

A

A

B

C

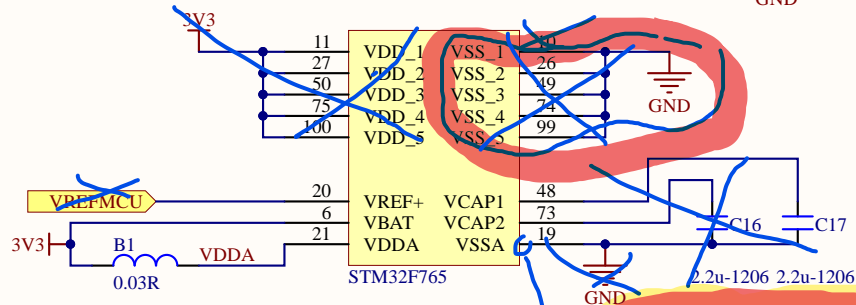
D

U1

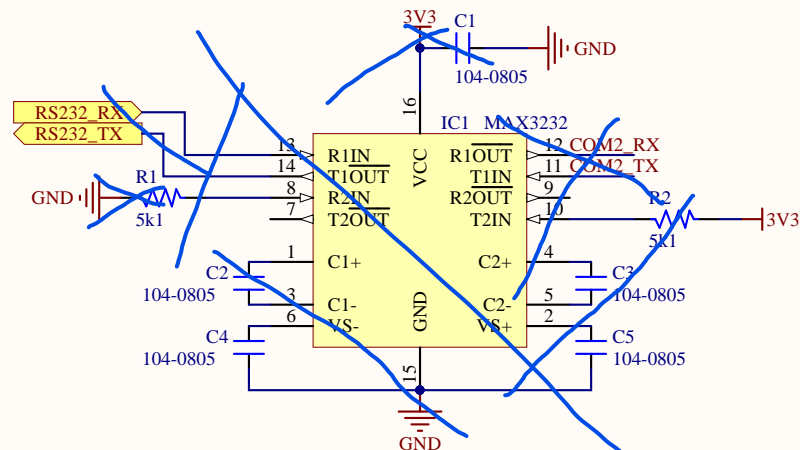
ADCx_IN0	22	PA0	PD0	81
ADCx_IN1	23	PA1	PD1	82
ADCx_IN2	24	PA2	PD2	83
ADCx_IN3	25	PA3	PD3	84
ADCx_IN4	28	PA4	PD4	85
ADCx_IN5	29	PA5	PD5	86
ADCx_IN6	30	PA6	PD6	87
ADCx_IN7	31	PA7	PD7	88
	67	PA8	PD8	55
	68	PA9	PD9	56
	69	PA10	PD10	57
DQ0	70	PA11	PD11	58
DQ1	71	PA12	PD12	59
DBG_SWDIO	72	PA13	PD13	60
DBG_SWCLK	76	PA14	PD14	61
	77	PA15	PD15	62

ADCx_IN8	34	PB0	PE0	97
ADCx_IN9	35	PB1	PE1	98
BOOT1	36	PB2	PE2	1
	89	PB3	PE3	2
Enc_A	90	PB4	PE4	3
Enc_B	91	PB5	PE5	4
DI0	92	PB6	PE6	5
DI1	93	PB7	PE7	37
COM1_RX	95	PB8	PE8	38
COM1_TX	96	PB9	PE9	39
	46	PB10	PE10	40
	47	PB11	PE11	41
	51	PB12	PE12	42
	52	PB13	PE13	43
	53	PB14	PE14	44
	54	PB15	PE15	45

ADCx_IN10	15	PC0	PH0	12
ADCx_IN11	16	PC1	PH1	13
ADCx_IN12	17	PC2		
ADCx_IN13	18	PC3	PC14	8
ADCx_IN14	32	PC4	PC15	9
ADCx_IN15	33	PC5		
	63	PC6		
	64	PC7	NRST	14
	65	PC8		
	66	PC9	BOOT0	94
COM2_TX	78	PC10		
COM2_RX	79	PC11		
	80	PC12		
	7	PC13		



hên qua C16, C17



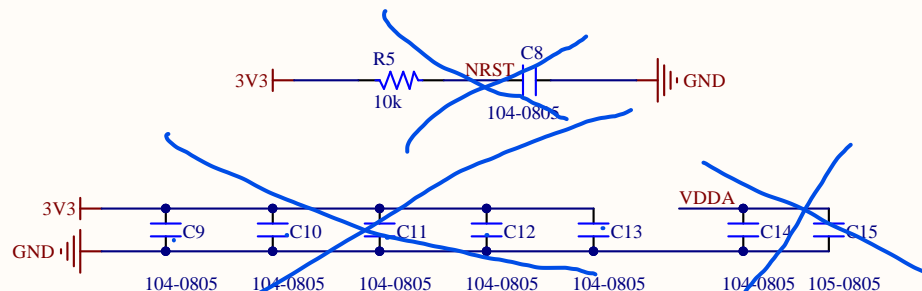
### ADC Pin Map

AI0	ADCx_IN9
AI1	ADCx_IN8
AI2	ADCx_IN15
AI3	ADCx_IN14
AI4	ADCx_IN10
AI5	ADCx_IN11
AI6	ADCx_IN12
AI7	ADCx_IN13

AI8	ADCx_IN7
AI9	ADCx_IN6
AI10	ADCx_IN5
AI11	ADCx_IN4
AI12	ADCx_IN3
AI13	ADCx_IN2
AI14	ADCx_IN1
AI15	ADCx_IN0

Note 1: ADC3 chỉ có các kênh 0->3 và 10->13

Note 2: Khi sử dụng DAC, không sử dụng các kênh ADC ứng với ADCx\_IN4 và ADCx\_IN5



Title

MACH THU THAP DU LIEU - MCU

Size

Number

Revision

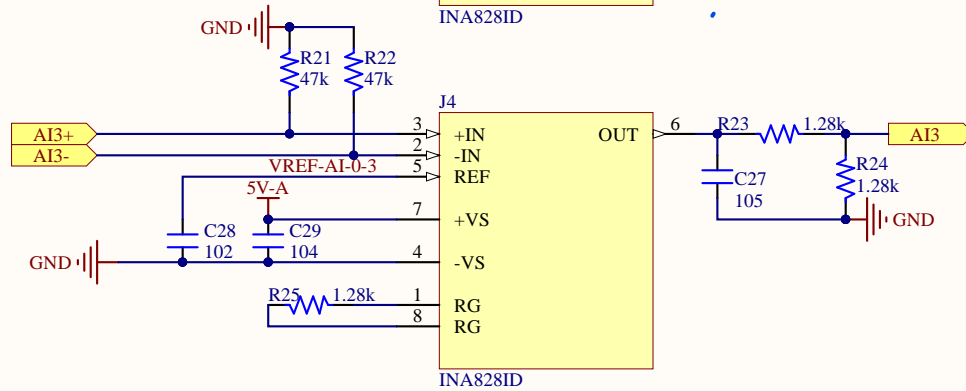
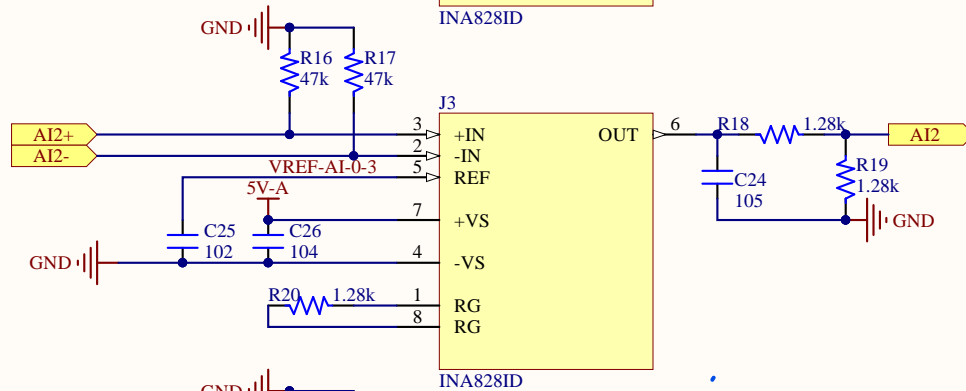
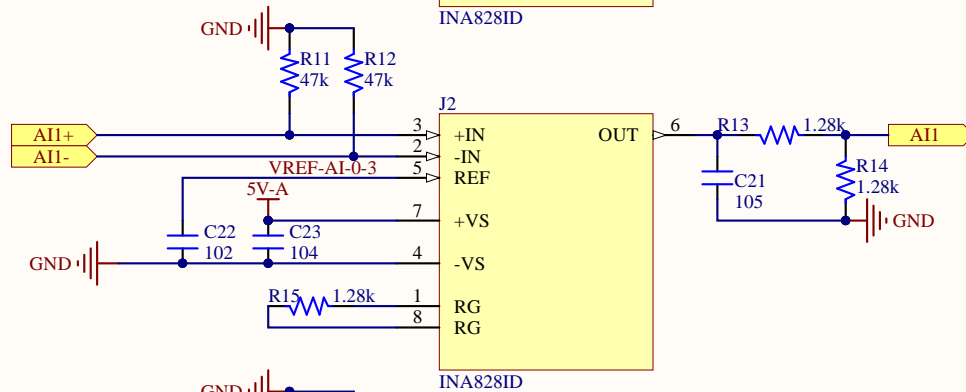
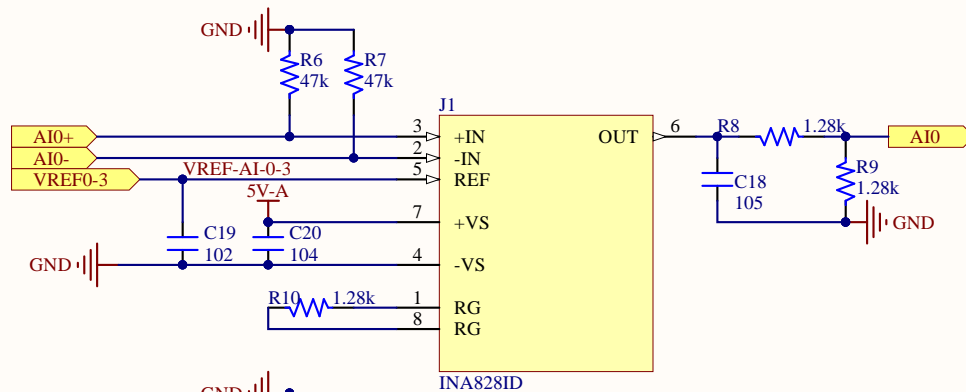
3

Date: 14/01/2021

Sheet 1 of 8

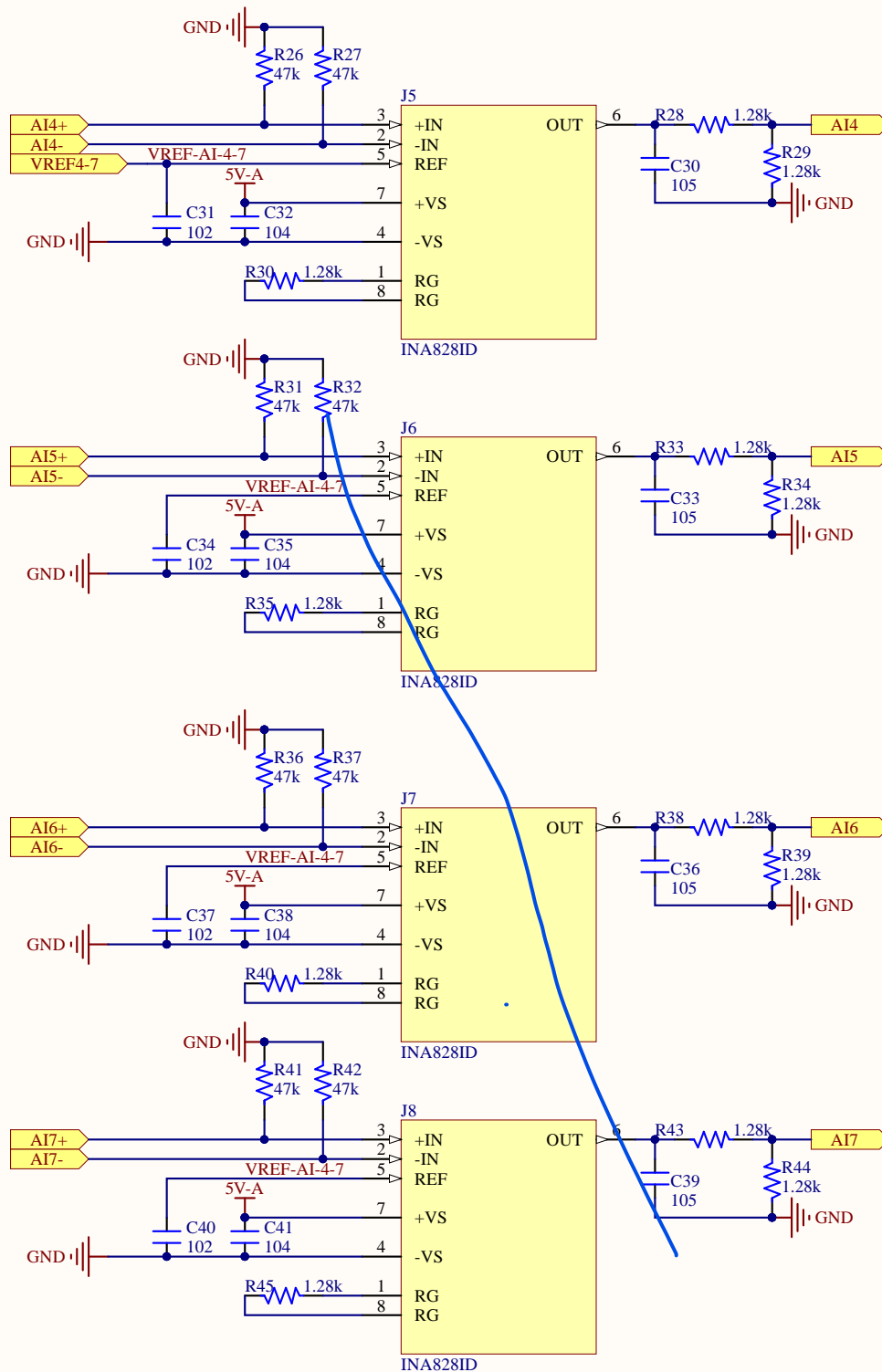
File: D:\Microcontroller project\Sheet1 MCU.Dwg

Drawn By: Tran Quoc Tien Dung

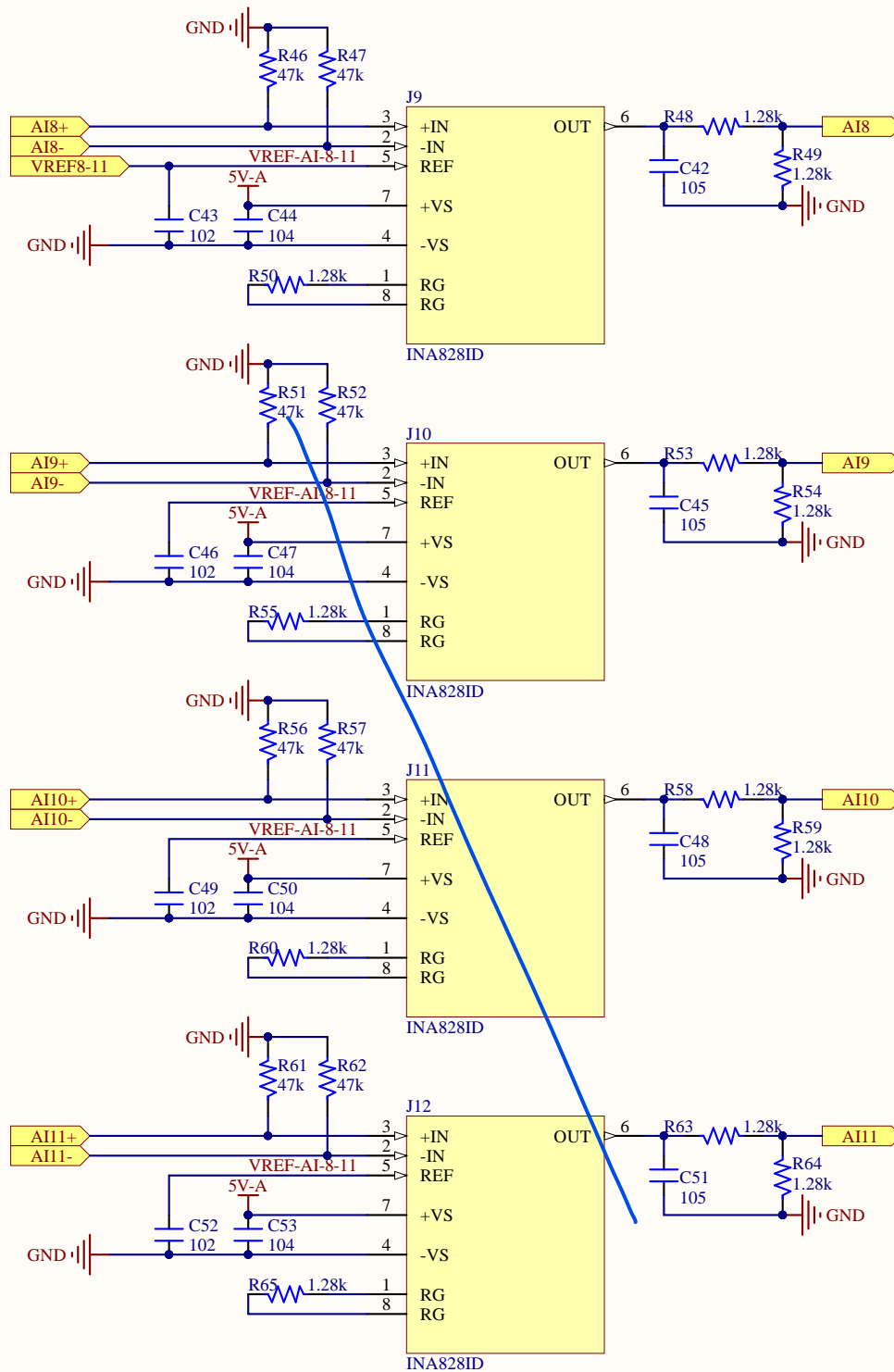


ADC là ADS 7953 - vqfn32

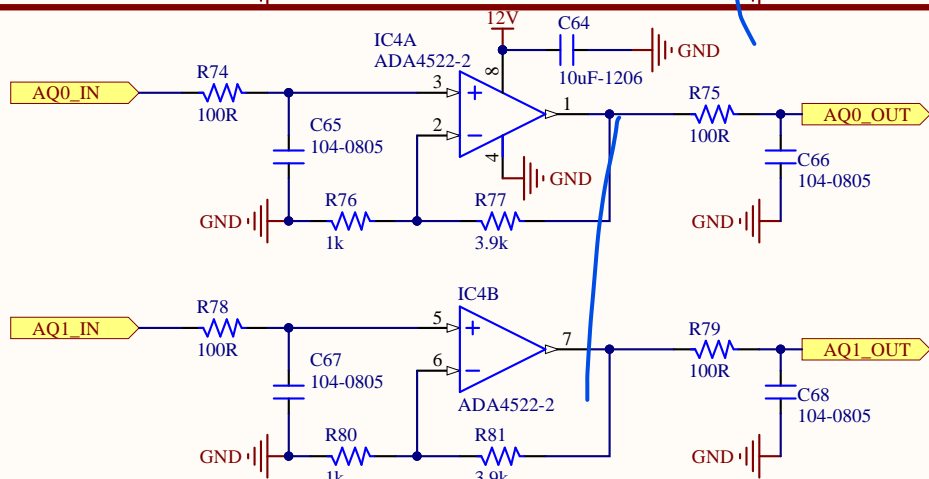
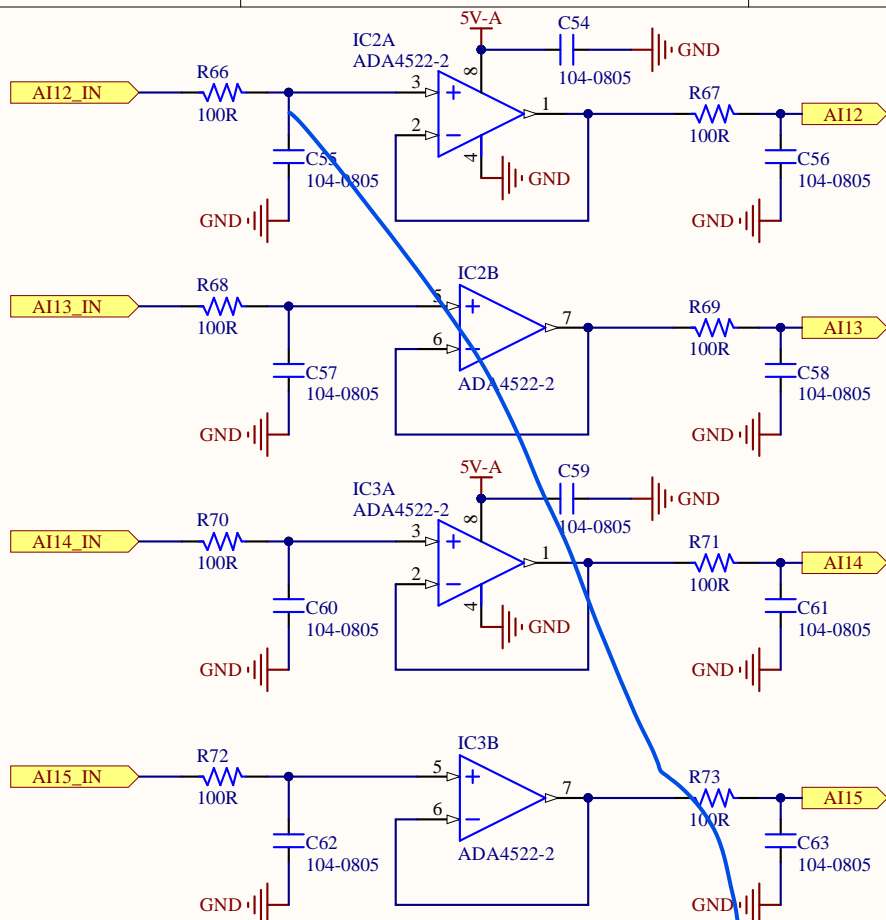
Title			MACH THU THAP DU LIEU - AI Diff 0-3		
Size	Number		Revision		3
A					
Date:	14/01/2021		Sheet	2	of 8
File:	D:\Microcontroller project\Sheet2_AI Diff v3.doc Tran Quoc Tien Dung				



Title			MACH THU THAP DU LIEU - AI Diff 4-7		
Size	Number			Revision	
A				3	
Date:	14/01/2021			Sheet 3 of 8	
File:	D:\Microcontroller project\...\Sheet3_AI Diff 4-7.Doc Tran Quoc Tien Dung				



Title					<b>MACH THU THAP DU LIEU - AI Diff 8-11</b>										
Size		Number				Revision									
A						3									
Date:		14/01/2021			Sheet		4		of		8				
File:		D:\Microcontroller project\...\Sheet4_AI Diff 8-11.Dwg										Bsh Doc		Tran Quoc Tien Dung	

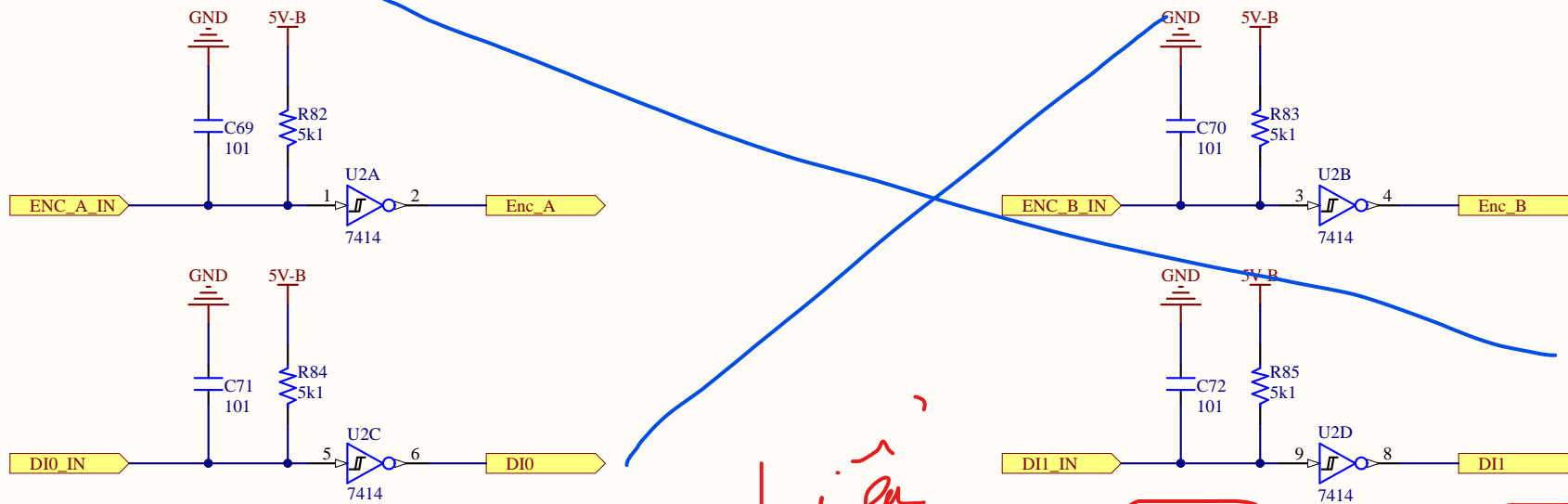


Note: Không sử dụng 2 ngoài vì nay nếu sử dụng ADC (tham khảo Sheet MCU)

8 60  
+ 150R

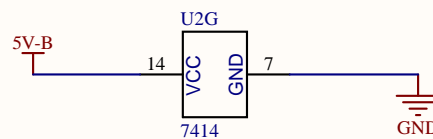
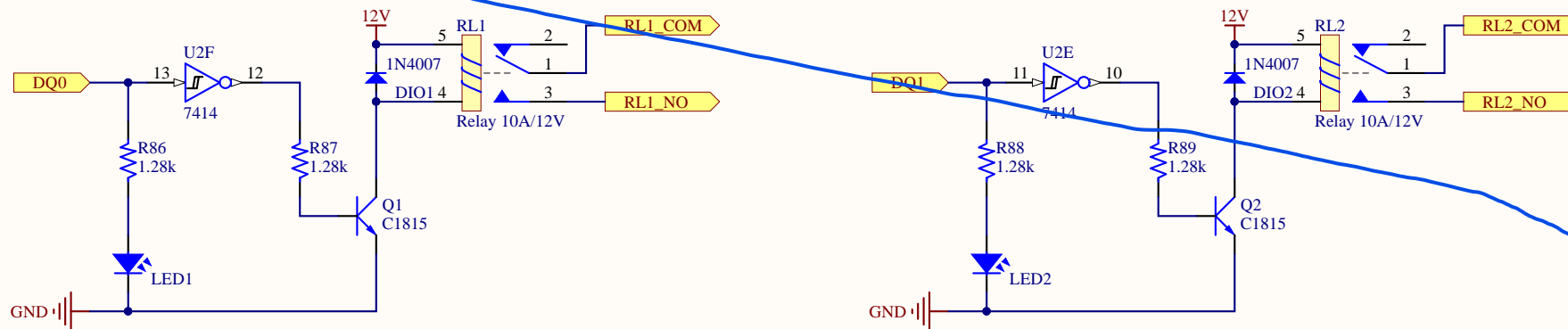
Title		
MACH THU THAP DU LIEU - AI 12-15 - AQ		
Size	Number	Revision
A		3
Date:	14/01/2021	Sheet 5 of 8
File:	D:\Microcontroller project\Sheet5_AI 12-15-AQ	Drawn by: Sch6 can Quoc Tien Dung

## ENCODER + DIGITAL INPUT

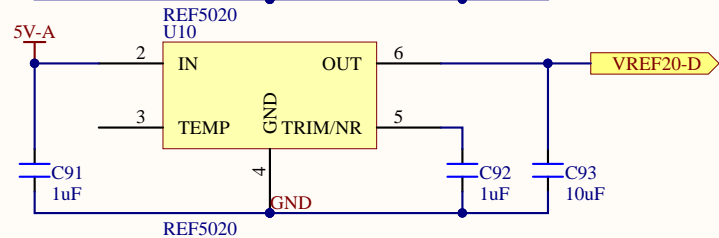
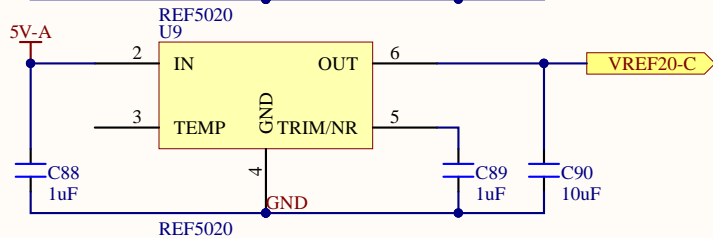
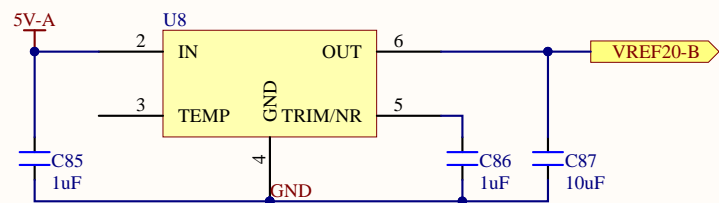
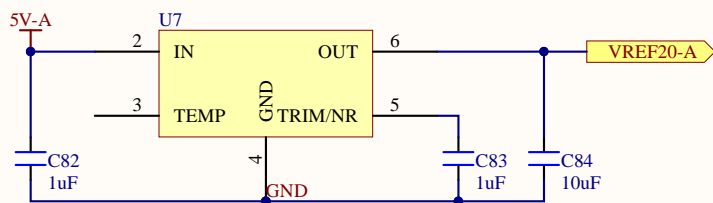
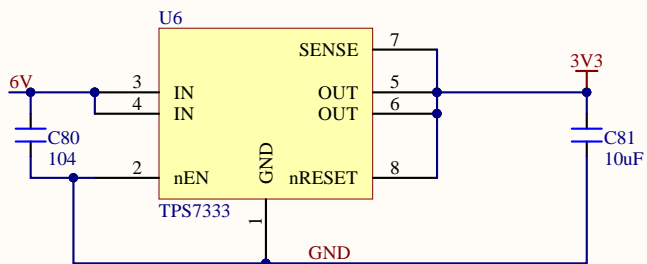
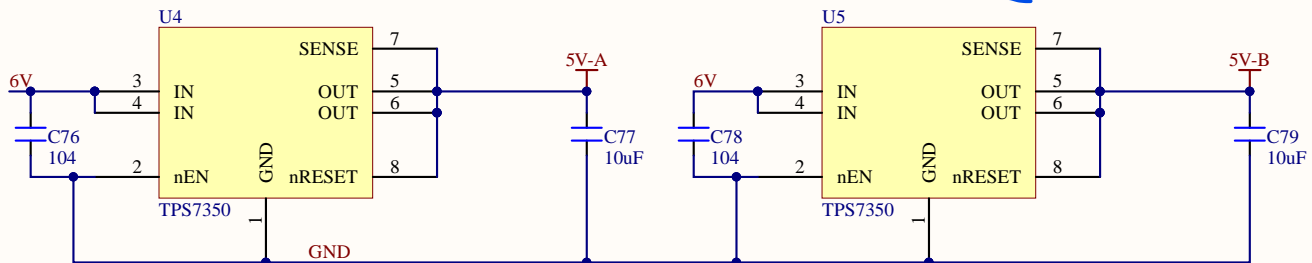
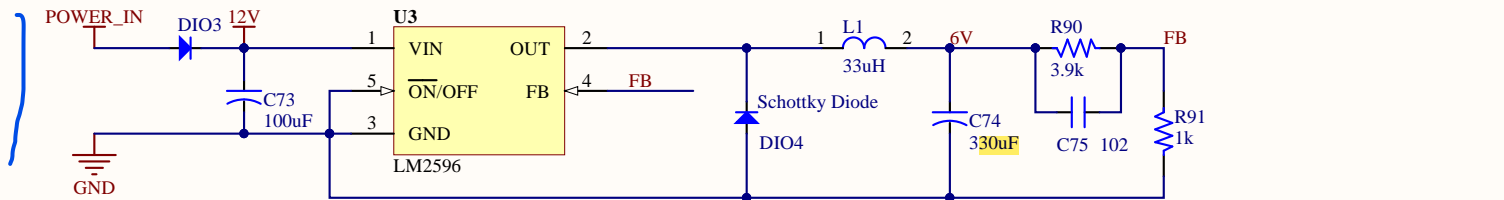


Note: Nếu Encoder không sử dụng điện trở kéo lên thì không cần hạn vào

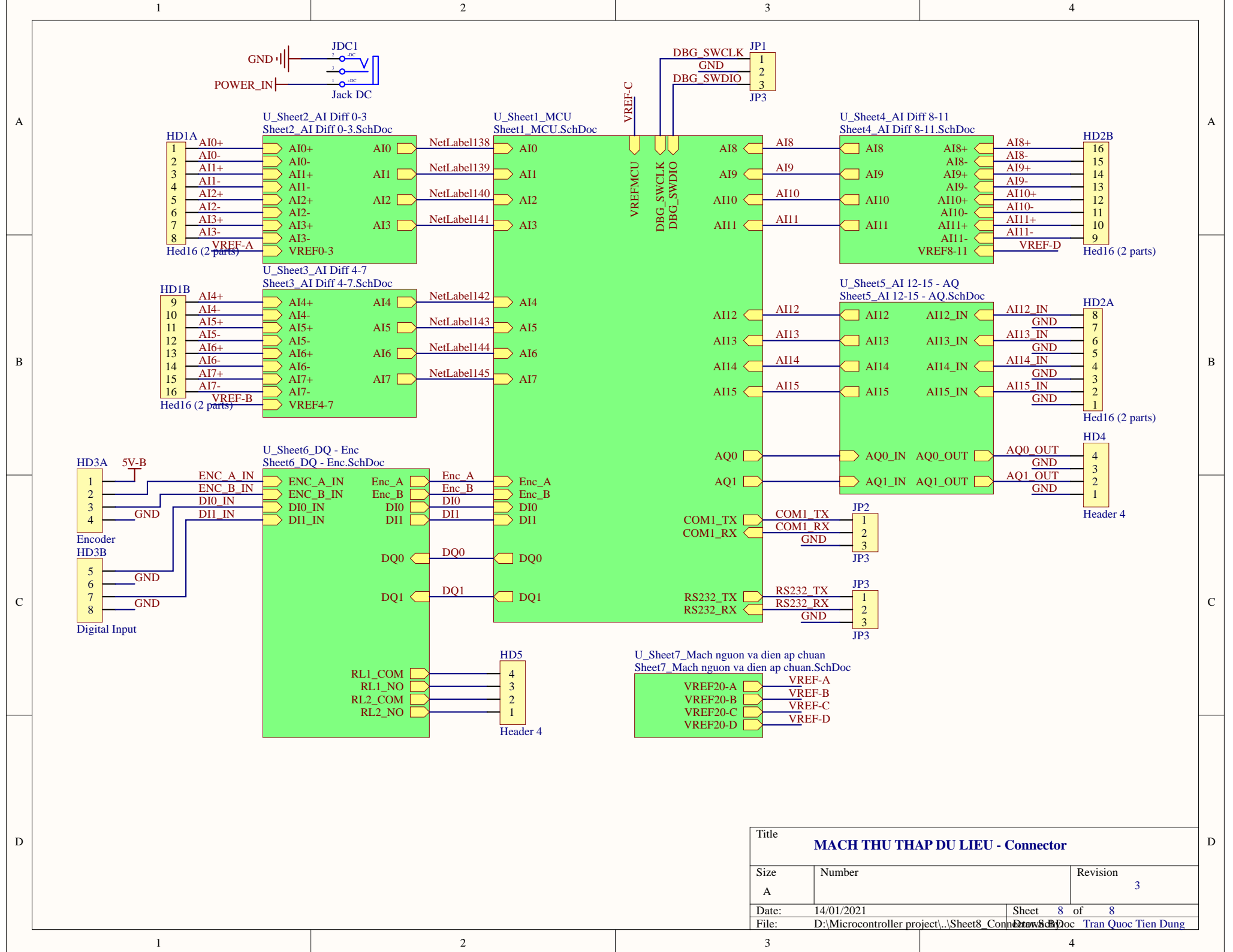
## DIGITAL OUTPUT



Title		
MACH THU THAP DU LIEU - ENCODER + DI +DQ		
Size	Number	Revision
A		3
Date:	14/01/2021	Sheet 6 of 8
File:	D:\Microcontroller project\Sheet6_DQ - Drawn by	Tran Quoc Tien Dung



Title		
MACH THU THAP DU LIEU - Mach nguồn + Dien ap chuan		
Size	Number	Revision
A		3
Date:	14/01/2021	Sheet 7 of 8
File:	D:\Microcontroller project\...Sheet7_MachNguonBx dien Tap Quan S chieu Dung	



Title		
MACH THU THAP DU LIEU - Connector		
Size	Number	Revision
A		3
Date:	14/01/2021	Sheet 8 of 8
File:	D:\Microcontroller project\...\Sheet8_Connectors.SchDoc Tran Quoc Tien Dung	



