

SIGMA-4000 MAIN BOARD

Version 0.2: DEC-15, 2021

SCHEMATICS PAGE DESCRIPTIONS

P01: COVER
P02: MCU
P03: PWR, ADC
P04: DAC
P05: GPIO(Digital input/output)
P06: UART(RS232)

INDICATION LED for SYSTEM POWER

INPUT POWER SUPPLY RATING

+24VDC: INPUT
+12VDC : 1A (Max)
+5VDC : 1A (Max)
+3.3VDC : 800mA (Max)

INDICATION LED for BOARD STATUS

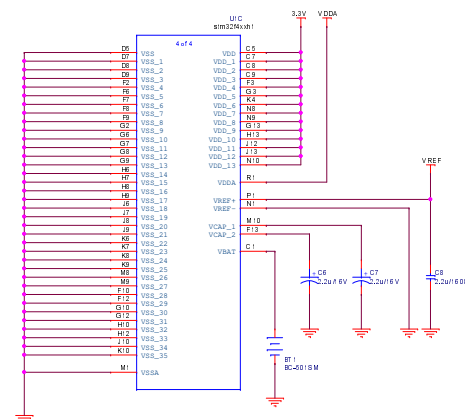
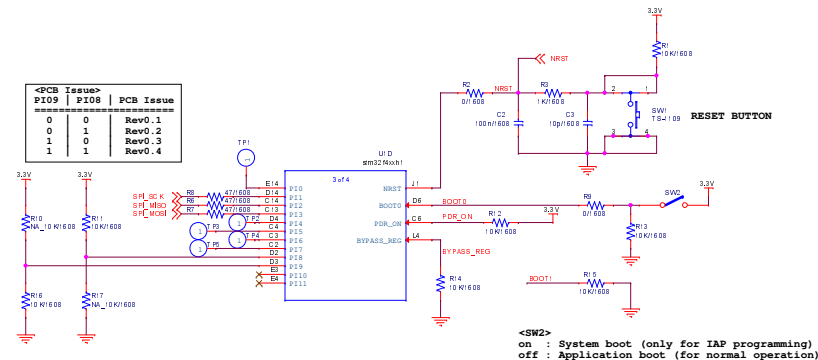
D1 : YELLOW
D2 : GREEN
D3 : RED

TOP SILK

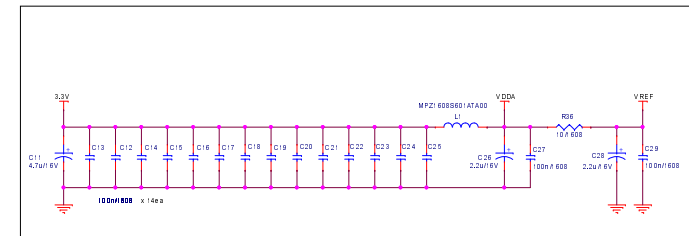
ATiK
Logo

ATiK Co., Ltd
ASS'Y: SIGMA-4000 Main
P/N : SIGMA-4000 Main, Rev0.2
S/N :

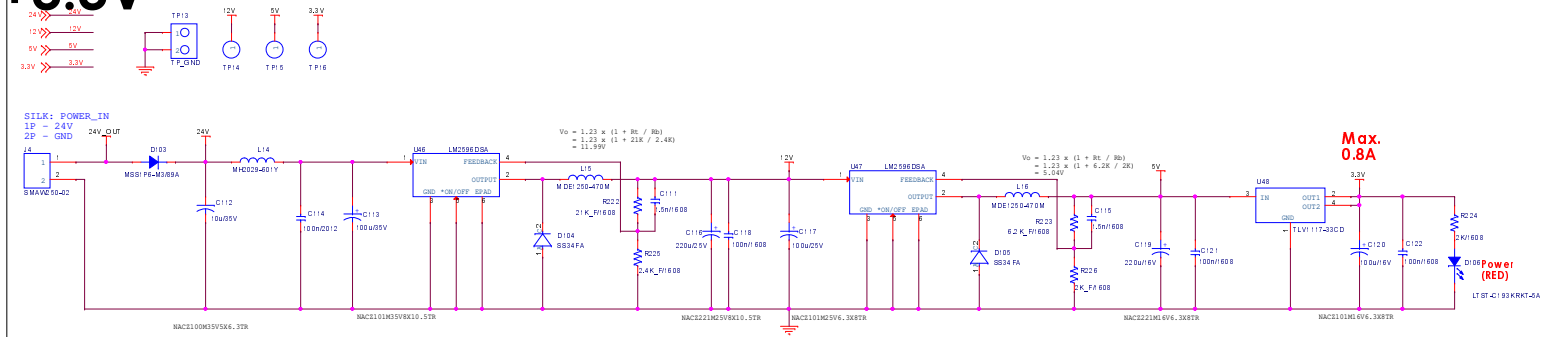
Title		
SIGMA-4000 Main		
Size	Document Number	Rev
A3	<Doc>	0.2
Date	Thursday, December 16, 2021 Sheet 1 of 6	



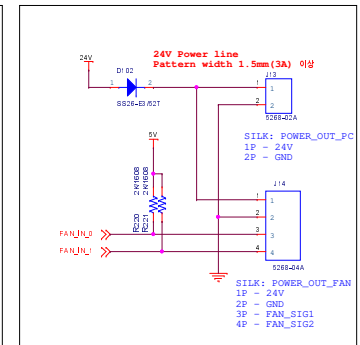
MCU POWER COUPLING CAPACITOR



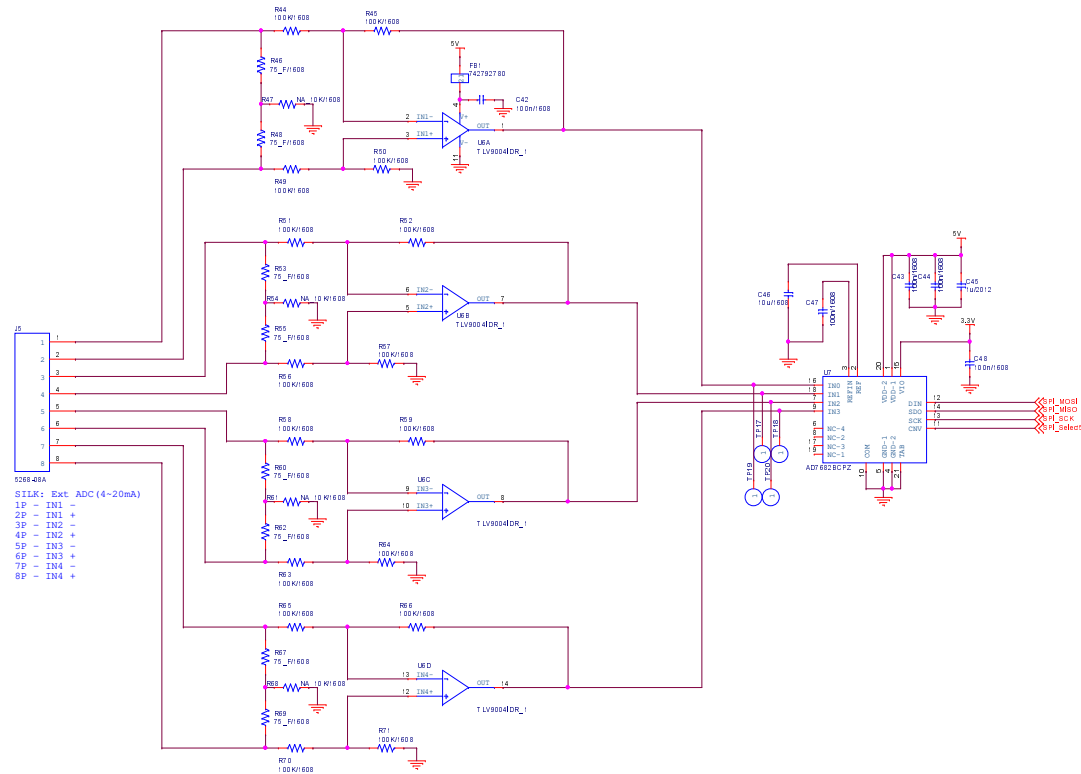
POWER SUPPLY for +5.0V, +3.3V



PC, FAN (24V)

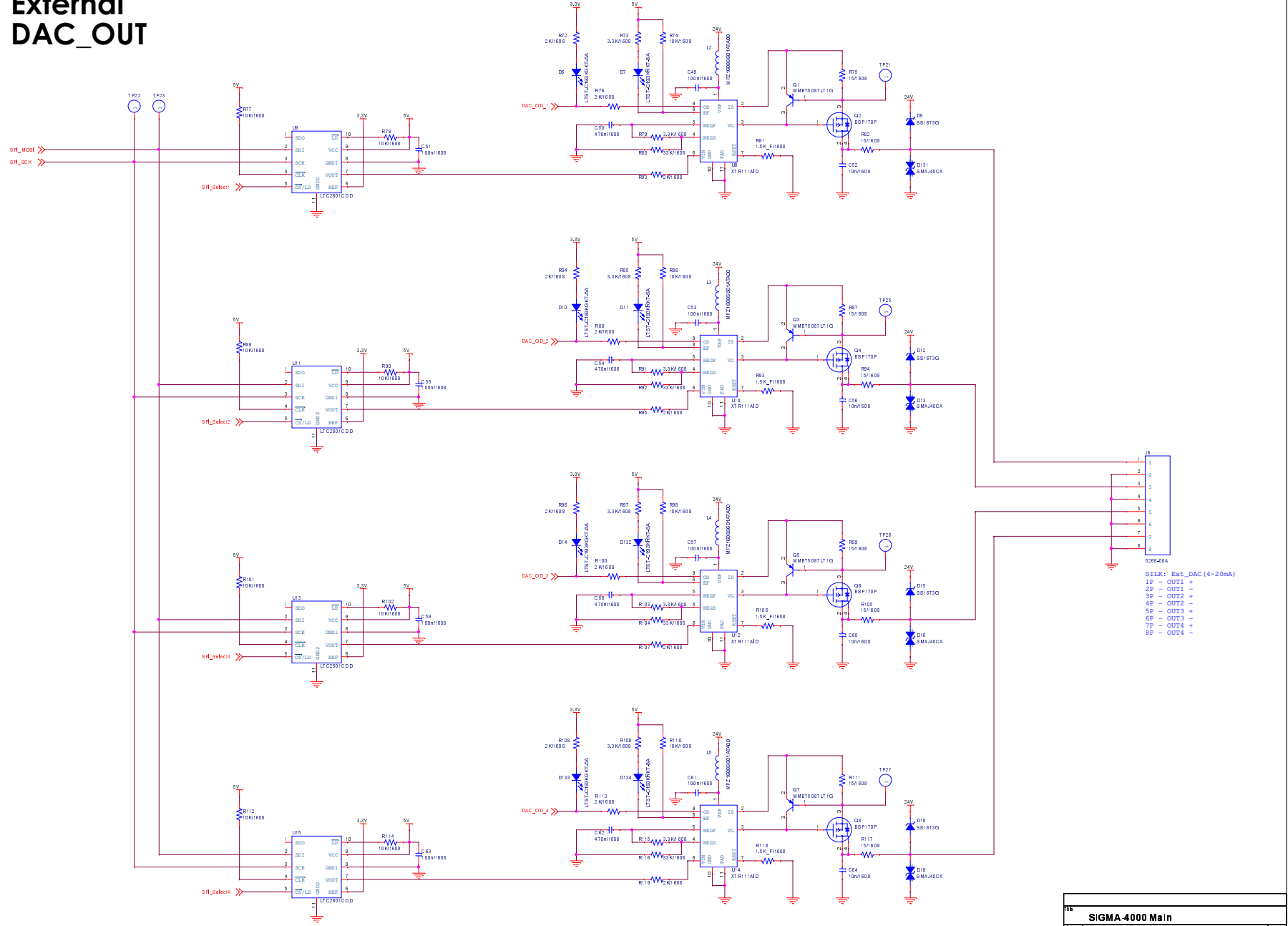


External ADC(Analog input 4-20mA)



24V
12V
5V
3.3V

External DAC_OUT



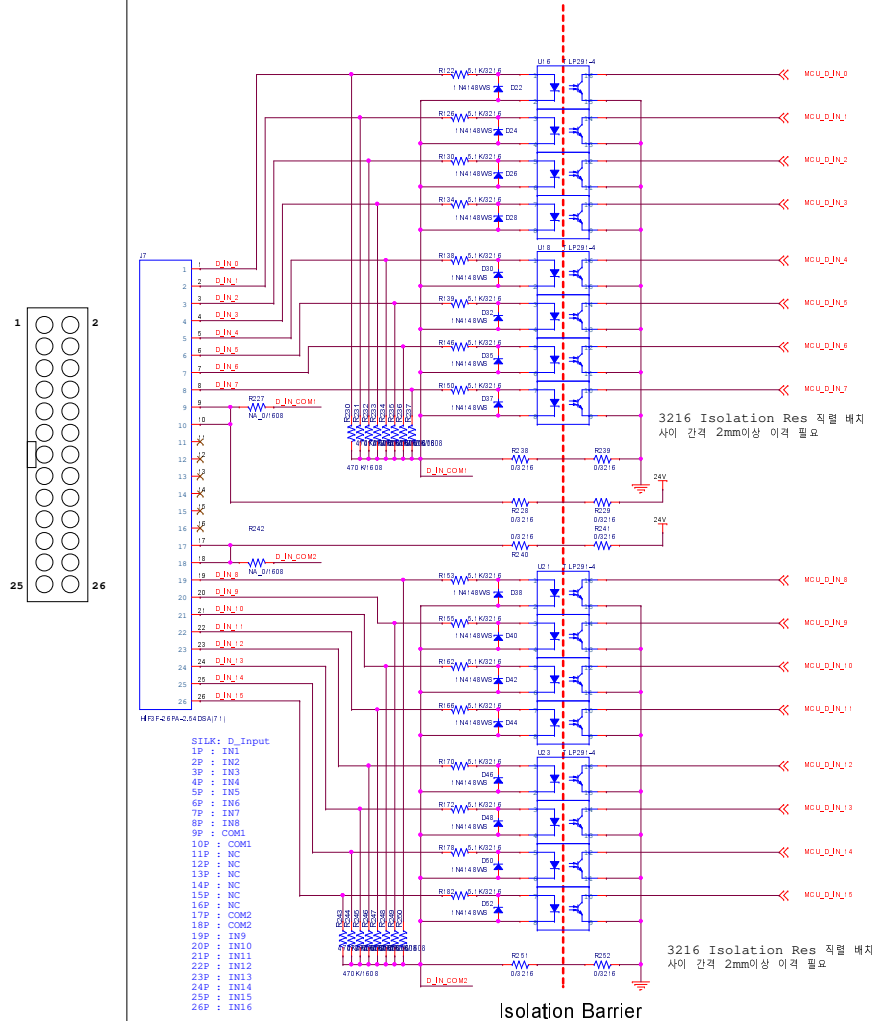


GPIO(Digital Input 8-Port / Output 10-Port)

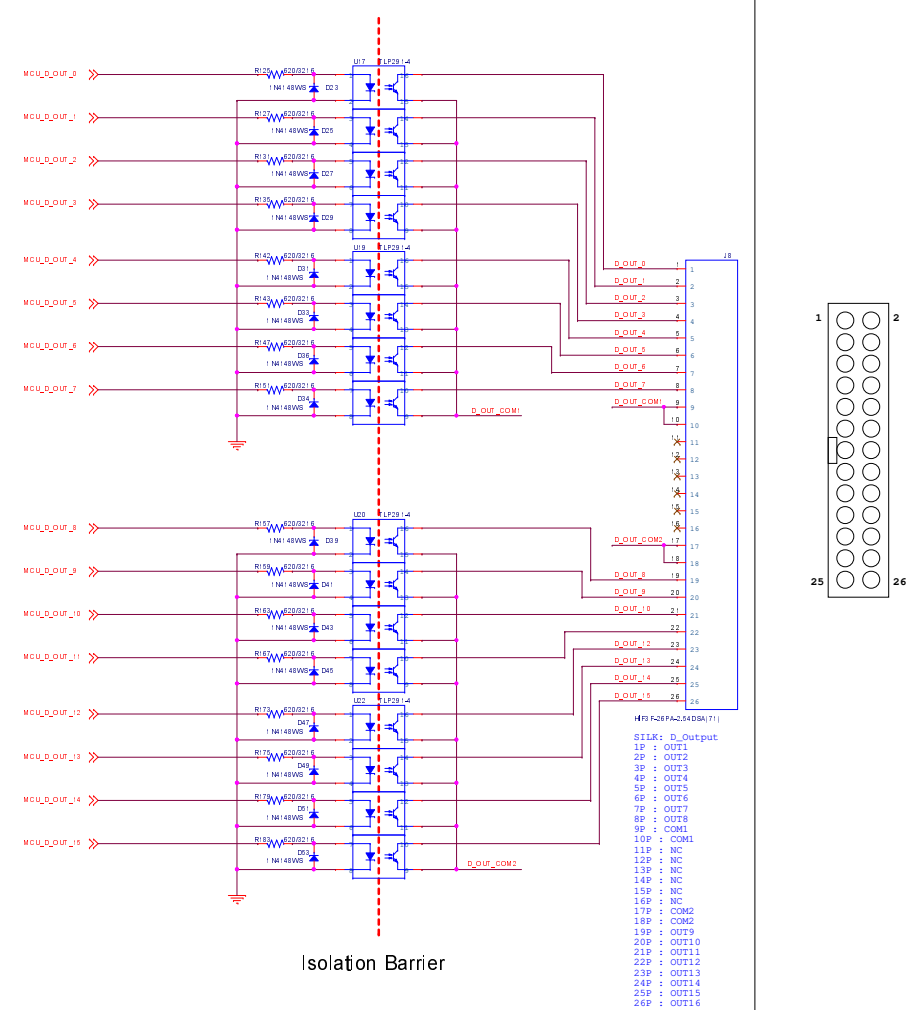
※ Note
RELAY Contact
Ass'y : R143,R144,R153,R154,R157,R159,R198,R199
N.A. : R141,R156

24V Drive input
Ass'y : R141,R156
N.A. : R143,R144,R153,R154,R157,R159,R198,R199

Digital_INPUT



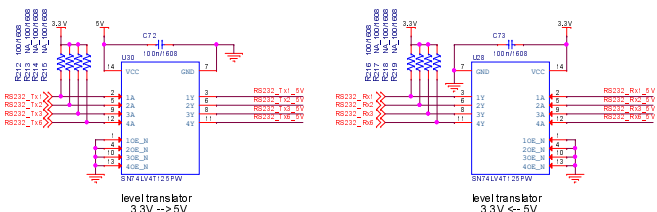
Digital_OUTPUT



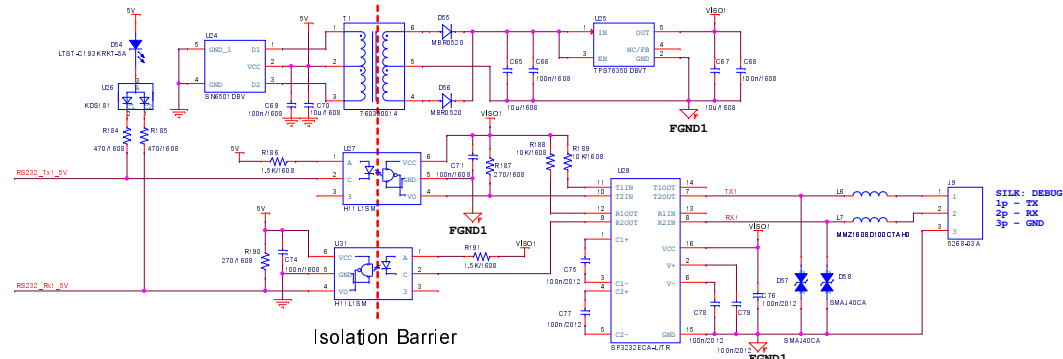
5V >> 5V
3.3V >> 3.3V

RS232 (DEBUG, PC, PLC, APM200i)

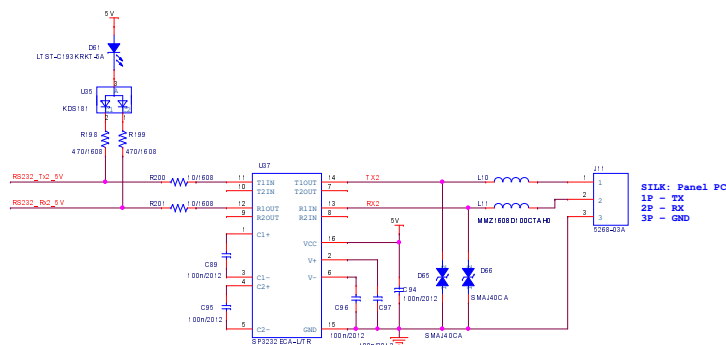
Level translator



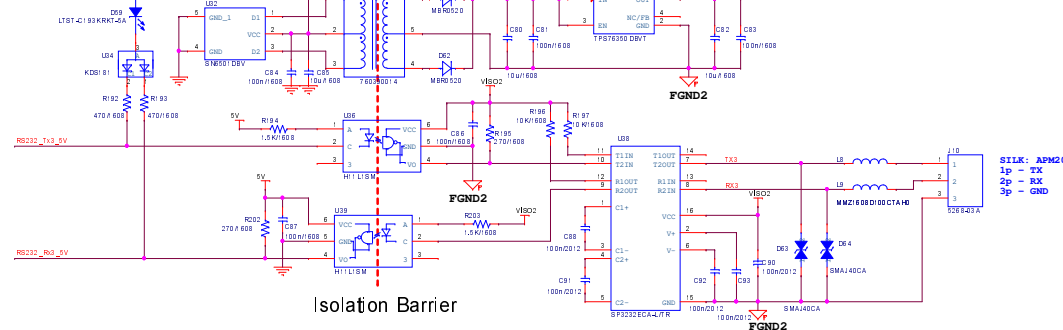
UART #1



UART #2



UART #3



UART #6

