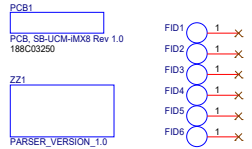
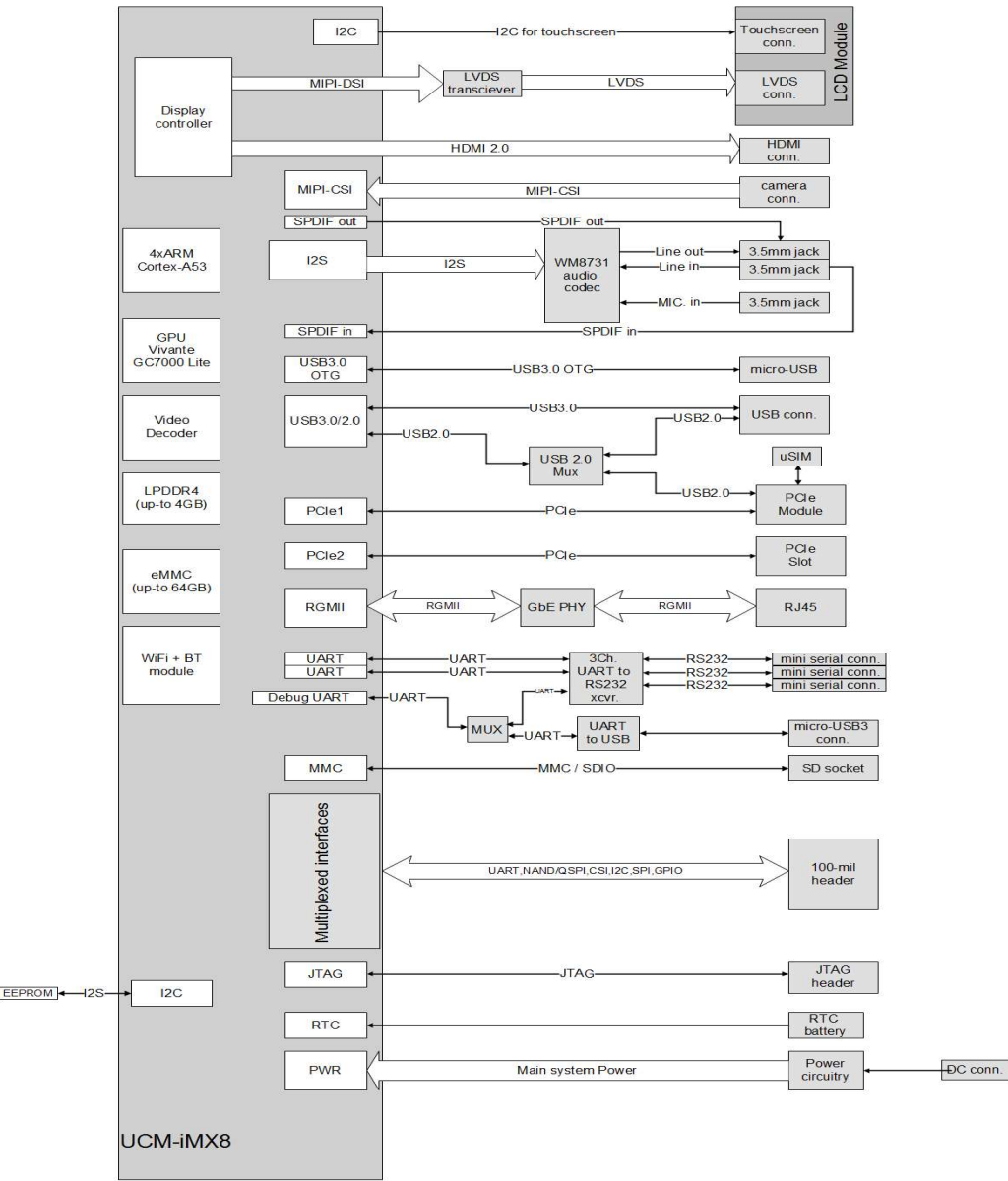
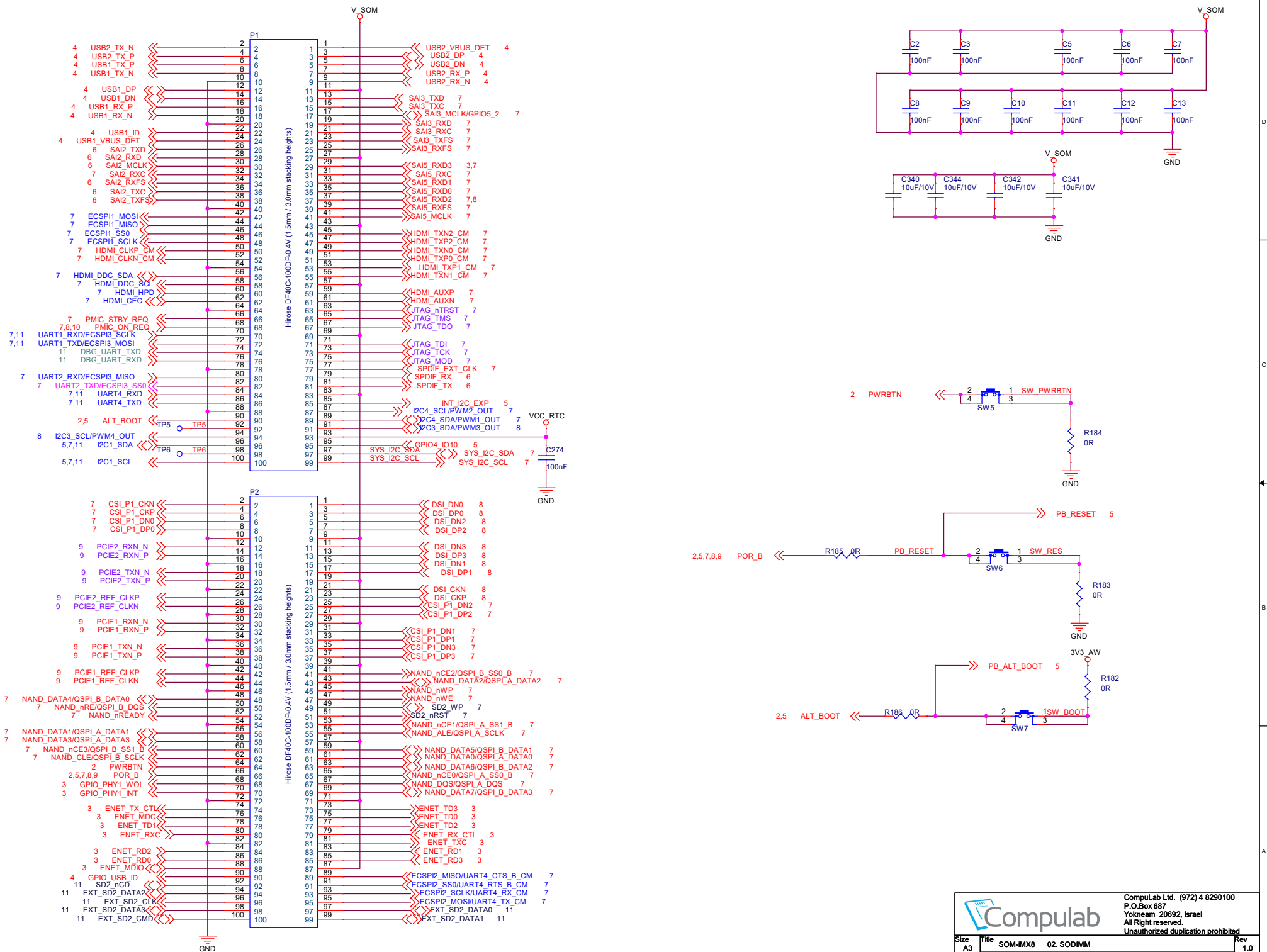


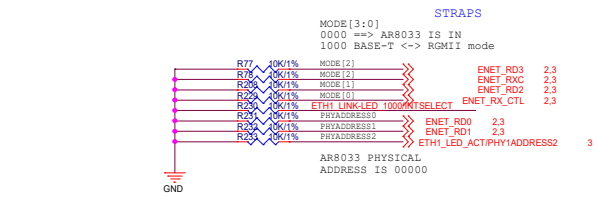
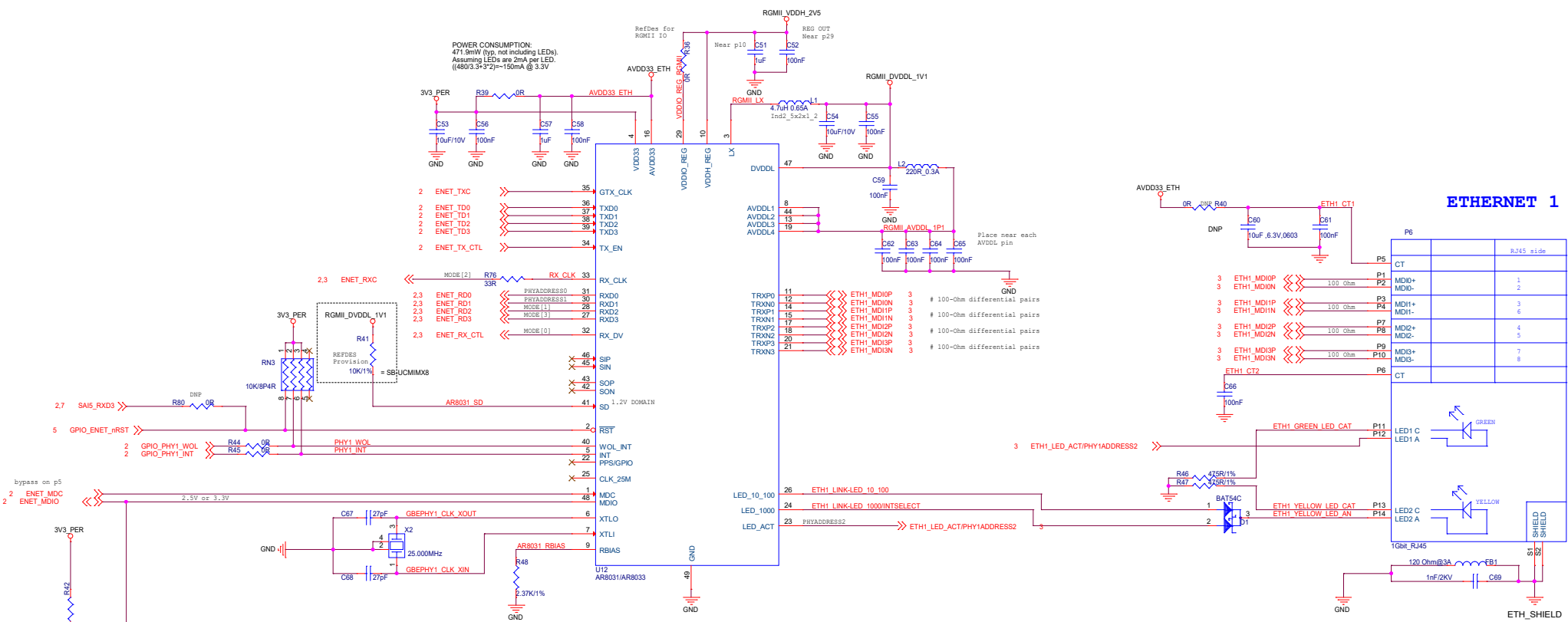
SB-UCM-MX8M

BOARD REVISION: 1.0

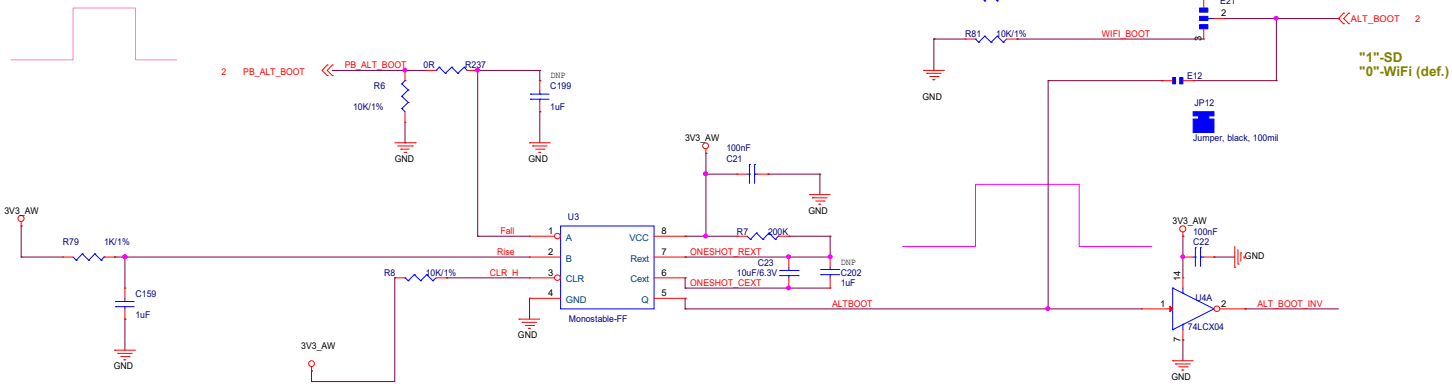




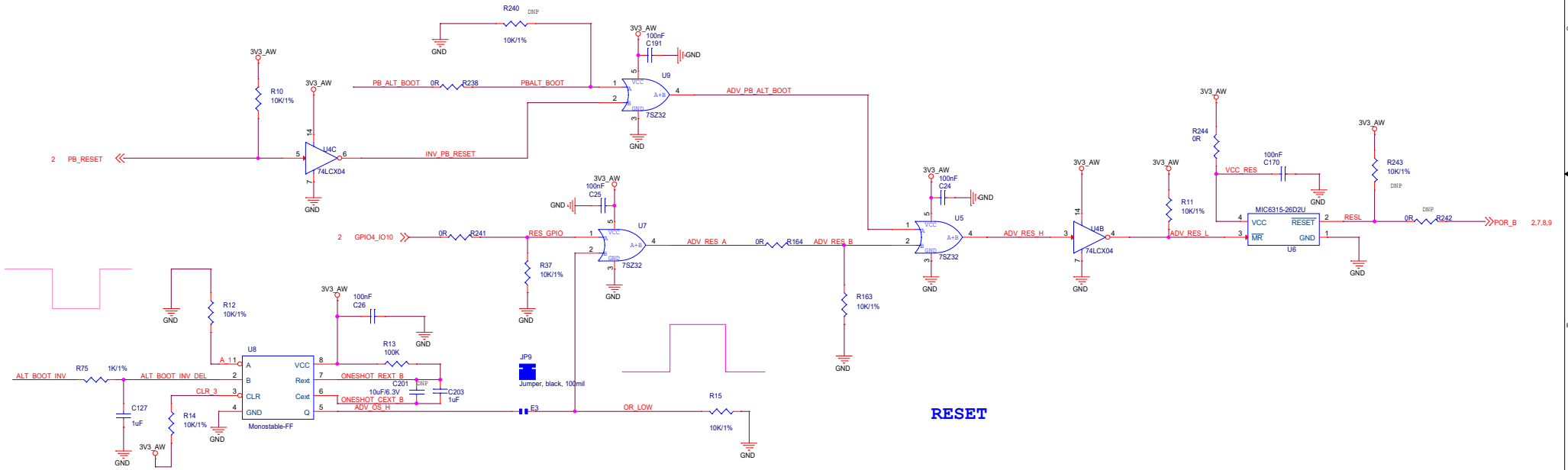
POWER CONSUMPTION:
471.9mW (typ, not including LEDs)
Assuming LEDs are 20mA per LED
((480/3.3*2)-150mA @ 3.3V)



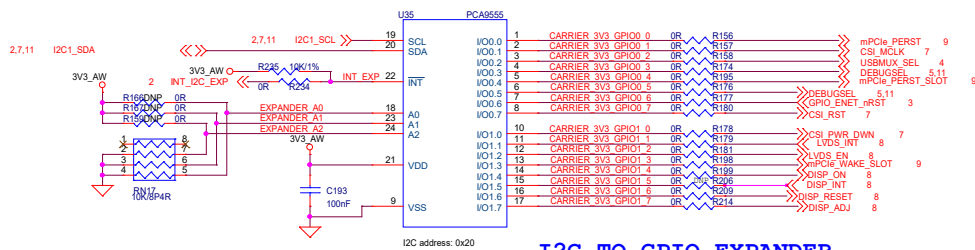
ALT BOOT CONFIGURATION




INITIAL ALT BOOT FROM SD CARD



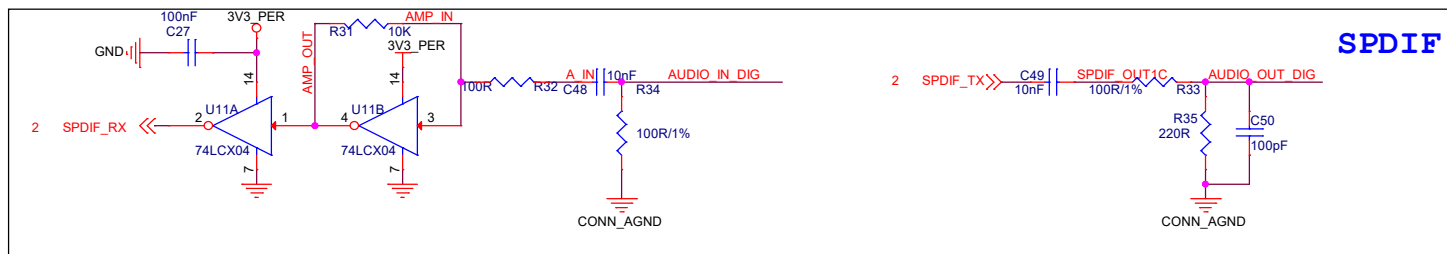
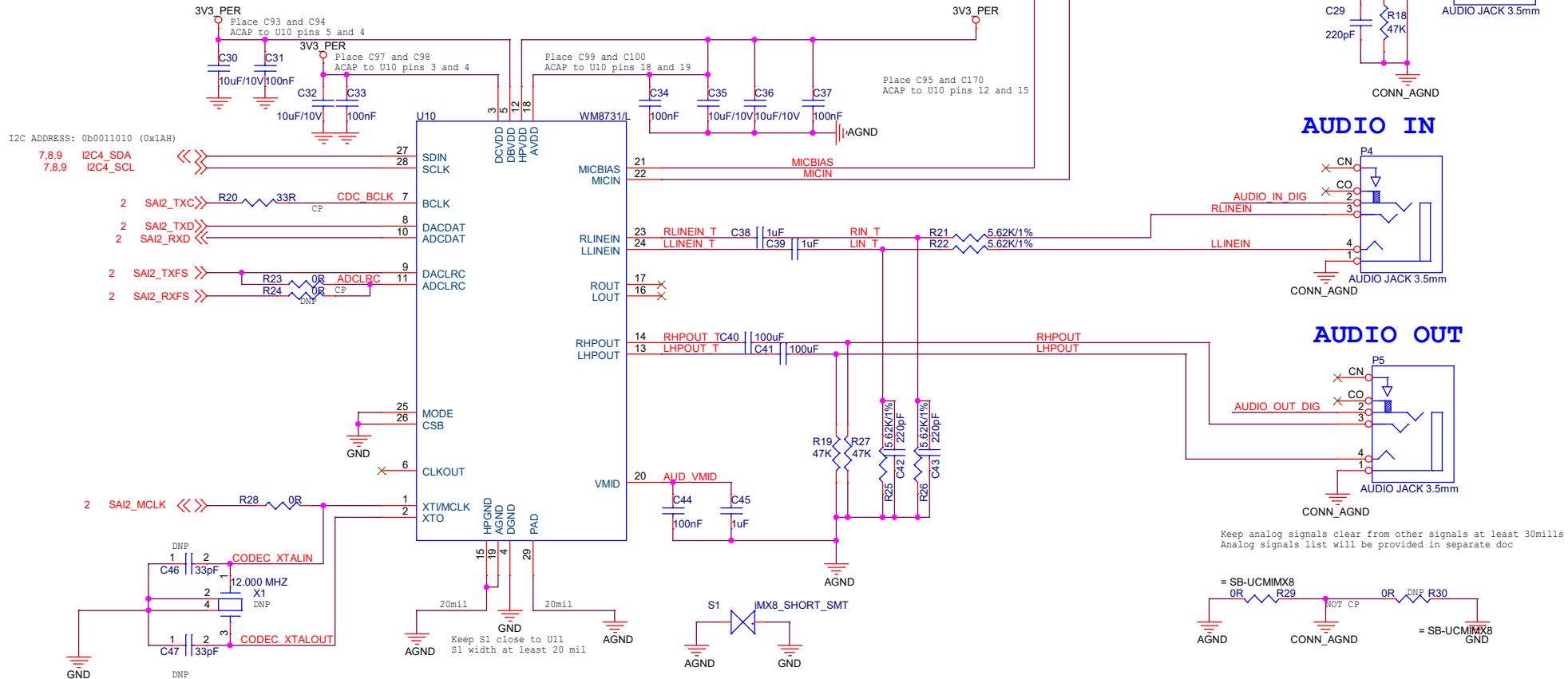
RESET



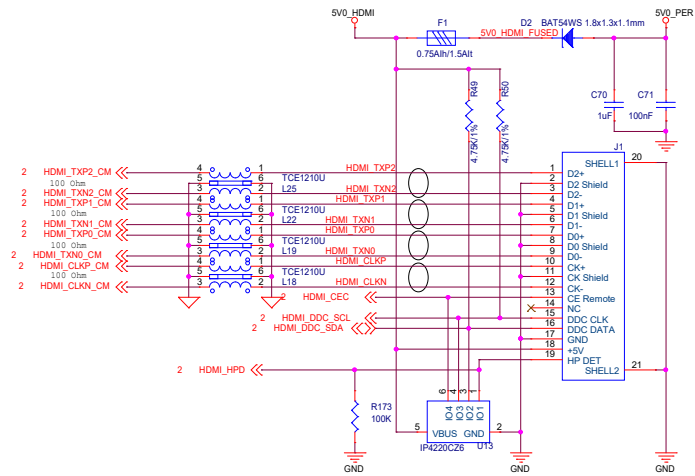
I2C TO GPIO EXPANDER

 CompuLab		CompuLab Ltd. (972) 4 8290100 P.O.Box 687 Yokneam 20692, Israel All Right reserved. Unauthorized duplication prohibited	
Size	Title		Rev
C	SB-UCM-IMX8M 05.ALT-BOOT		1.1
Document Number: 8010055003			
Date:	Monday, November 26, 2018	Sheet	5 of 12

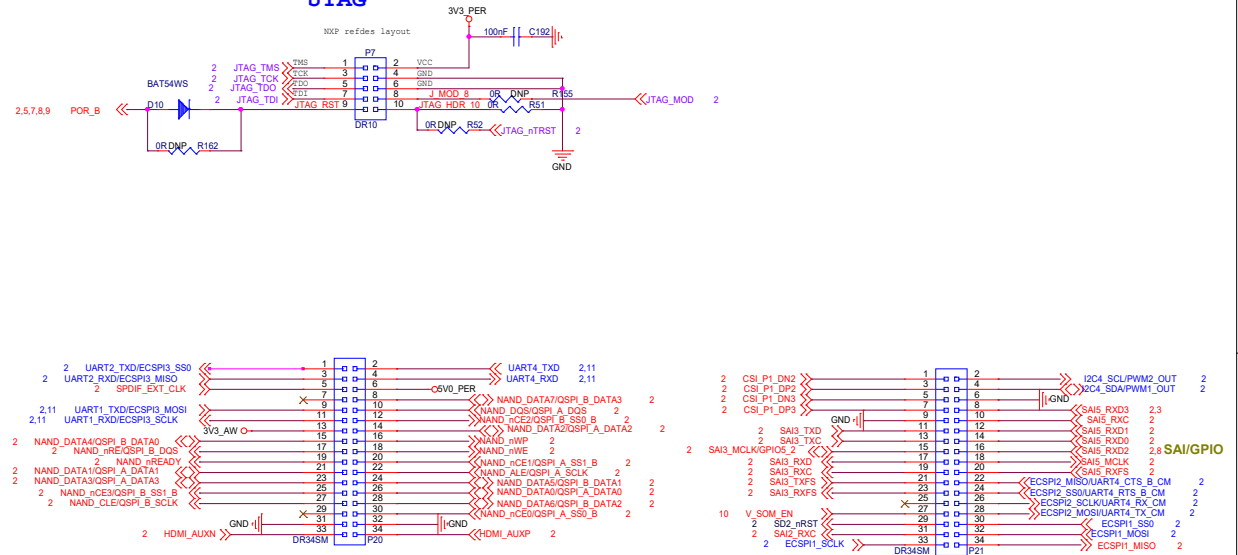
CODEC



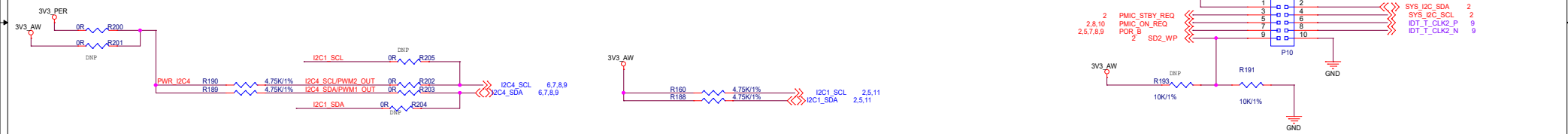
HDMI (8M)



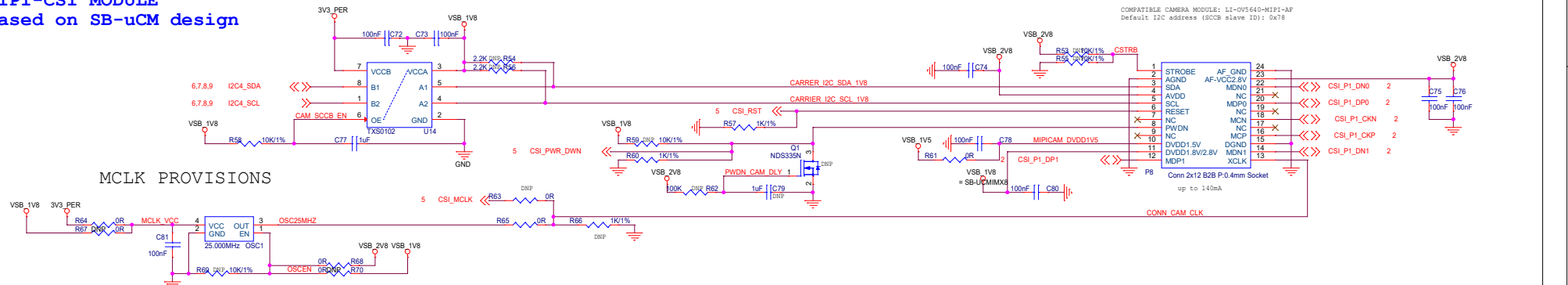
JTAG



MISC CONNECTORTS

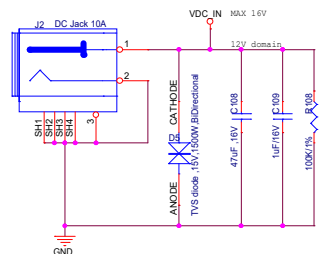


MIPI-CSI MODULE
Based on SB-uCM design

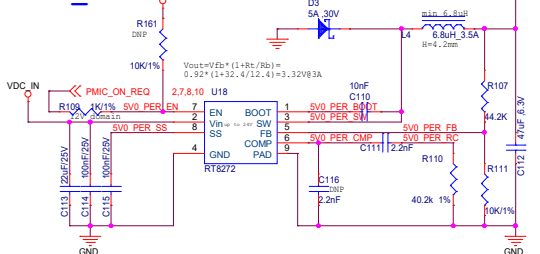


[illegible][illegible][illegible]

DC INPUT

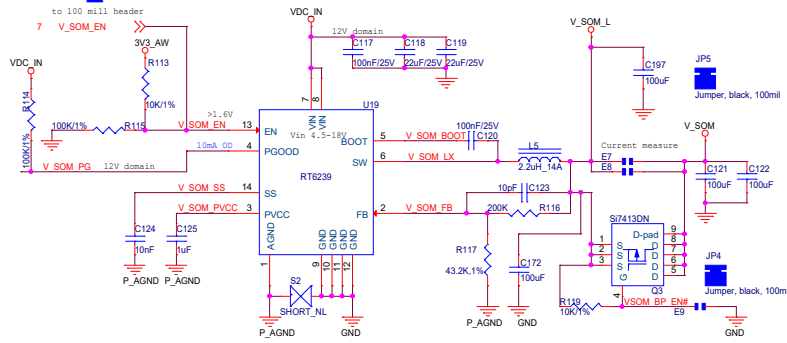


5V0_PER

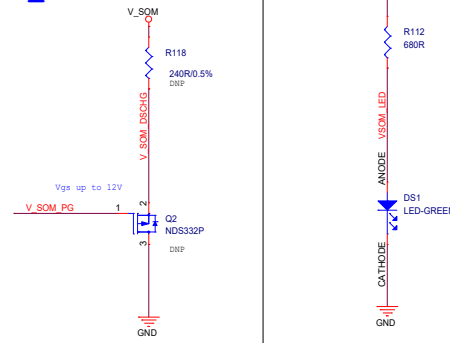


V_SOM

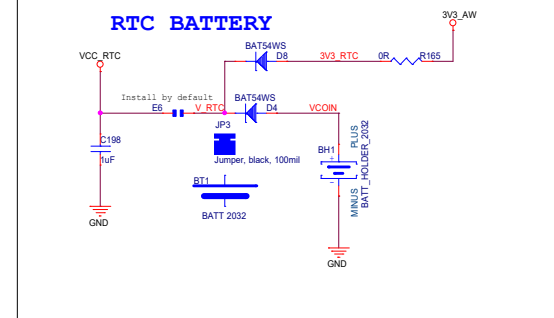
$$V_{out} = 0.7 \times (1 + R_{up}/R_{dn}) = 0.7 \times (1 + 200/43.2) = 3.9489A$$



V_SOM DISCHARGE

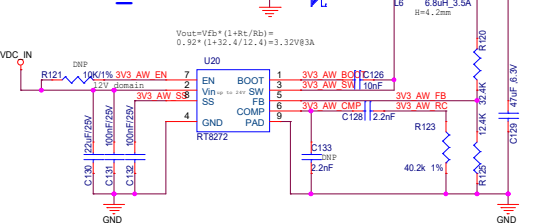


RTC BATTERY

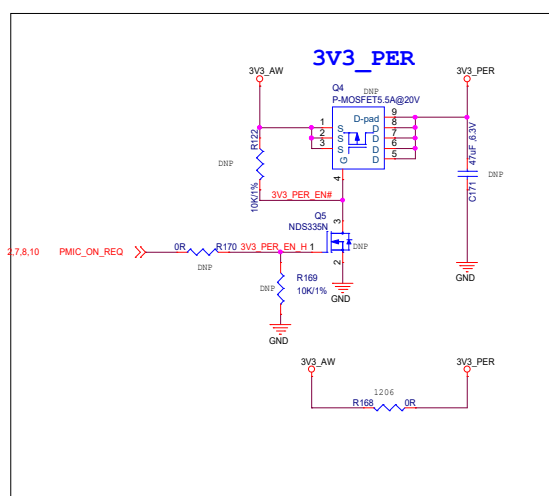


3V3_AW

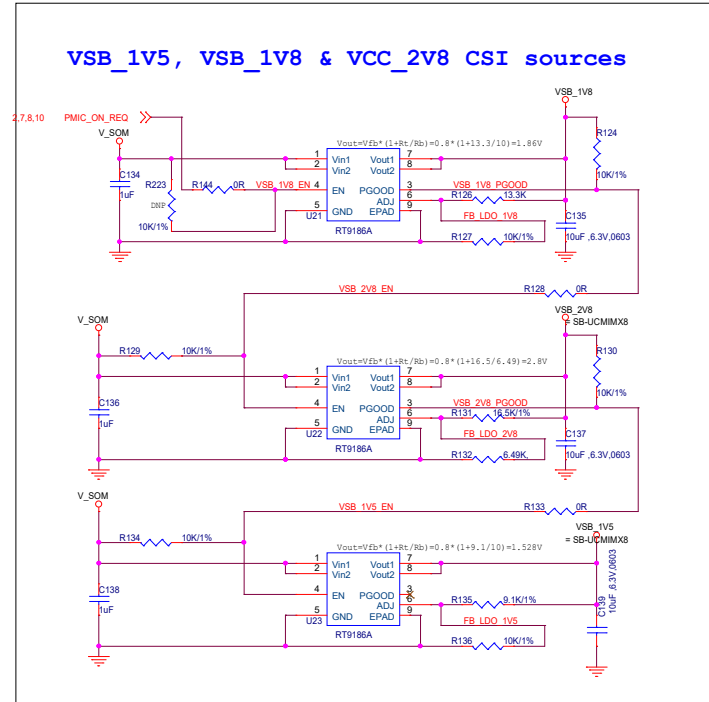
$$V_{out} = V_{FB} \times (1 + R_{up}/R_{dn}) = 0.92 \times (1 + 32.4/12.4) = 3.32V83A$$



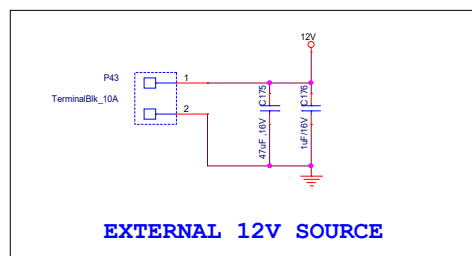
3V3_PER



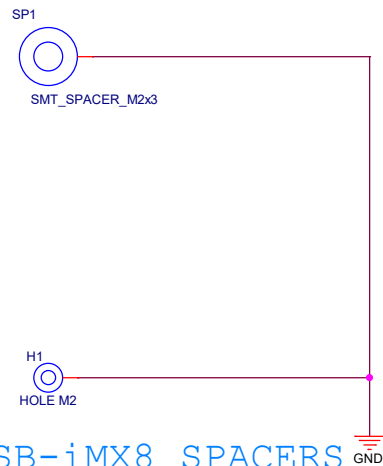
VS8_1V5, VS8_1V8 & VCC_2V8 CSI sources



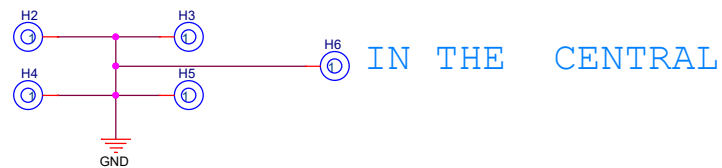
EXTERNAL 12V SOURCE



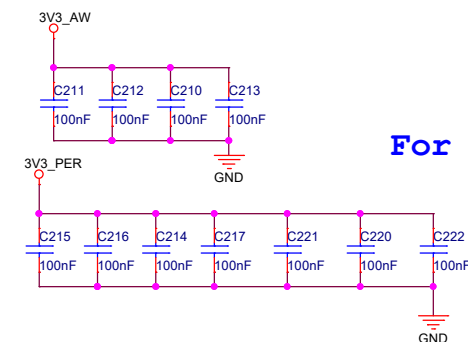
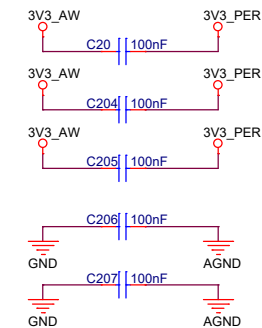
SODIMM SPACERS



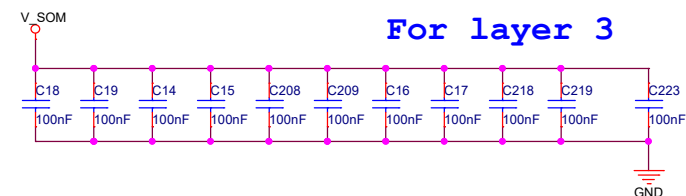
SB-iMX8 SPACERS



Stitching Capacitors



For layer 6



For layer 3