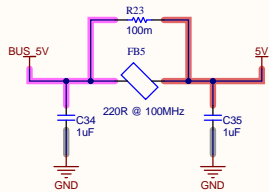
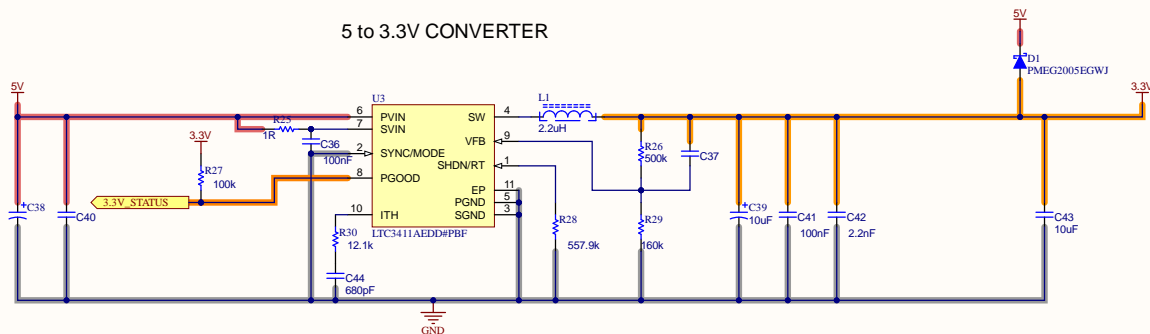


### EMI FILTER



### 5 to 3.3V CONVERTER

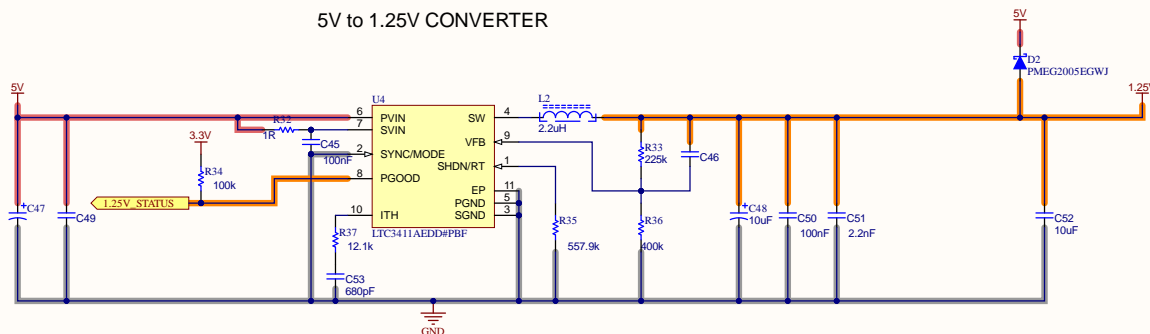


If ESR < 40 mOhm for bulk cap, ripple is below 20 mVrms

$I_o = 1$  MHz with  $R_i = 557.9k$

$V_{out} = 0.8V (1 + R_{top}/R_{bot})$   
 $3.3V = 0.8V (1 + R_{top}/R_{bot})$   
 $3.3V = 0.8V (1 + 500k/160k)$   
 $1.25V = 0.8V (1 + R_{top}/R_{bot})$   
 $1.25V = 0.8V (1 + 225k/400k)$

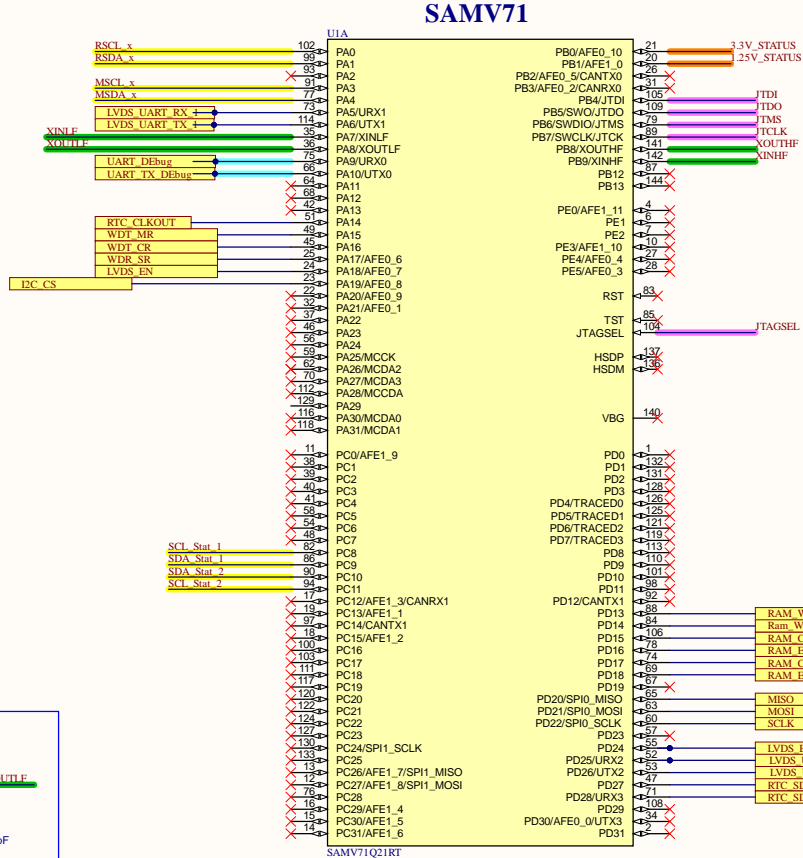
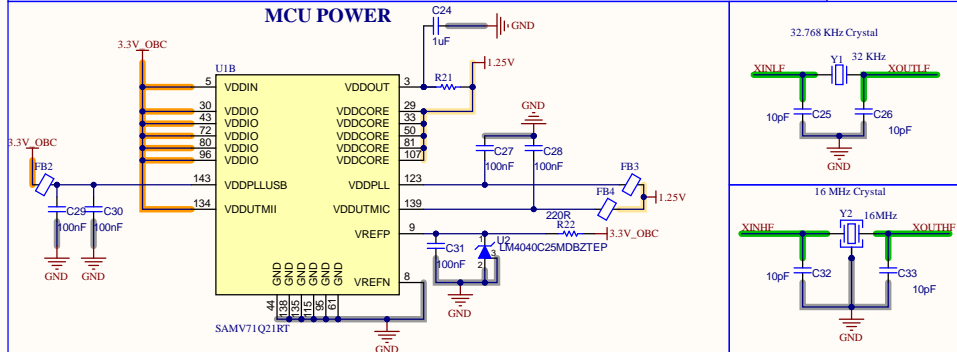
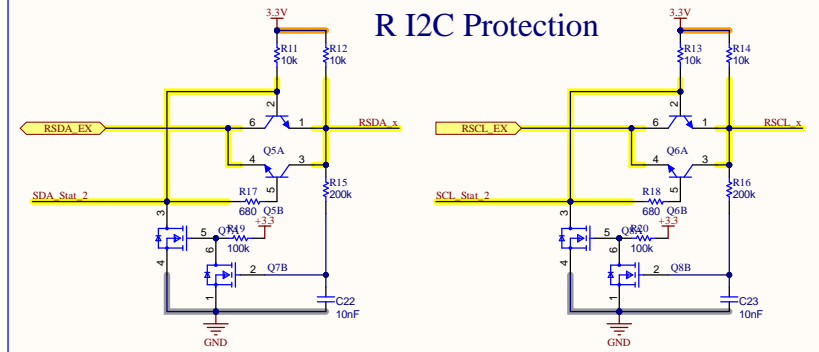
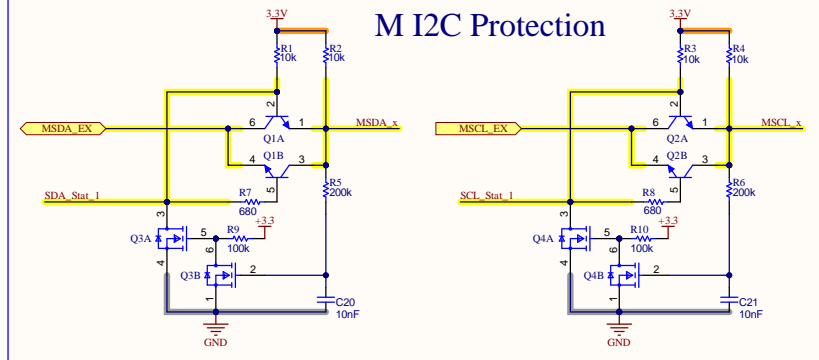
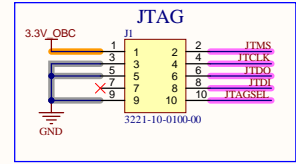
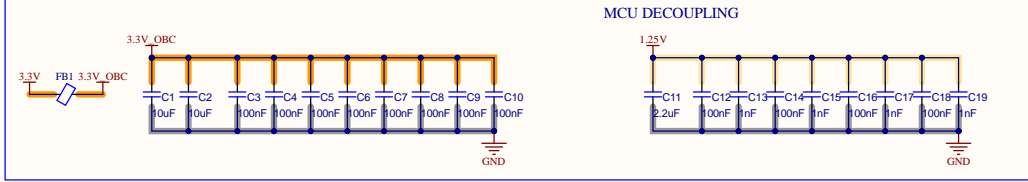
### 5V to 1.25V CONVERTER



TITLE			
CIRCUIT			
CDH BOARD			
SIZE	B	REV	A
SHEET		3 / 8	

# SAMV71 MCU

- Things to connect:
- Power and GND
  - 2x I2C
  - Single SPI line for MRAM



SPACE CONCORDIA

TITLE

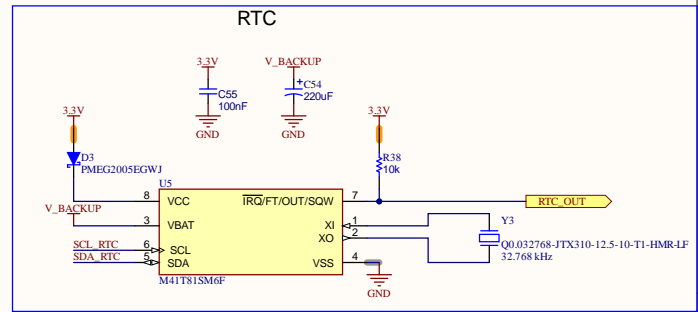
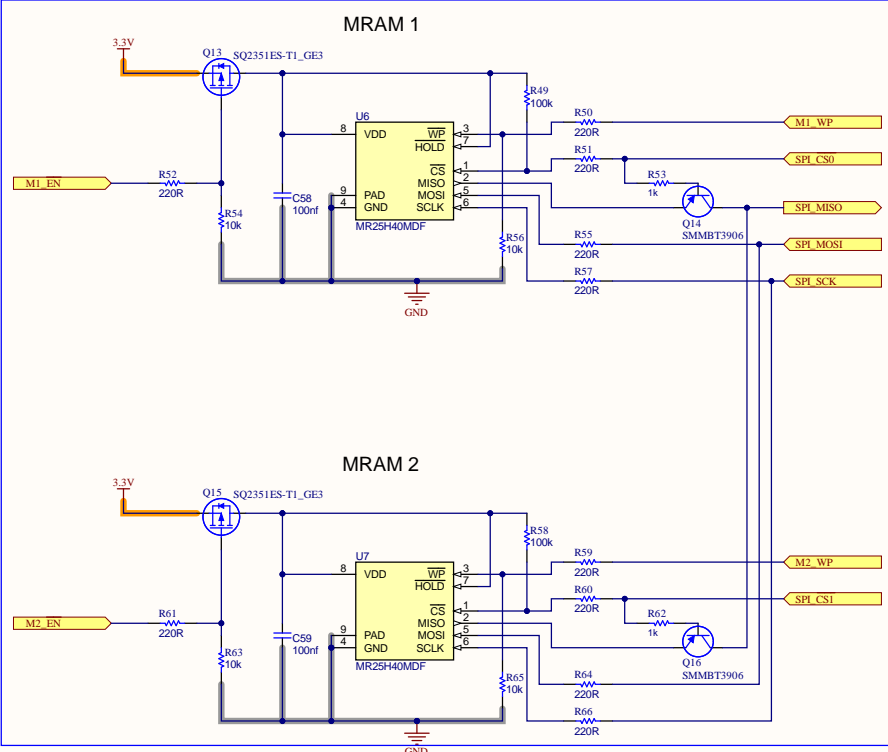
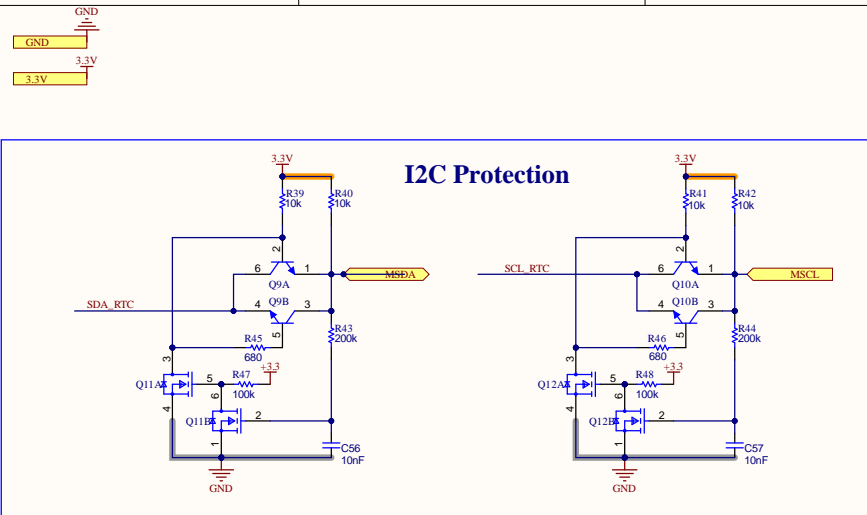
CIRCUIT

CDH BOARD

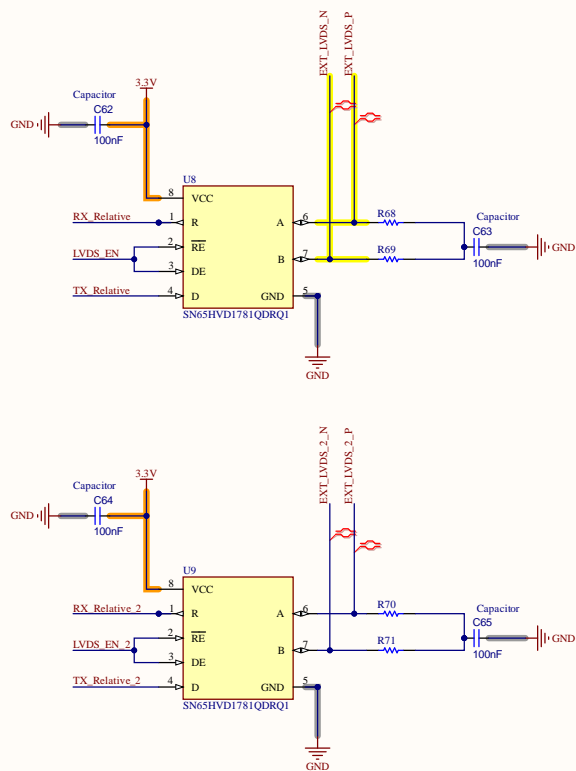
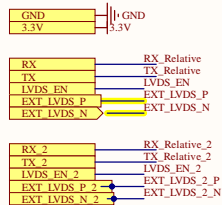
SIZE B


REV A

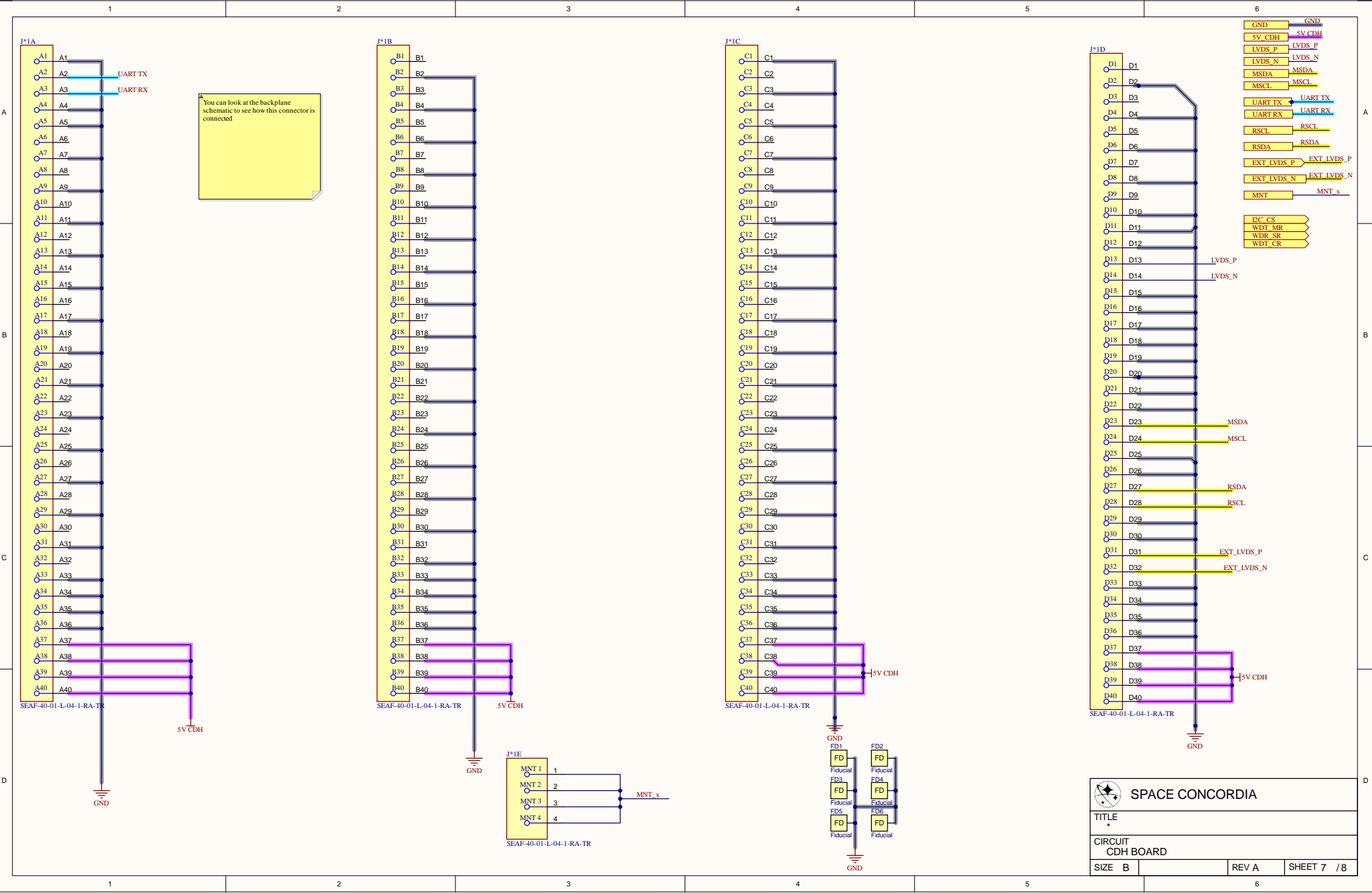
SHEET 4 / 8

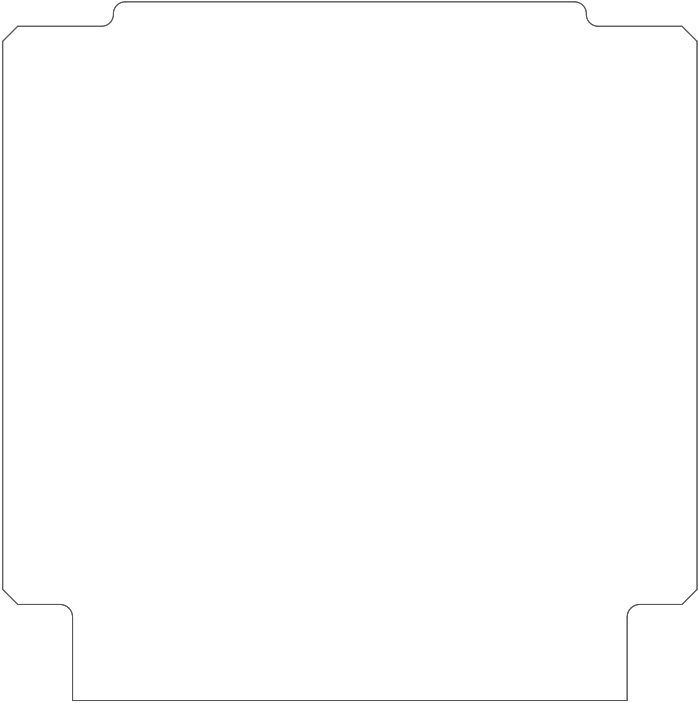
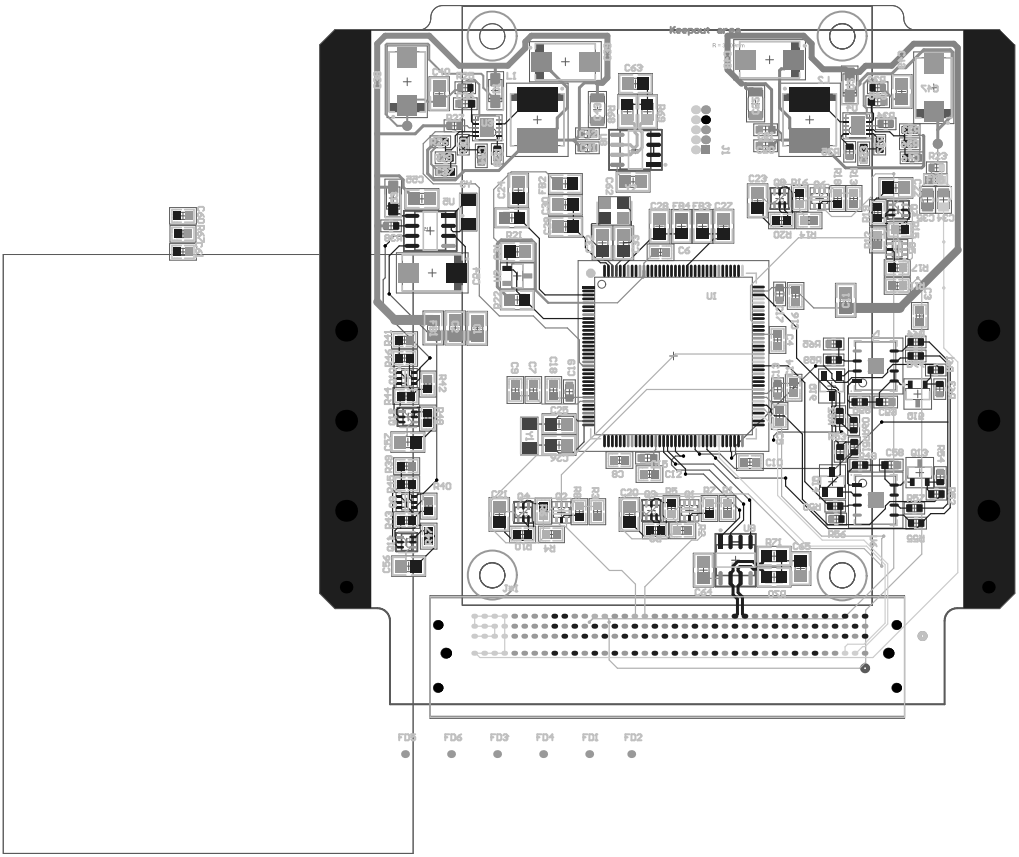


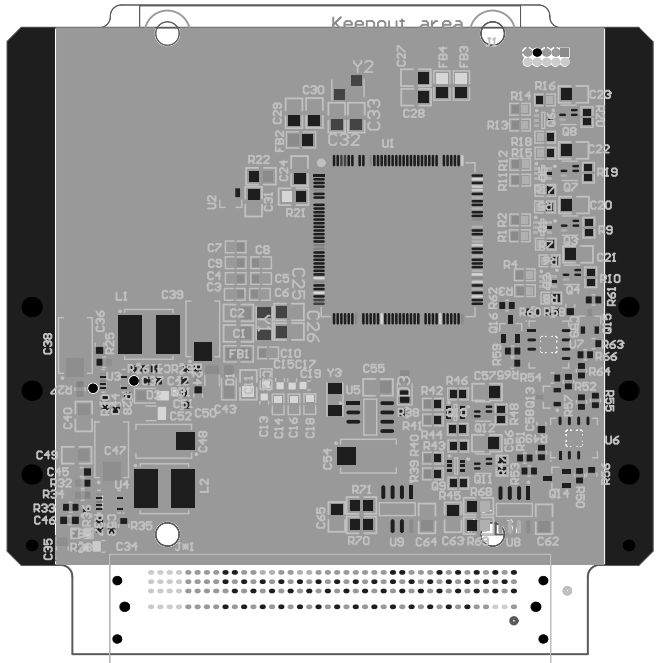
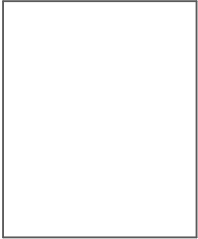
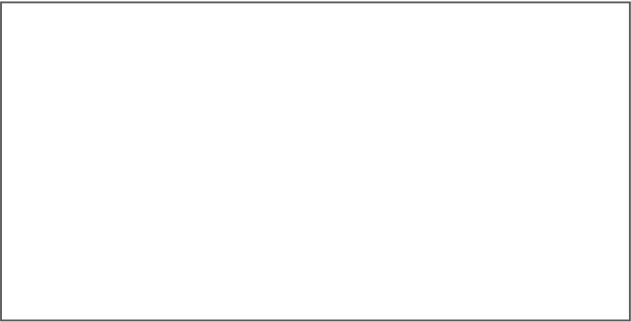
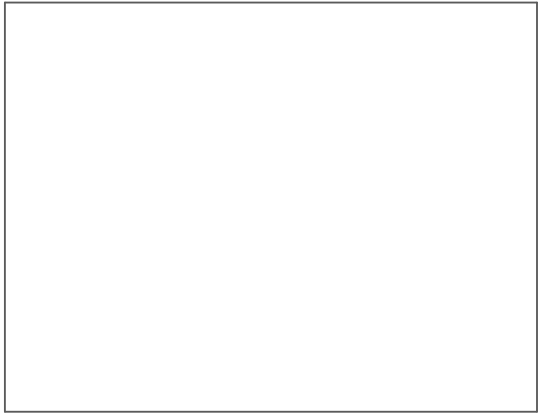
SPACE CONCORDIA			
TITLE			
CIRCUIT			
CDH BOARD			
SIZE	B	REV	A
SHEET		5 / 8	



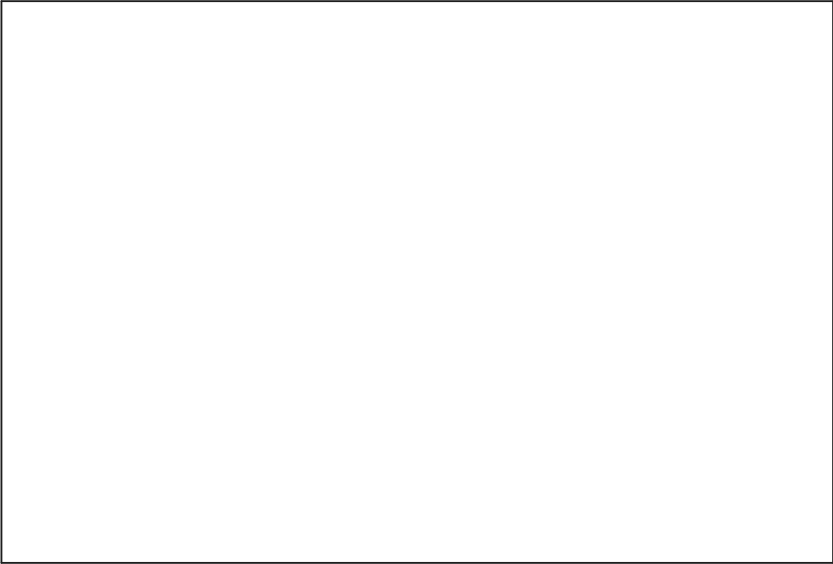
 <b>SPACE CONCORDIA</b>			
TITLE			
CIRCUIT			
CDH BOARD			
SIZE	B	REV	A
SHEET		6 / 8	







FD5 FD6 FD3 FD4 FD1 FD2





Keepout area

R = 3.109mm

This rectangle represents the FPGA board size. This should be on the other side of your MCU and components. The only thing that should be under this are connectors for the FPGA board.

