

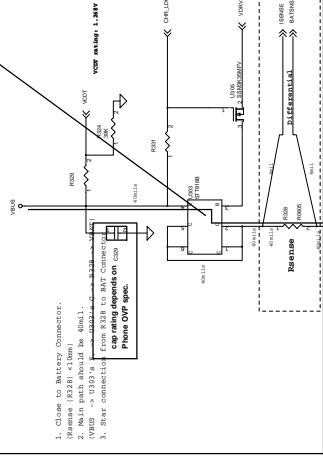




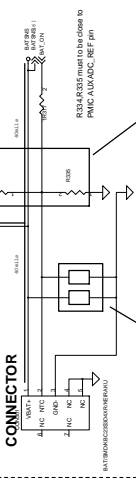
Refer to MT6323 design notice

## Charger

1. Close to Battery Connector.  
(Ramses 8328) <10mm
2. Main path should be 40mil.  
(WRSS -> U303)
3. Rear connection from R328 to BAT Connector.



## BATTERY



Based on your system level design, if better ESD performance is needed on

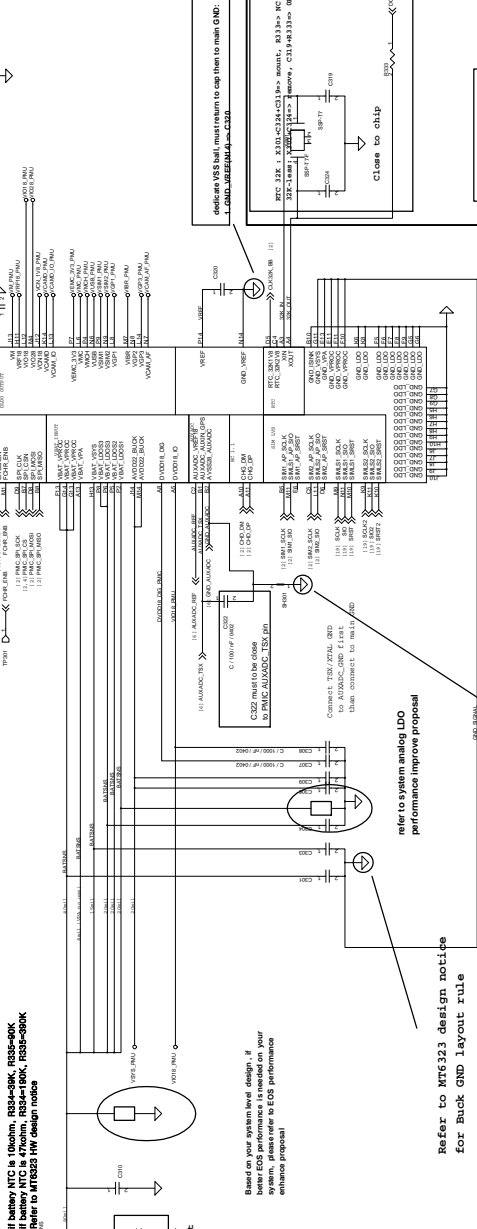
Based on your system level design, if better ESD performance is needed on your system, please refer to ESD performance enhance proposal

Add Zener Diode  
Place on the **5V<sub>OUT</sub>**  
from VBAT to IC  
(Battery connector)  
or test point or to

~~Between IC and IO port~~

**Refer to Mt6323 design  
notice for Zener selection**

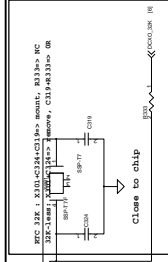
Refer to MT6323 design  
notice for Zener selection



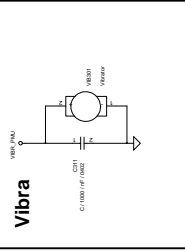
Refer to MT6323 design notice  
for Buck GND layout rule

Refer to GPS co-clock layout rule

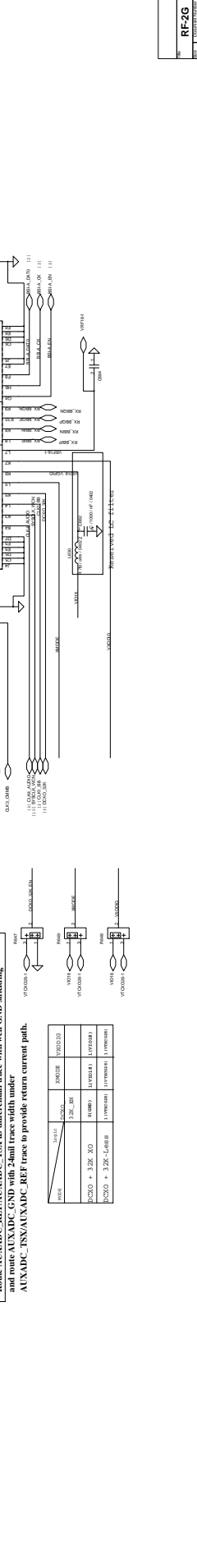
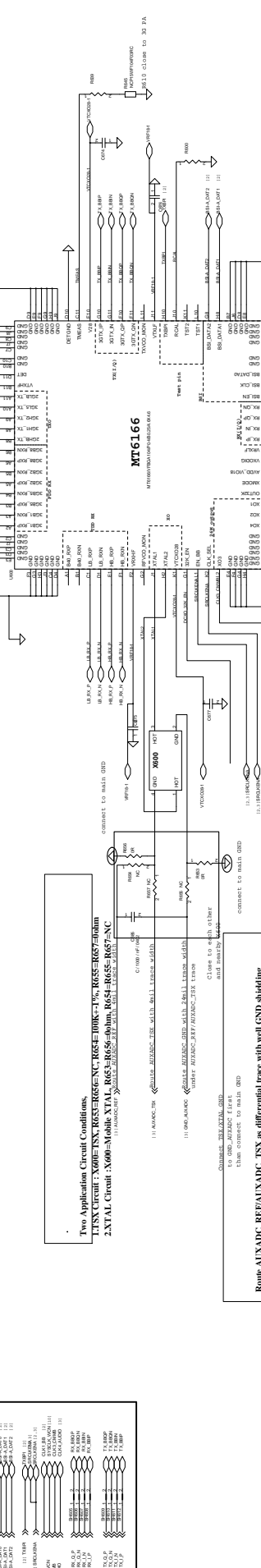
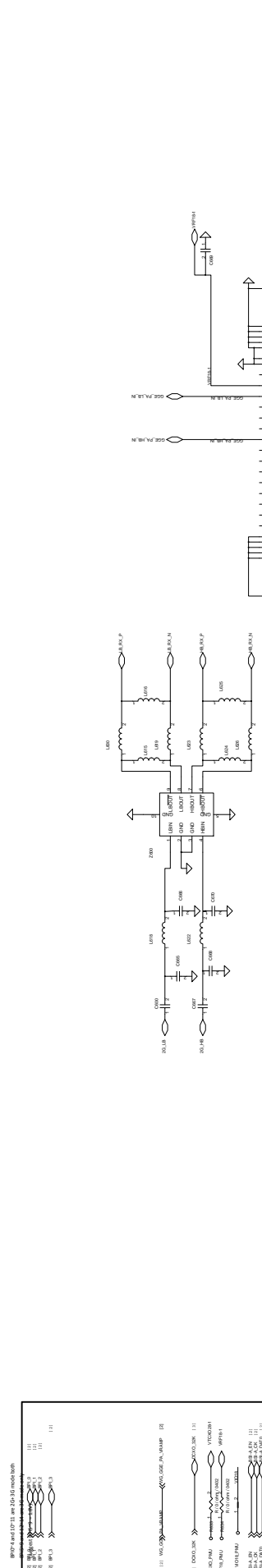
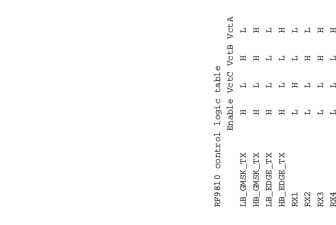
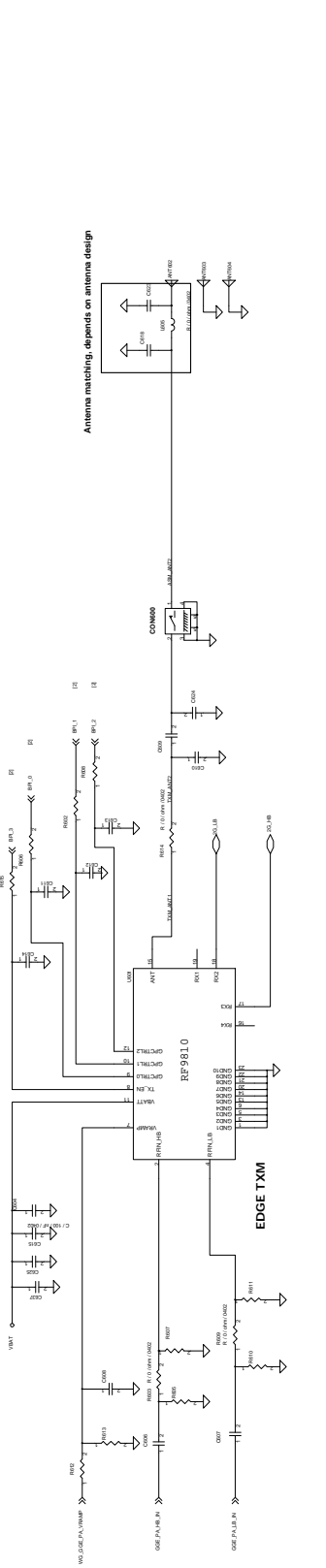
## RTC



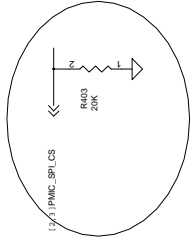
==> for longer RTC time sustain after battery remove,  
please refer to RTC design notice



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Date					
State	FileIn: December 26, 2012	Page	4	Total	10





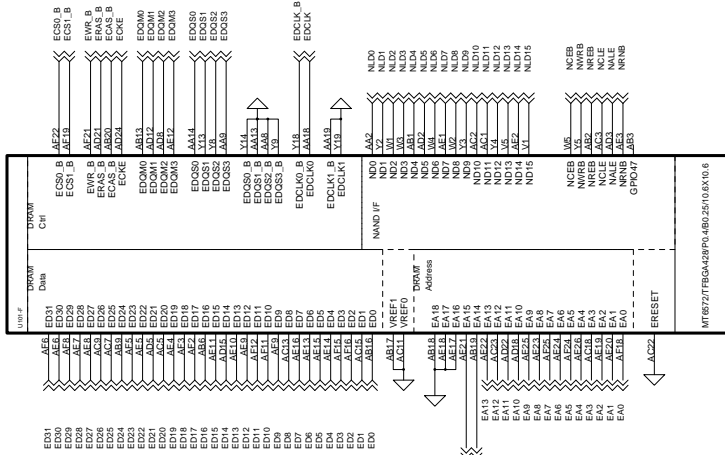


HW trapping PIN

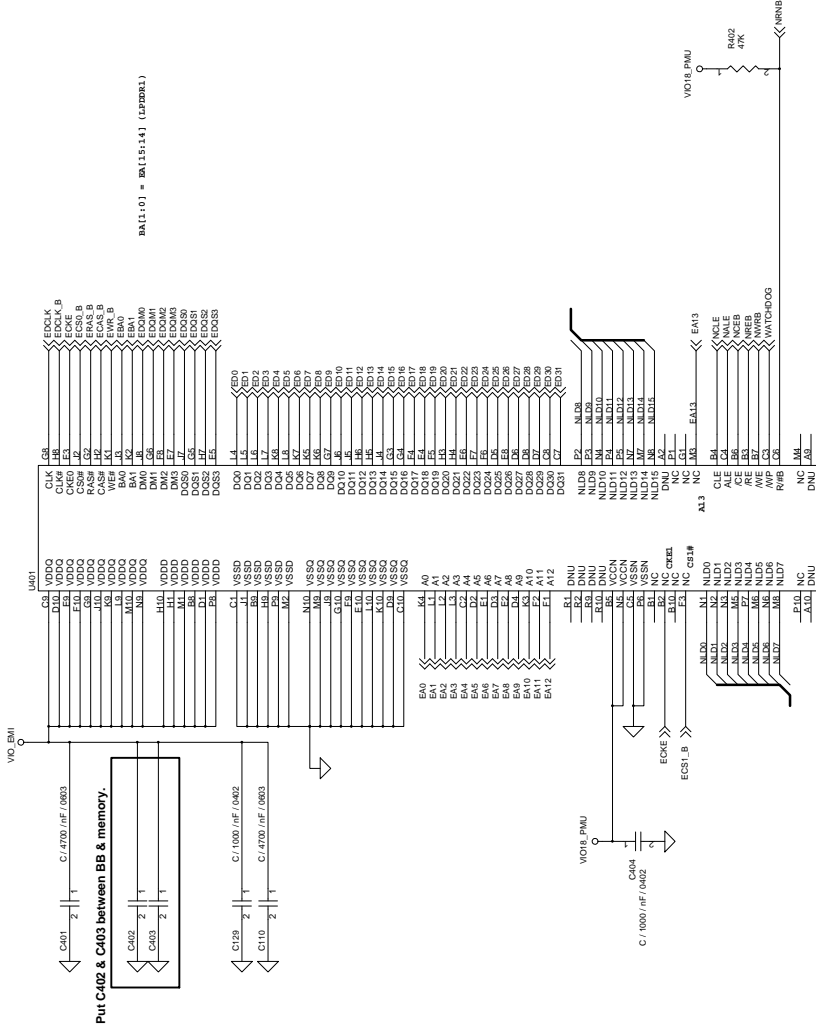
20K: VM=1.8V

NC : VM=1.2V

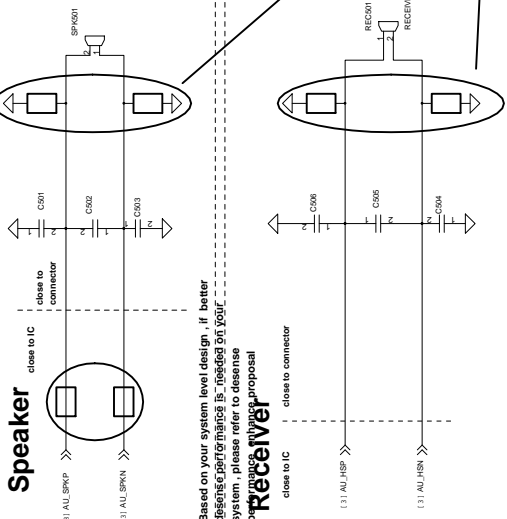
## Memory MCP



Please make sure the ball map is  
match to the MCP type you selected

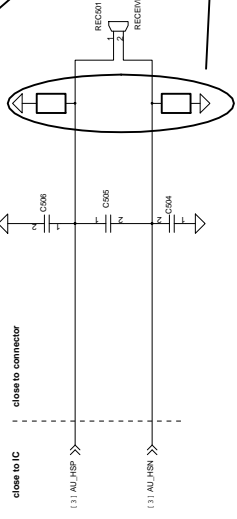


## Speaker



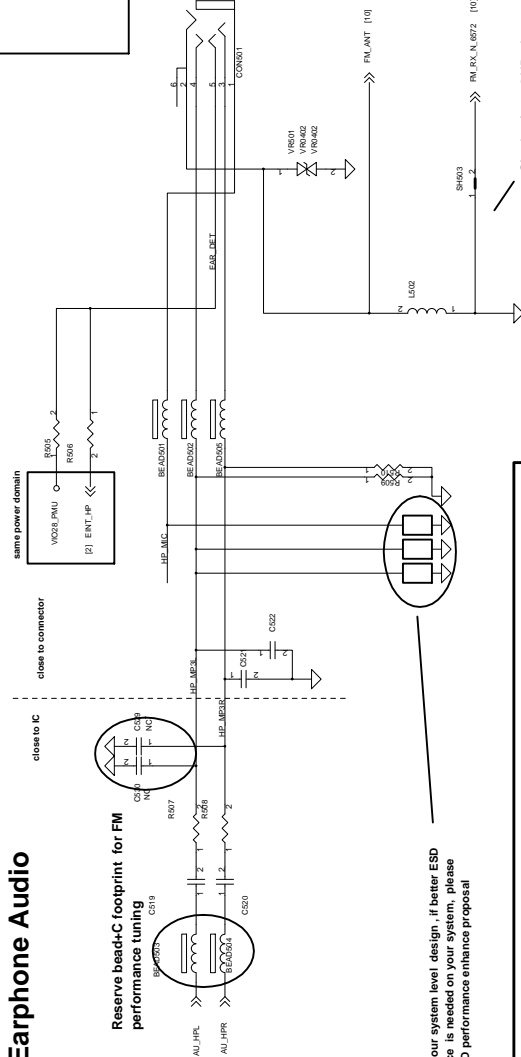
Based on your system level design, if better design performance is needed on your system, please refer to ESD performance enhancement proposal

## Receiver



Based on your system level design, if better design performance is needed on your system, please refer to ESD performance enhancement proposal

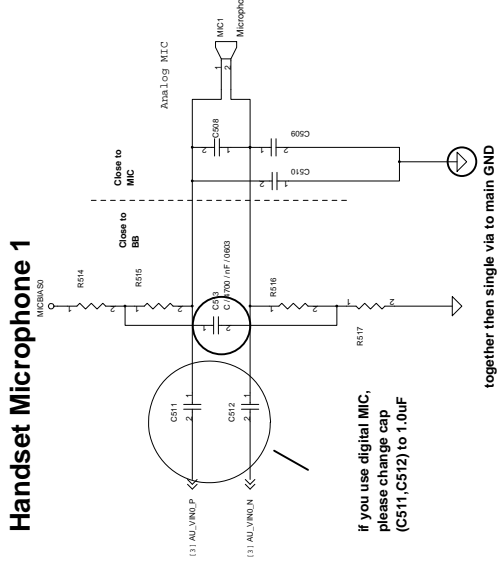
## Earphone Audio



Reserve bead-C footprint for FM performance tuning

Based on your system level design, if better ESD performance is needed on your system, please refer to ESD performance enhancement proposal

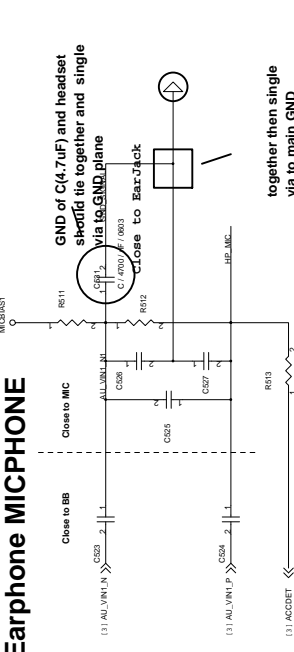
## Handset Microphone 1



if you use digital MIC, please change cap (C511,C512) to 1.0uF

together then single via to main GND

## Earphone MICROPHONE



GND of C(4.7uF) and headset should tie together and single via to GND plane

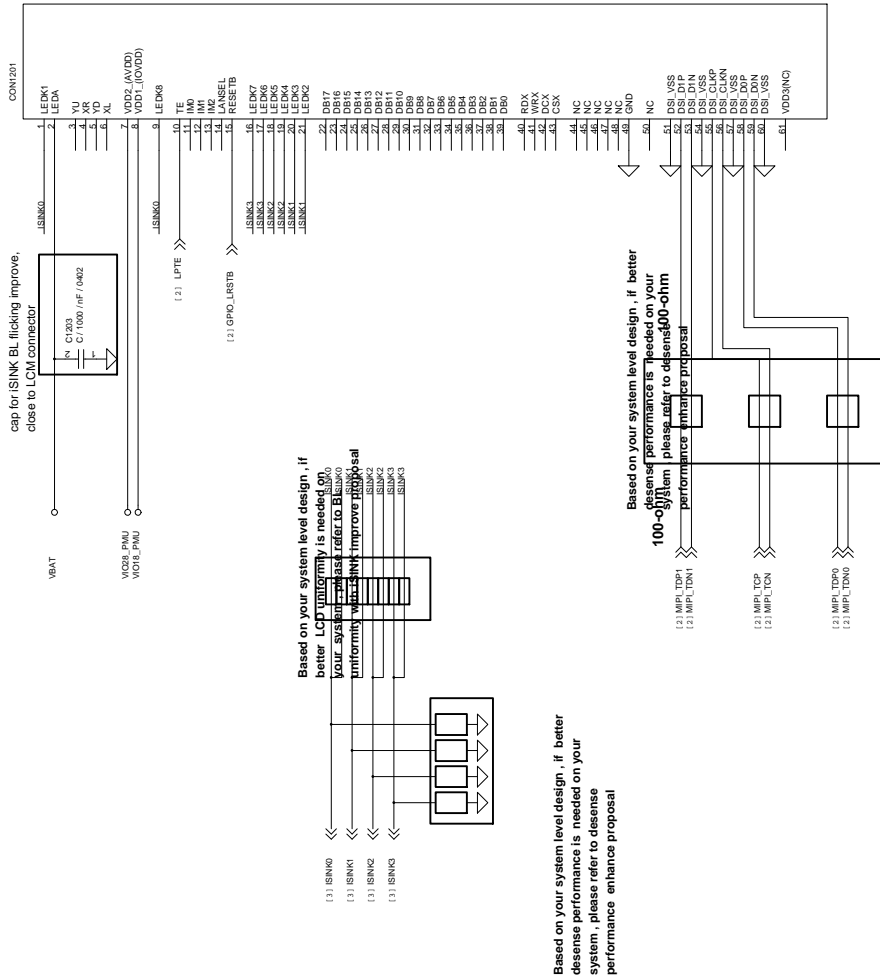
together then single via to main GND

## Audio

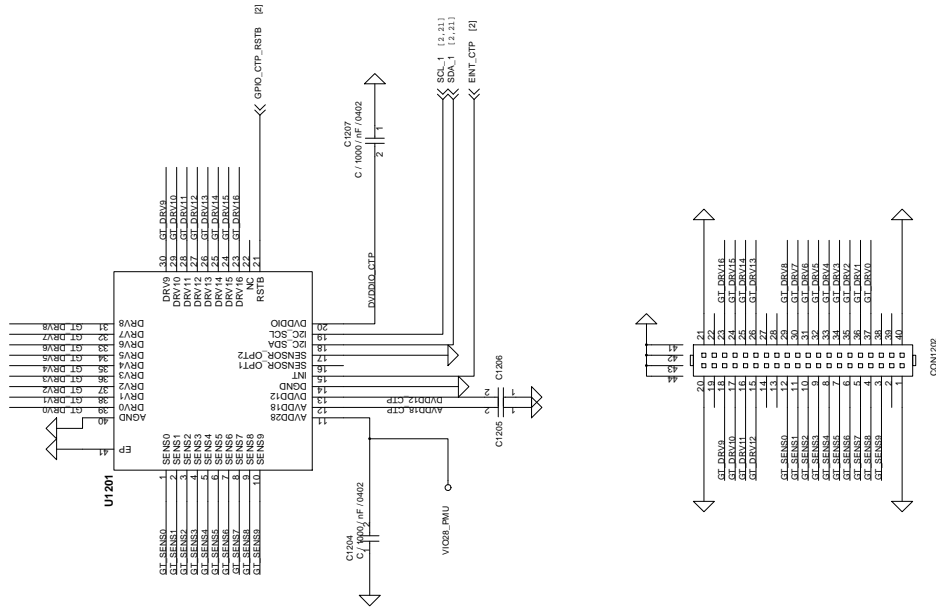
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# LCM



OR YAGEO PN: YC102-FR-070R



**LCD, Touch**

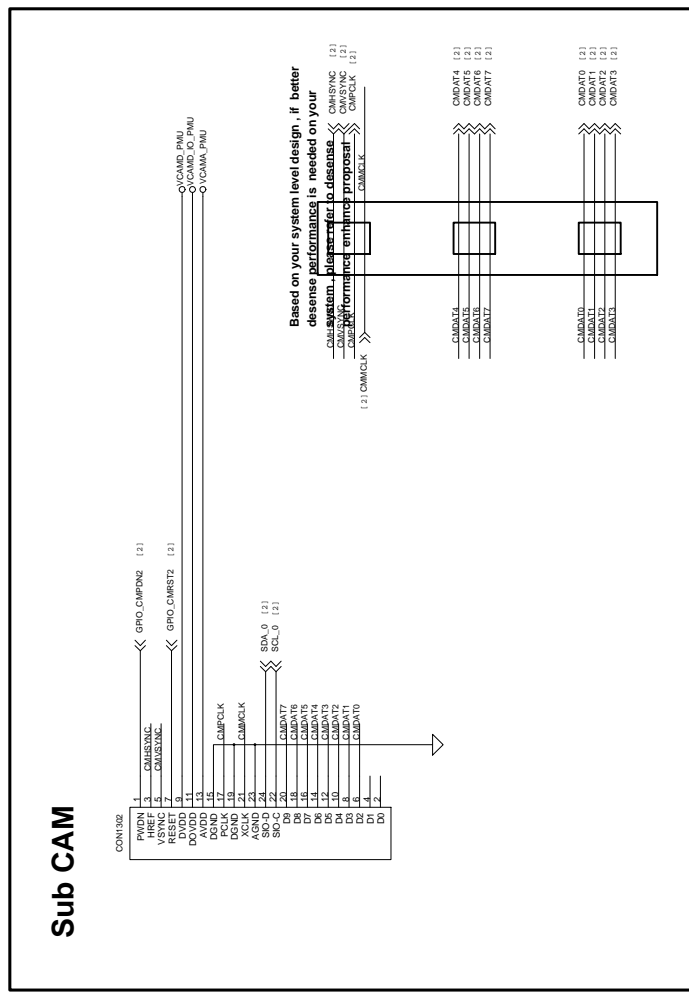
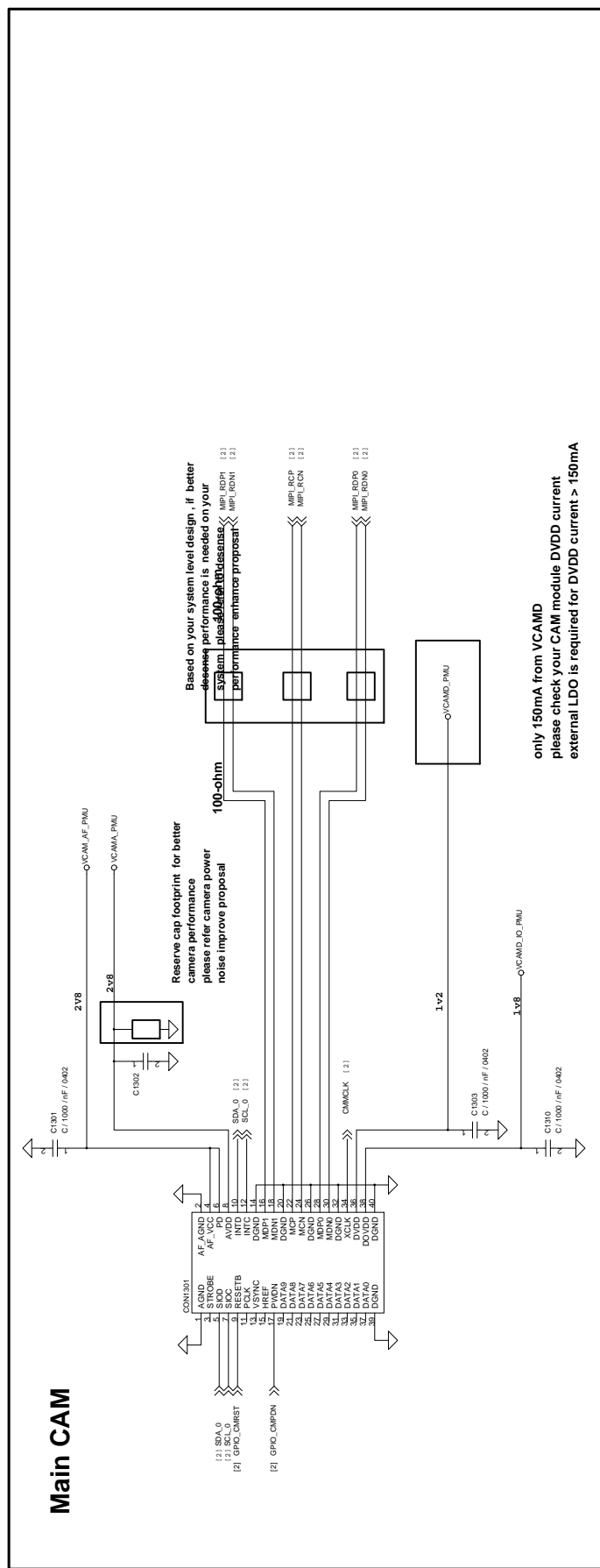
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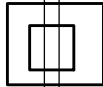
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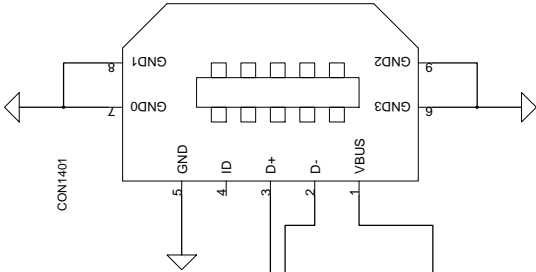
# USB HS IF

Based on your system level design , if better ESD performance is needed on your system, please refer to ESD performance enhance proposal



(2) USB\_DP  
(2) USB\_DM

VBUS O

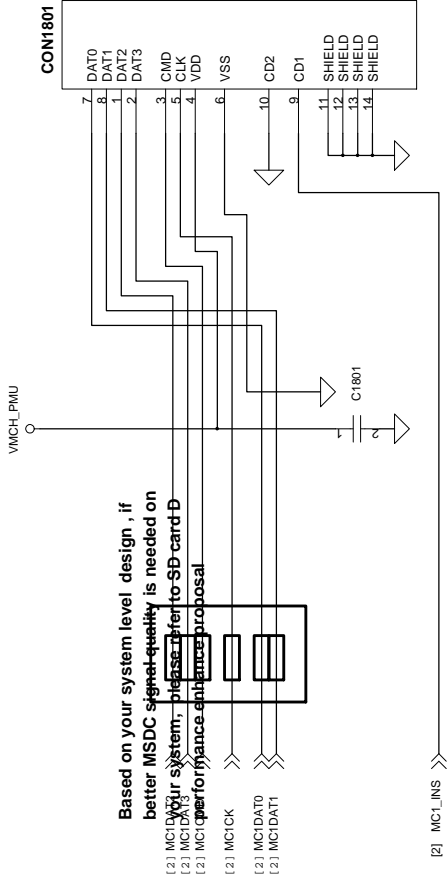


Based on your system level design , if better desense performance is needed on your system , please refer to desense performance enhance proposal

## USB

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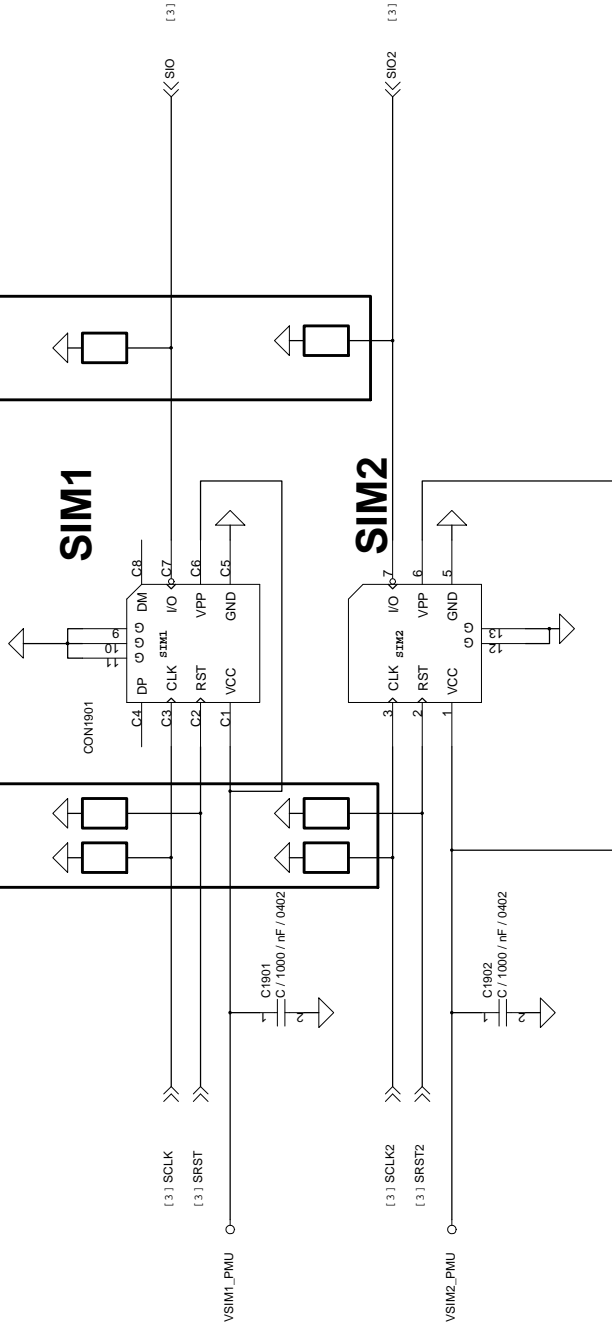
# Micro SD CARD



## Memory CARD

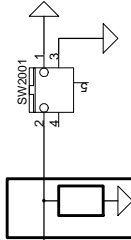
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Based on your system level design , if better ESD performance is needed on your system, please refer to ESD performance enhance proposal



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DO NOT put pull-up  
resistor on PWRKEY



## Power Key

Based on your system level design , if better ESD  
performance is needed on your system, please  
refer to ESD performance enhance proposal



## Volume Up



## Volume Down

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KP

Size

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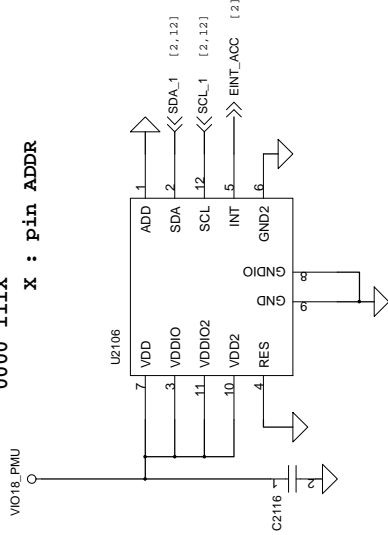
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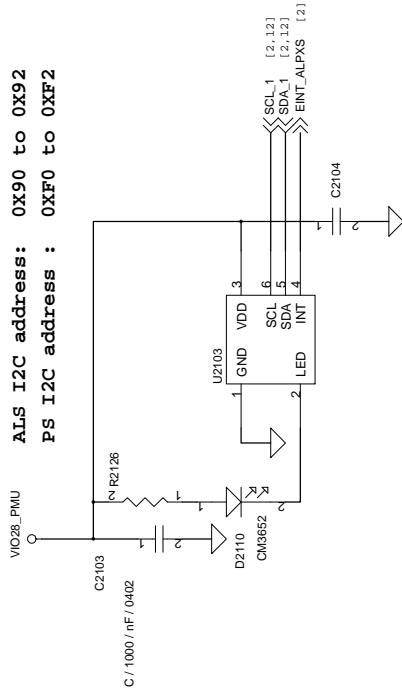
# G-Sensor

G Sensor I2C address  
0000 111X  
X : pin ADDR



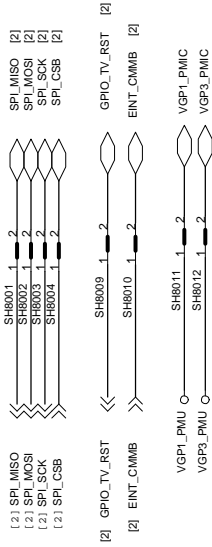
# ALS & PS Sensor

ALS I2C address: 0x90 to 0x92  
PS I2C address : 0xF0 to 0xF2

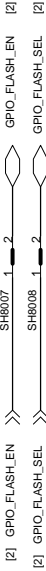


## MEMS Sensors

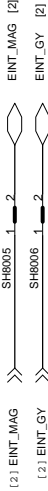
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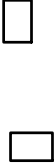
## CMMB



## Flash LED driver



## Magnetic, Gyro sensor



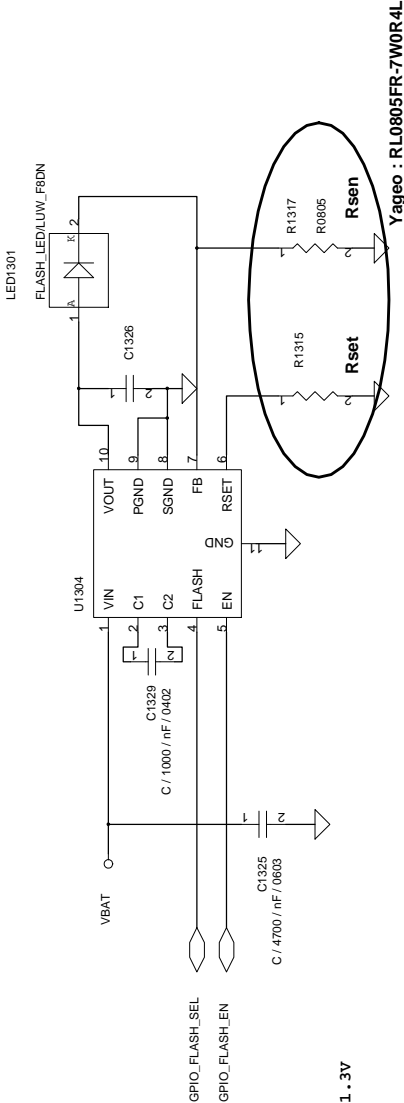
### Others

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# Camera Flash

Torch : <150mA  
Flash : <1000mA



## LED flash

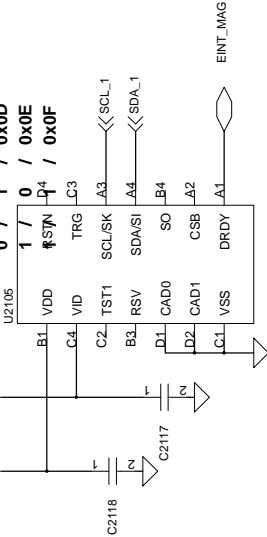
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# M-Sensor

M Sensor I2C address

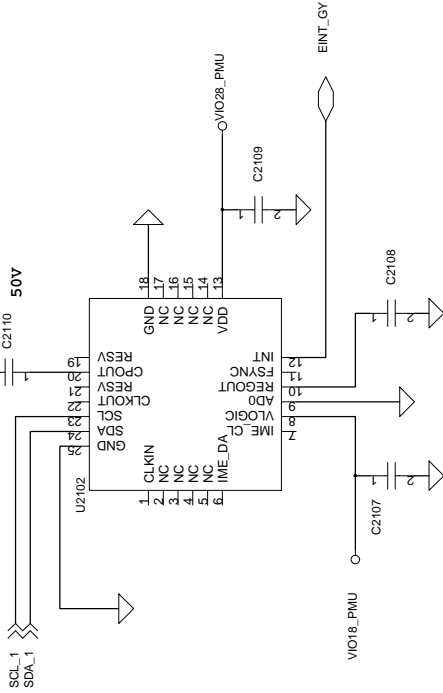
CAD1 / CAD0 / Add

0 / 0 / 0x0C  
0 / 1 / 0x0D  
1 / 0 / 0x0E  
1 / 1 / 0x0F



# Gyro Sensor

I2C Address: 0x68 (Write:0xD0, Read:0xD1)



Title

eCompass, Gyro

Size

D

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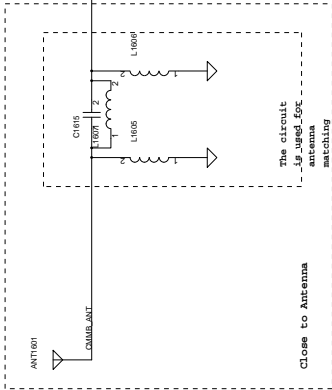
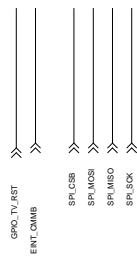
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**CMMB**

MT6572 REF PHONE