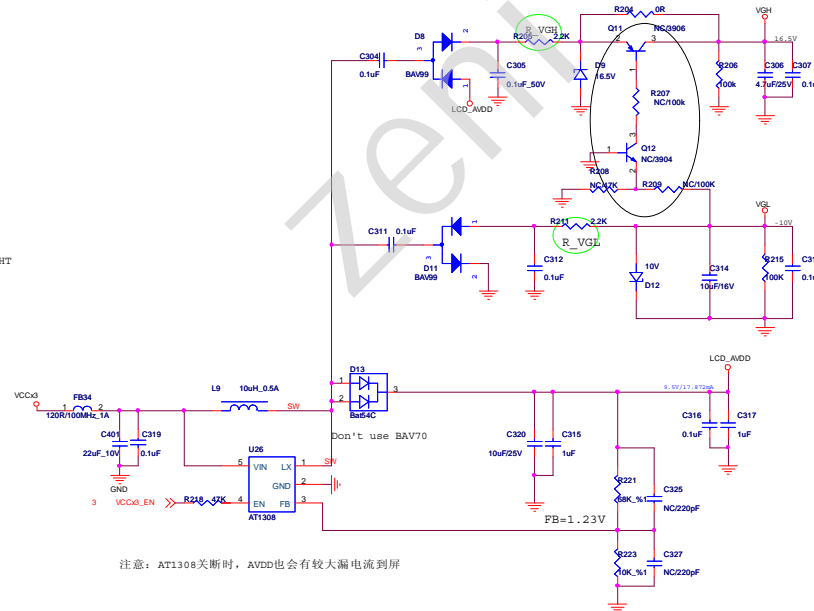
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## AVDD&VGH&VGL&BL POWER

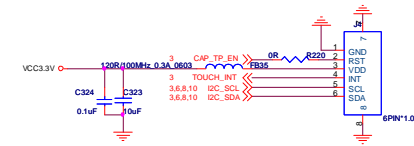


若不需要在HDMI输出模式时完全关断panel部分电源,可cancel此部分控制开关电路,ADD R316.

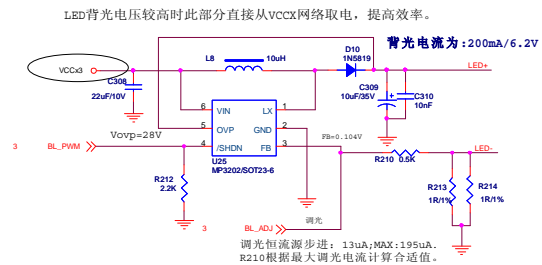
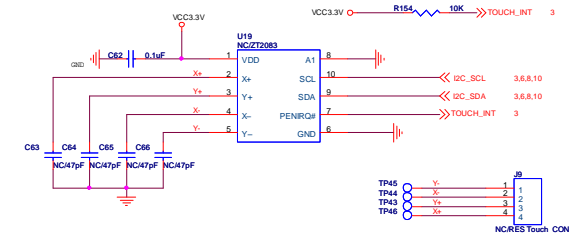


注意：AT1308关断时，AVDD也会有较大漏电流到屏

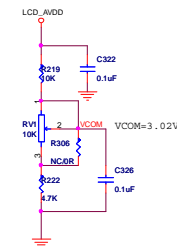
## Capacitive touch Connctor

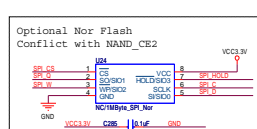
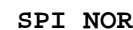
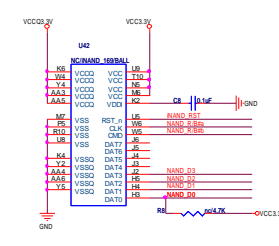
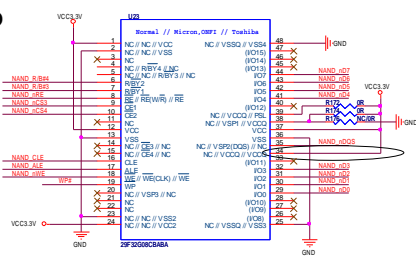
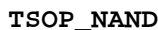
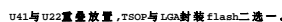
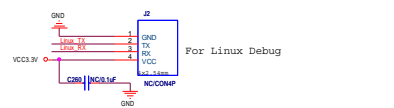
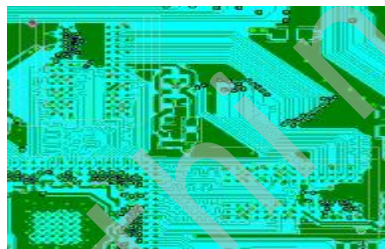
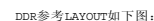
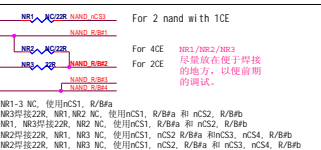
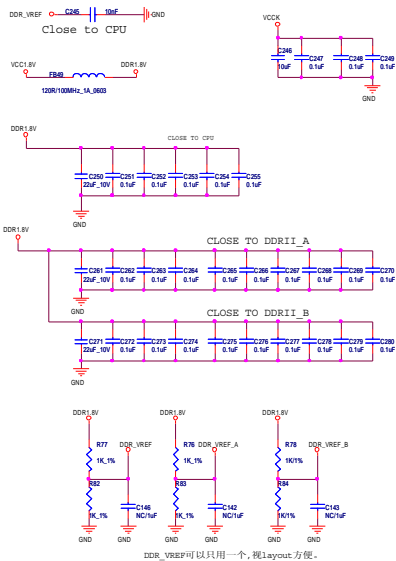


## Optional Res Touch Circuit

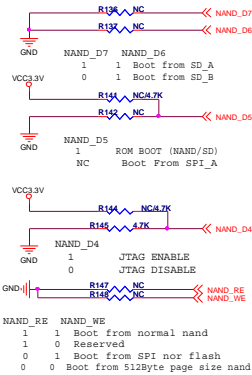
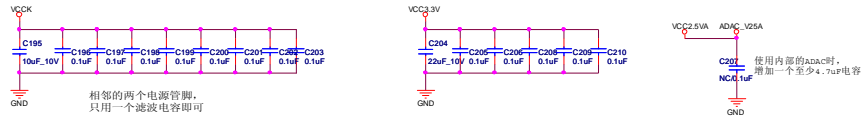


可用YB1517代替MP3202, 用YB1517时, R210改成1.2K, R213取33R/1%, R214取2R/1%。选择此IC时注意查看过压保护点。  
大电流背光建议选择FB较小的升压IC。



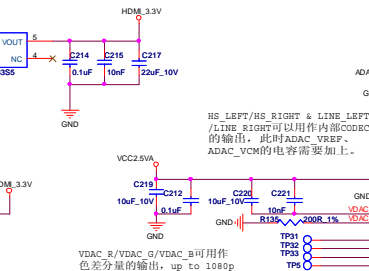
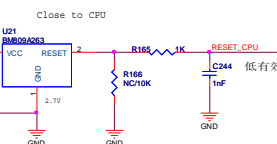
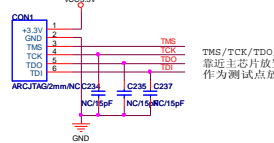
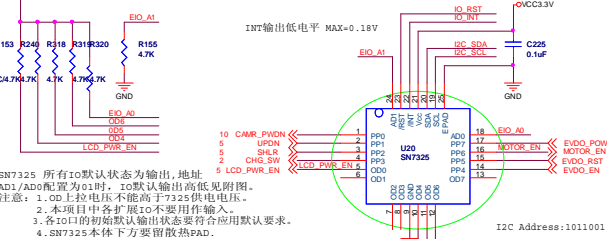


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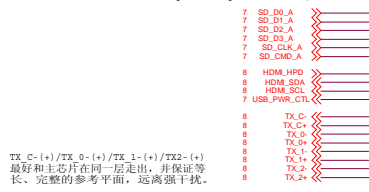


## Power ON Config

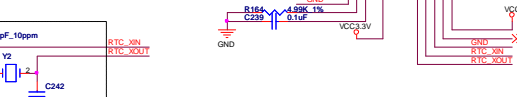
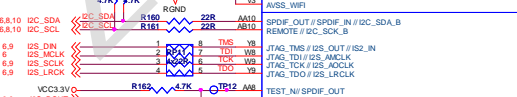
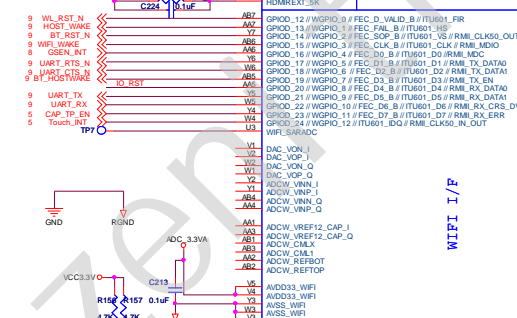
## 扩展IO



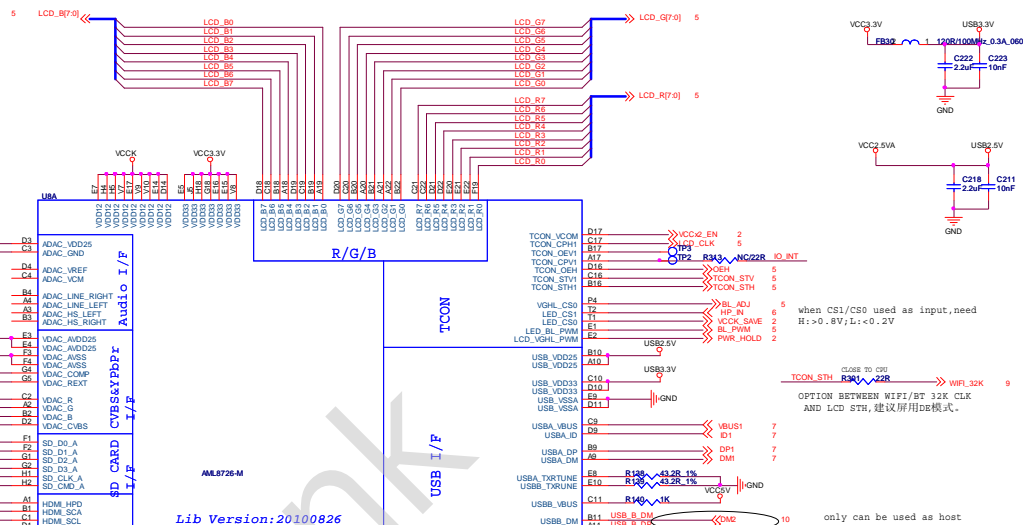
VDAC\_R/VDAC\_G/VDAC\_B可用作  
色差分量的输出, up to 1080



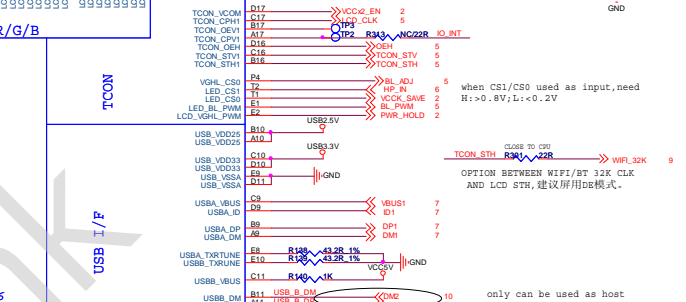
TX C-(+)/TX 0-(+)/TX 1-(+)/TX2-(+)最好和主芯片在同一层走出,并保证等长、完整的参考平面,远离强干扰



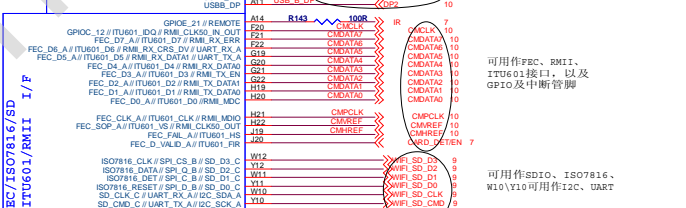
RTC layout注意:  
紧挨CPU, osc走线尽量短,  
包电源地, 背后覆铜  
预留覆盖屏蔽铜箔的接地点



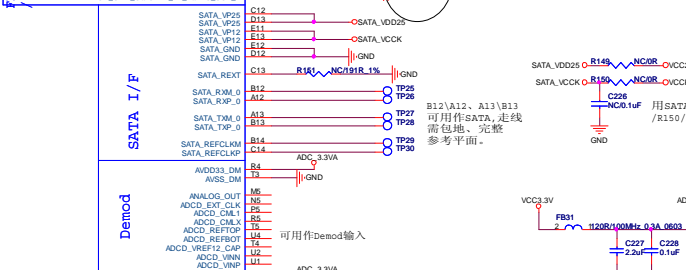
Lib Version:20100826



only can be used as host



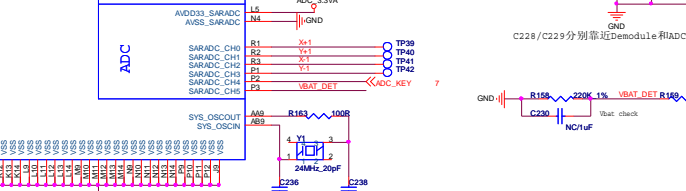
可用作SDIO、ISO7816、  
W10\Y10可用作I2C、UART



A13\B13  
ATA, 走线

C226  
NC/0.1uF

用SATA时, R149  
/R150/R151/C226接上。



T5	
U4	可用作Demod输入



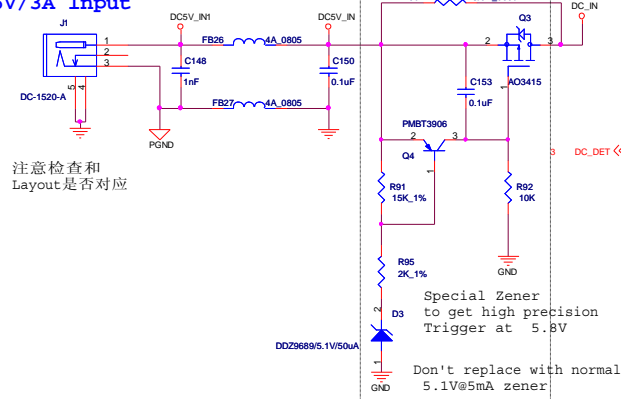
晶振走线尽量短，且具体下面铺地。



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5V/3A Input



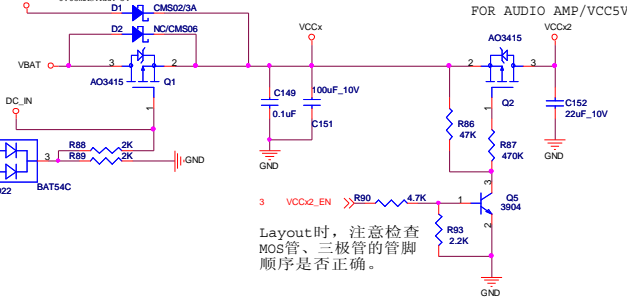
注意检查和  
Layout是否对应

Over voltage protect  
Optional

Special Zener  
to get high precision  
Trigger at 5.8V

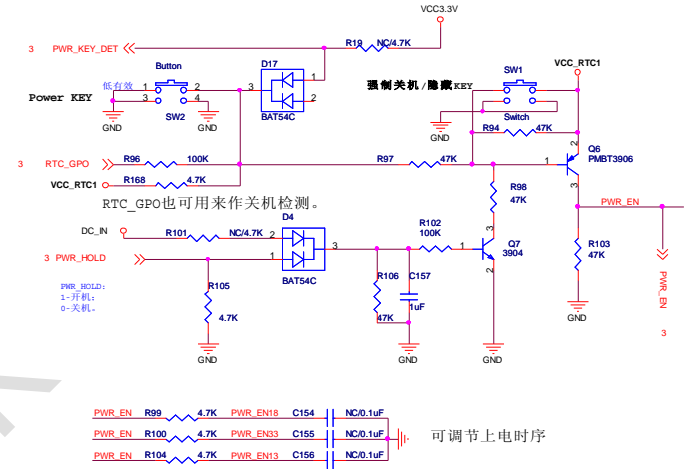
Don't replace with normal  
5.1V@5mA zener

D1/D2焊盘做大点,本体下方放置通孔到背面(裸露铜皮),以便散热。



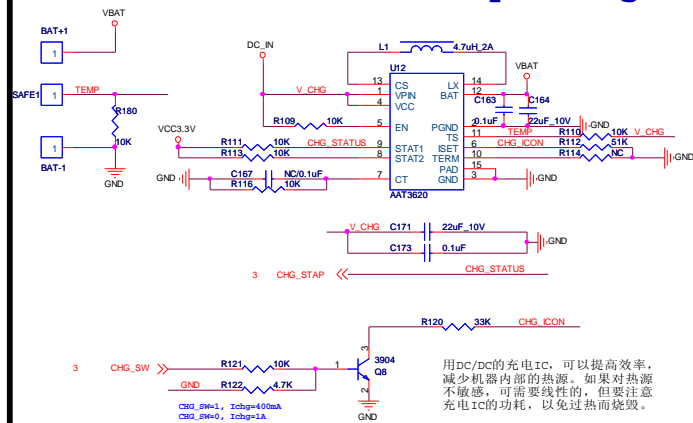
Layout时, 注意检查MOS管、三极管的管脚顺序是否正确。

## 定时开关机电路



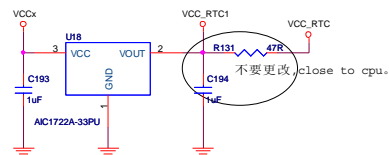
### 可调节上电时序

## Battery

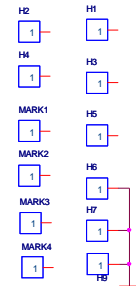


用DC/DC的充电IC,可以提高效率,减少机器内部的热源。如果对热源不敏感,可需要线性的,但要注意充电IC的功耗,以免过热而烧毁。

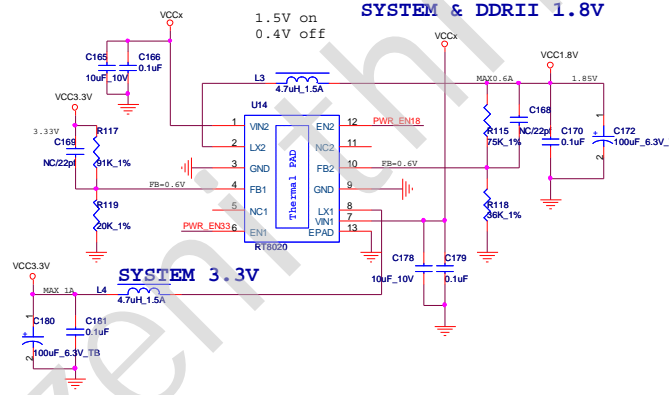
## RTC Power



不要更改),close to cpu.

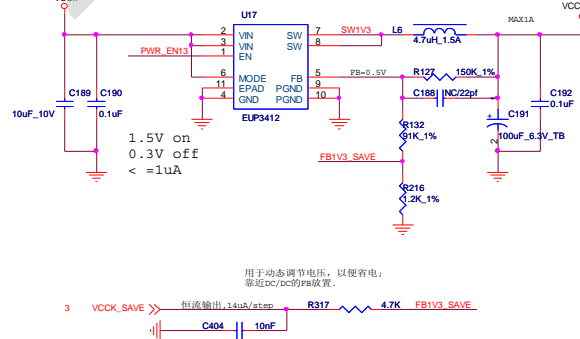


## SYSTEM &amp; DDRII 1.8V

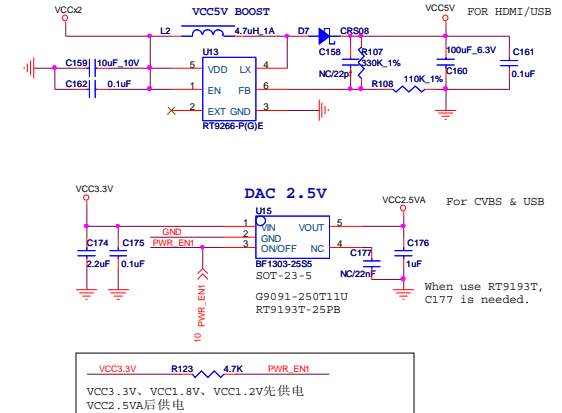


TO Decoder  
Use 1.25V  
MAX 1A

## SYSTEM 1.25V



用于动态调节电压，以便省电靠近DC/DC的FB放置。



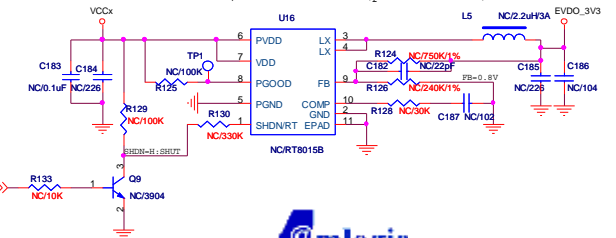
DAC 2.5V

VCC2.5VA For CVBS & USB

When use RT9193T,  
C177 is needed.

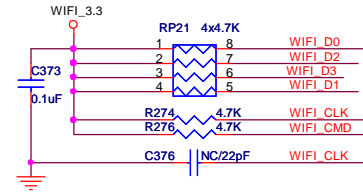
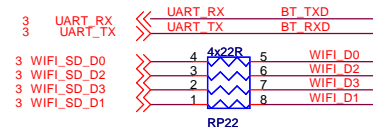
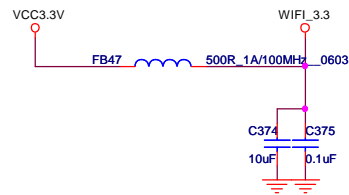
VCC3.3V、VCC1.8V、VCC1.2V先供电  
M771、M772后供电

For /normal max 1.1A(peak max2.75A)



L2/L3/L4/L5/L6 DC R <0.2Ω





天线的Layout要根据  
天线厂家特定的要求来做。  
同时考虑产品的结构。

Ant. 2412-2462MHz

WIFI&BT的天线可以用  
陶瓷、PCB等

当使用4319模块时，  
此部分不焊接，或删掉

FM天线可用陶瓷天线，  
或使用耳机线做天线。

当使用4319模块时，  
R293、C380不焊接



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