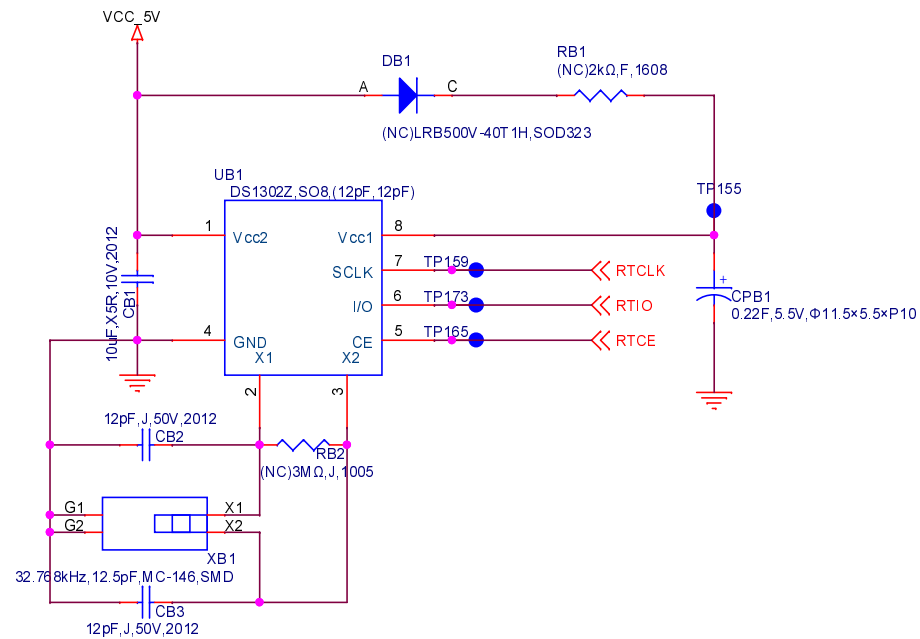


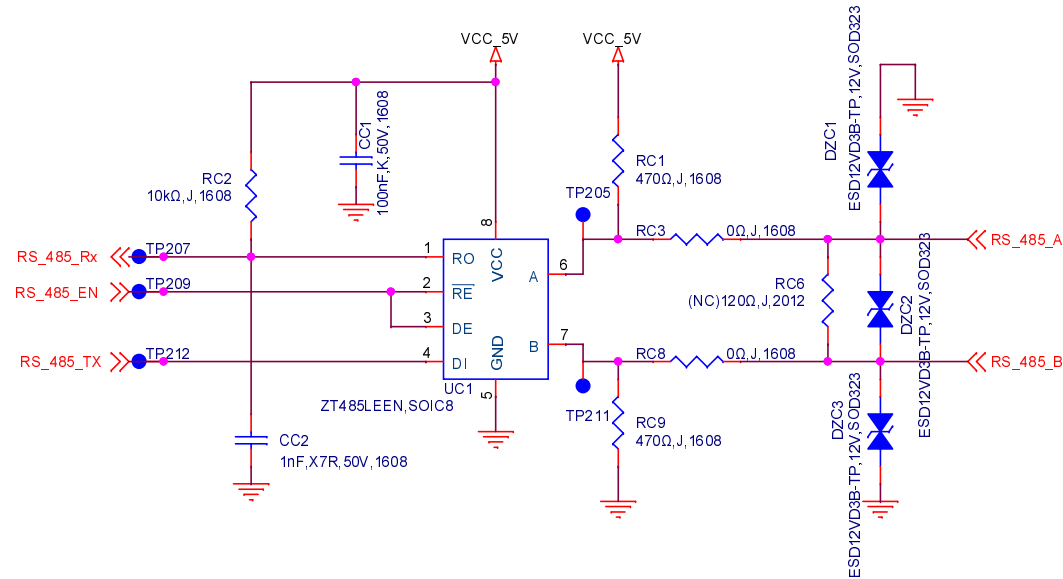
표준회로 도번	변경이력				KD	Title EDC300 Main		Draw Ki Nam Kim	
						PBA Part Number <Variant Name>		Review Yong Su Kim	
						Page Name O REMARK		Approval Dong Min Kim	
						Size A4	Doc Number <Doc>	Rev P09	
						Date : Monday, January 17, 2022		Sheet: 1 of 21	

[B.RTC]



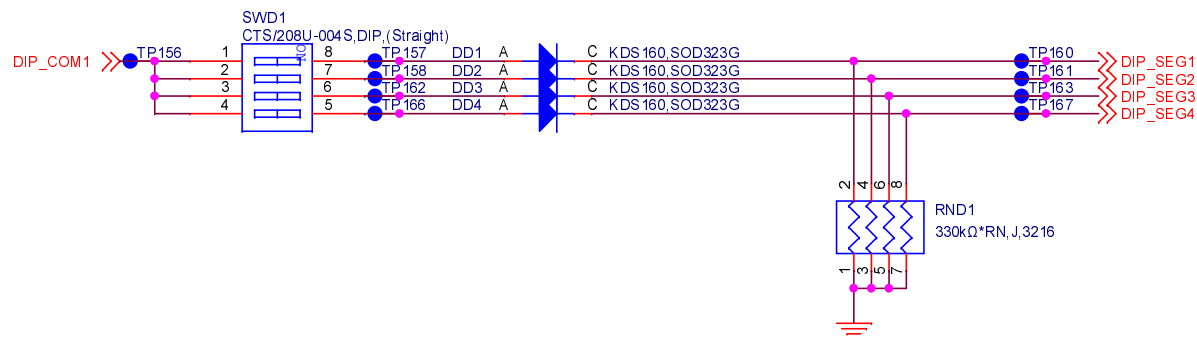
표준화로 도번	기존 양산 도면	변경이력	P00 20.11.02	회로 분리 적용		Title EDC300 Main			Draw Ki Nam Kim	
INPUT 사양	RTCLK, RTIO, RTCE, VCC_5V					PBA Part Number <Variant Name>			Review Yong Su Kim	
OUTPUT 사양						Page Name B_RTC			Approval Dong Min Kim	
						Size A4	Doc Number <Doc>	Rev P09		
						Date : Thursday, November 04, 2021				Sheet: 3 of 21

[C.NAVILINK]



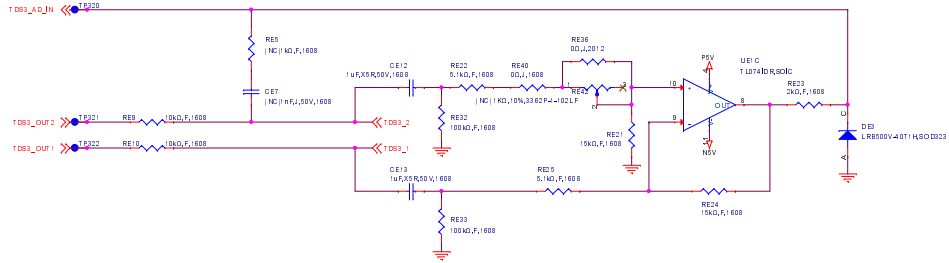
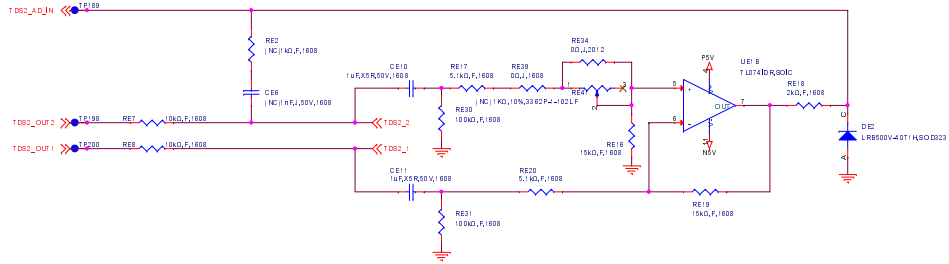
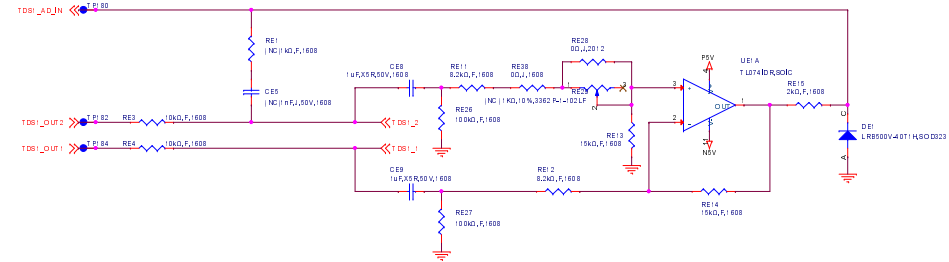
표준화로 도번	기존 양산 도면	변경이력	P00 20.11.02	회로 분리 적용		Title EDC300 Main			Draw Ki Nam Kim
INPUT 사양	RS_485_Rx					PBA Part Number <Variant Name>			Review Yong Su Kim
OUTPUT 사양	RS_485_A, RS_485_B, RS_485_EN, RS_485_TX					Page Name C.NAVILINK			Approval Dong Min Kim
						Size A4 Doc Number <Doc> Rev P09			
Date : Thursday, November 04, 2021							Sheet: 4 of 21		

[D.DIP SW]

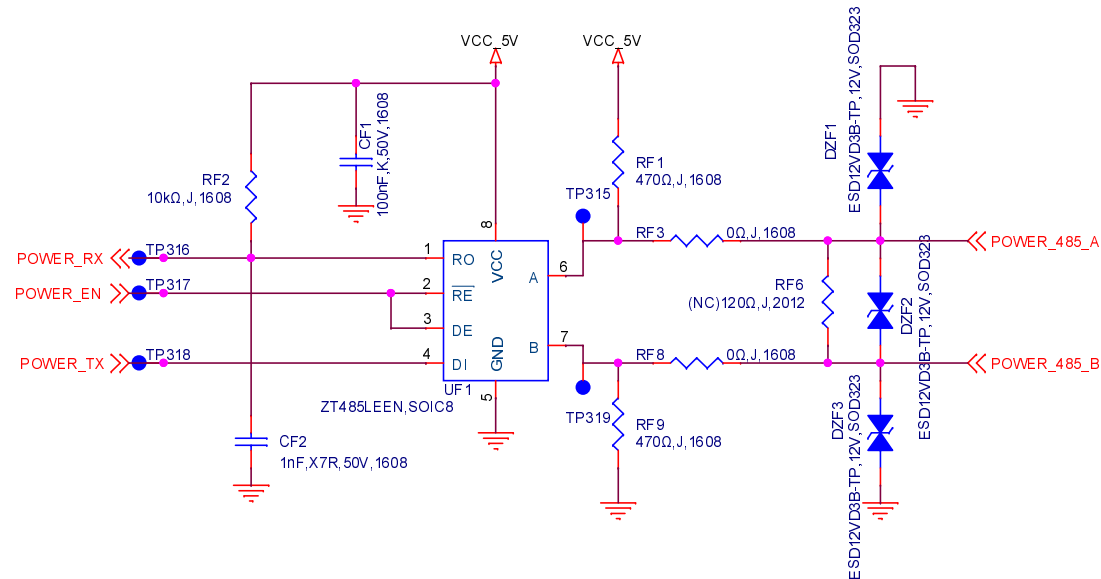


표준화로 도번	기존 양산 도면	표준이력	P00 20.11.02	회로 분리 적용		Title EDC300 Main			Draw Ki Nam Kim
INPUT 사양	DIP_COM1					PBA Part Number <Variant Name>			Review Yong Su Kim
OUTPUT 사양	DIP_SEG1,DIP_SEG2,DIP_SEG3,DIP_SEG4					Page Name D_DIP SW		Size A4	Doc Number <Doc>
Date : Thursday, November 04, 2021						Sheet: 5		of 21	

[E.TDS]

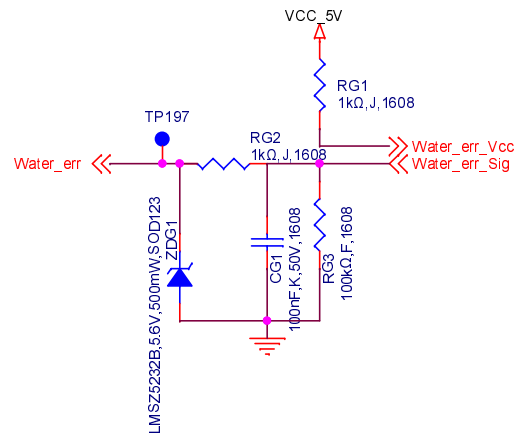
[illegible]

[F.POWER CONTROL]



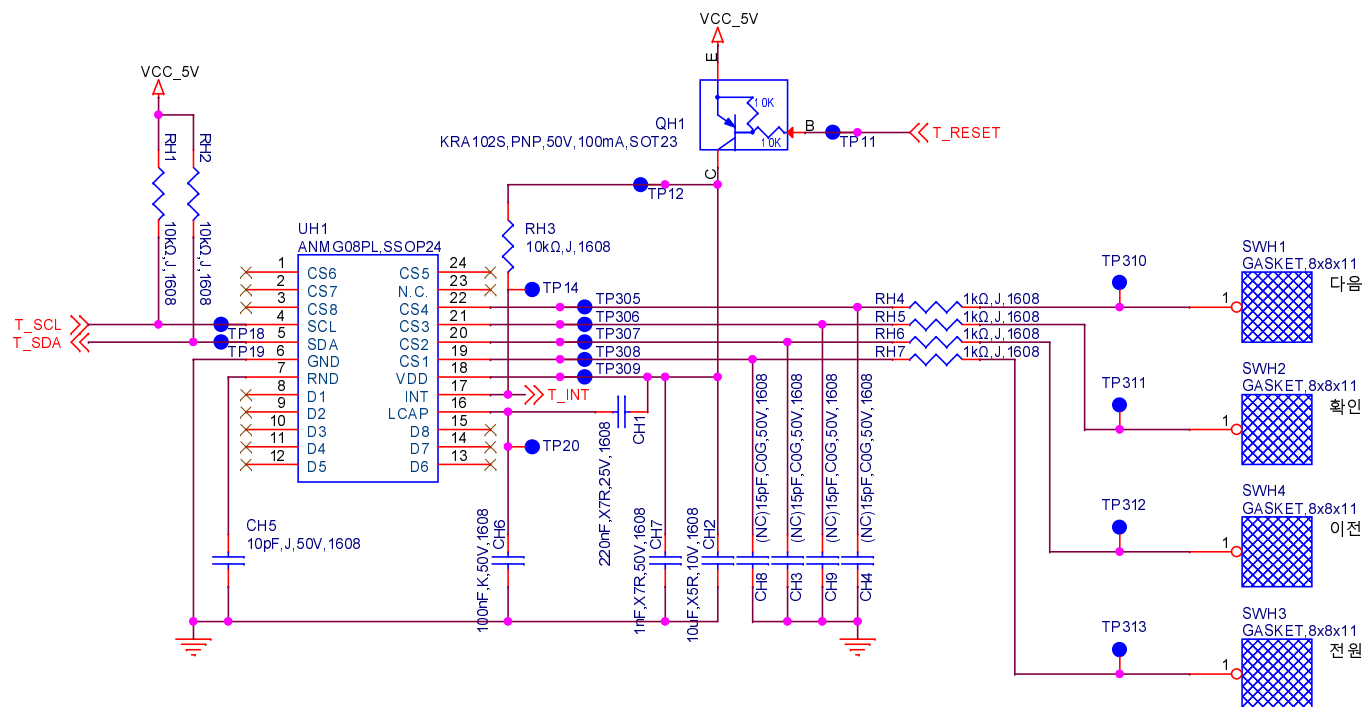
표준화로 도번	기존 양산 도면	변경이력	P00 20.11.02	회로 분리 적용		Title EDC300 Main			Draw Ki Nam Kim	
INPUT 사양	FB_FAN1,FB_FAN2,FAN1,FAN2					PBA Part Number <Variant Name>			Review Yong Su Kim	
OUTPUT 사양	FAN1_S1G,FAN2_S1G,FAN1_FB,FAN2_FB					Page Name F. POWER CONTROL			Approval Dong Min Kim	
						Size A4	Doc Number <Doc>	Rev P09		
						Date: Thursday November 04 2021				Sheet: 7 of 21

[G.WATER ERROR DETECTION]



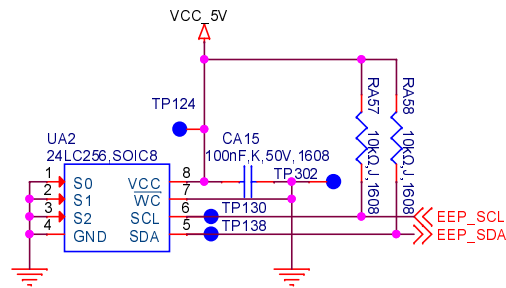
표준화로 도번	기존 양산 도면	변경이력	P00 20.11.02	회로 분리 적용		Title EDC300 Main			Draw Ki Nam Kim
INPUT 사양	Water_err_Sig					PBA Part Number <Variant Name>			Review Yong Su Kim
OUTPUT 사양	Water_err, Water_err_Vcc					Page Name G. WATER ERROR DETECTION			Approval Dong Min Kim
						Size A4	Doc Number <Doc>	Rev P09	
						Date : Thursday, November 04, 2021 Sheet: 8 of 21			

[H.TOUCH]



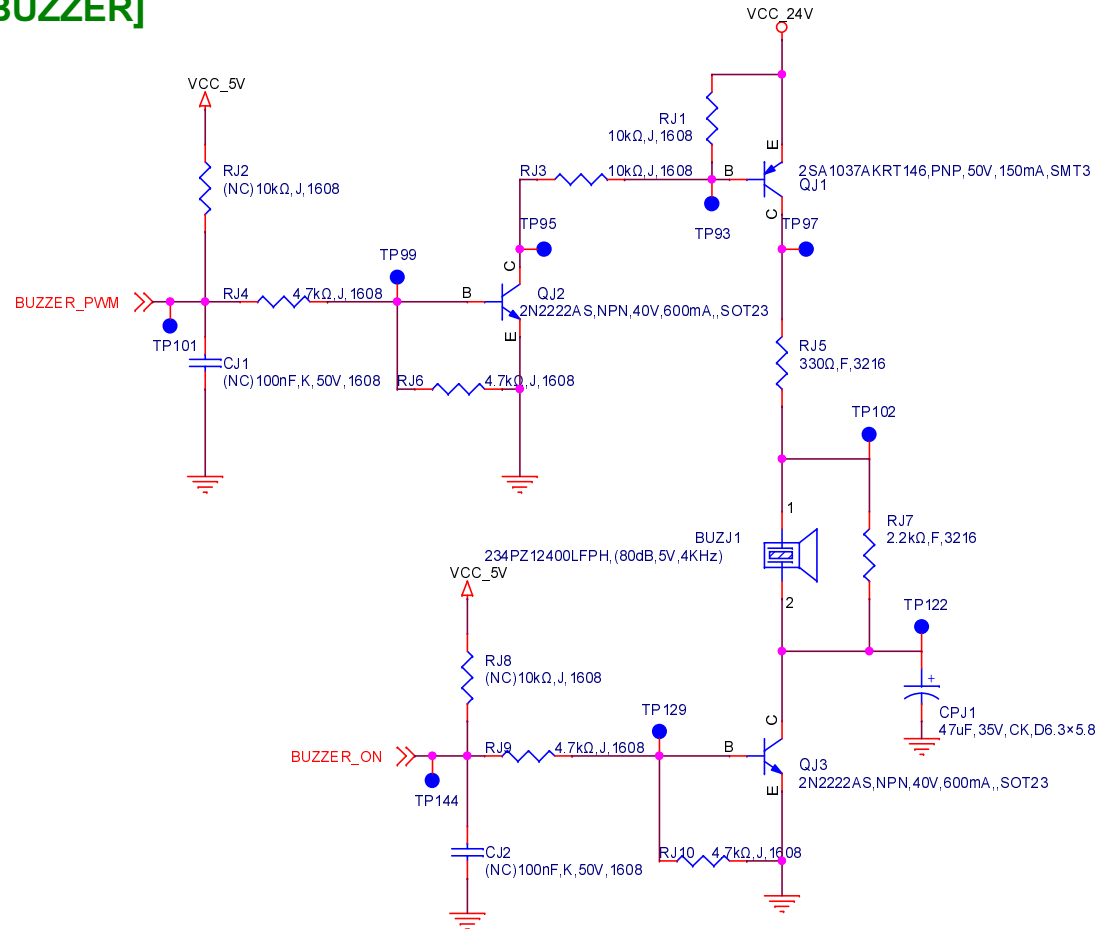
표준화로 도번	기존 양산 도면	변경 이력	P00 20.11.02	회로 분리 적용		Title EDC300 Main			Draw Ki Nam Kim
INPUT 사양	T_SCL, T_RESET, 터치(다음, 확인, 이전, 전원)					PBA Part Number <Variant Name>			Review Yong Su Kim
OUTPUT 사양	T_SDA, T_INT					Page Name H. TOUCH			Approval Dong Min Kim
						Size A4	Doc Number <Doc>	Rev P09	
Date : Thursday, November 04, 2021						Sheet: 9 of 21			

[I.EEPROM]



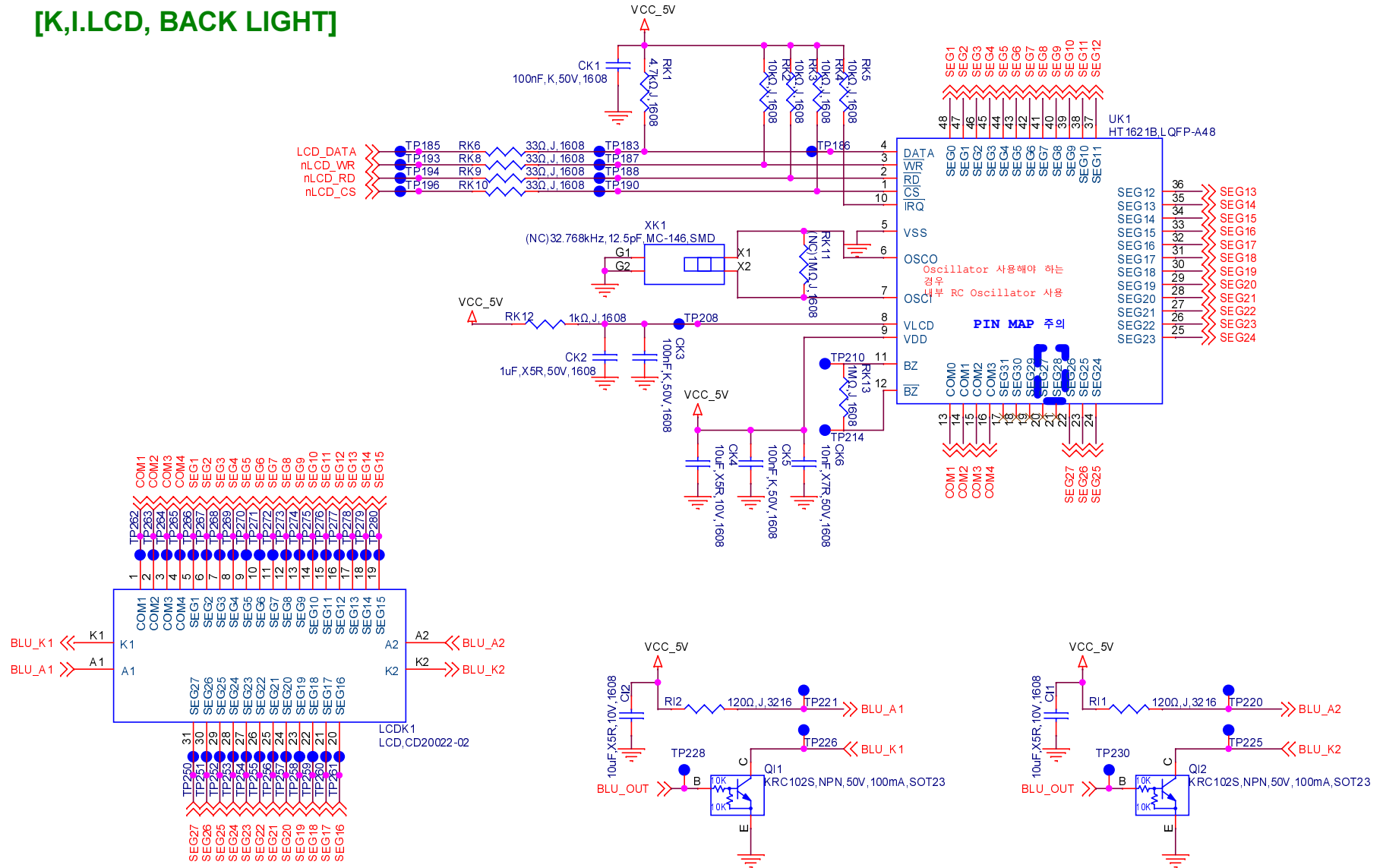
표준화로 도번	기존 양산 도면	변경이력	P00 20.11.02	회로 분리 적용		Title EDC300 Main			Draw Ki Nam Kim
INPUT 사양	5V					PBA Part Number <Variant Name>			Review Yong Su Kim
OUTPUT 사양	EEP_SCL, EEP_SDA					Page Name I EEPROM			Approval Dong Min Kim
						Size A4	Doc Number <Doc>	Rev P09	
						Date : Thursday, November 04, 2021			Sheet: 10 of 21

[J.BUZZER]



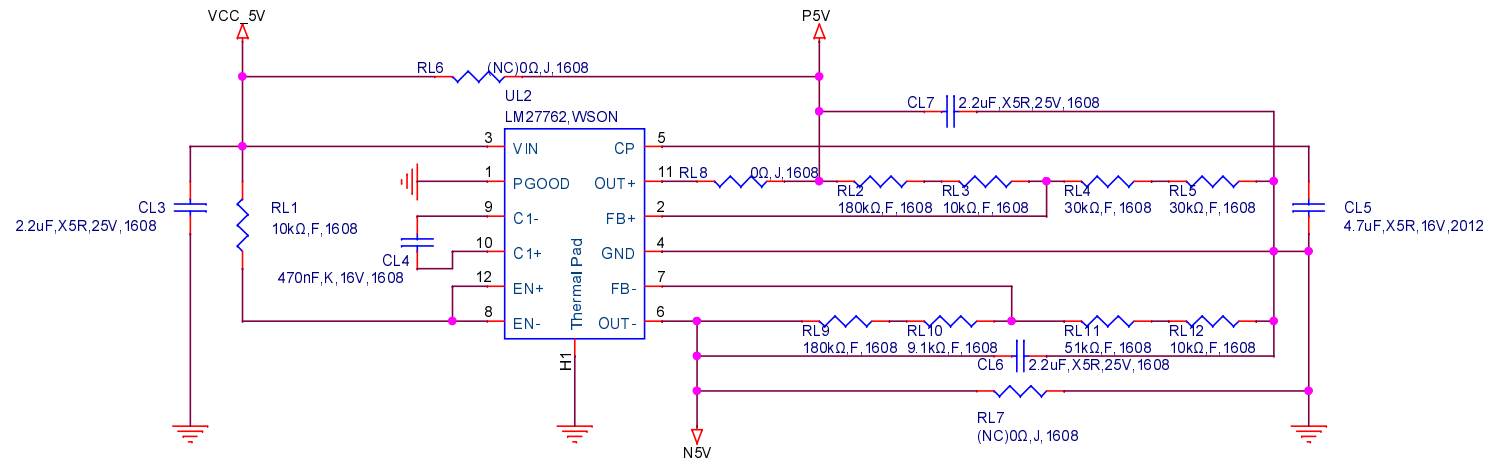
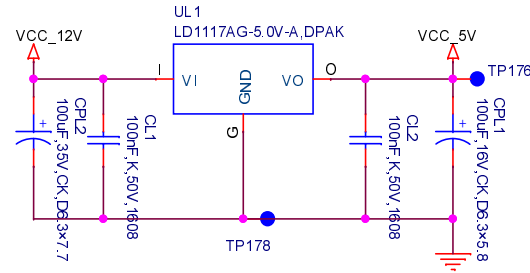
표준화로 도번	기존 양산 도면	변경이력	P00 20.11.02	회로 분리 적용		Title EDC300 Main			Draw Ki Nam Kim
INPUT 사양	BUZZER_PWM, BUZZER_ON					PBA Part Number <Variant Name>			Review Yong Su Kim
OUTPUT 사양						Page Name J_BUZZER			Approval Dong Min Kim
						Size A4	Doc Number <Doc>	Rev P09	
Date : Thursday, November 04, 2021						Sheet: 11 of 21			

[K,I.LCD, BACK LIGHT]



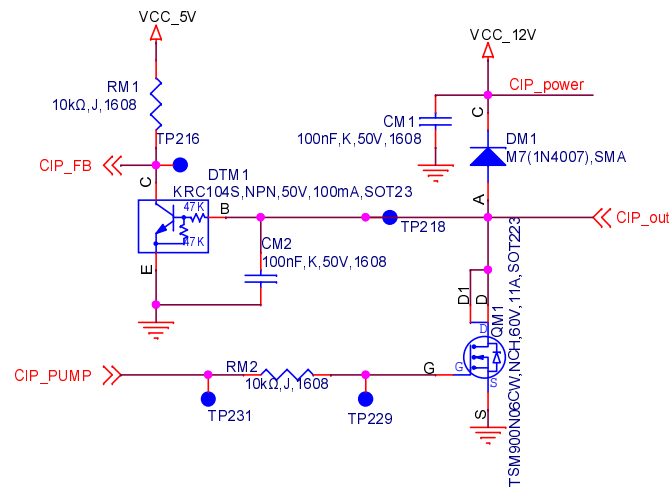
표준화로 도번	기존 양산 도번	P00 20.11.02	회로 분리 적용		Title EDC300 Main		Draw Ki Nam Kim
INPUT 사양	LCD_DATA, nLCD_WR, nLCD_RD, nLCD_CS, BLU_OUT				PBA Part Number <Variant Name>		Review Yong Su Kim
OUTPUT 사양					Page Name K_I_LCD_BACK LIGHT	Size A4	Approval Dong Min Kim
					Doc Number <Doc>	Rev P09	
				Date: Friday, January 14, 2022	Sheet: 12 of 21		

[L.5V REGULATOR]



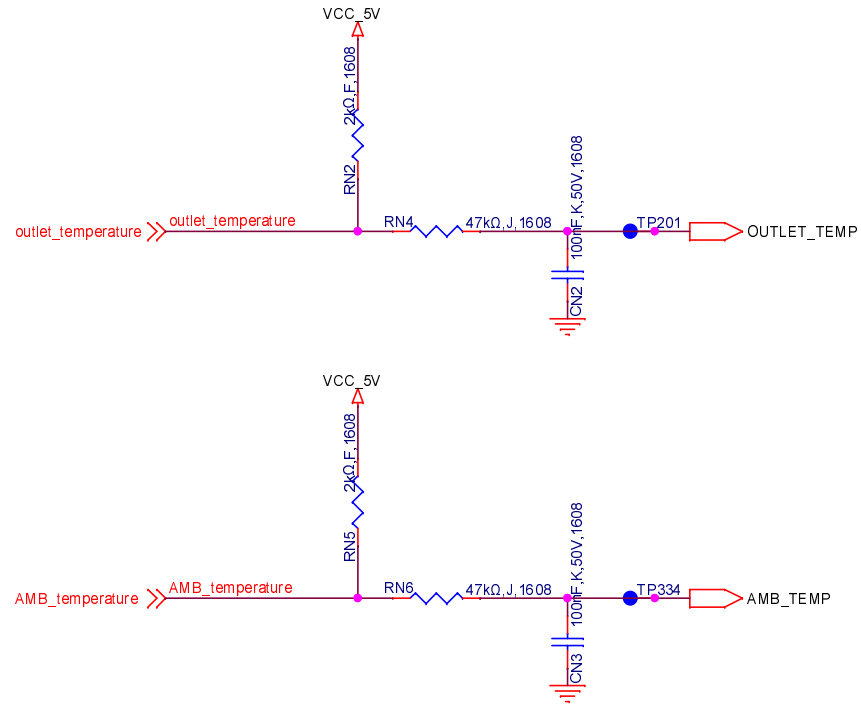
표준화로 도면	기존 양산 도면	변경이력	P00 20.11.02	회로 분리 적용		Title EDC300 Main			Draw Ki Nam Kim
INPUT 사양	VCC_12V, VCC_5V		P08 21.08.10	LM27762 Regulator 추가		PBA Part Number <Variant Name>			Review Yong Su Kim
OUTPUT 사양	VCC_5V, P5V, N5V					Page Name L_5V REGULATOR			Approval Dong Min Kim
						Size A4	Doc Number <Doc>	Rev P09	
					Date : Monday, January 17, 2022	Sheet: 13 of 21			

[M.CIP PUMP]



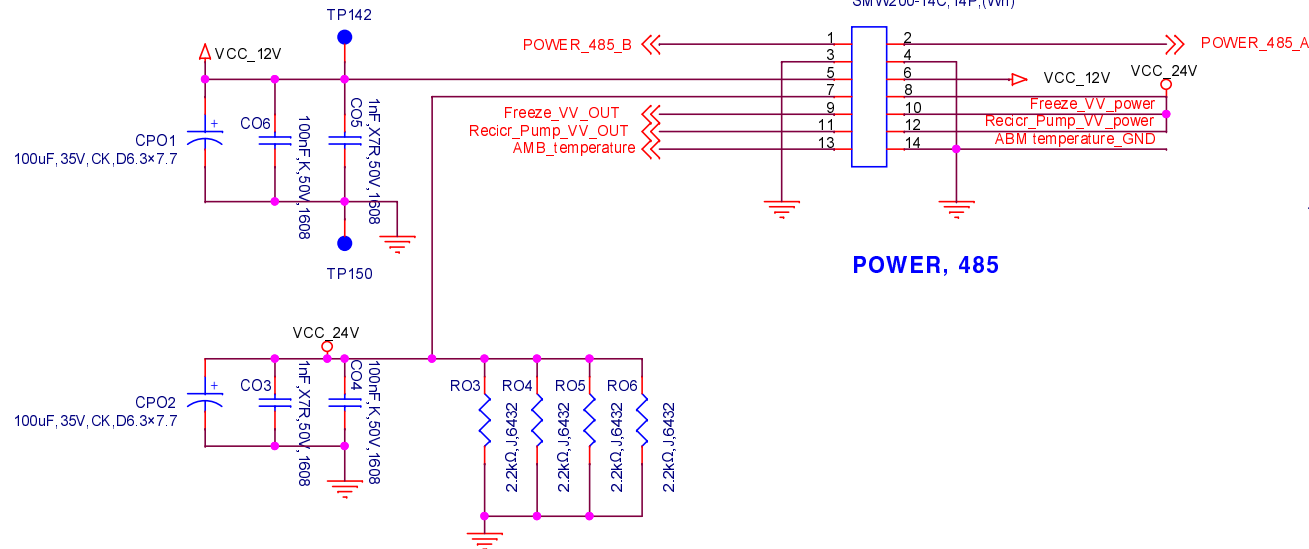
표준화로 도면	기존 양산 도면	변경이력	P00 20.11.02	회로 분리 적용		Title EDC300 Main		Draw Ki Nam Kim	
INPUT 사양	CIP_PUMP, CIP_out					PBA Part Number <Variant Name>		Review Yong Su Kim	
OUTPUT 사양	CIP_FB, CIP_power					Page Name M_CIP PUMP		Approval Dong Min Kim	
						Size A4	Doc Number <Doc>	Rev P09	Date : Thursday, November 04, 2021 Sheet: 14 of 21

[N.Temperature_Sensor]

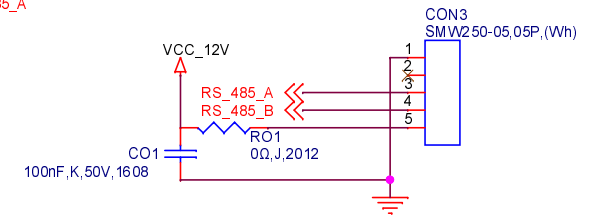


표준화로 도번	기존 양산 도면	변경 이력	P00 20.11.02	회로 분리 적용		Title EDC300 Main			Draw Ki Nam Kim
INPUT 사양	outlet_temperature,PCB1_temperature,PCB2_temperature					PBA Part Number <Variant Name>			Review Yong Su Kim
OUTPUT 사양	OUTLET_TEMP, PCB_TEMP1, PCB_TEMP2					Page Name N.Temperature_Sensor		Size A4	Doc Number <Doc>
Date : Tuesday, January 11, 2022						Sheet: 15 of 21			

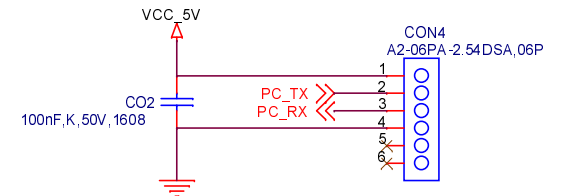
[O.CONNECTOR]



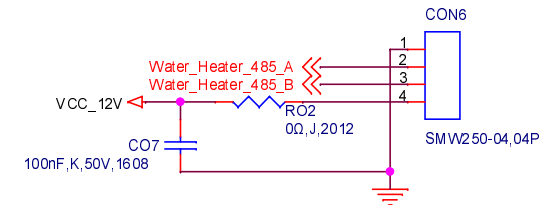
POWER, 485



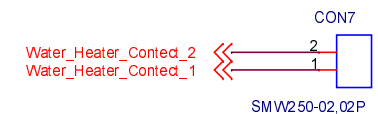
NAVILINK



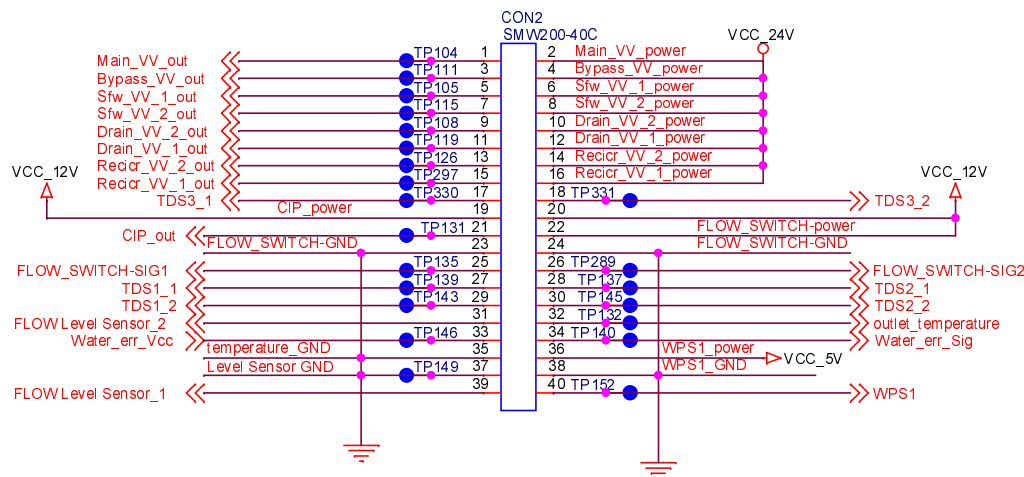
컨트롤러 ↔ PC



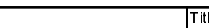
Water Heater



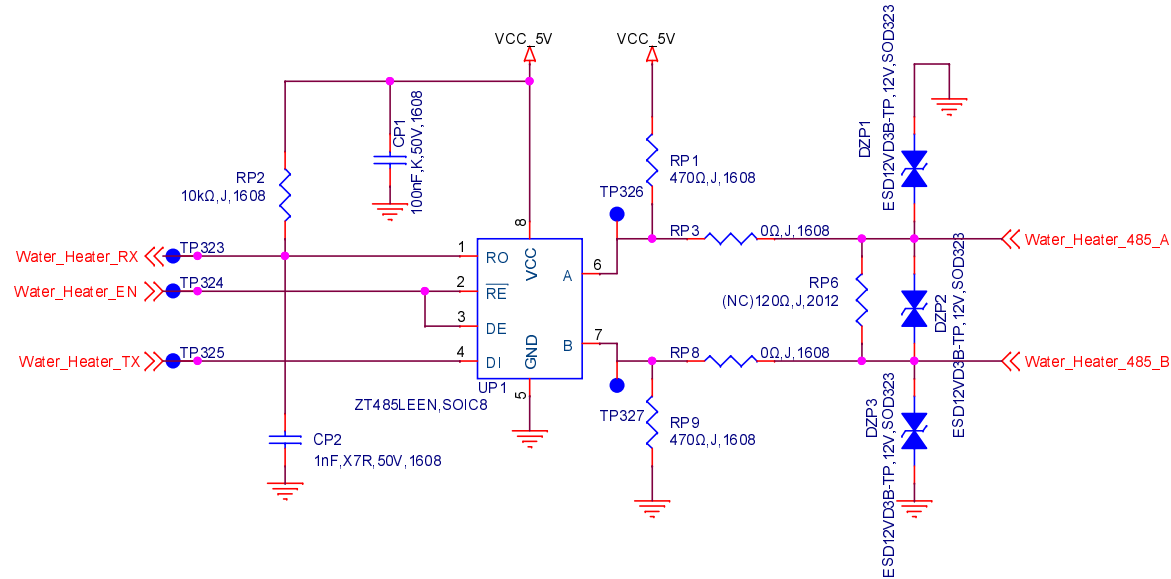
운수기 점점 입력



SENSOR, SOL V/V, COOLING FAN

표준화로 도면	기존 양산 도면	변경 이력	P00 20.11.02 P07 21.07.07	회로 분리 적용 CON2 Pin 31,Pin 35,Pin 37,Pin 39 변경		Title EDC300 Main		Draw Ki Nam Kim	
INPUT 사양			P08 21.08.10	Pin 17 : temperature_GND -> TDS3_1 변경 Pin18 : TDS3_2 추가 Pin 35 : temperature_GND 변경		PBA Part Number <Variant Name>		Review Yong Su Kim	
OUTPUT 사양			P08 21.08.12	- 운수기 485통신용 CON 6 추가 - 운수기 접점용 Con7 추가		Page Name O CONNECTOR	Size A4 Doc Number <Doc>	Rev P09	Approval Dong Min Kim
Date: Monday, January 17, 2022						Sheet: 16 of 21			

[P. Water Heater]

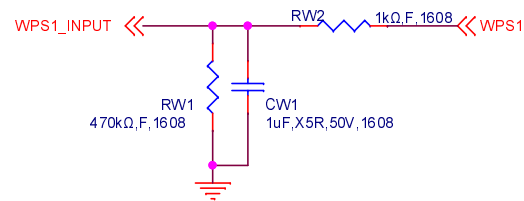


표준화로 도번	기존 양산 도번	변경이력	P08 21.08.12	온수기 485통신용 회로 추가.		Title EDC300 Main			Draw Ki Nam Kim
INPUT 사양	FB_FAN1, FB_FAN2, FAN1, FAN2					PBA Part Number <Variant Name>			Review Yong Su Kim
OUTPUT 사양	FAN1_S1G, FAN2_S1G, FAN1_FB, FAN2_FB					Page Name P. Water Heater			Approval Dong Min Kim
							Size A4	Doc Number <Doc>	Rev P09
Date: Thursday, November 04, 2021						Sheet: 17 of 21			

A



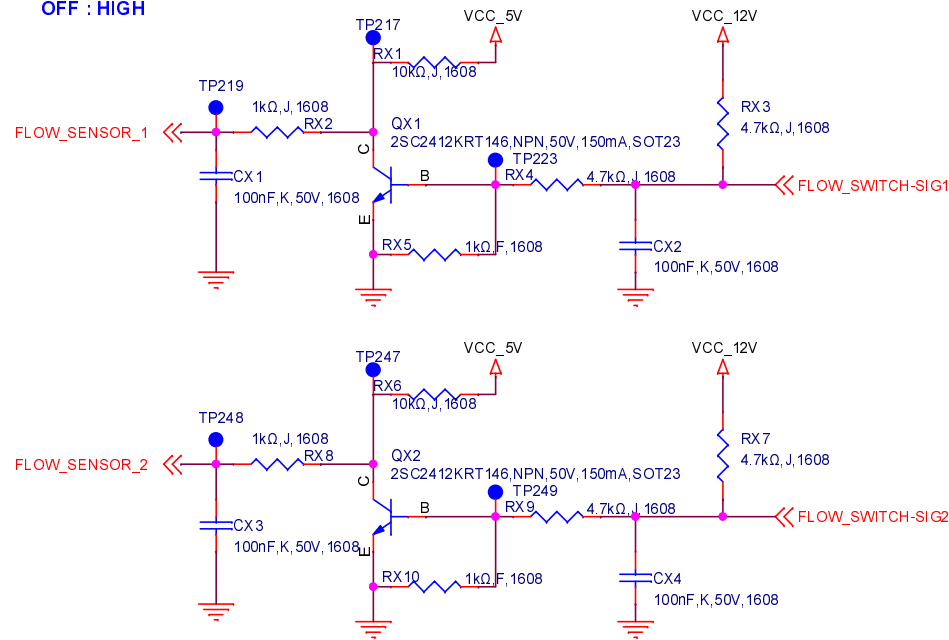
[W.WPS]



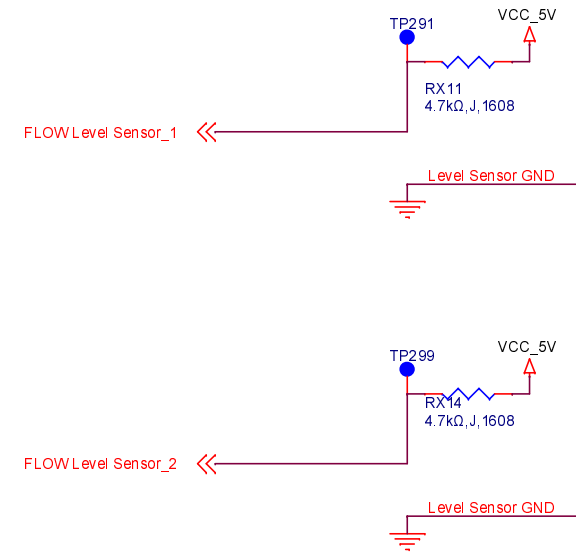
표준화로 도번	기존 양산 도면	변경이력	P00 20.11.02	회로 분리 적용		Title EDC300 Main			Draw Ki Nam Kim	
INPUT 사양	WPS1					PBA Part Number <Variant Name>			Review Yong Su Kim	
OUTPUT 사양	WPS1_INPUT					Page Name W.WPS			Approval Dong Min Kim	
						Size A4		Doc Number <Doc>		Rev P09
						Date : Friday, January 14, 2022			Sheet: 20 of 21	

[X.FLOW SENSOR]

[FLOW SENSOR]
ON : PULSE
OFF : HIGH



[Reed Sensor]
ON : LOW
OFF : HIGH



표준화로 도면	기존 양산 도면	변경이력	P00 20.11.02	회로 분리 적용		Title EDC300 Main		Draw Ki Nam Kim
INPUT 사양	FLOW_SWITCH-SIG1, FLOW_SWITCH-SIG2, Level Sensor-SIG_1, Level Sensor-SIG_2		P07 21.07.07	Level Sensor 회로 변경		PBA Part Number <Variant Name>		Review Yong Su Kim
						Page Name X FLOW SENSOR		
OUTPUT 사양	FLOW_SENSOR_1, FLOW_SENSOR_2, FLOW Level Sensor_1, FLOW Level Sensor_2					Size A4	Doc Number <Doc>	Rev P09
						Date : Thursday, November 04, 2021	Sheet: 21 of 21	