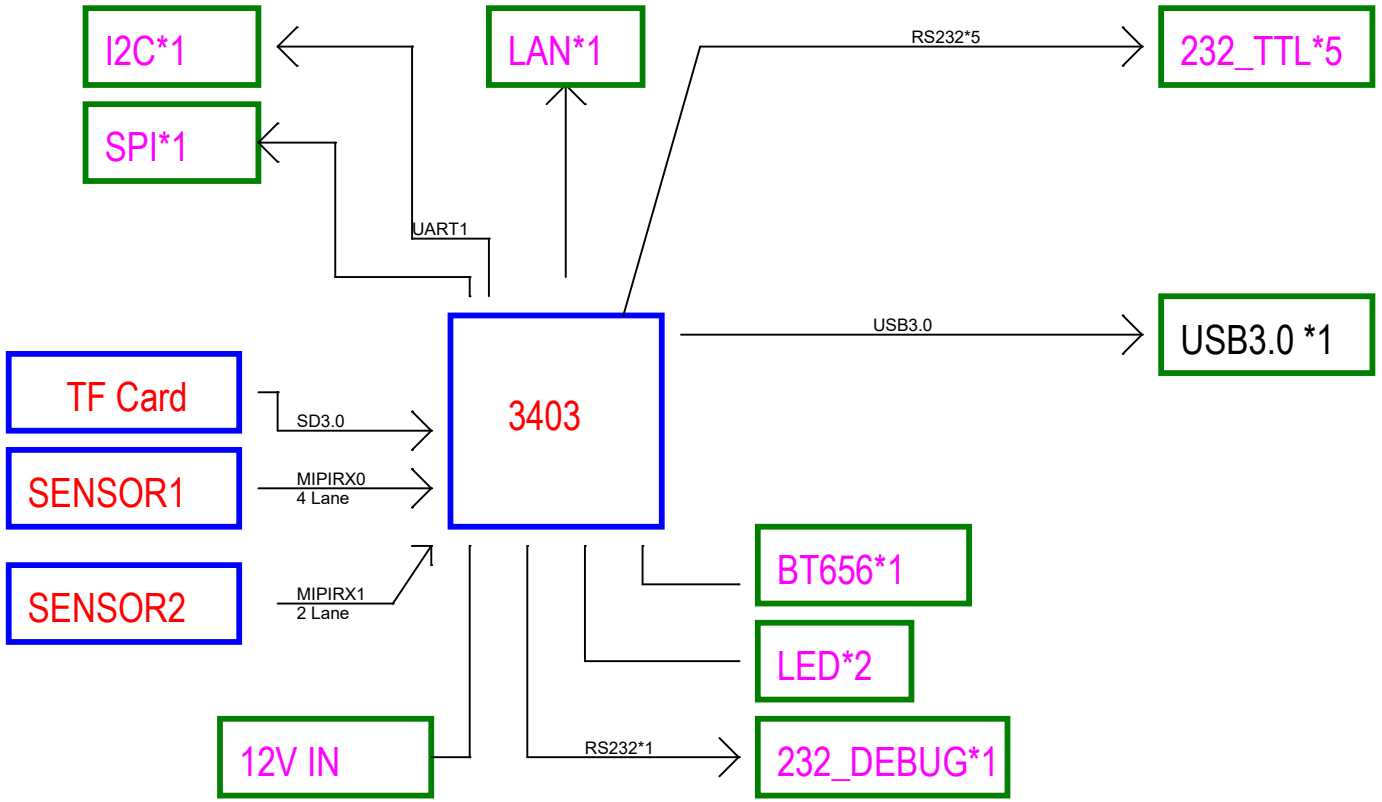

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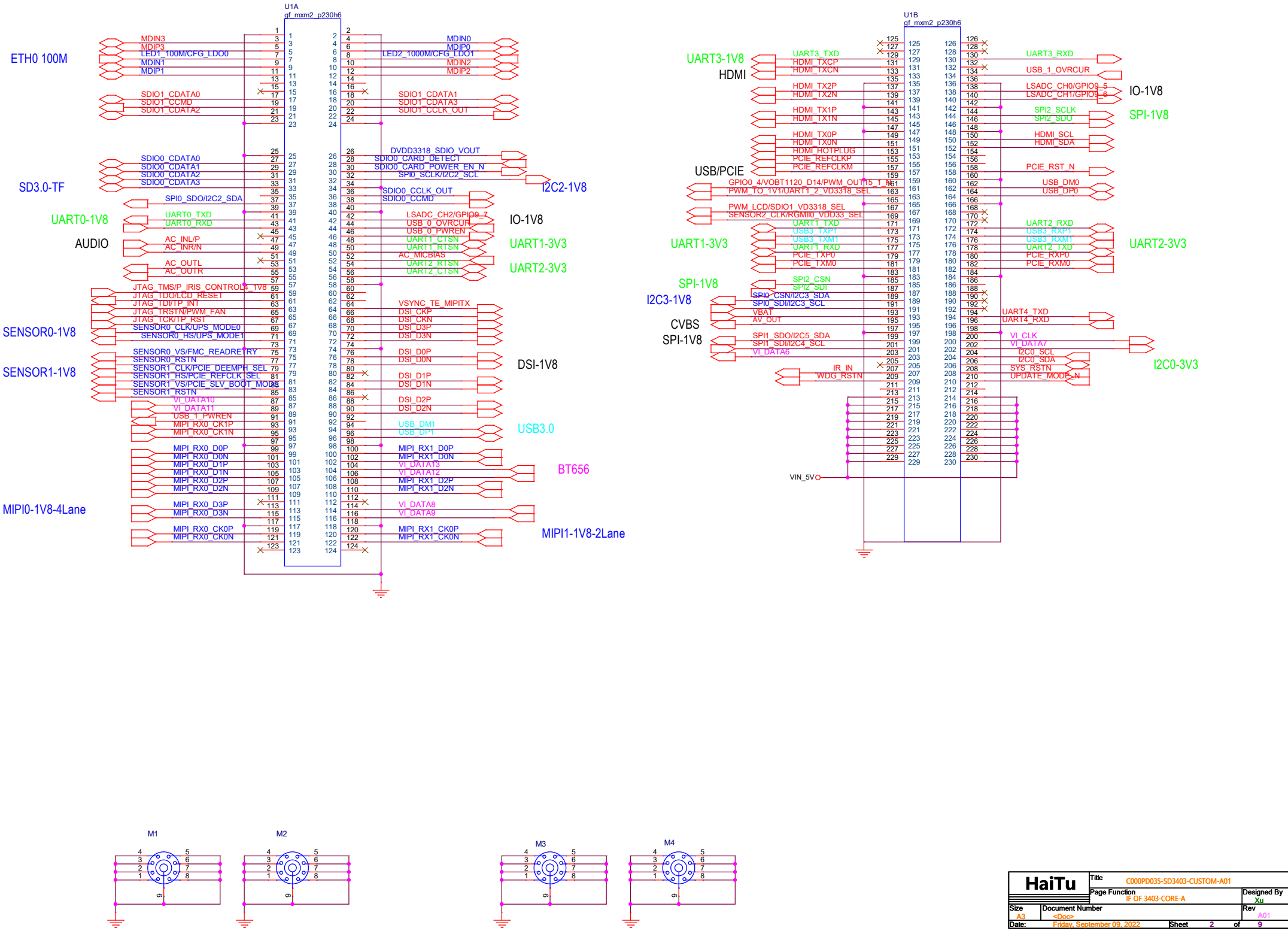

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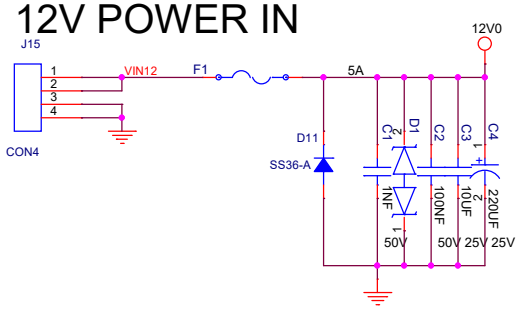
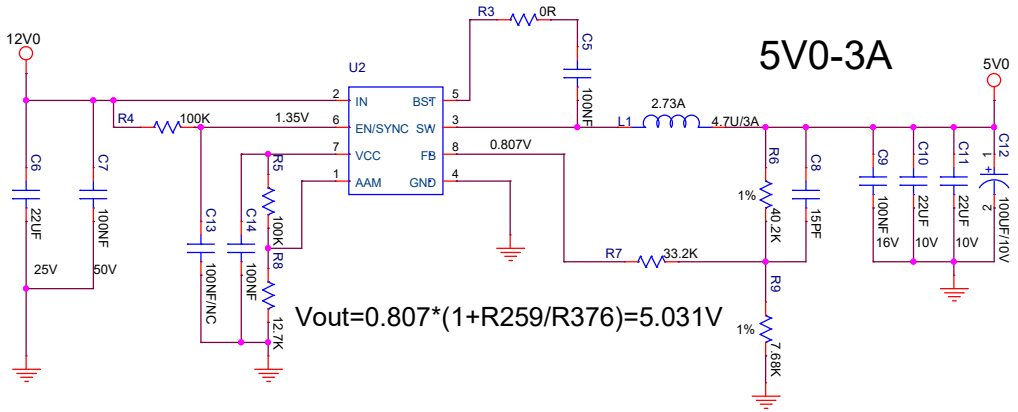
	Page Function	IF OF 3403-CORE-A	Designed By: Xu
	Size: A3	Document Number: <Doc>	Rev: A01
	Date: Friday, September 09, 2022	Sheet 2 of 9	

Power Supply

12V POWER IN

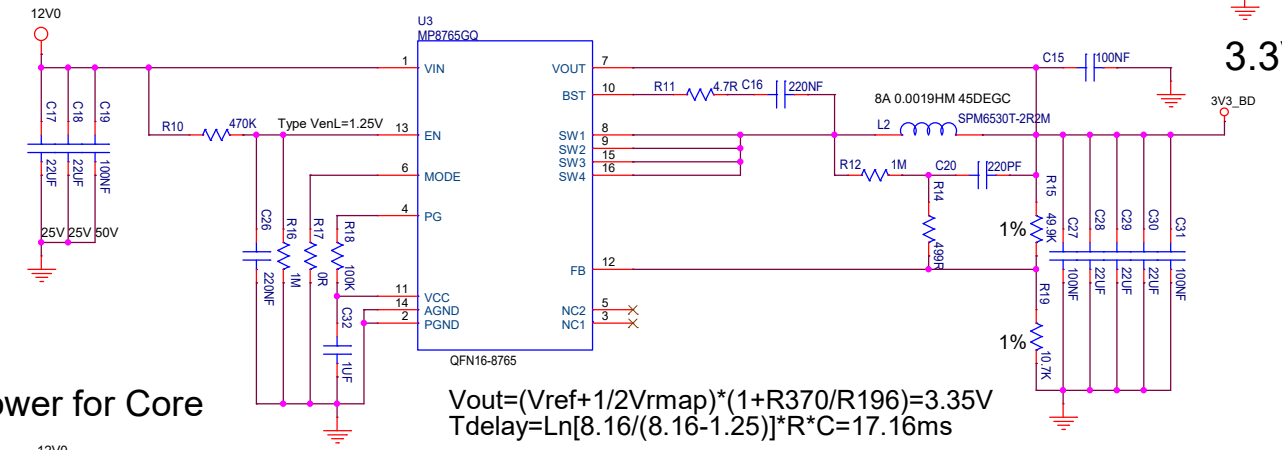


12V --> 5V0

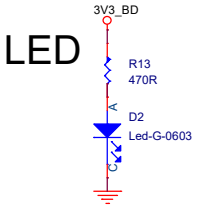


5V0-3A

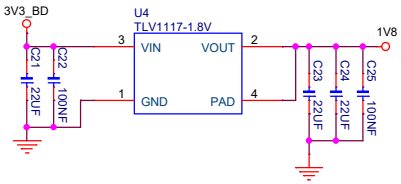
Power for Board



3.3V-4.5A

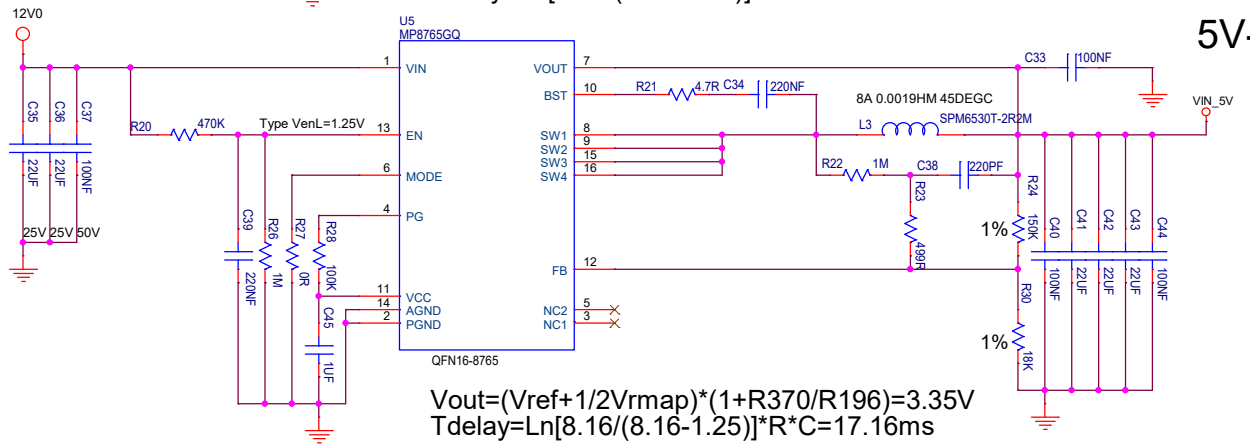


1.8V

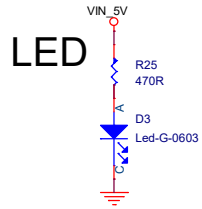


Power for Core

Vout=(Vref+1/2Vrmap)*(1+R370/R196)=3.35V
Tdelay=Ln[8.16/(8.16-1.25)]*R*C=17.16ms



5V-4.5A



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Size: A3	Document Number: <Doc>		Rev: A01
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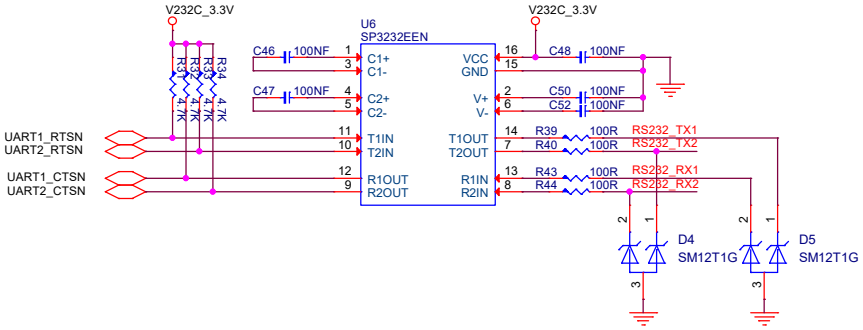
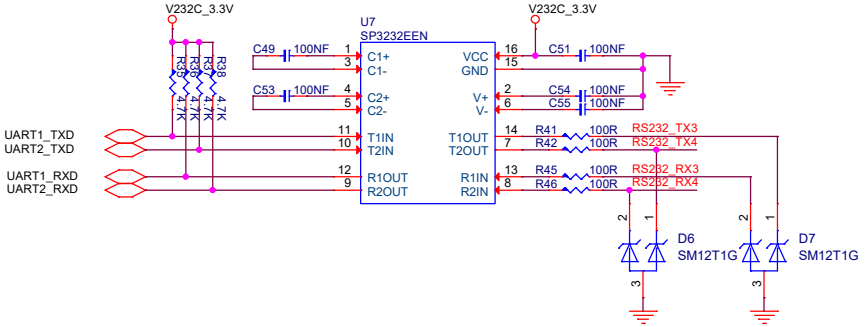
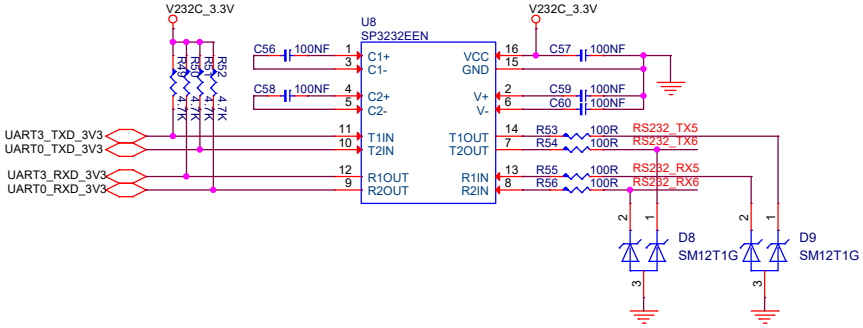
RS232 * 2



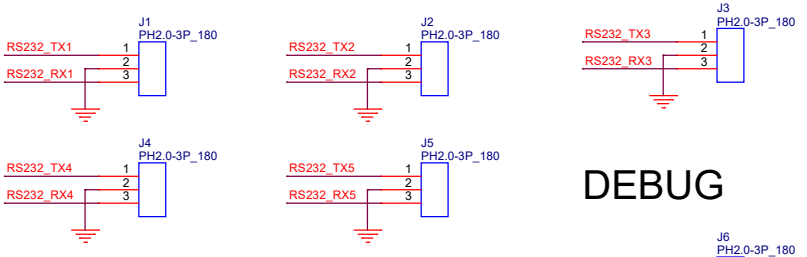
RS232 * 2



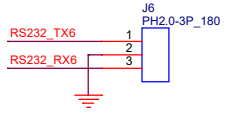
RS232 * 2



RS232 * 6



DEBUG



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	Page Function: MCU POWER CTL & WDG		Designed By: Xu
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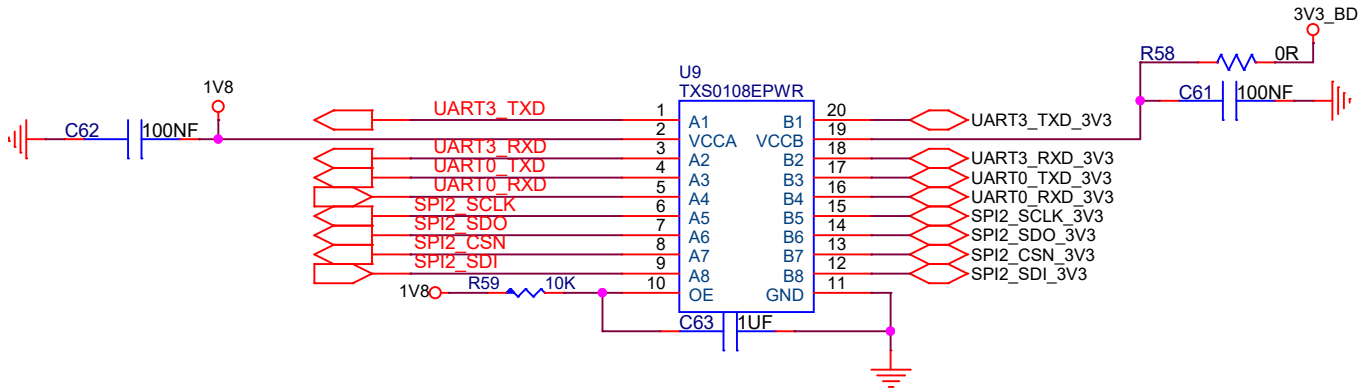
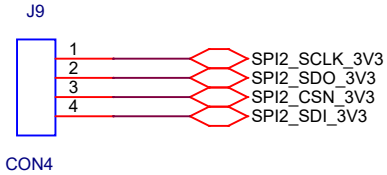
Level Shift

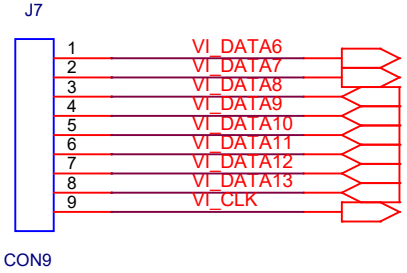


I2C

SPI



BT656



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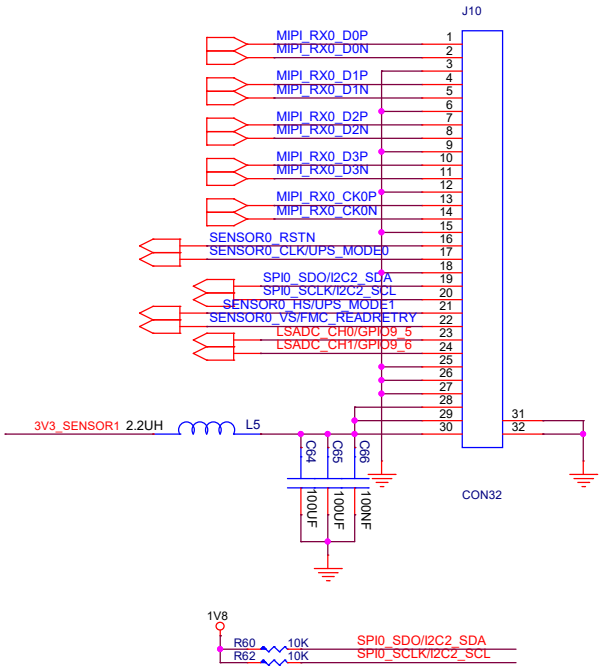
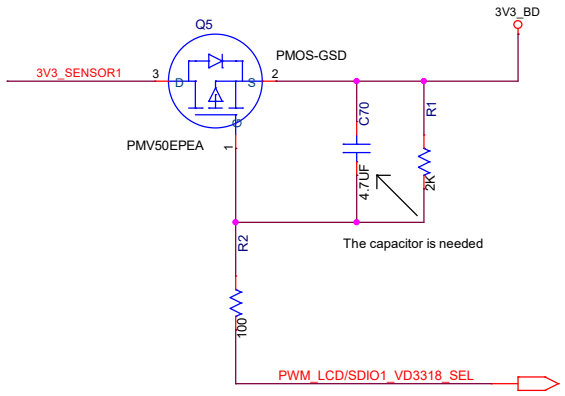
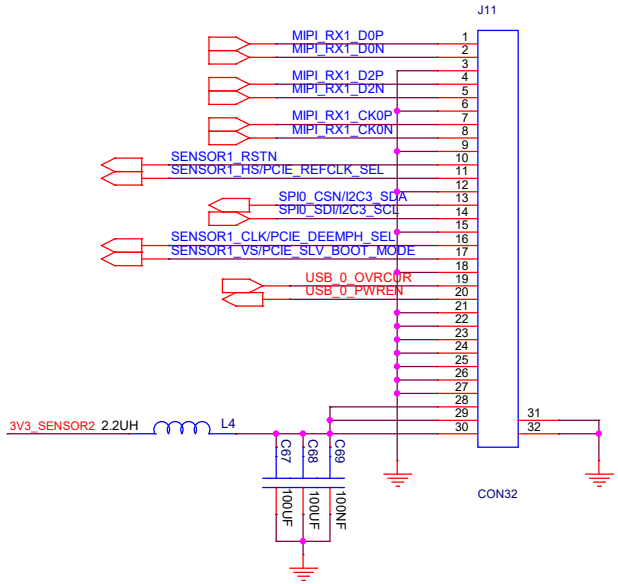
Sensor1-4Lane

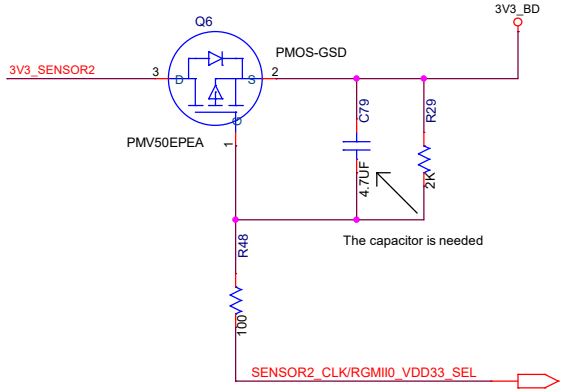




Power_EN = 0: Active

Sensor2-2Lane





Power_EN = 0: Active

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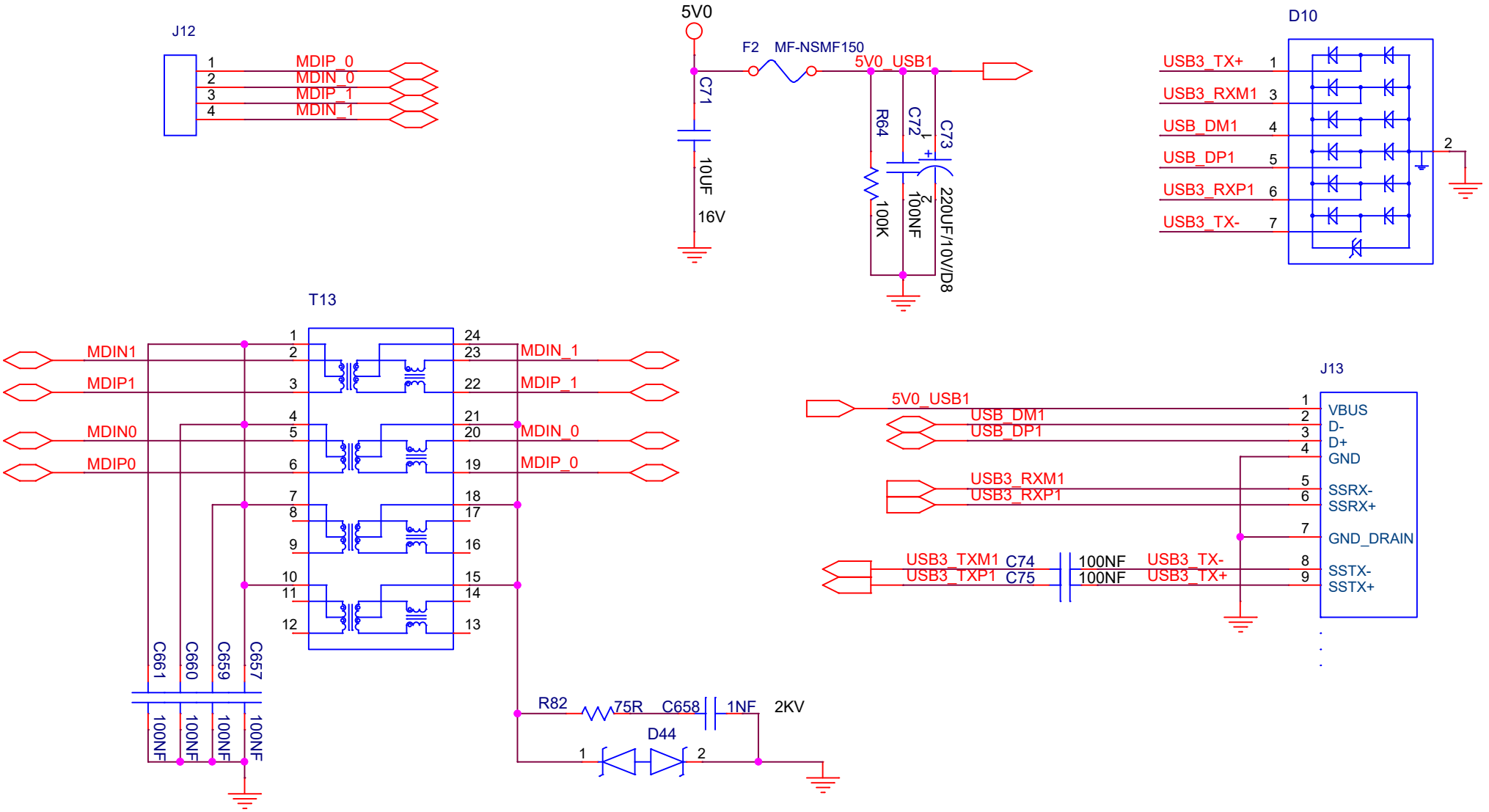
USB3.0

NOTES:

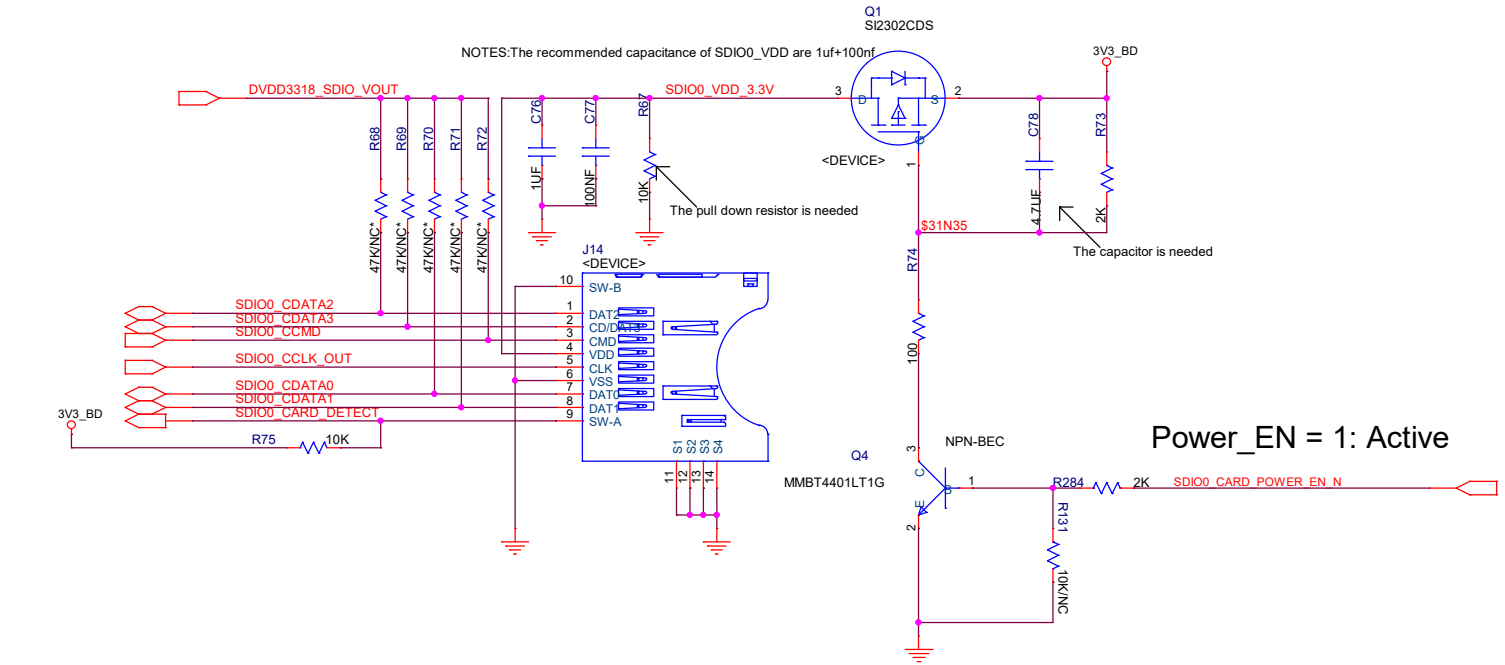
The USB differential trace impedance is 90 OHM.

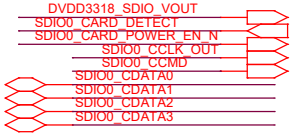
The USB3.0 trace length is less than 10 inch when chip to chip.

ETH0 100M



Micro-SD Card

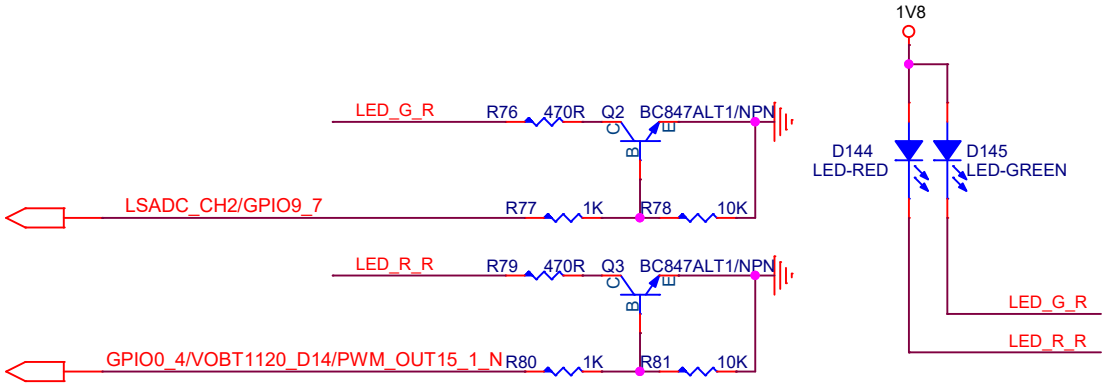




NOTE:

If you use the function of SD card, strongly recommended to use the power switch circuit.

If DVDD3318_UART1_2=1.8V,SDIO0_CARD_POWER_EN_N high level is 1.8V,it is recommended to be connected a level shift that can convert 1.8 V to 3.3 V.


1V8
LED_G_R
R76
470R
Q2
BC847ALT1/NPN
C
B
E
LSADC_CH2/GPIO9_7
R77
1K
R78
10K
LED_R_R
R79
470R
Q3
BC847ALT1/NPN
C
B
E
GPIO0_4/VOBT1120_D14/PWM_OUT15_1_N
R80
1K
R81
10K
D144
LED-RED
D145
LED-GREEN
LED_G_R
LED_R_R