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Thundercomm

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Doc ID

Document Number

645\_98BOARD-MEZ\_BOARD

Rev

<V02>

Date:

Wednesday, January 16, 2019

Sheet

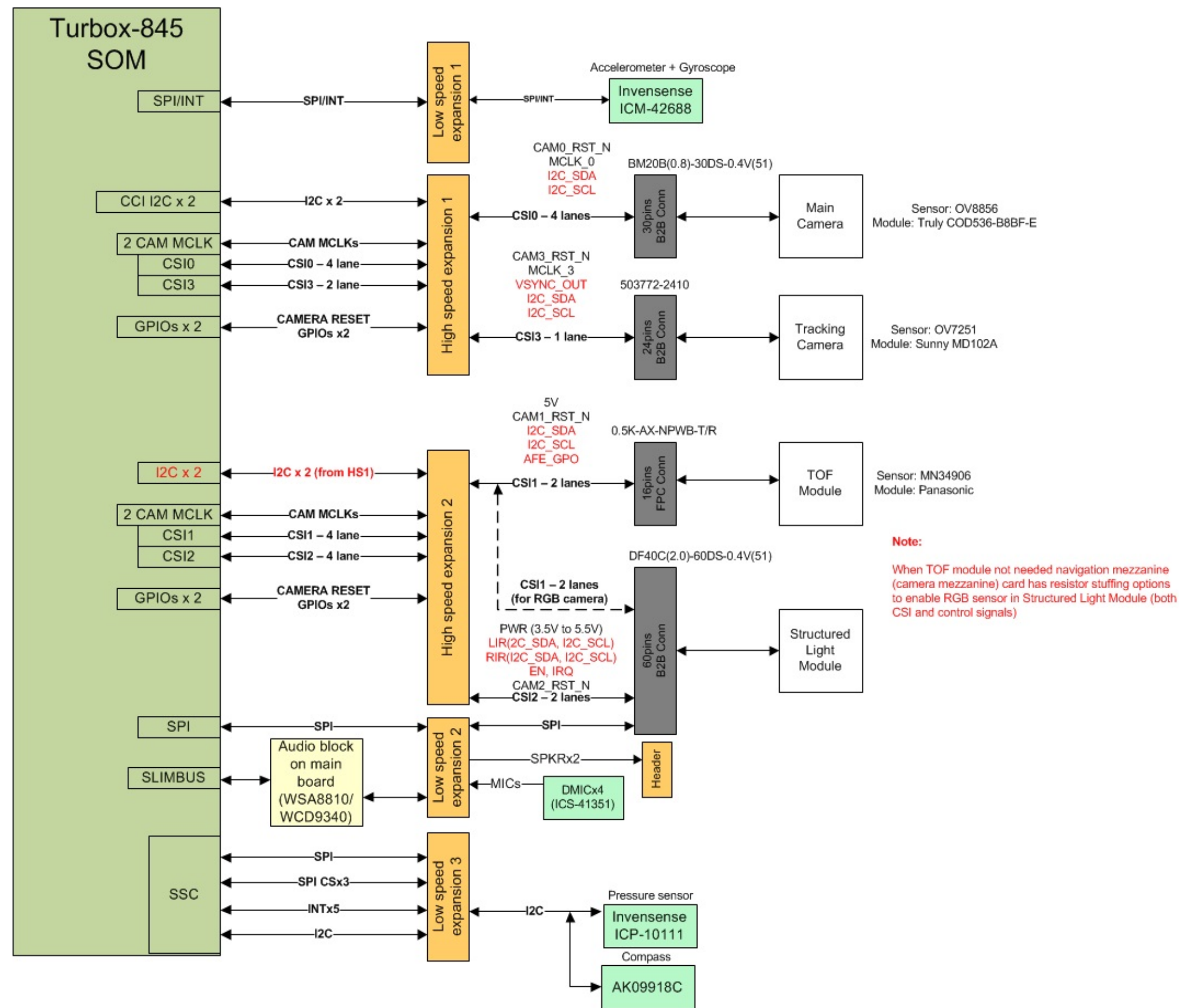
1

of

11

# Revision History

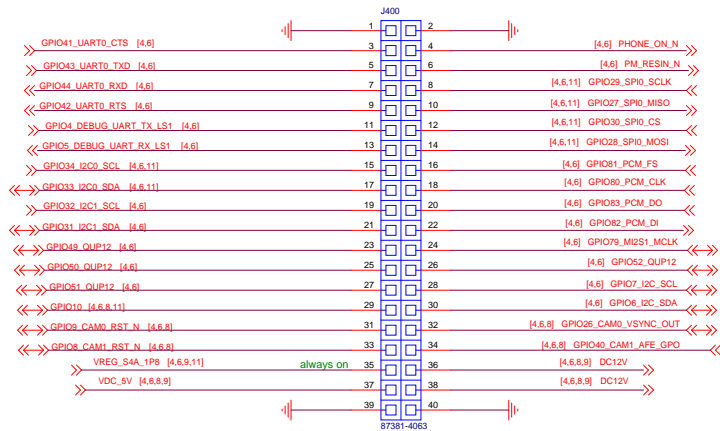
REV	DESCRIPTION
V01	EVT 1.0 Initial release
V02	1.page04/06:update LS1/LS1 MATE pin35,LS2/LS2 MATE pin6/8 nets; 2.page08:del imx214,add altek rgb mipi; 3.page10:add dmic*4;add stereo spk; 4.page11:add sensor icp-10111/ak09918c/icm-42688/bmx055;



Title		
Block Diagram		
Size A3	Document Number 845_96BOARD-MEZ_BOARD	Rev <V02>
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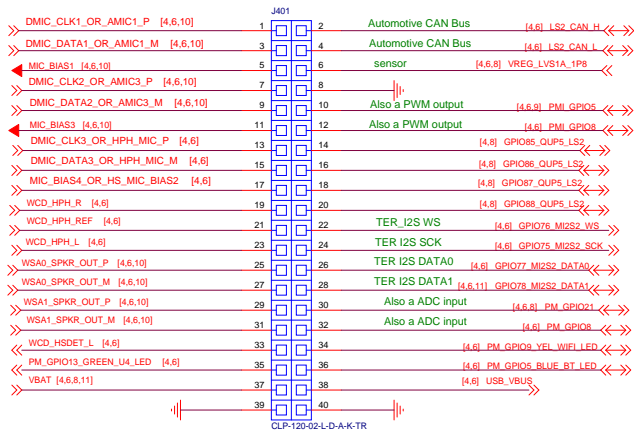
# LS1 Conn

87381-4063



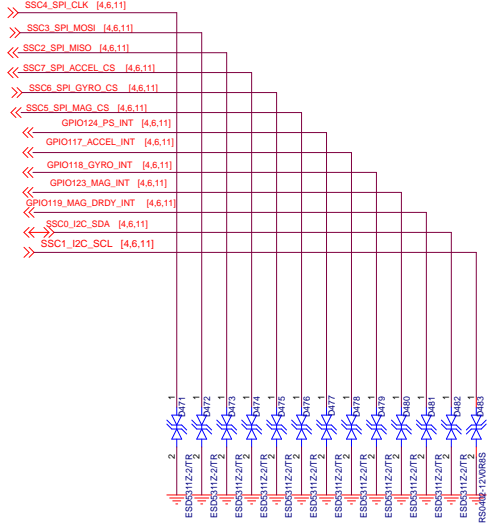
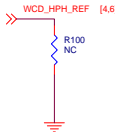
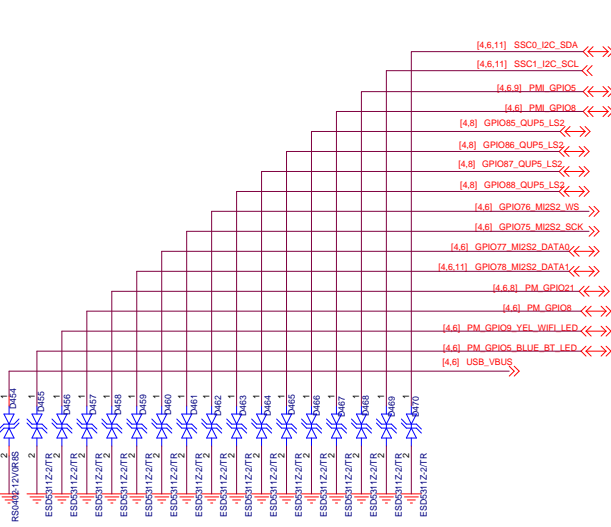
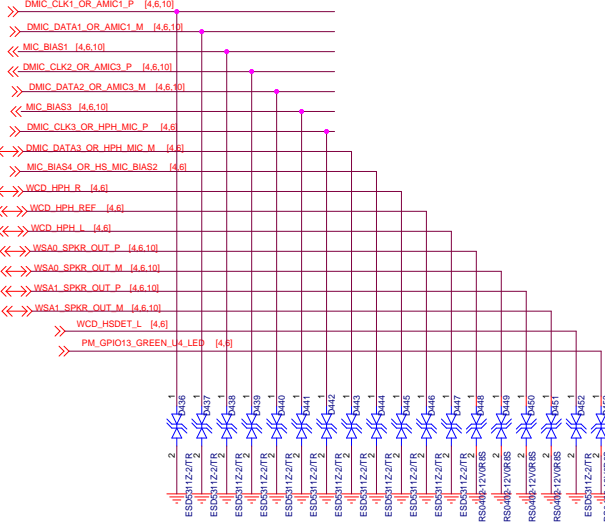
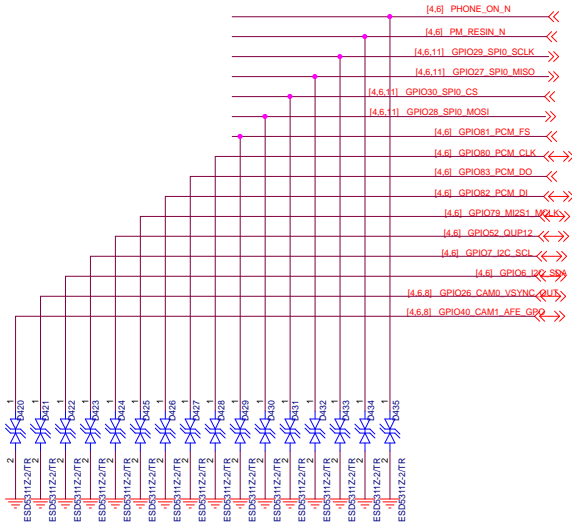
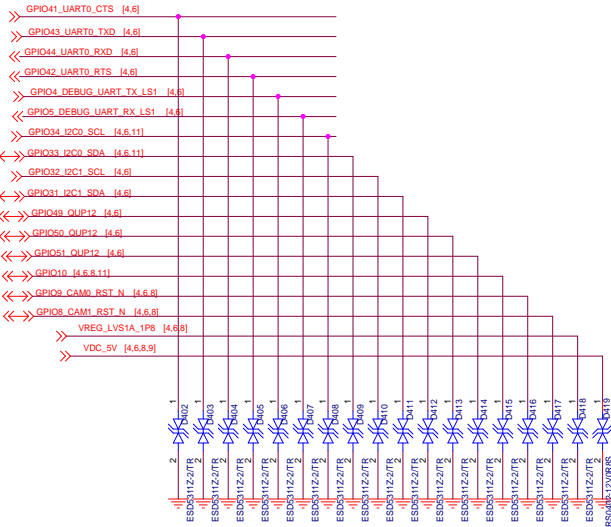
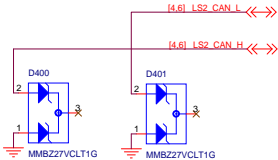
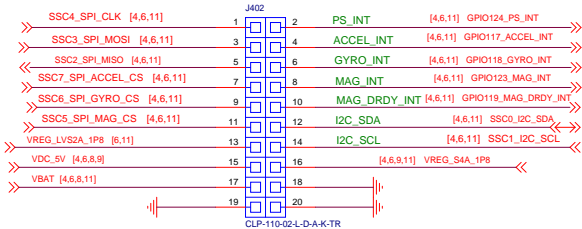
# LS2 Conn

CLP-120-02-L-D-A-K-TR



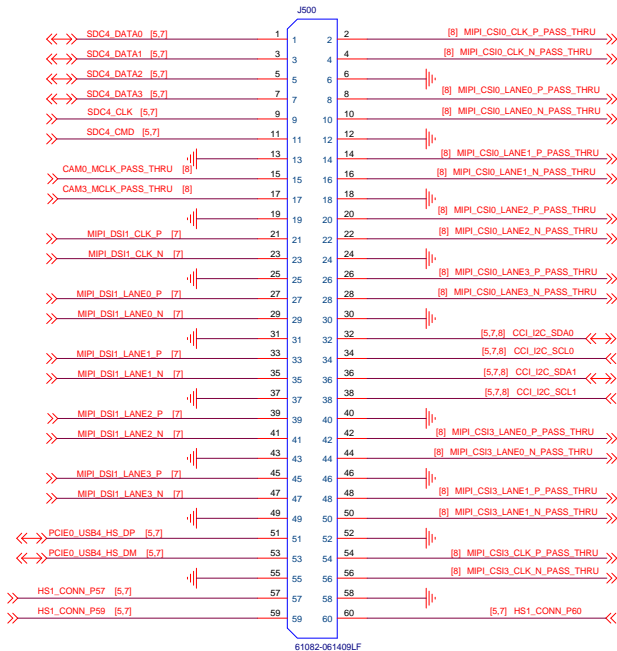
# LS3 Conn

CLP-110-02-L-D-A-K-TR

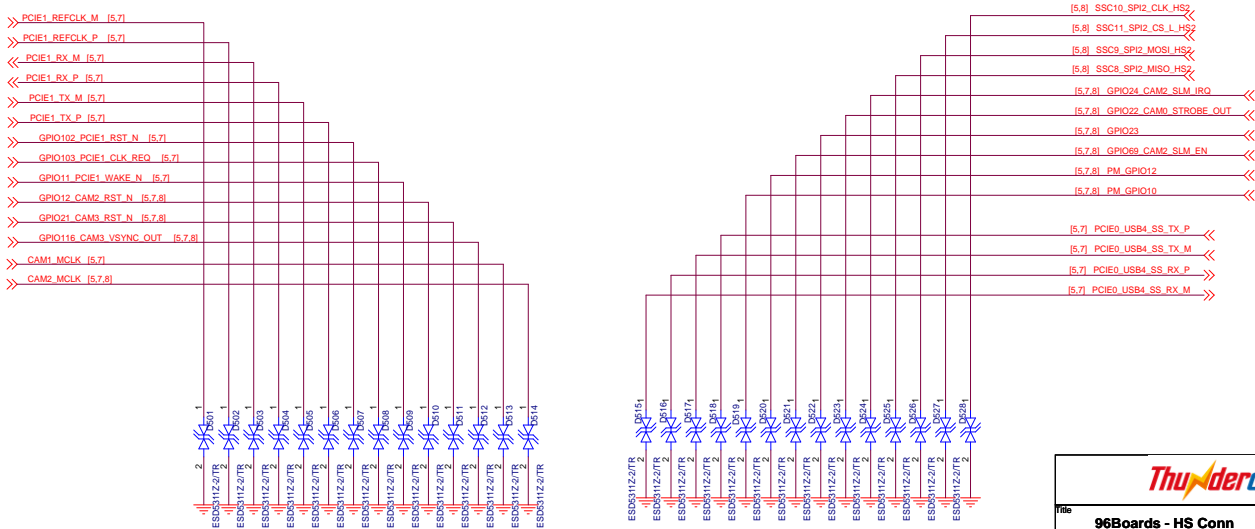
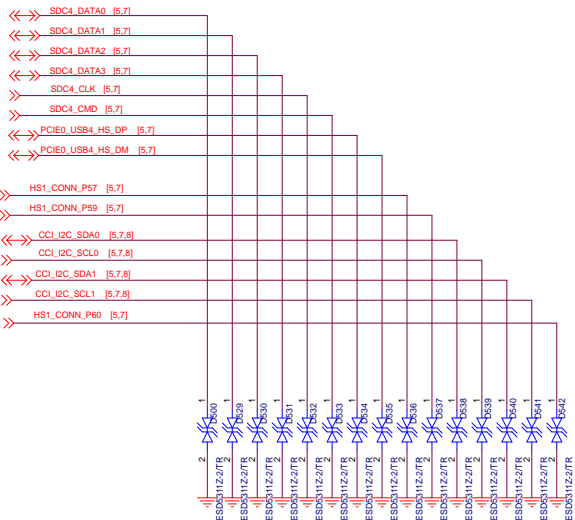
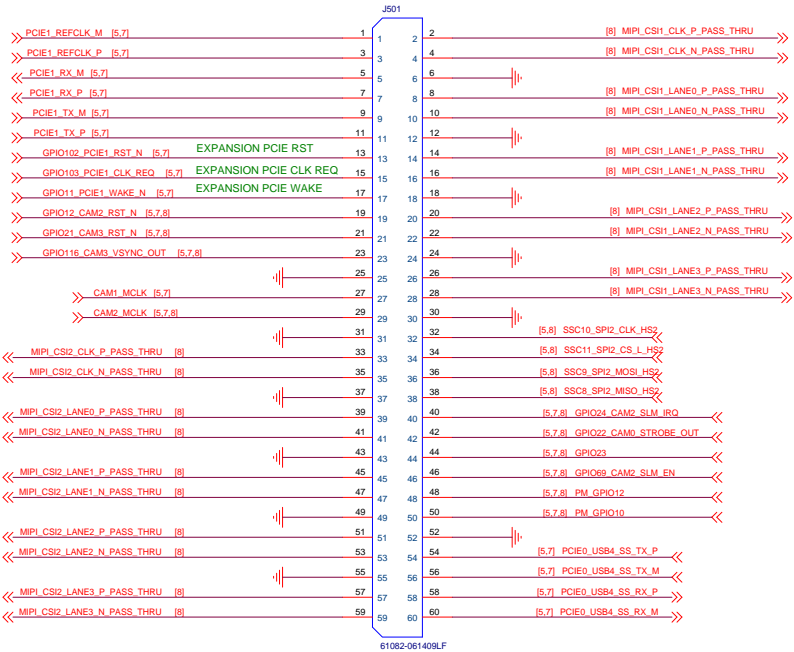


"Conn" goes to the next Mezzanine Board

## HS1 Conn



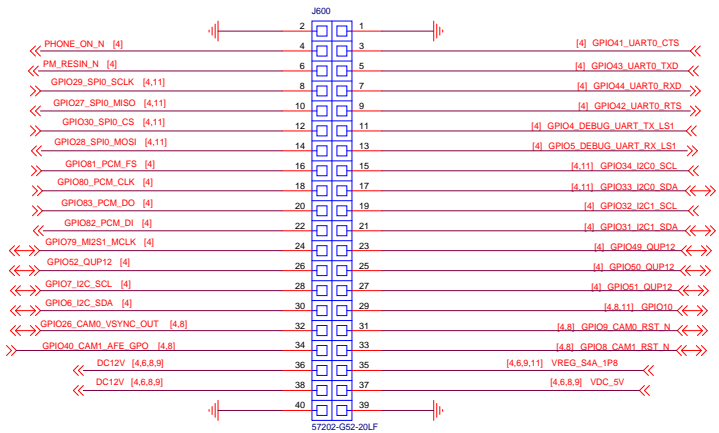
## HS2 Conn



"Mate" goes to the Main Board

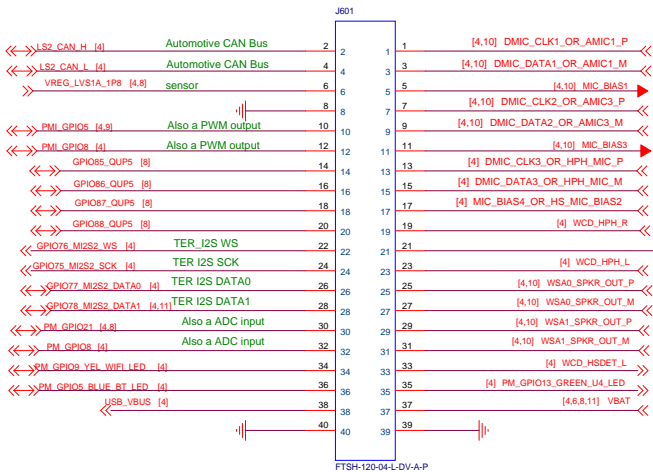
## LS1 Mate

FCI 57202-G52-20LF



## LS2 Mate

SAMTEC FTSH-120-04-L-DV-A-P

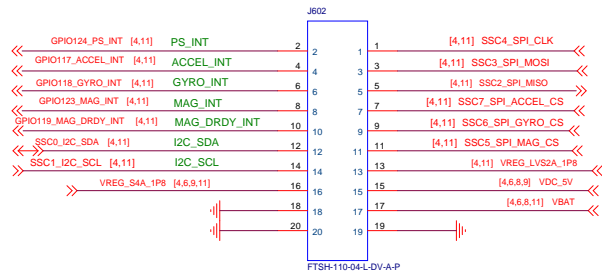


Please route WCD\_HPH\_REF between WCD\_HPH\_L/R

Tie WCD\_HPH\_REF to GND @ HS connector on mezzanine if mezzanine supports HEADSET JACK

## LS3 Mate

SAMTEC FTSH-110-04-L-DV-A-P



96Boards - LS Mate		
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6.7mm (for 7mm stack height)

## "Mate" goes to the Main Board



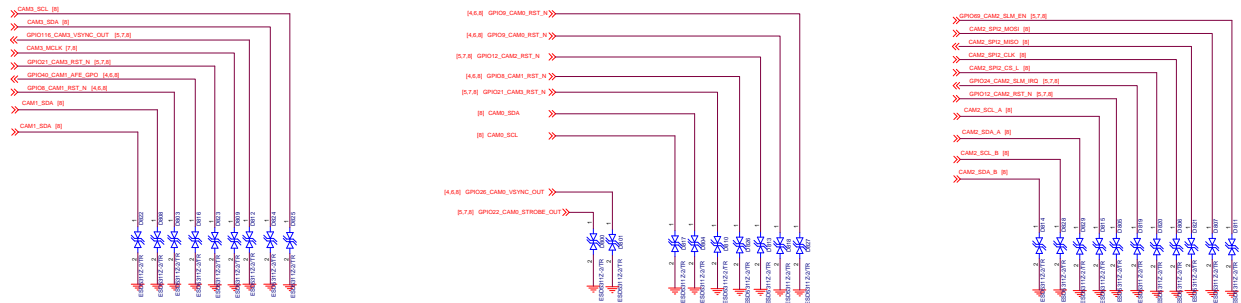
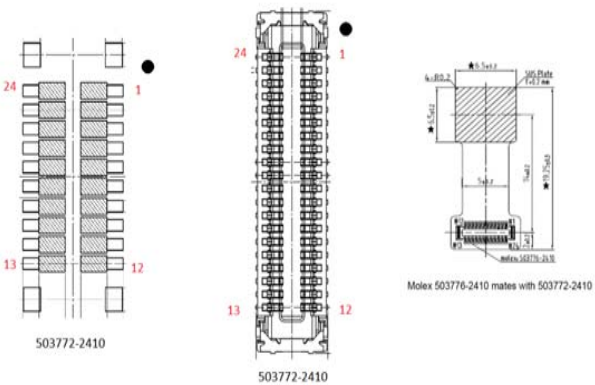
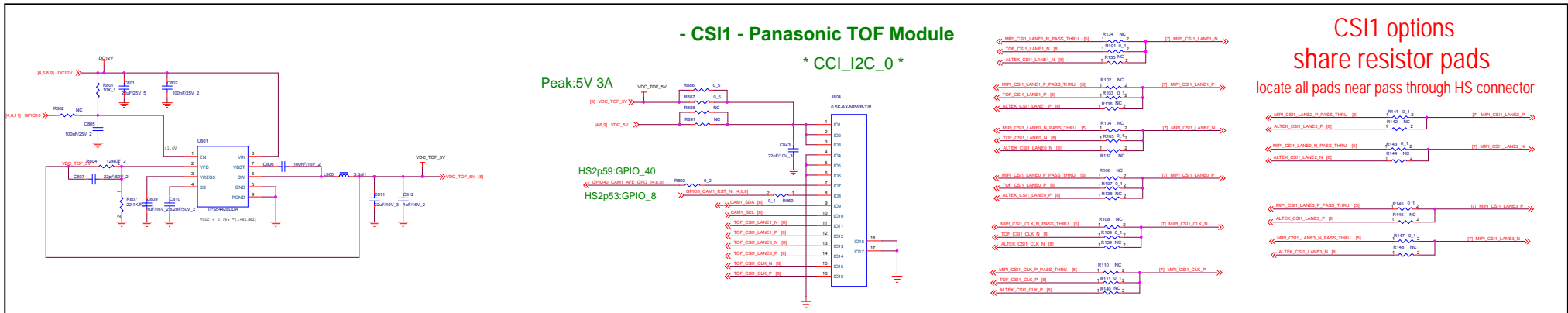
MATE





\* Resistors shared pads \*

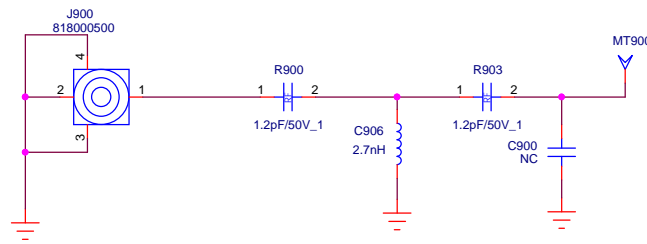
**$I_{max} = 4A$**   
 **$V_{out} = 2V$**



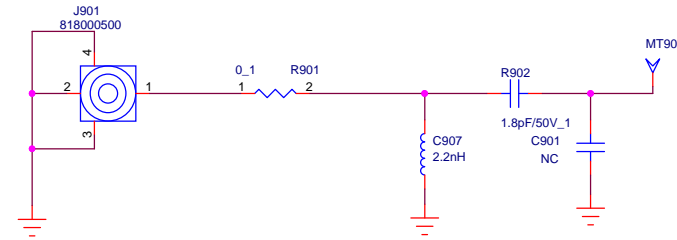


Antennas use same connectors as SOM, coax cables provided

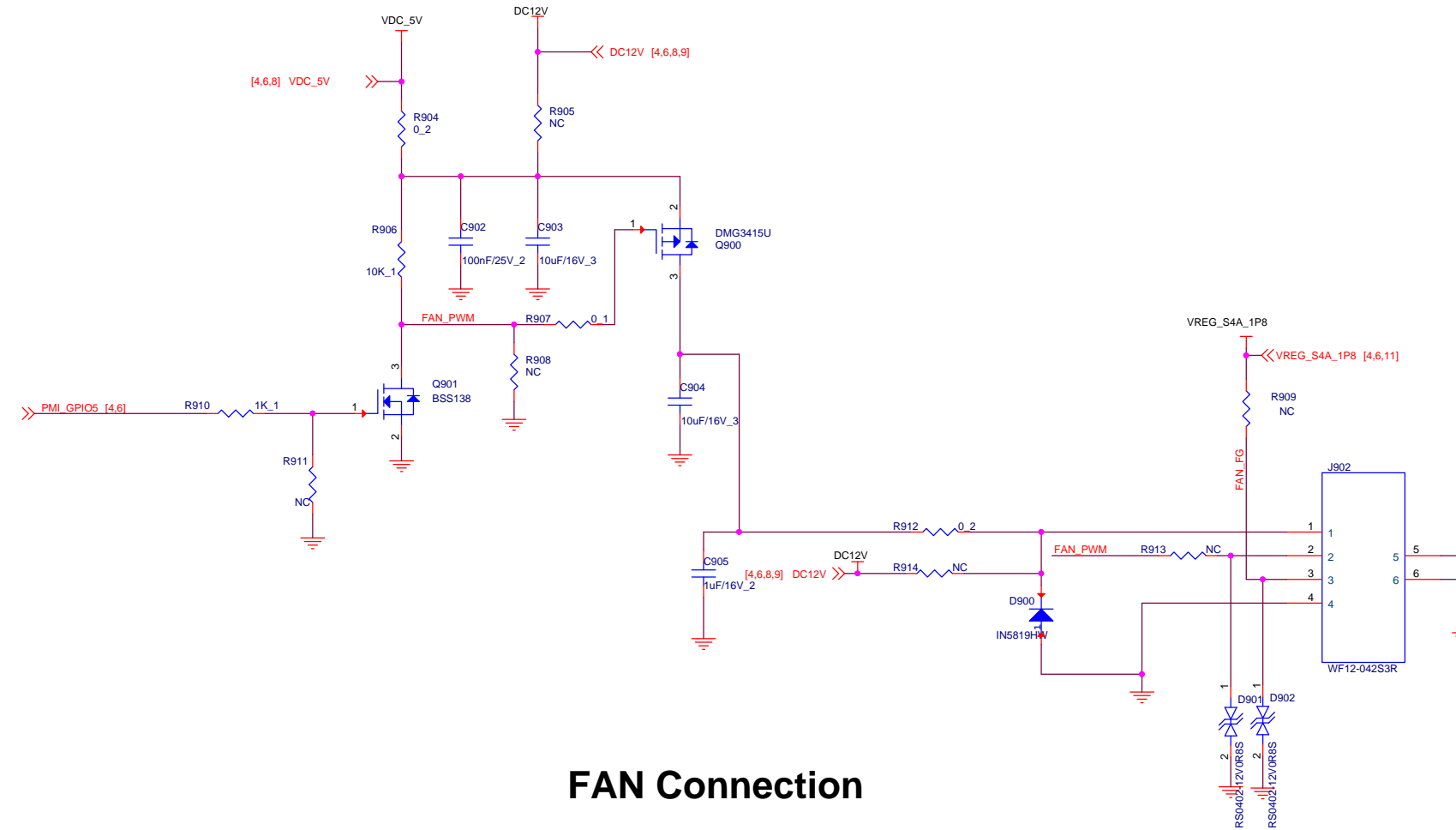
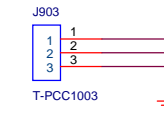
## 2.4/5GHz Antenna



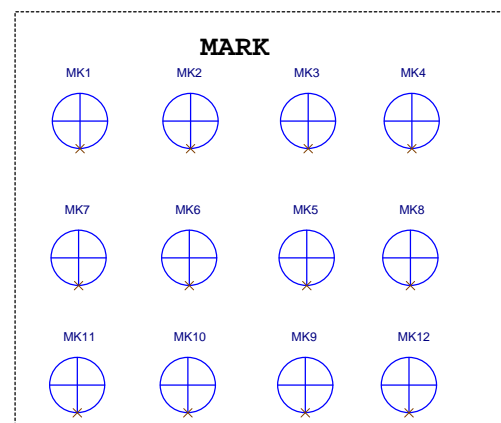
## 2.4GHz BT Antenna



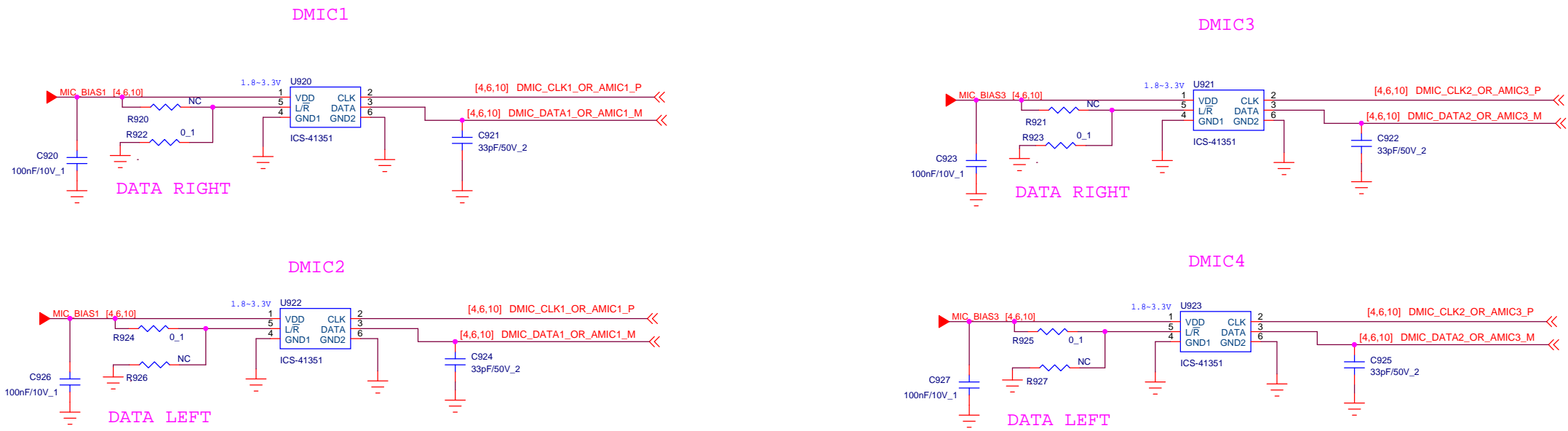
ground clip to hold coax cable



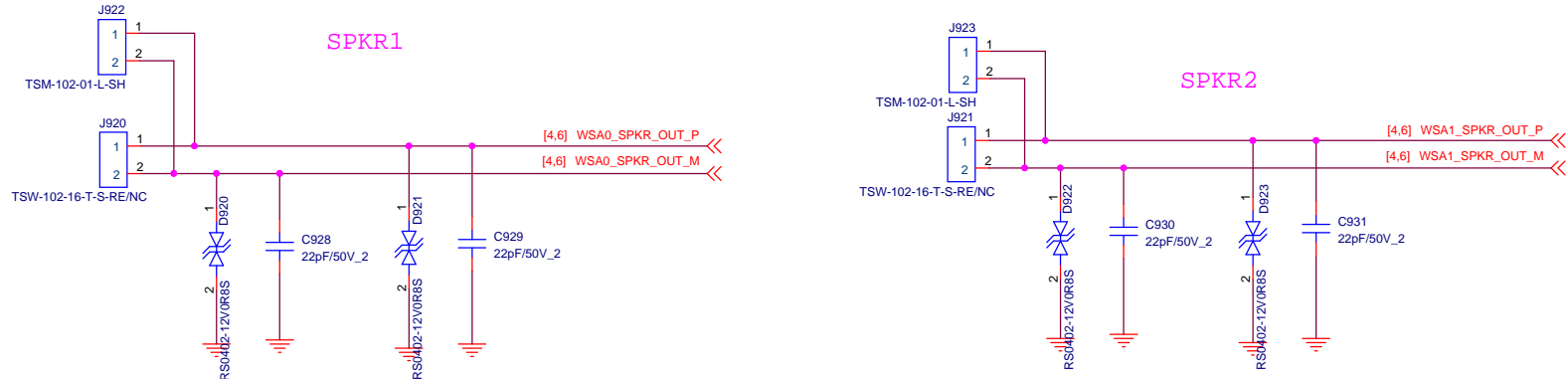
## FAN Connection



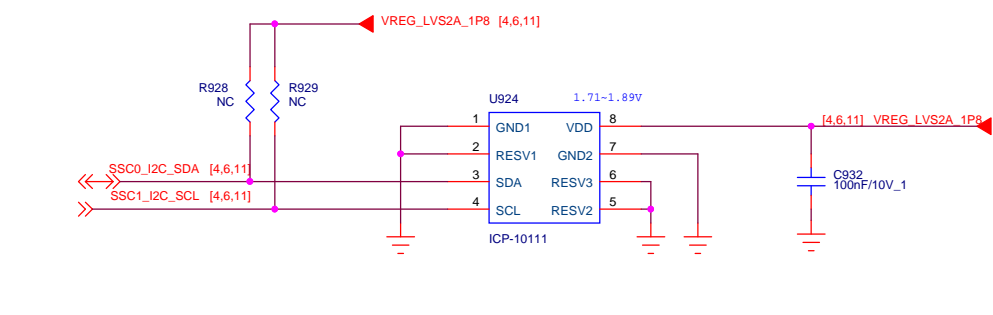
4 DMICs ICS-41351



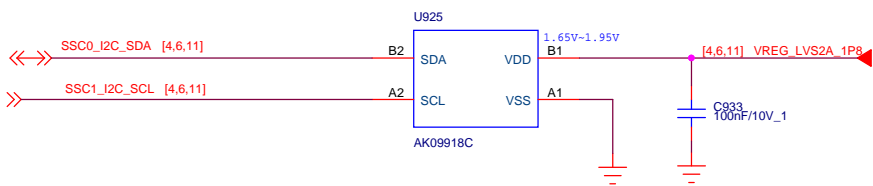
speaker connections



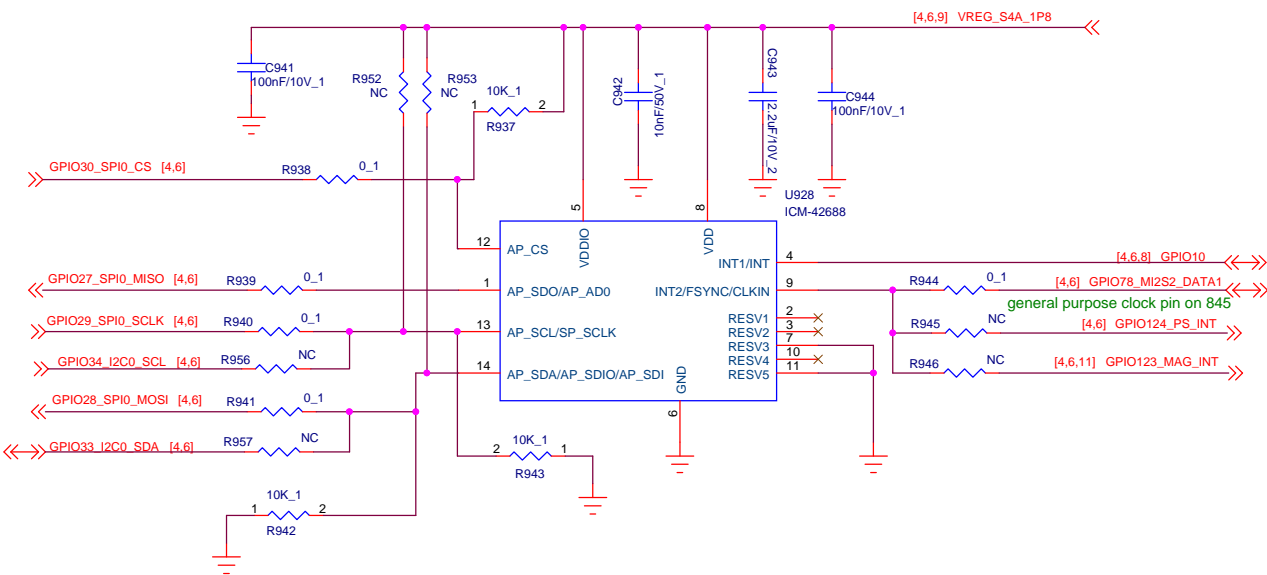
Pressure Sensor ICP-10111



Compass AK09918C



Accelerometer+Gyro ICM42688



For I2C mode:  
install R956 and R957 (0 ohms)  
install R952 and R953 (2.2k ohms)  
remove R938, R939, R940, R941, R942, and R943

3.3V

