

SB52_CARRIER BOARD

DVT

2020/08/26

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 InnoComm Mobile Technology Corp.	
Project Name : SB52_CARRIER BOARD	
Title : 01_Cover	
Size : A3	Document Number : MT8362/MT8385 Platform
Date: Thursday, April 15, 2021	Rev: R003
Sheet: 1 of 17	

Change List

Rev : EVT

Date	Page	Description
2020/01/07		Initiate

Rev : DVT

Date	Page	Description
2020/03/11	10	Update U2001 TS5MP645 symbol at PortB P/N swap
2020/03/11	10,12,15	U2003,U2201,U2502 PCA9306DC1 swap high/low side connection
2020/03/22	8	VCAMIO_PMU rename to VCAM_IO_PMU connect BTB
2020/03/30	9	HomeKey add 1K R1910 series to CPU
2020/03/30	9	Add R1911~1912 NM R0402 on KPROW and R1913~1914 1.8K 0402 on KPCOL
2020/03/31	14	Speaker change to stereo , R2404&R2412 change to NM,R2411&R2416 change to 0R
2020/03/31	14	Speaker R&L swap position on PCB , layout only
2020/03/31	15	U2502 change to TXS0102DCUR for current leakage issue
2020/03/31	13	U2302 add high side pull high 4.7K (R2306~9)
2020/03/31	13	U2301,2304,2305 TXB0108DQS change to 2 NTS0104GU12 at U2301,2304~8
2020/04/06	14	Speaker change to stereo , R2423 change to NM
2020/04/06	11	Update U2101 LT9611 footprint, add pullhigh at LT9311 I2C port fo NM (R2140~3)
2020/04/06	14	Audio AMP power change to VDD_5V and series R0805_0R
2020/04/07	14	Change Audio AMP power CAP to 22uf *4 (add C2411~2)
2020/04/08	15	TP2506~7 change to TP1.0

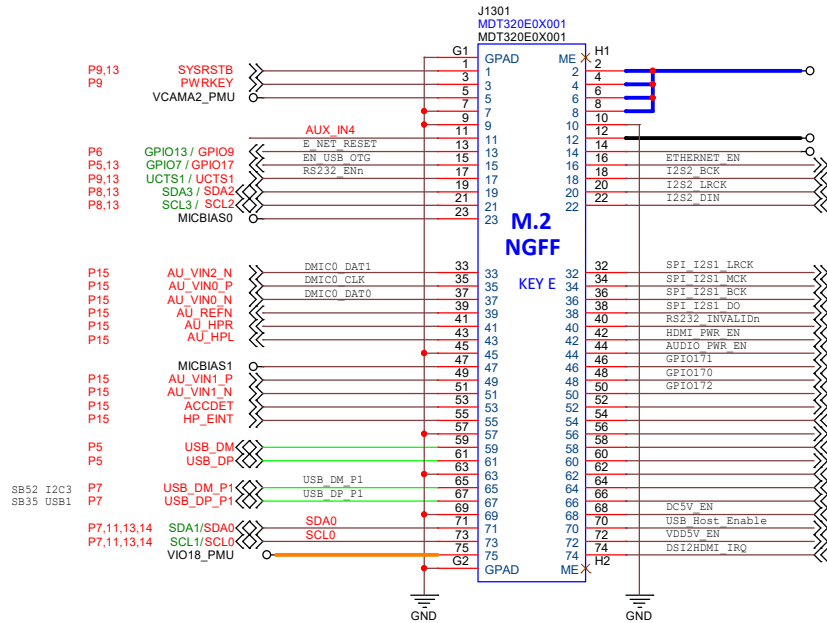
Rev : DVT2

Date	Page	Description
2020/05/11	15	Earphone MIC net AU_VIN1_P_1 rename to EAR_MIC_P and connect to AU_VIN1_P
2020/07/08	03	Rename J1301 pinout 22 from I2S2_DI to I2S2_DIN
2020/07/09	11	R2117,R2119~R2121 change to NM
2020/07/19	12	Add R2334~2349 NM resistor to open signals to GPIO Con.
2020/08/06	3	Del TP1303 and TP1304
2020/08/06	4	Add J1402 for DC_12 GND in and change J1401 to DC_12V in
2020/08/06	5	Add Q1504~5 N/PMOS switch to control ADB_USB's VBUS and add U1505 control switch
2020/08/06	5	Add SW1501 to switch ADB & Host USB with GPIO150 and add R2350 to separate
2020/08/06	8	Camera change to Venus 8M camera and change connector
2020/08/06	14	Add J1401&J1402 for speaker connect

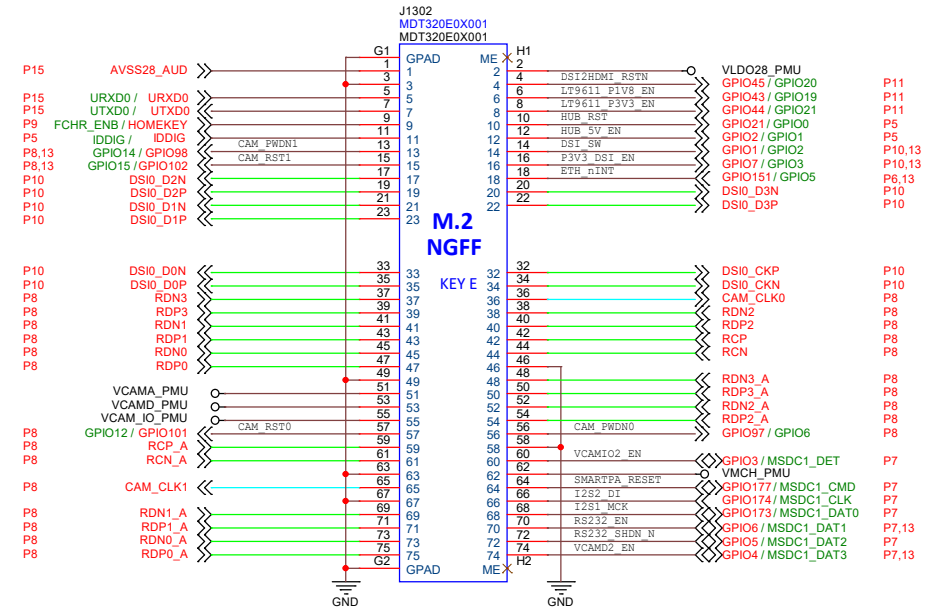
Rev : DVT3

Date	Page	Description
2021/02/02	7	Connect U1712-pin1 to U1703-pin1
2021/02/02	15	Add a TVS T2505 on AUDIO GND

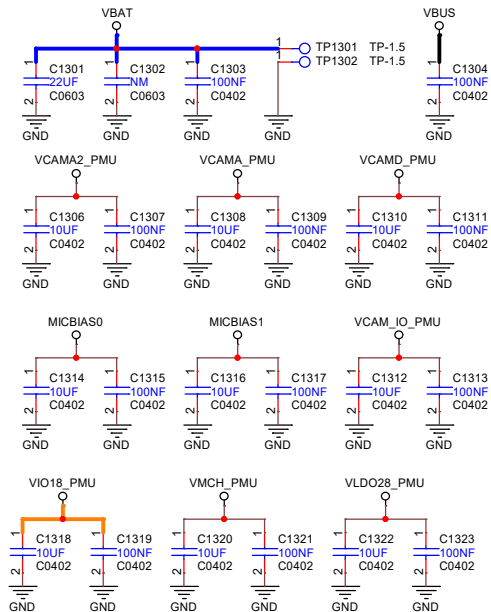
M.2 Con1



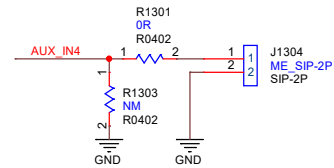
M.2 Con2



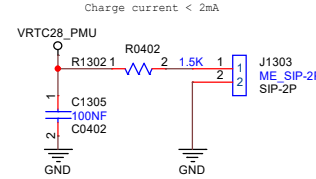
POWER Bypass CAP.



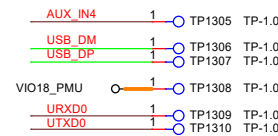
ADC port



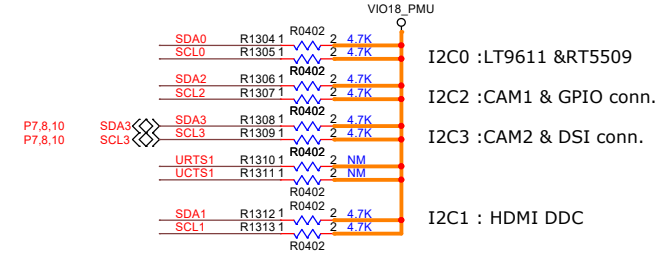
RTC BATT.



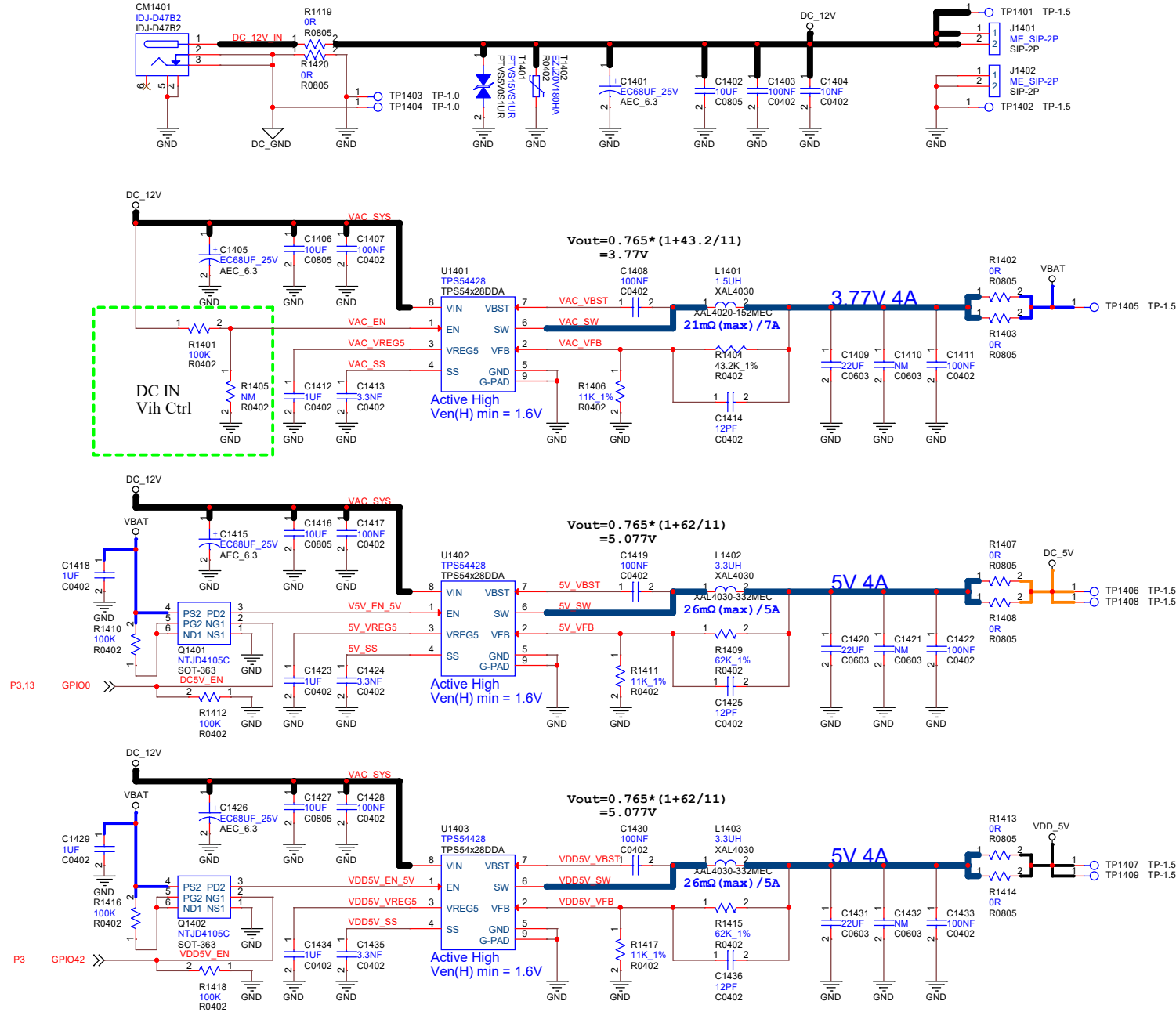
Test Point



I2C PU RES.



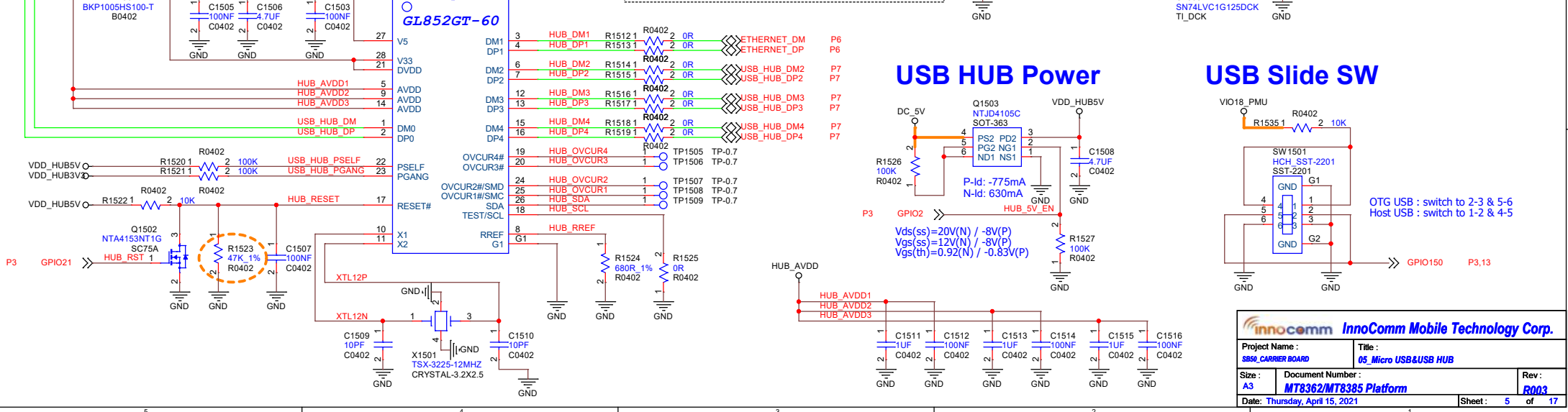
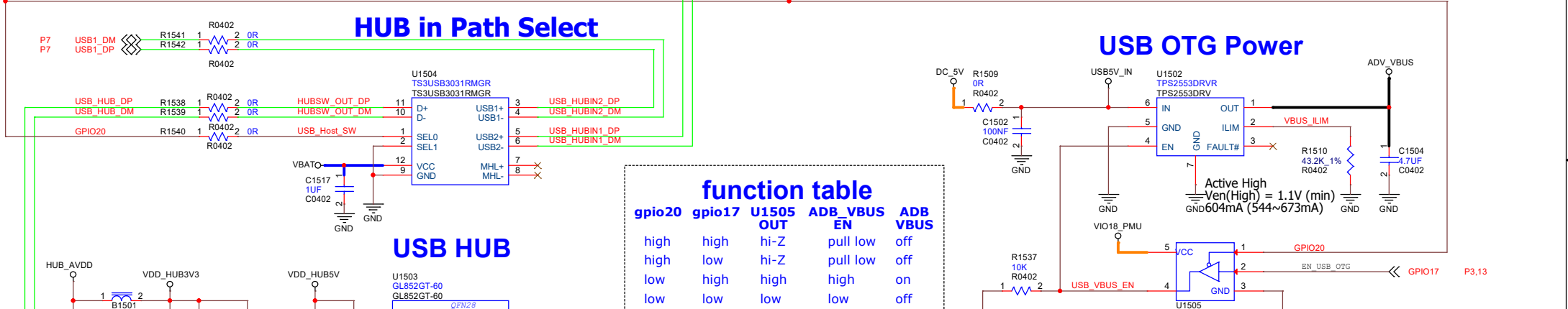
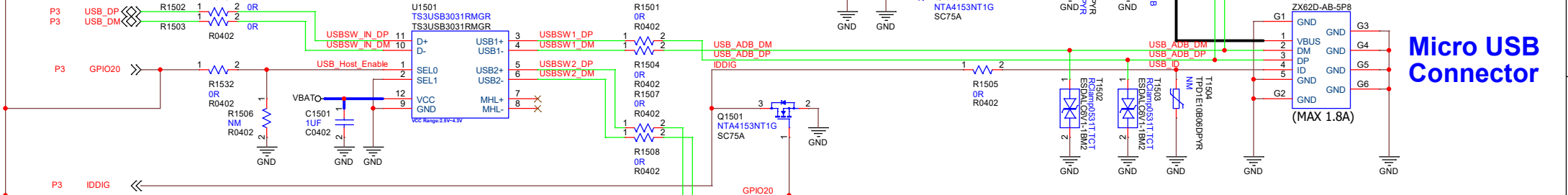
DC 12V IN



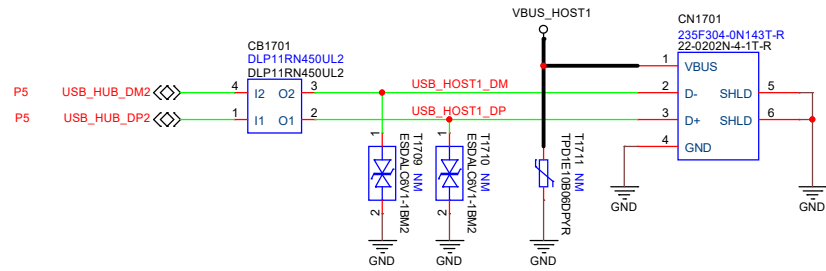
USB SW
function table

gpio20	U1501	U1504
low	ch1	ch2
high	ch2	ch1

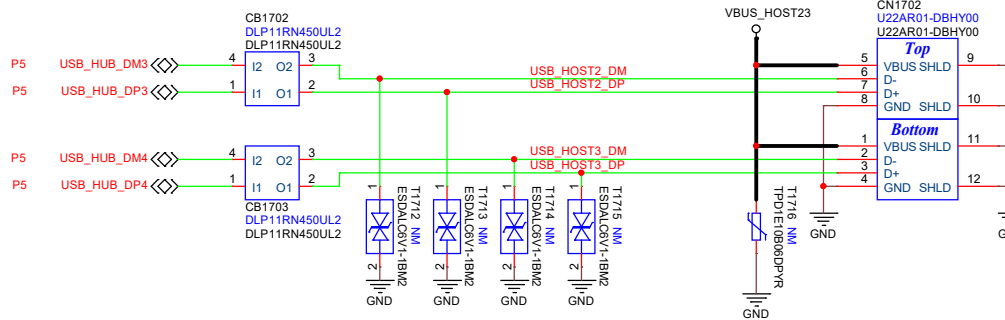
USB0 Path Select



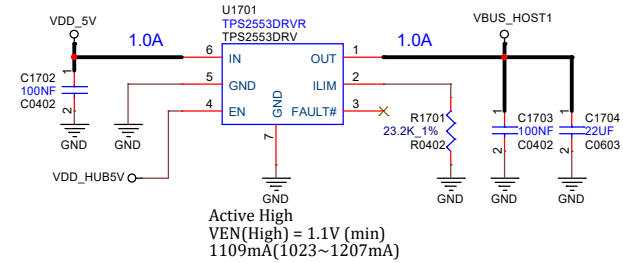
USB Type A Conn.



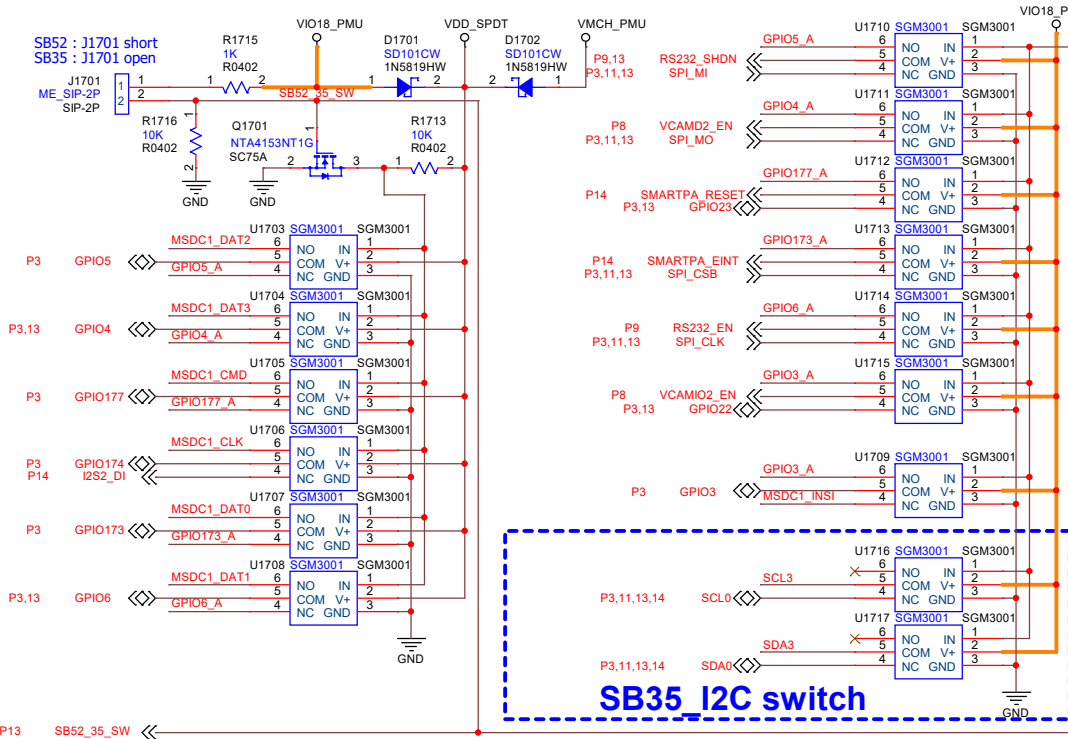
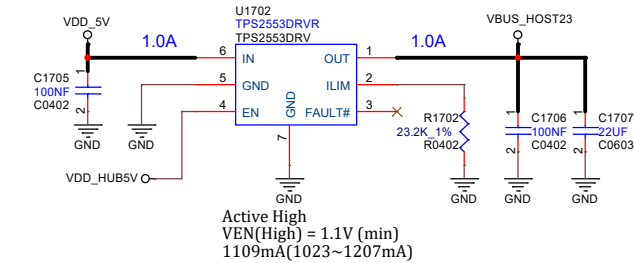
USB Type A Dual Conn.



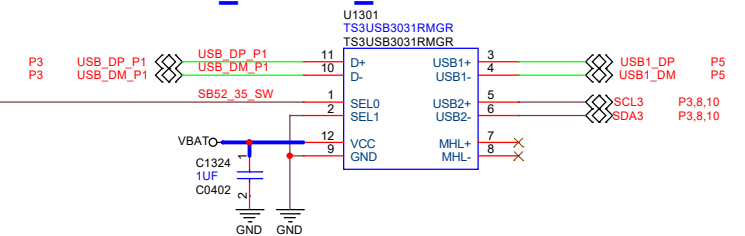
USB HOST1 Power



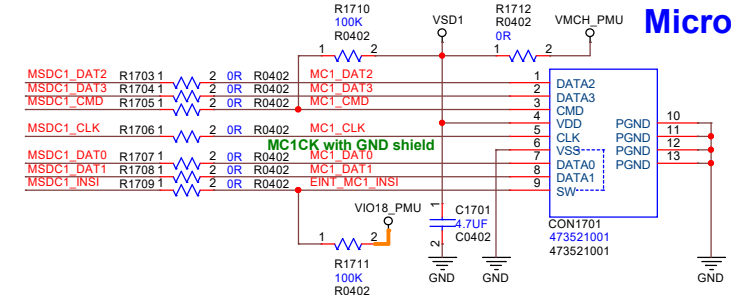
USB HOST2/3 Power



52_I2C3/35_USB1 switch



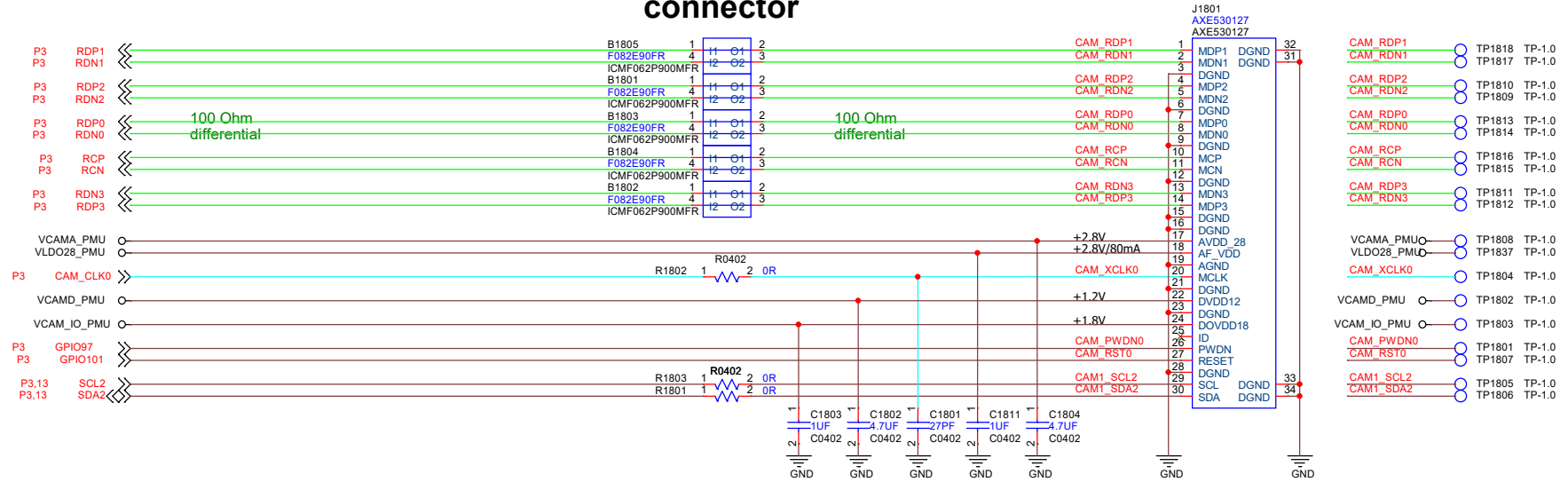
Micro SD



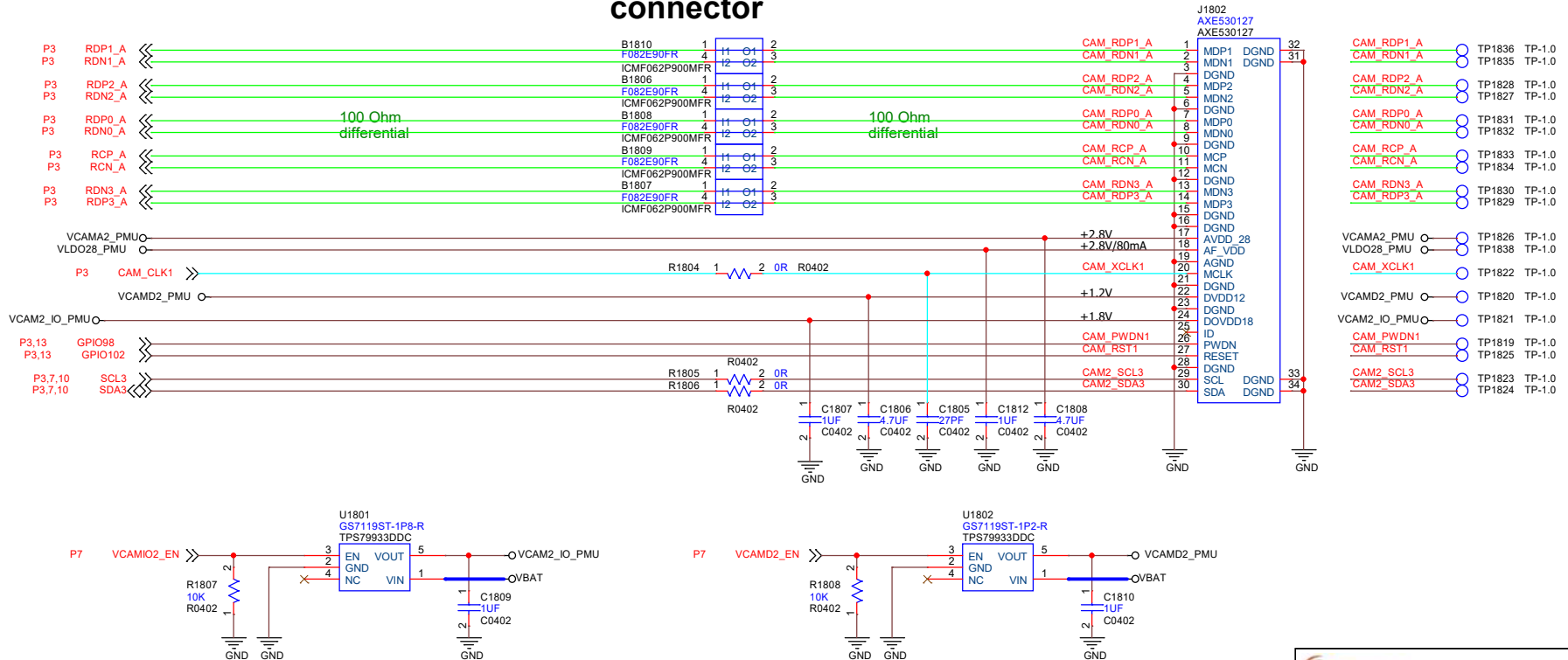
GPIO switch function table

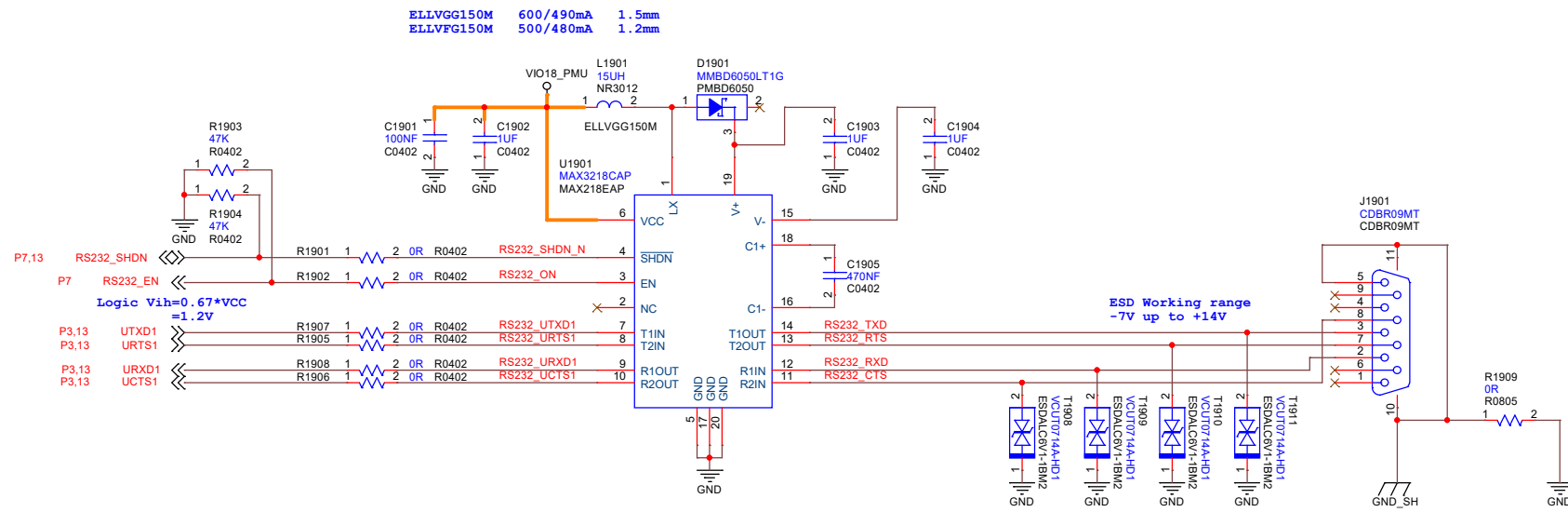
	J1701	U1703	U1710	uSD	RS232_SHDN
SB52	High	NC	NO	X	GPIO5
SB35	Low	NO	NC	GPIO5	SPI_MI

Camera1 connector

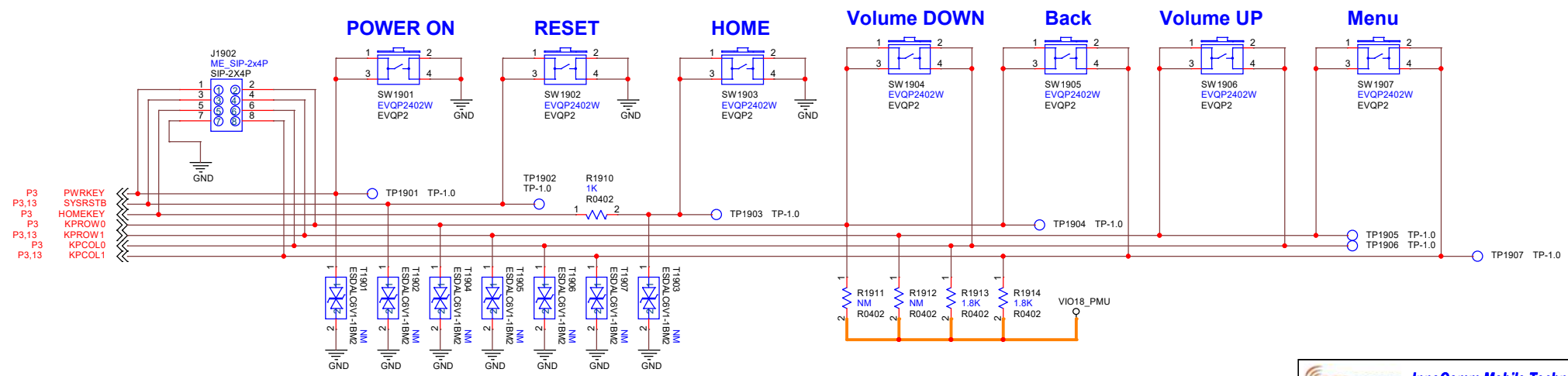


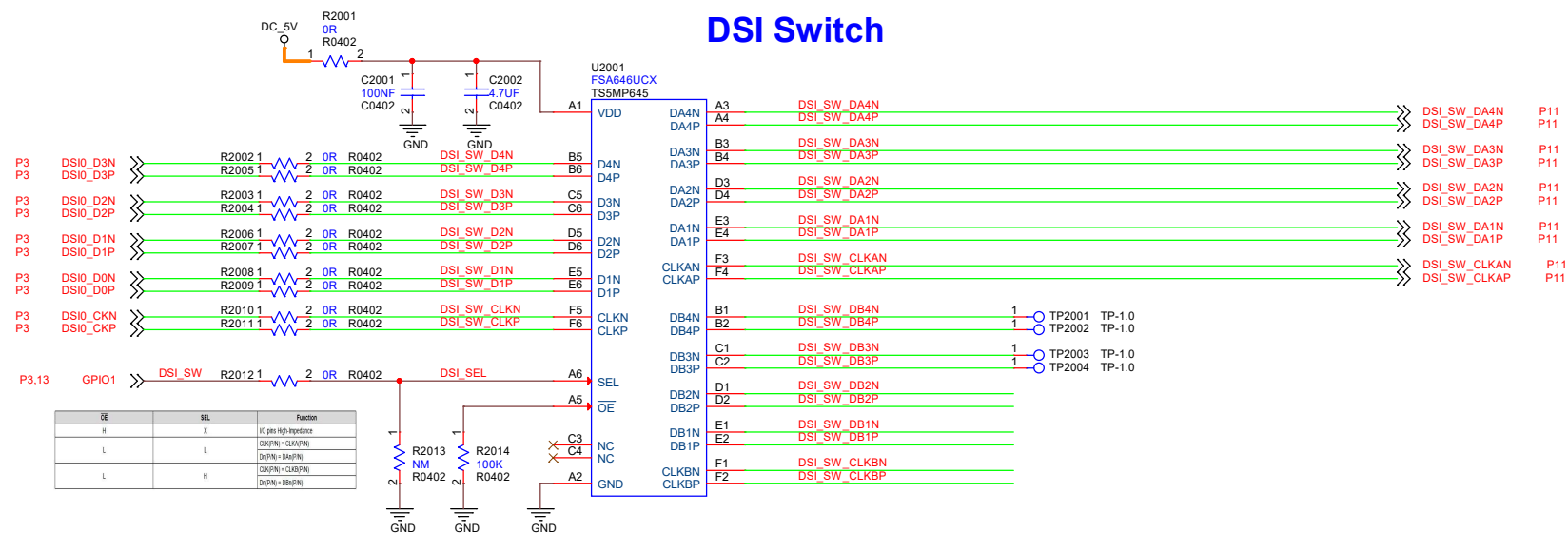
Camera2 connector



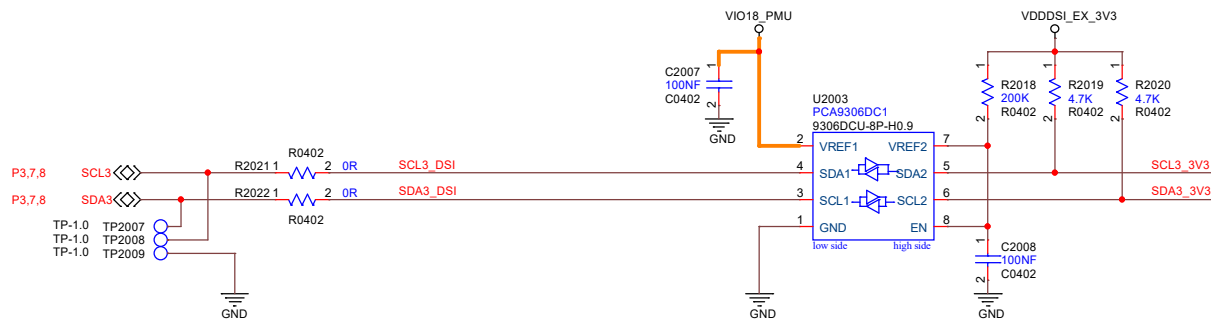
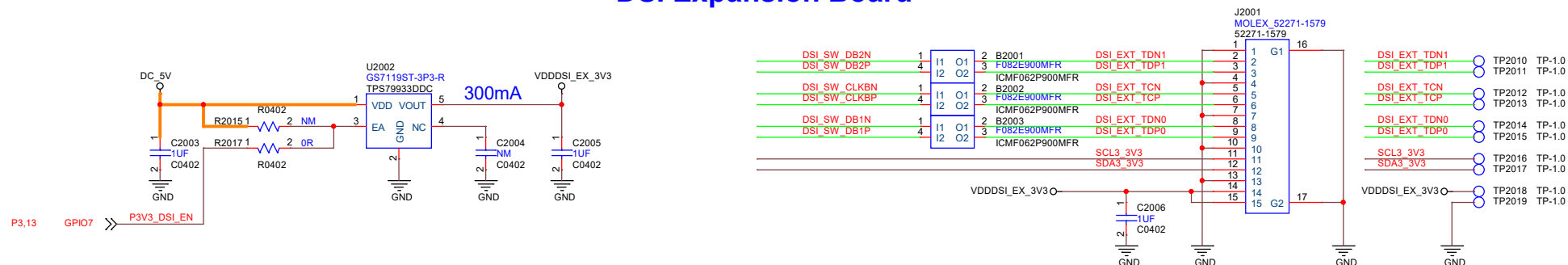


KEY

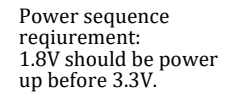




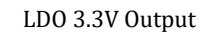
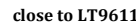
DSI Expansion Board



U2101
LT9611
LT9611



POWER



Level Shifter

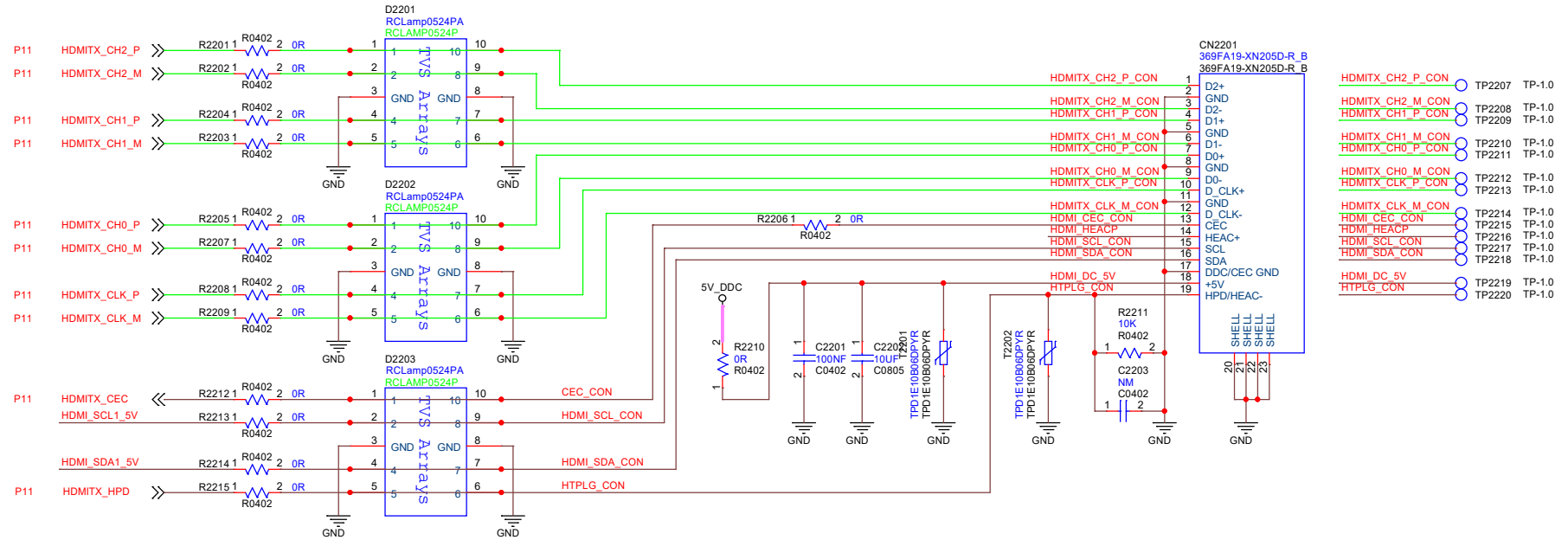


LT9611 side

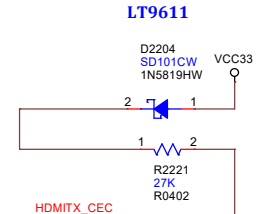
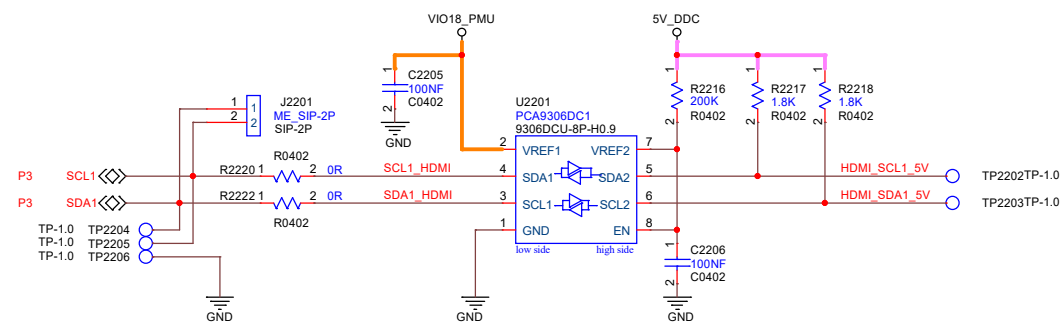
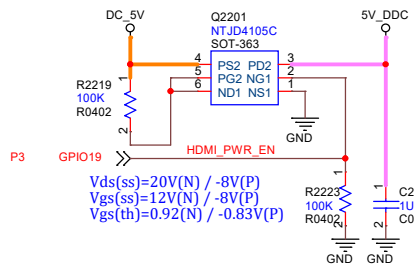
AP side

LT9611 sid

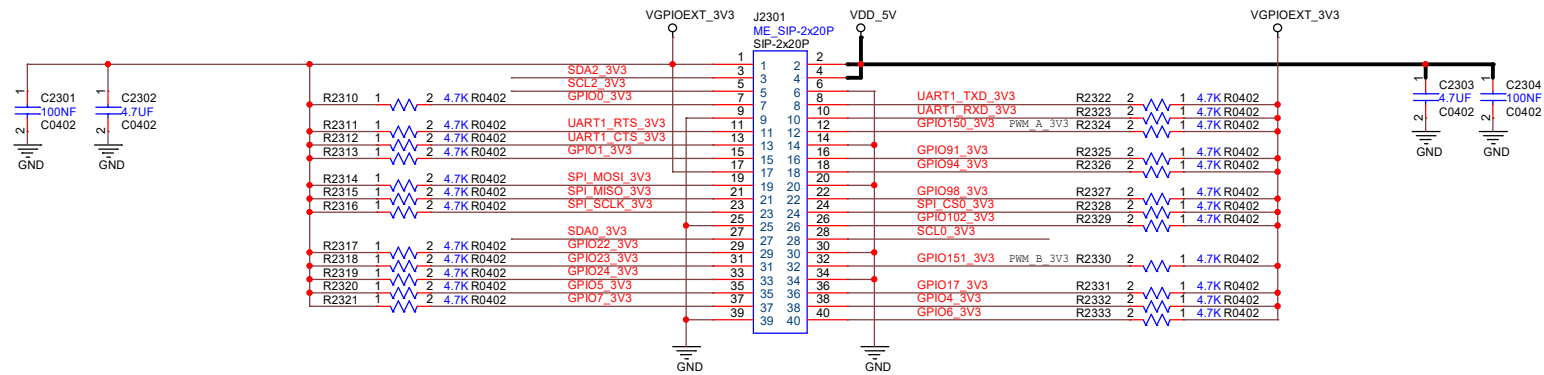
HDMI Type A Connector



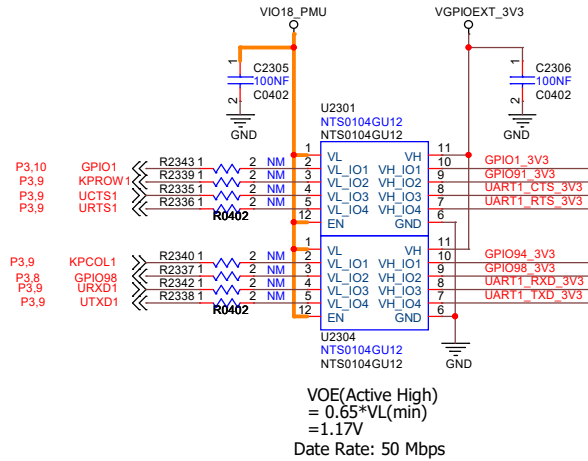
HDMI Type A Power



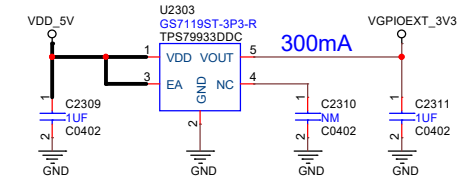
Raspberry Pi GPIO conn.



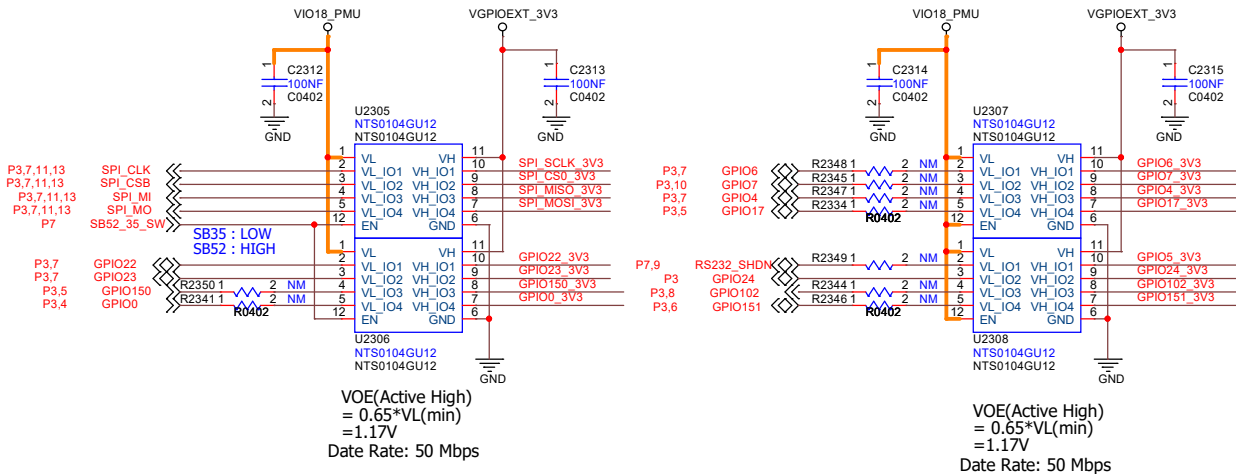
Level Shifter



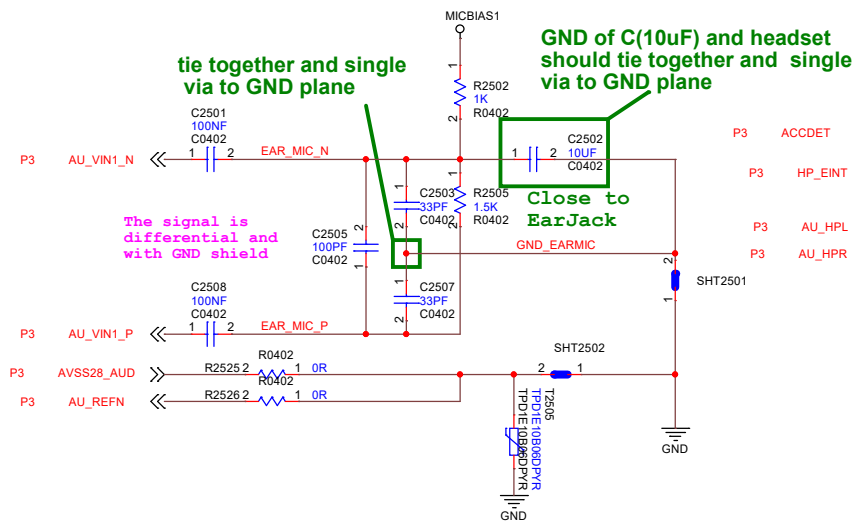
GPIO Conn. Power



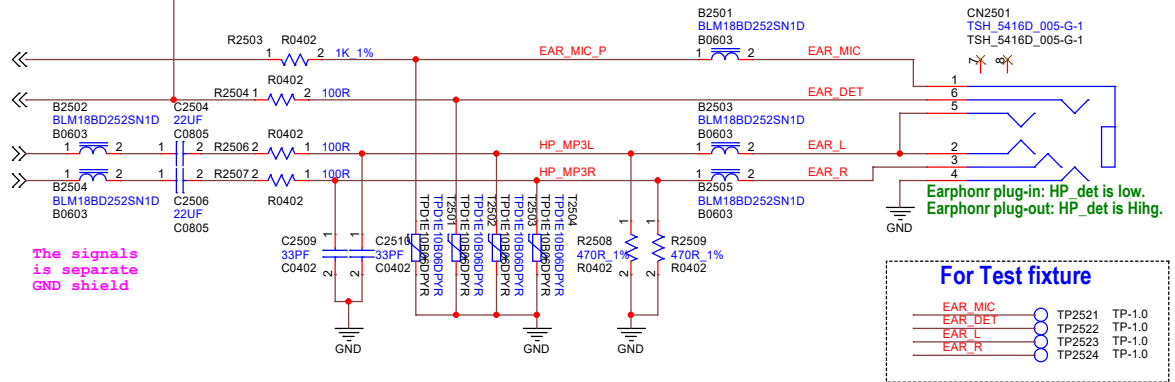
JTAG Conn



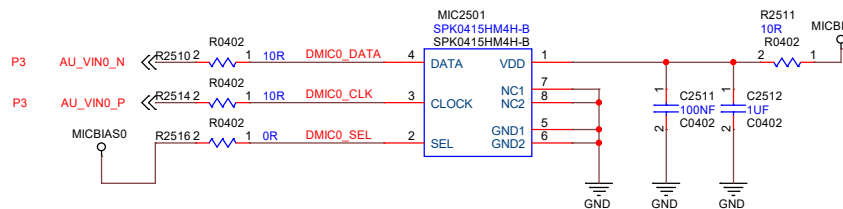
Microphone



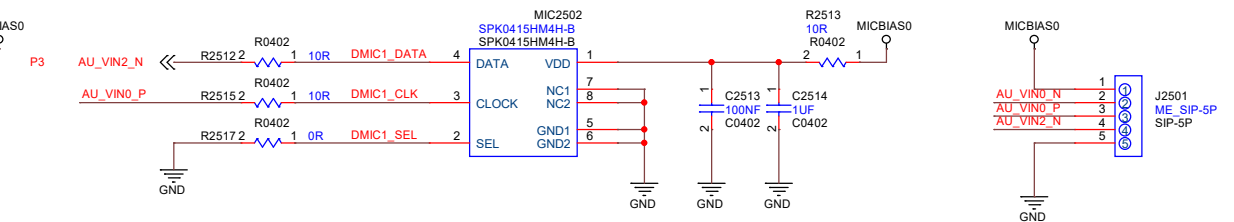
Earphone Audio



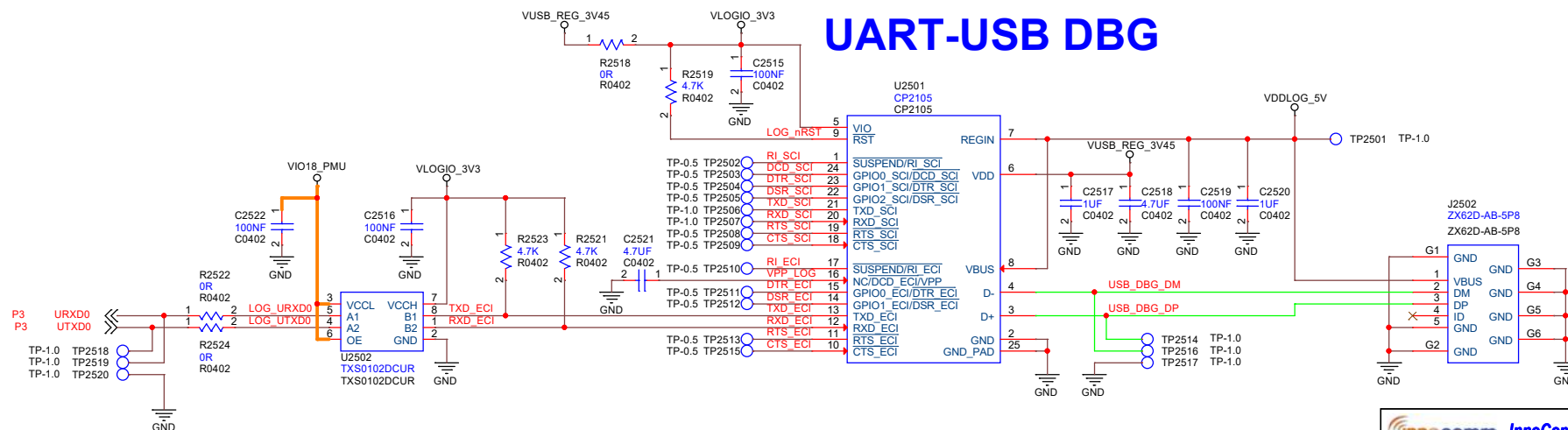
D-MIC0



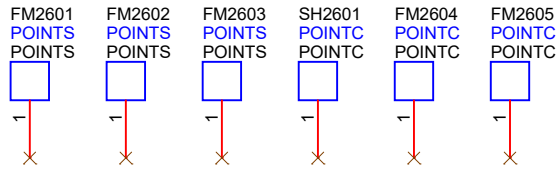
D-MIC1



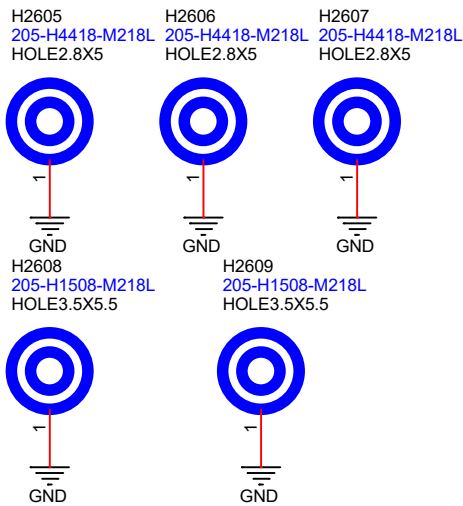
UART-USB DBG



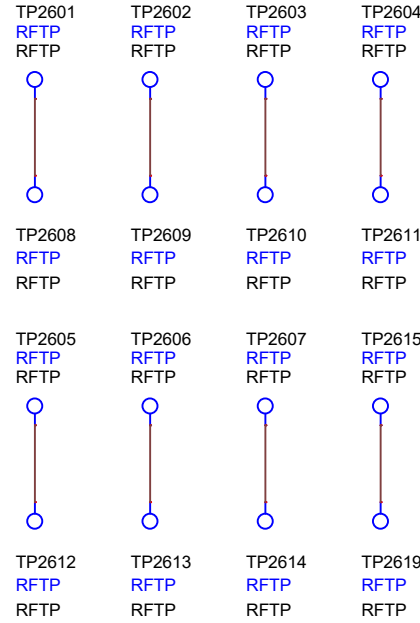
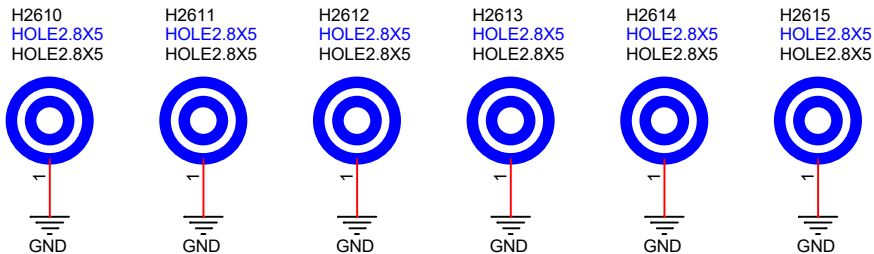
Fiducial Mark



Nut



Screw Hole



Factory Test

