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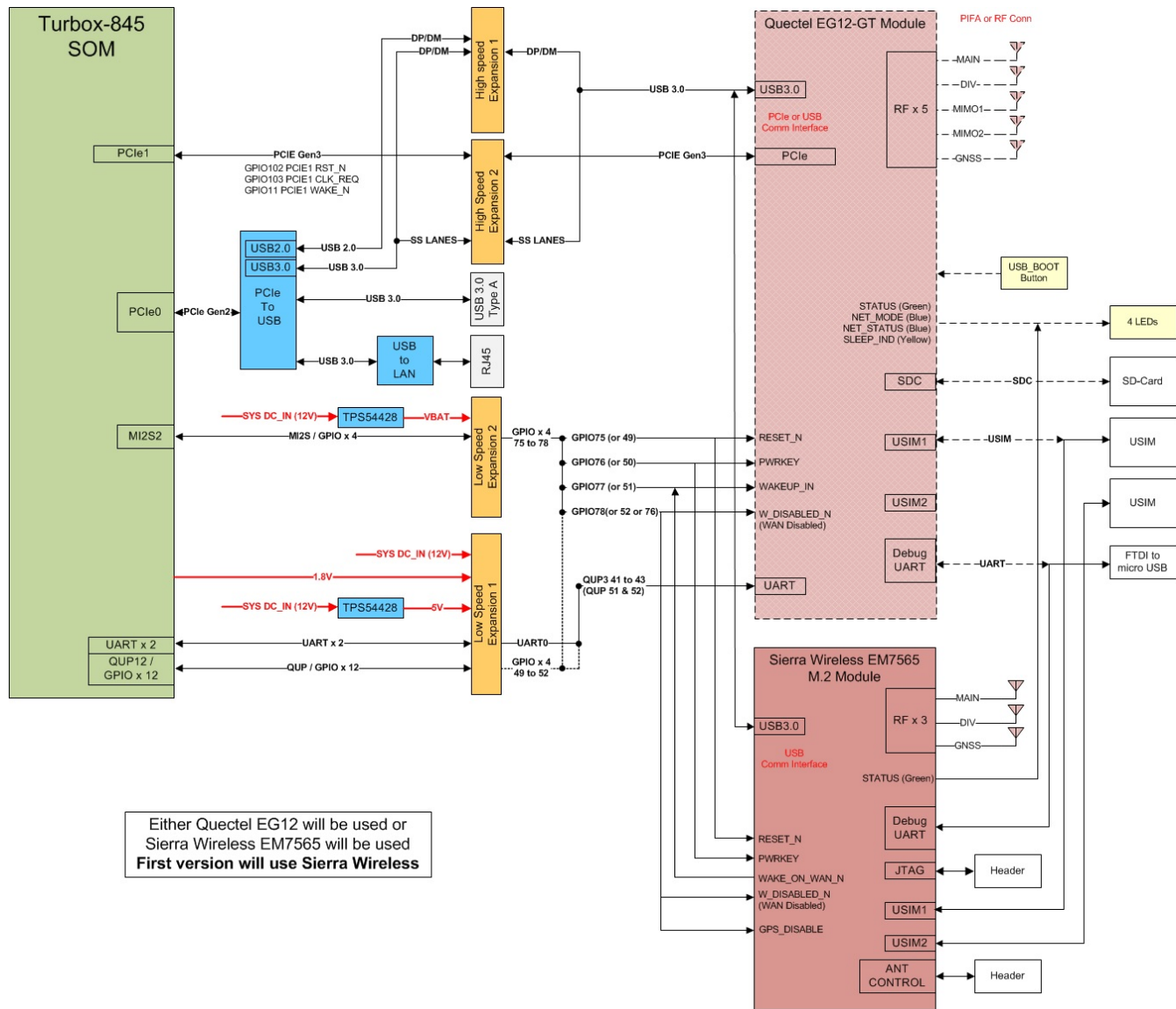


Table of content		Rev
Doc	Document Number	Rev
0	001_00000001-LTE-M2E_BOARD	001
Date	Wednesday, January 16, 2013	Sheet 1 of 11

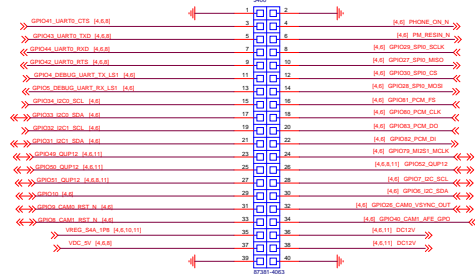
Revision History

REV	DESCRIPTION
V01	EVT 1.0 Initial release



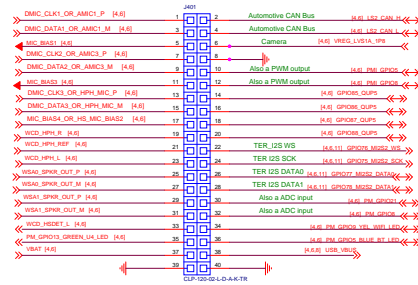
# LS1

87381-4063



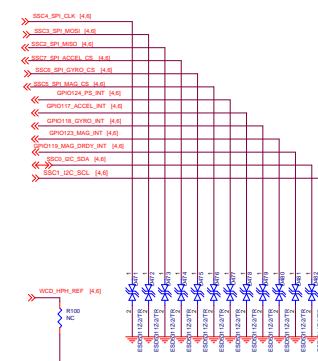
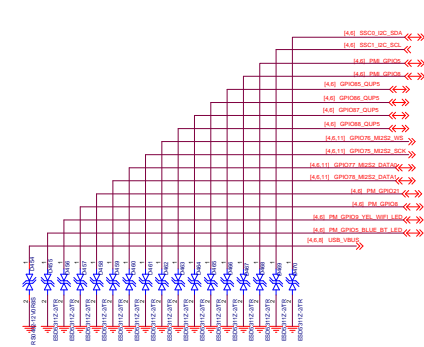
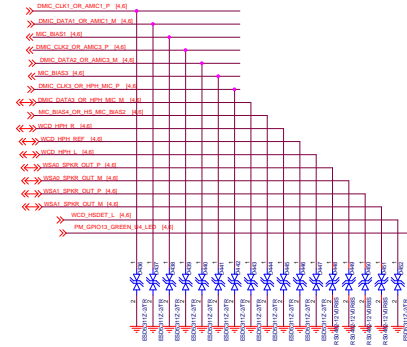
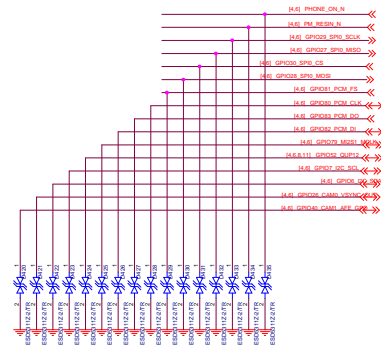
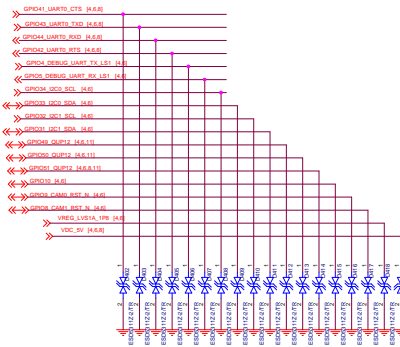
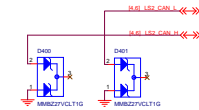
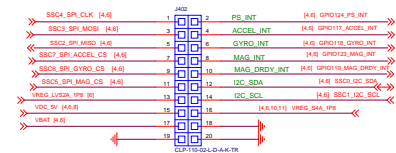
# LS2

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



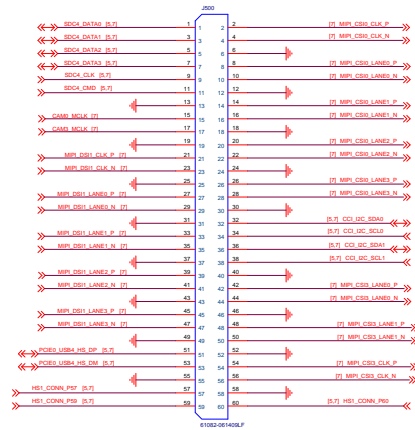
# LS3

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

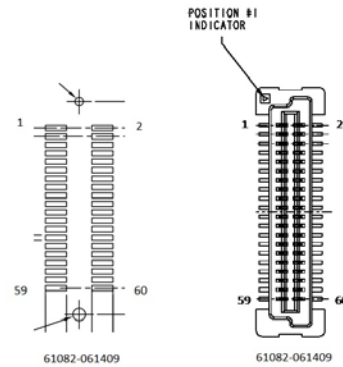
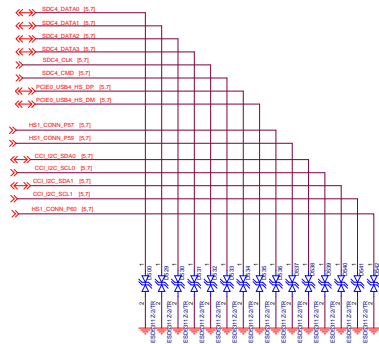
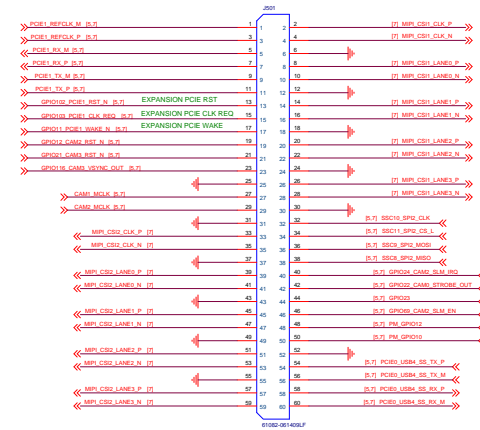


Terminated on THIS Mezzanine Board:  
- CAM0\_MCLK, CAM3\_MCLK  
- CSI0, CSI1, CSI2, CSI3  
- SSC8-10 SPI2

## HS1 Conn



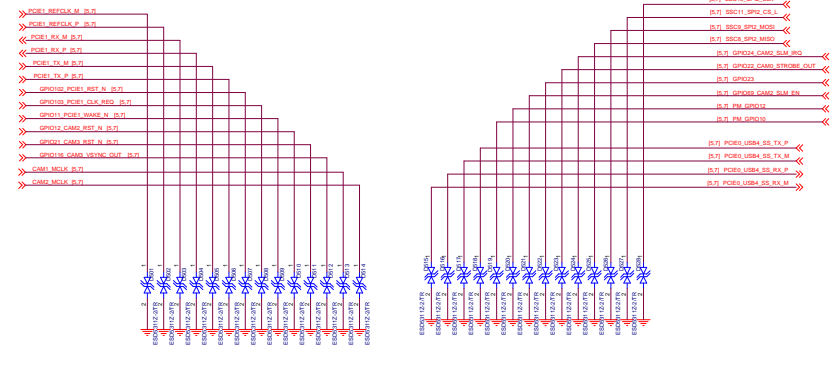
## HS2 Conn



On MAIN Board

On MAIN Board

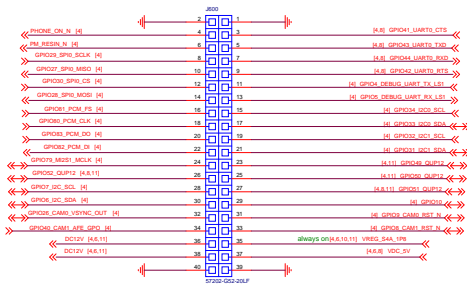
CONN



"Mate" goes to the Main Board

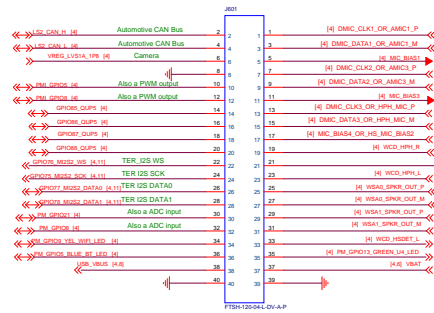
## LS1 Mate

FCI 57202-G52-20LF



## LS2 Mate

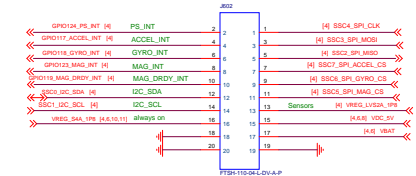
SAMTEC FTSH-120-04-L-DV-A-P



Please route WCD\_RHP\_REF  
between WCD\_RHP\_L/R  
Tie WCD\_RHP\_REF to GND  
if 8 HS connector on mezzanine if  
mezzanine supports HEADSET JACK

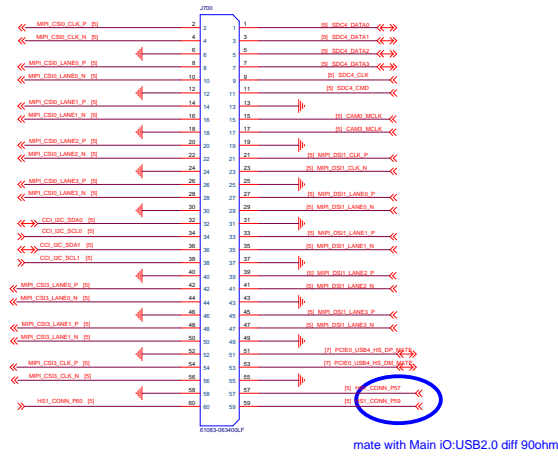
## LS3 Mate

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



## HS1 Mate

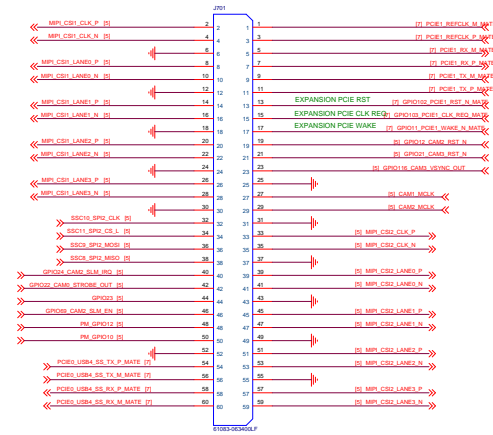
6.7mm (for 7mm stack height)



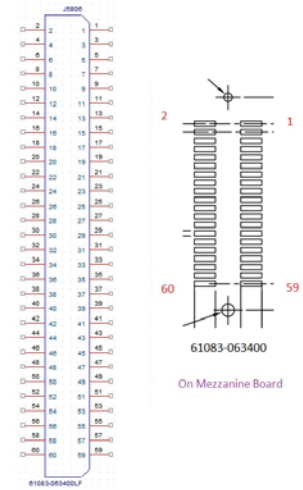
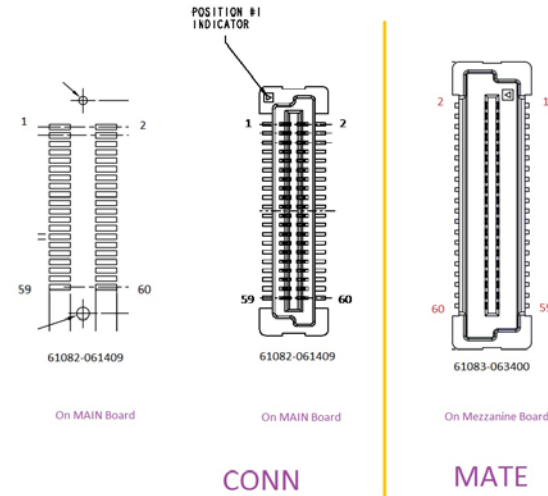
"Mate" goes to the Main Board

## HS2 Mate

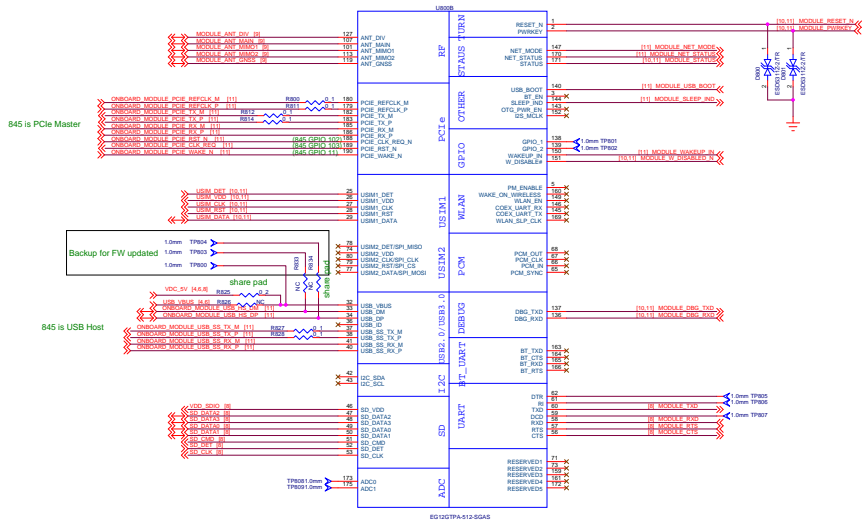
6.7mm (for 7mm stack height)



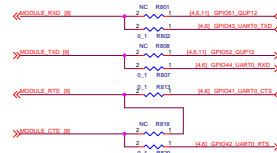
### Resistors Sharing Pads Near HS Connectors



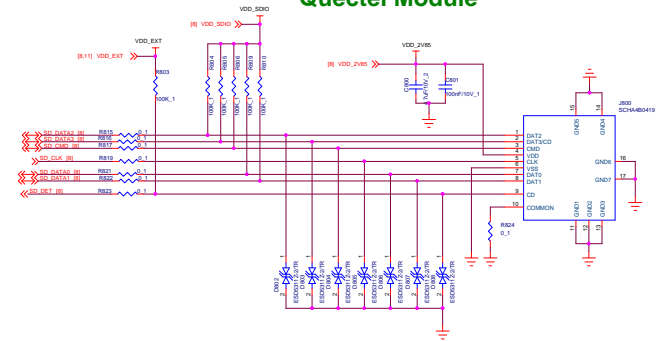
## Quectel EG12 Module



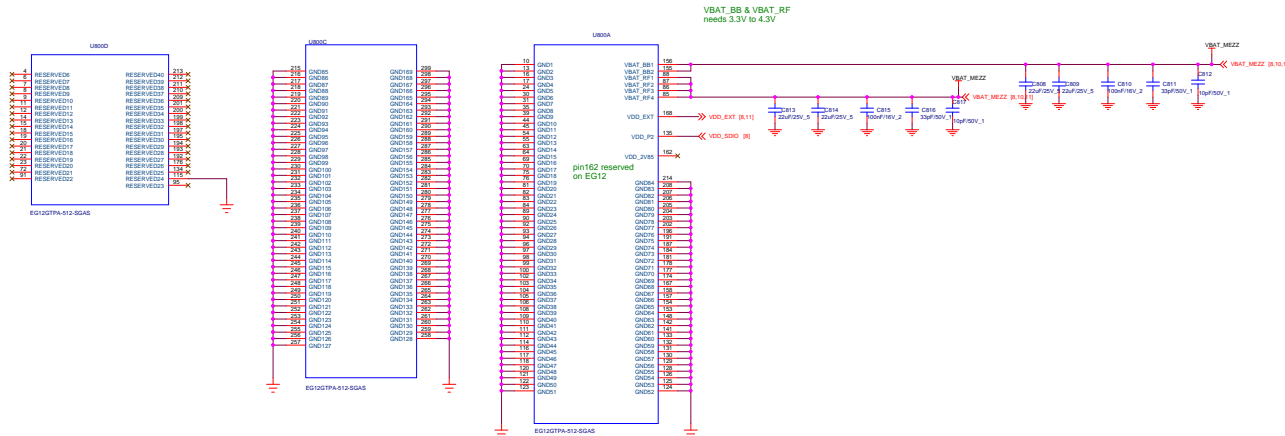
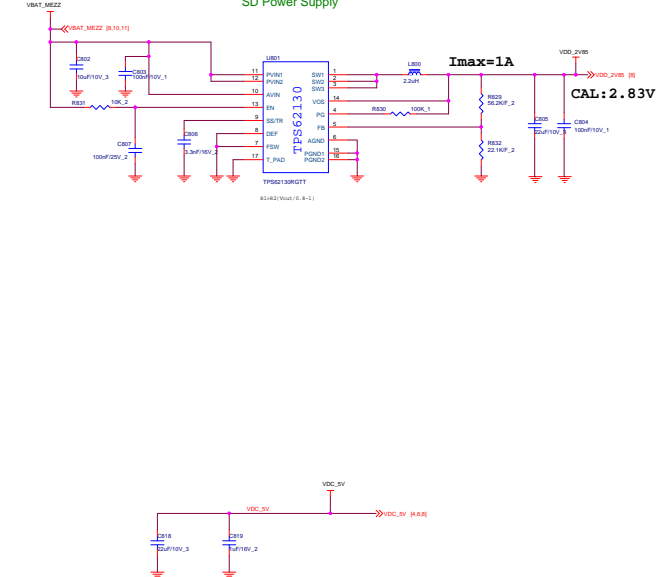
## UART OPTIONS



## SD-Card for Quectel Module



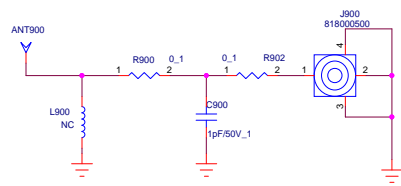
## SD Power Supply





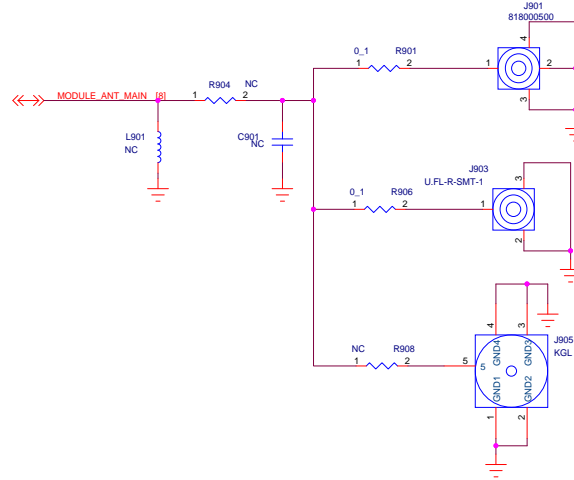
## Onboard PCB Antenna (B48 only)

locate near antenna



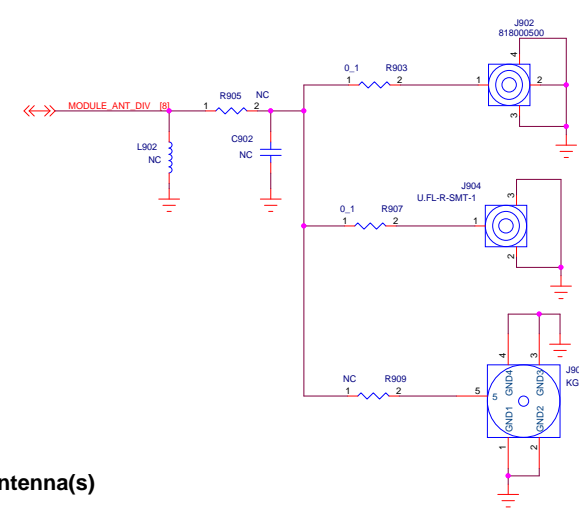
## Main Antenna

Resistors Near RF Connectors (not pad shared)



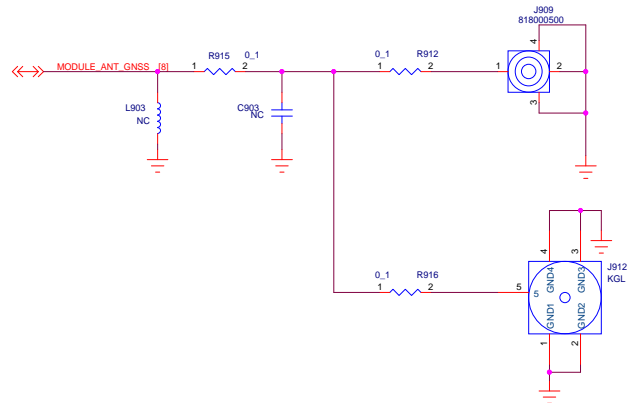
## Diversity Antenna

Resistors Near Antenna Connector (not pad shared)



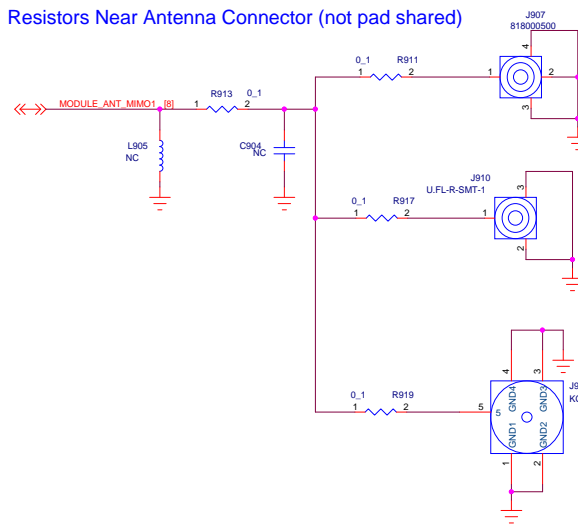
## GNSS Antenna

Resistors Near Antenna Connector (not pad shared)

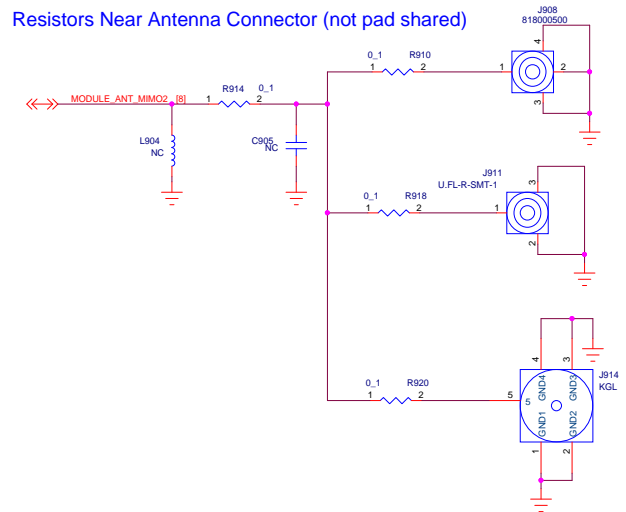


## MIMO Antenna(s)

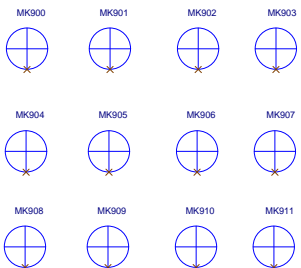
Resistors Near Antenna Connector (not pad shared)



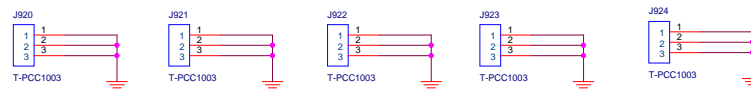
Resistors Near Antenna Connector (not pad shared)



## MARK



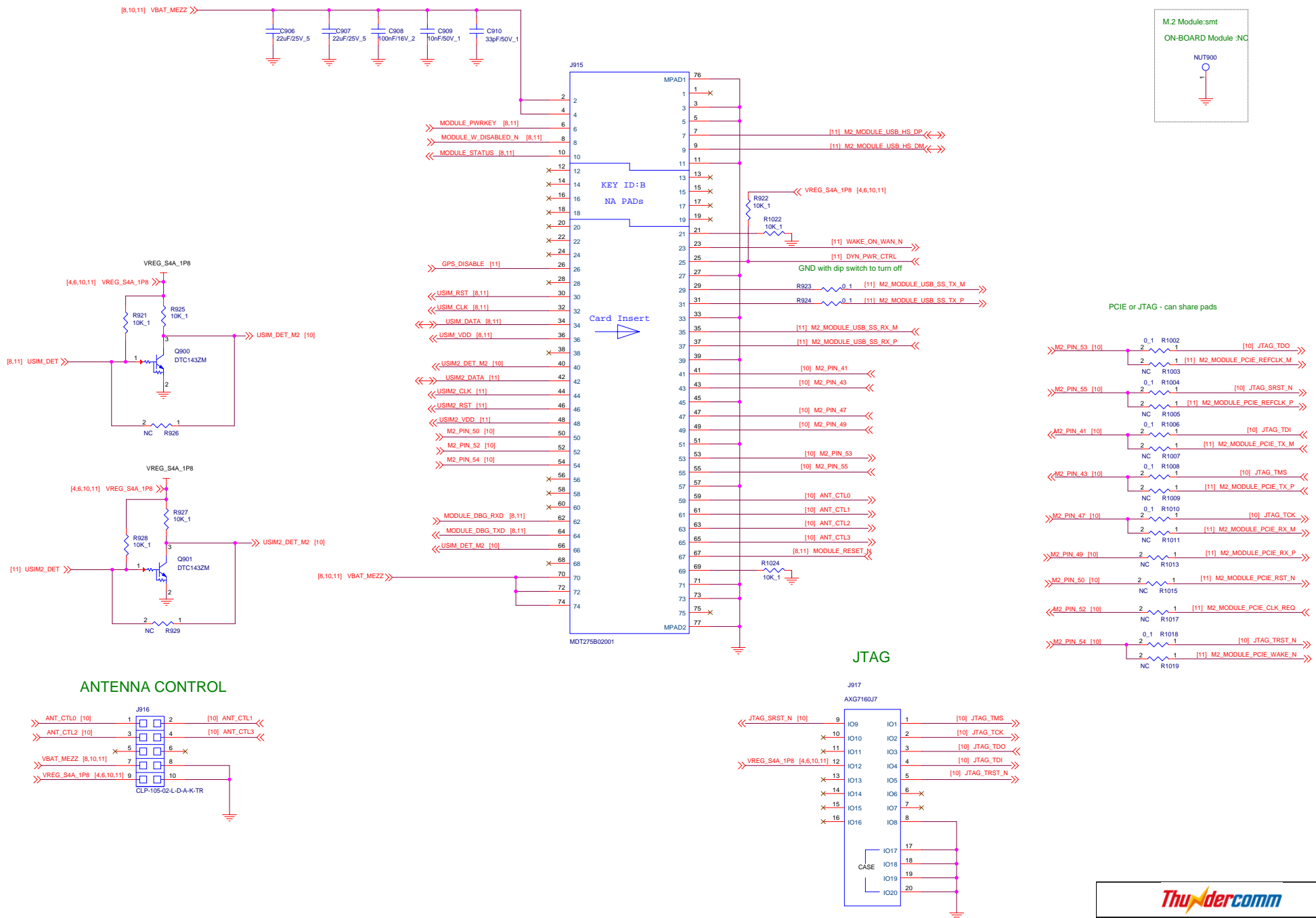
Just for Antenna Cable fixed



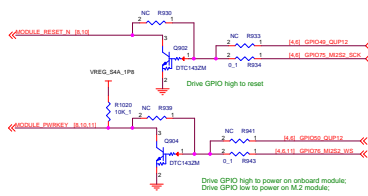
**Thundercomm**

File	Antenna Conn	
Size	Document Number	New
C	B45_96BOARD-LTE-MEZ_BOARD	<V01>
Date:	Wednesday, January 30, 2019	Sheet 9 of 11

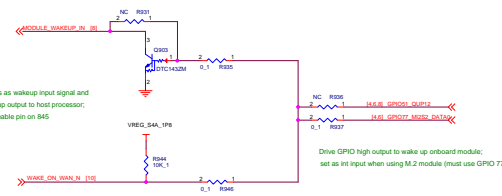
# MINI PCIE M.2 SOCKET FOR EM7565 MODULE



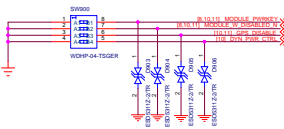
These 4 signals may need transistors isolation between 845 and EG12



Note: onboard module uses this as wakeup input signal and M.2 module uses this as wake up output to host processor; only GPIO 77 is a modem wakeable pin on 845

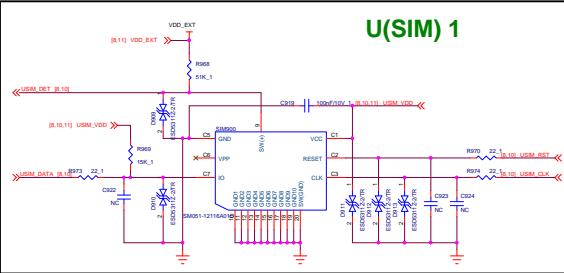


disable WWAN and GPS together

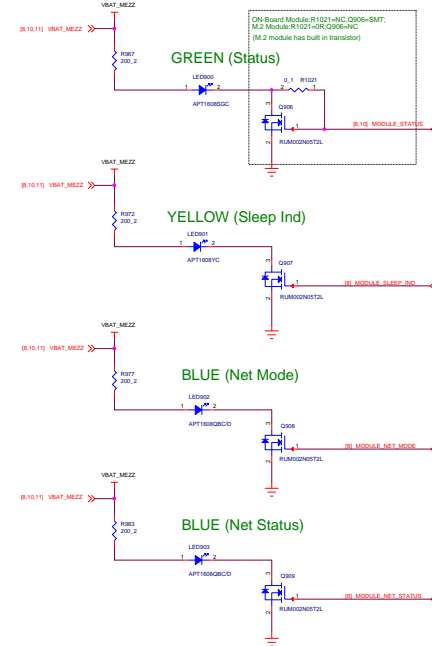
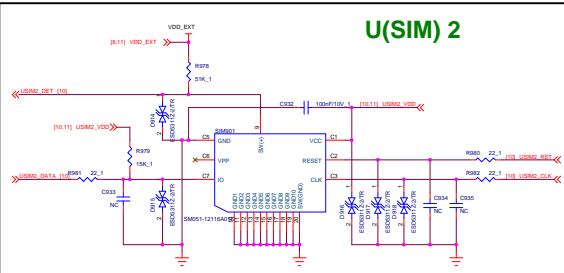


Force\_USB\_Boot (onboard Module)

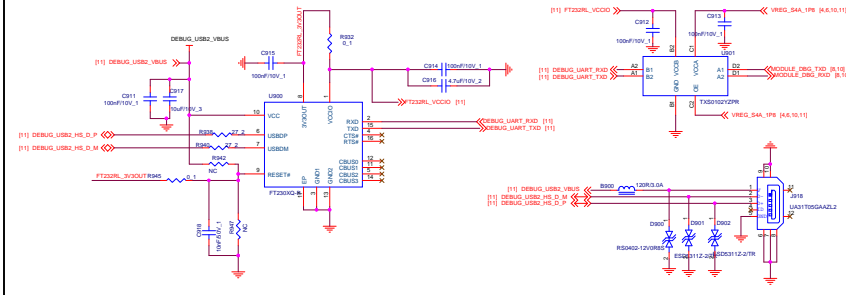
U(SIM) 1



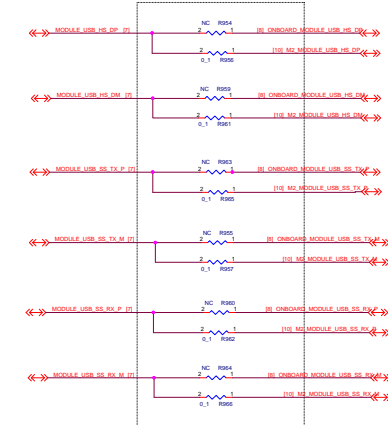
U(SIM) 2



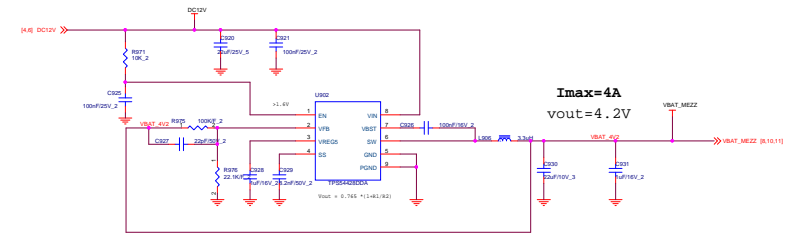
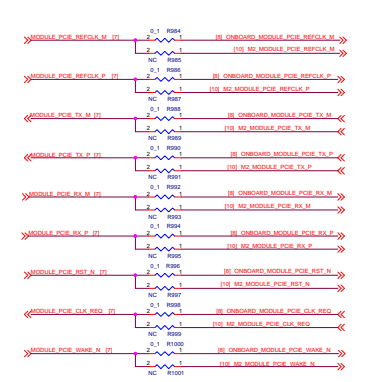
USB to DEBUG UART



USB OPTIONS to avoid stubs - share pads



PCIE OPTIONS to avoid stubs - share pads



<b>Thydercomm</b>		
Rev	Questel Module	Rev
Rev	Rev	Rev
Rev	Rev	Rev
Rev	Rev	Rev