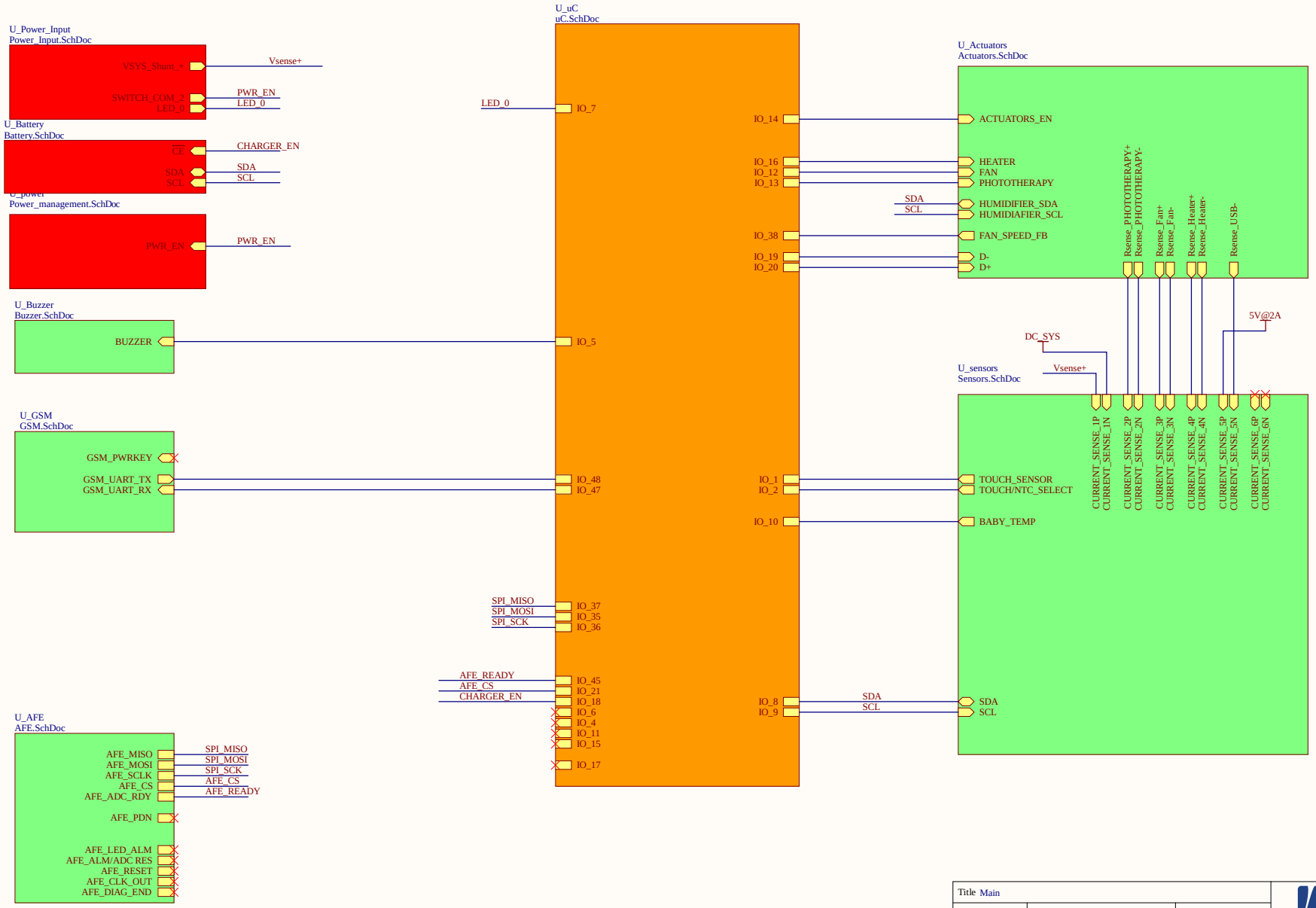
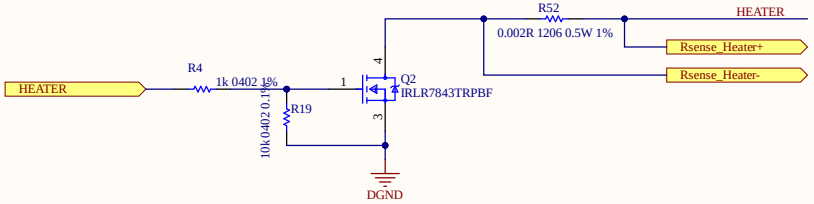
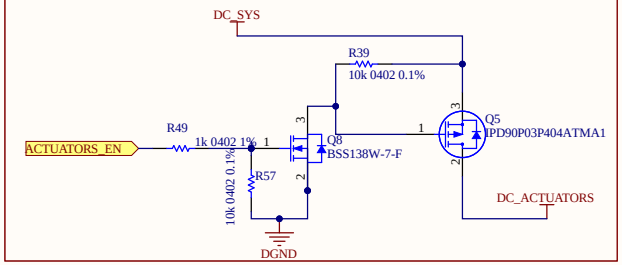


Title Main		
Size: A3	Author: Pablo Sanchez Bergasa	Revision:
Date: 22/01/2025 Time: 18:09:03		Sheet 1 of 10
File: C:\Users\Administrator\Downloads\Motherboard\Motherboard\in3ator.SchDoc		

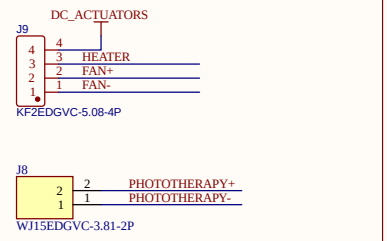
HEATER



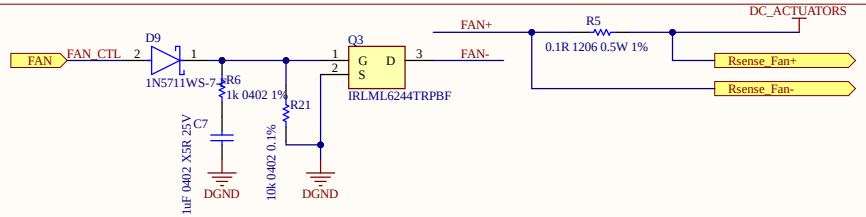
ACTUATORNS ENABLE



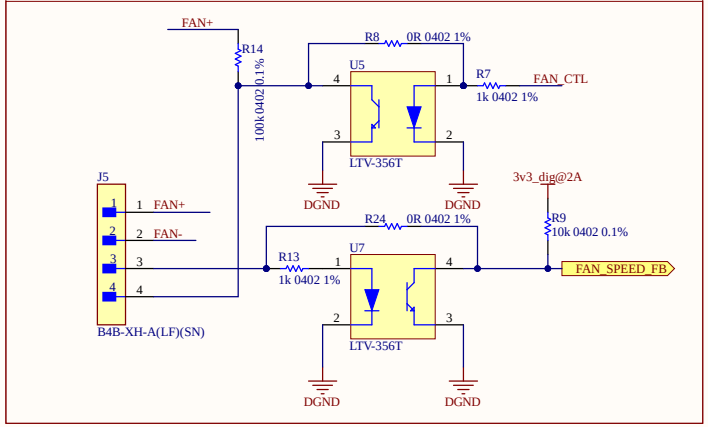
POWER CONNECTOR



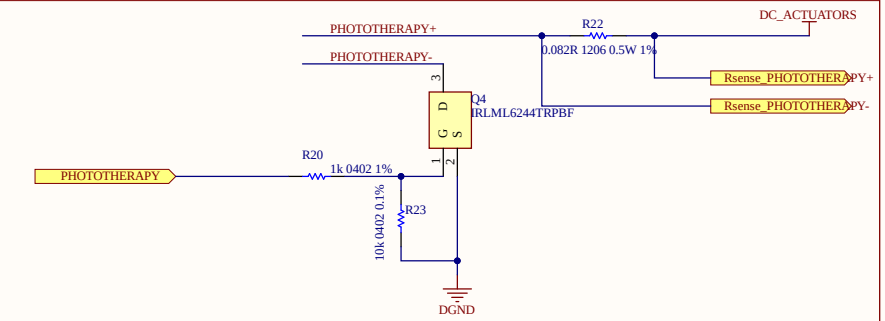
FAN



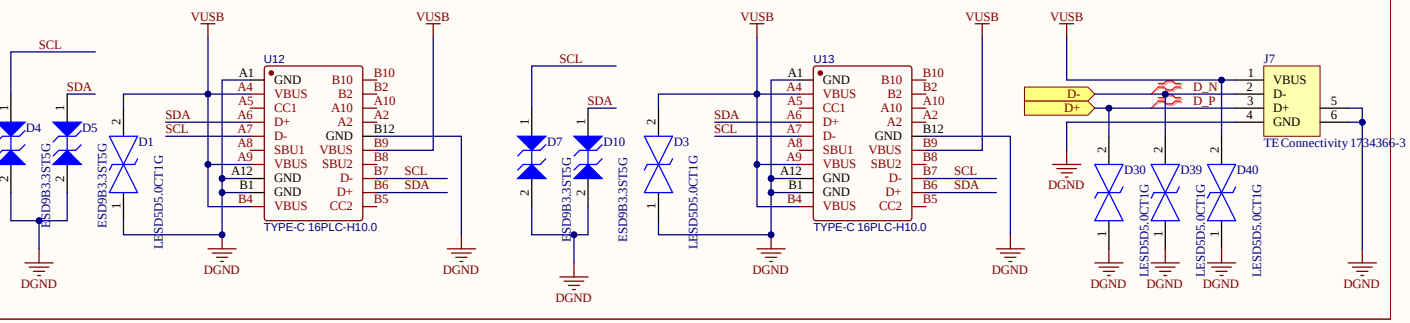
FAN CONTROL

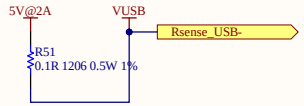


JAUNDICE LEDS



USB





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Date: 22/01/2025 Time: 18:09:04		Sheet 2 of 10
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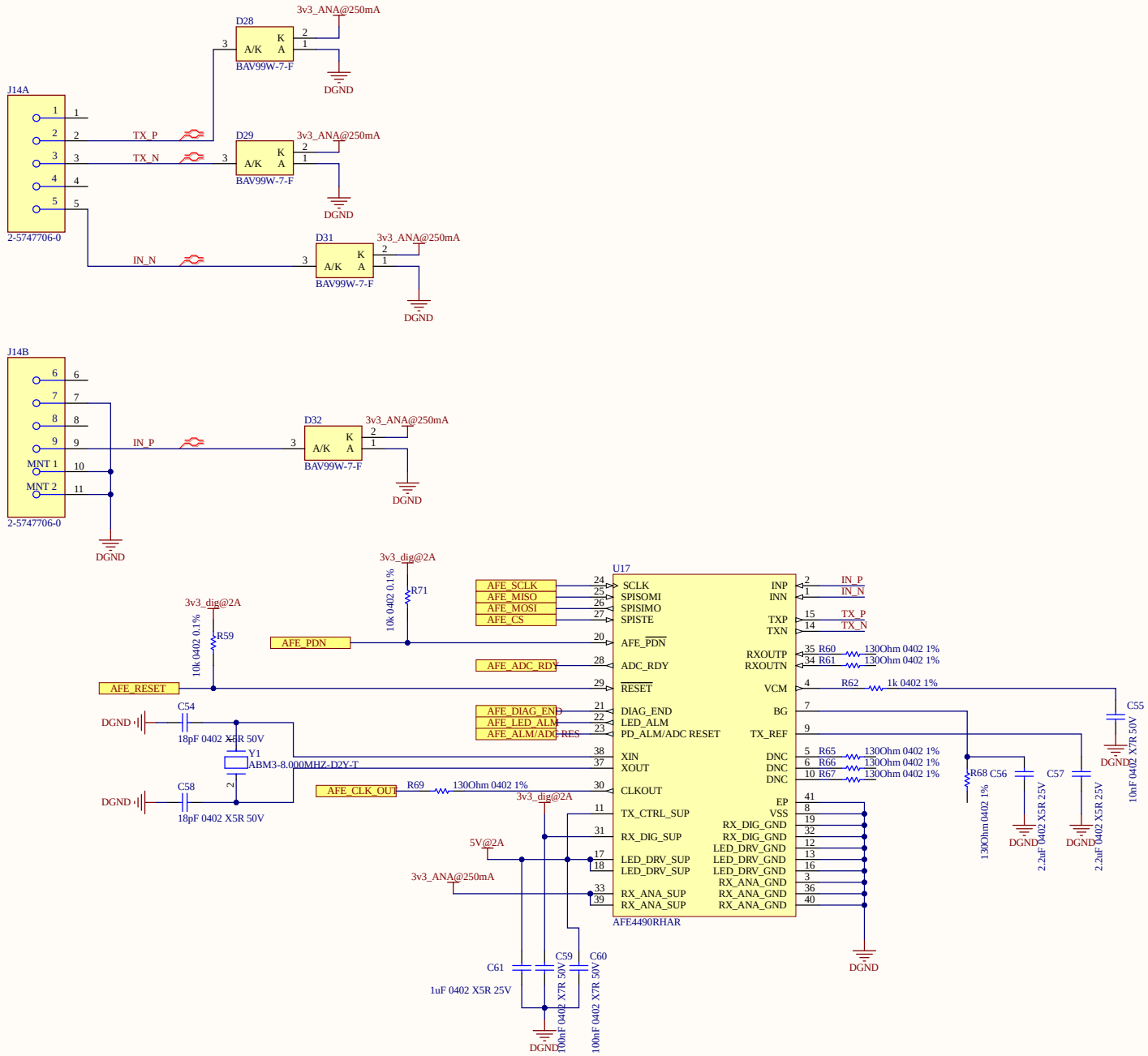

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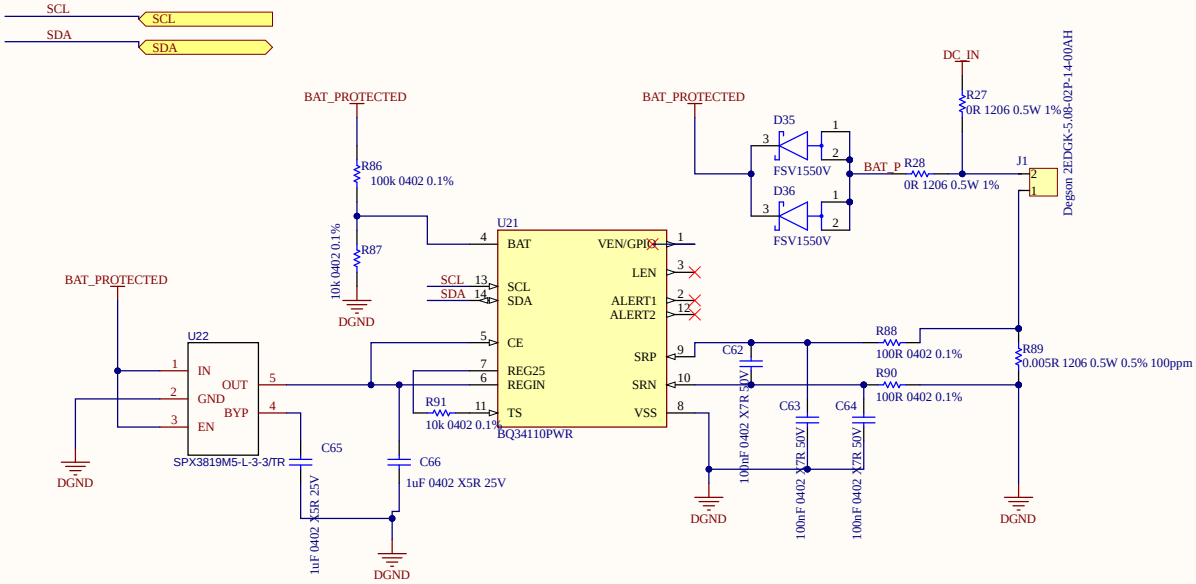

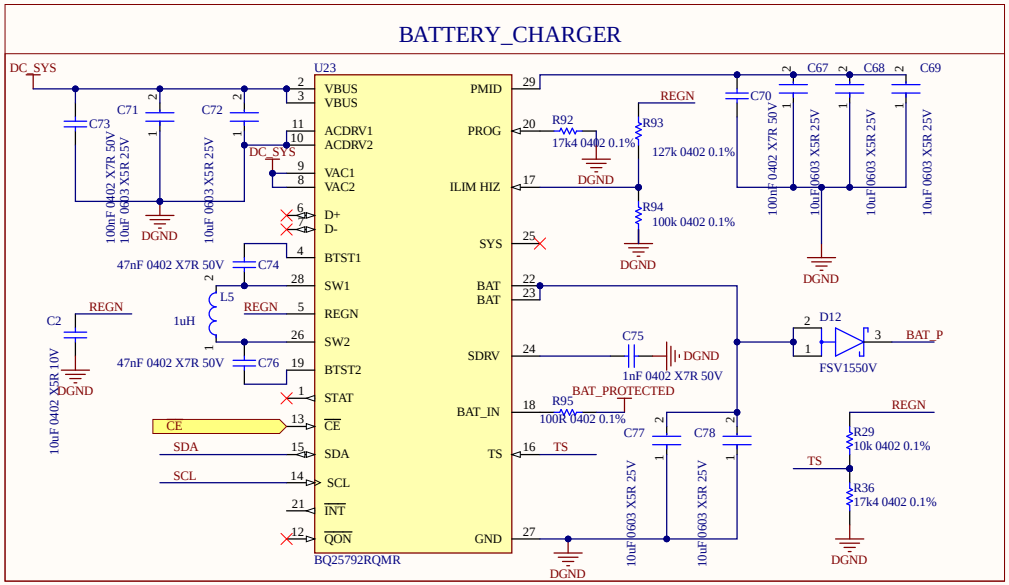

Title Power		
Size: A3	Author: Pablo Sanchez Bergasa	Revision:
Date: 22/01/2025 Time: 18:09:04		Sheet 4 of 10
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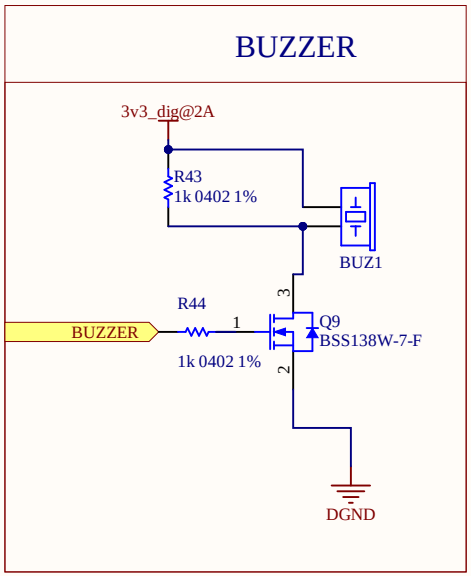

Title Buzzer		
Size: A3	Author: Pablo Sanchez Bergasa	Revision:
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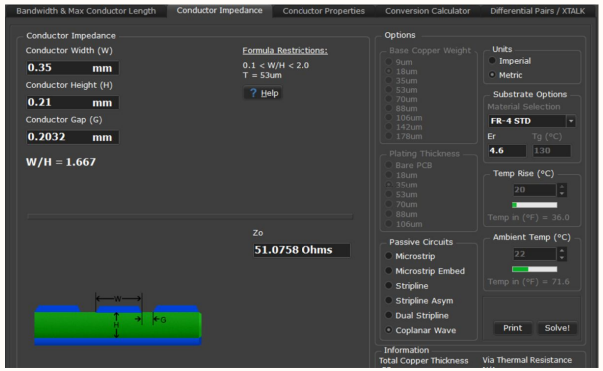
File: C:\Users\Administrator\Downloads\Motherboard\Motherboard\Buzzer.SchDoc		

In3
Low cost infant incubator

GSM/GPRS MODULE

ROUTING



GSM_UART_TX
GSM_UART_RX
GSM_TX
GSM_RX
R10 1k 0402 1%
R12 1k 0402 1%
R11 10k 0402 0.1%
DGND

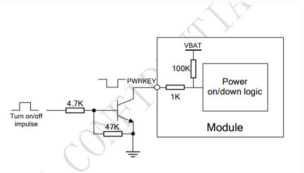
U2
Simcom SIM800C
ADC Vmax: 2.8V

13	GND	STATUS	42
14	SIM_DET	NETLIGHT	41
15	SIM_DATA	VDD_EXT	40
16	SIM_CLK	PWRKEY	39
17	SIM_RST	ADC	38
18	SIM_VDD	GND	37
19	GND	GND	36
20	BT_ANT	BAT_PROTECTED	35
21	GND	BAT_PROTECTED	34

GSM_DATA
GSM_CLK
GSM_RST
GSM_VCC

SPKN, SPKP, MICN, MICP, GND, UART1_RI, UART1_DTR, UART1_DCD, UART1_CTS, UART1_RTS, UART1_RXD, UART1_TXD
UART2_TXD, UART2_RXD, USB_VBUS, USB_DP, USB_DN, GND, VRTC, RF_SYNC, GND, GND, GSM_ADC, GND

4V@2A
D8
MMSZ5231BT1G
C49 10uF 0402 X5R 10V
C8 100nF 0402 X7R 50V
C43 18pF 0402 X5R 50V



GPRS_RF
RF_PCB1
F
GND
Planar Inverted-F Antenna
R15 0R 0402 1%
R53 0R 0402 1%
C9 100nF 0402 X7R 50V
C33 100nF 0402 X7R 50V
C13 100nF 0402 X7R 50V
C10 100nF 0402 X7R 50V

ESIM

SIM_VCC
C11 100nF 0402 X7R 50V
U3 ESIM
VDD 8
I/O 3
RST 7
CLK 6
TPAD 9
GND 1
eSIM MFF2
SIM_DATA
SIM_RST
SIM_CLK

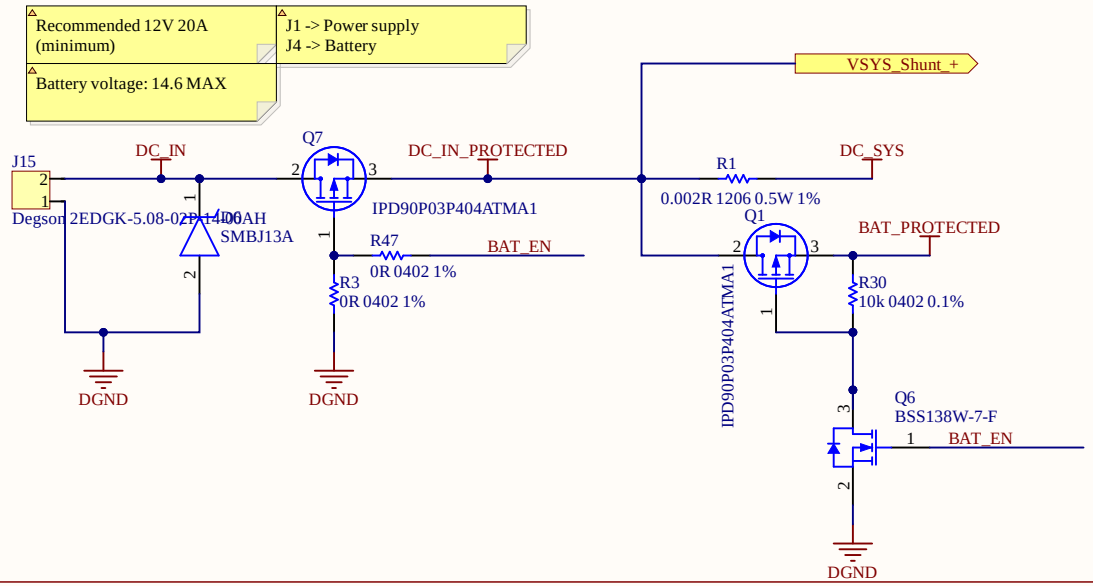
DATA TVS

GSM_DATA R16 100R 0402 0.1% SIM_DATA
GSM_CLK R17 100R 0402 0.1% SIM_CLK
GSM_RST R18 100R 0402 0.1% SIM_RST
GSM_VCC SIM_VCC
C12 18pF 0402 X5R 50V
D2 ESDA6V1-5SC6

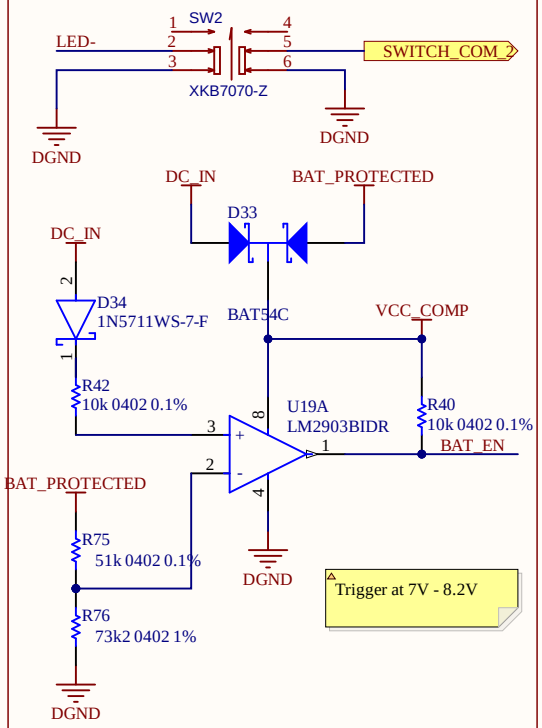
Title GSM		
Size: A3	Author: Pablo Sanchez Bergasa	Revision:
Date: 22/01/2025 Time: 18:09:04		Sheet 6 of 10
File: C:\Users\Administrator\Downloads\Motherboard\Motherboard\GSM.SchDoc		

In3
Low cost infant incubator

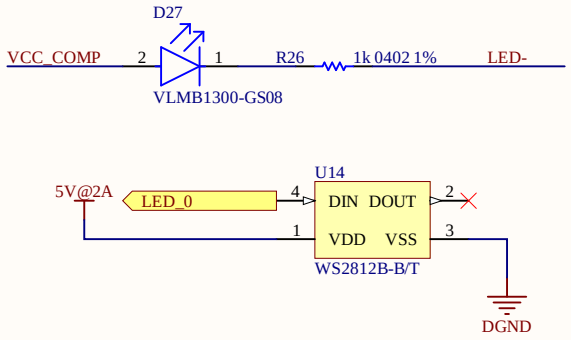
POWER IN SELECTOR



ON/OFF SWITCH

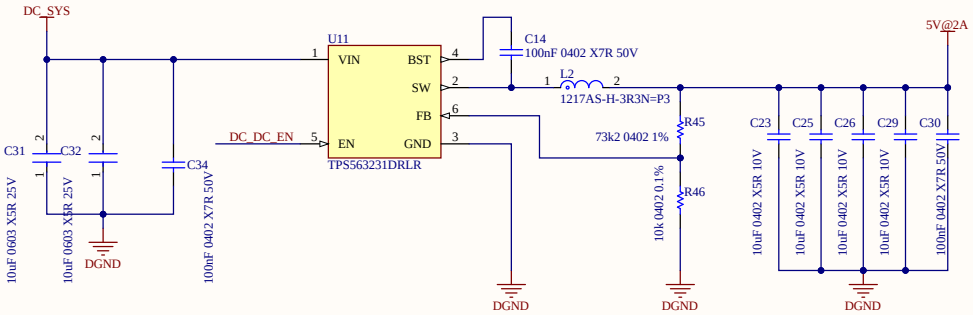


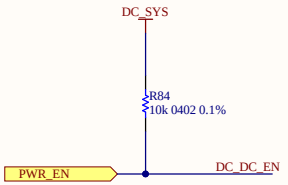
LED STATUS INDICATOR



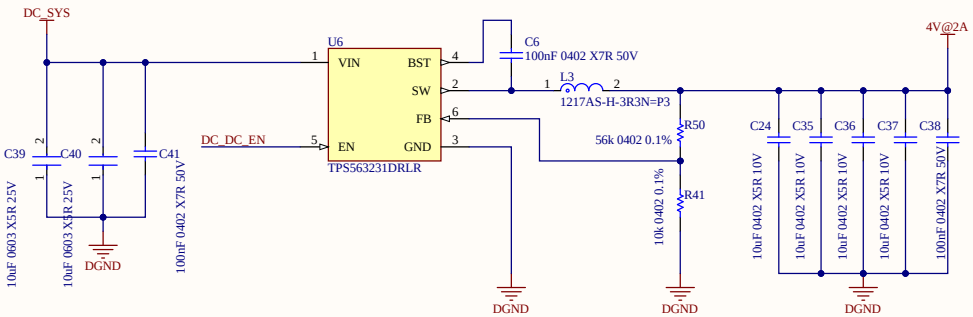
Title Power input		
Size: A3	Author: Pablo Sanchez Bergasa	Revision:
Date: 22/01/2025 Time: 18:09:04		Sheet 7 of 10
File: C:\Users\Administrator\Downloads\Motherboard\Motherboard\Power_Input.SchDoc		

USB POWER

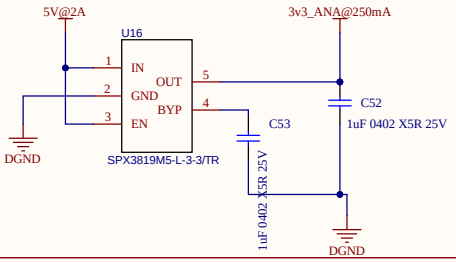




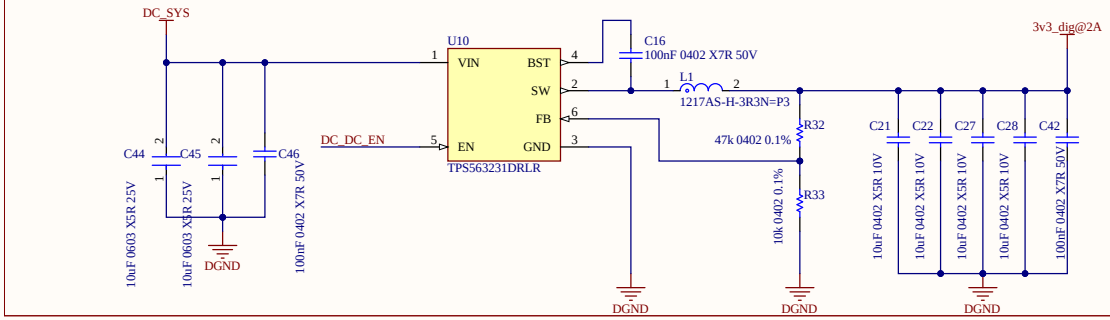
GSM POWER



uC / SENSORS POWER



uC / SENSORS POWER



Title Power		
Size: A3	Author: Pablo Sanchez Bergasa	Revision:
Date: 22/01/2025 Time: 18:09:04		Sheet 8 of 10
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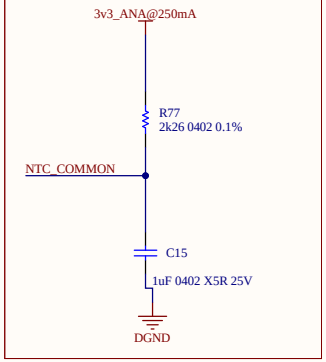
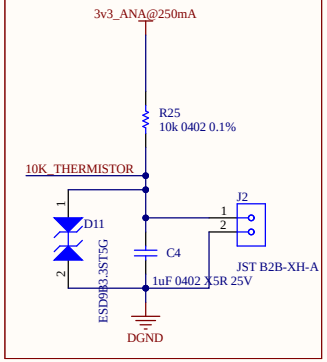
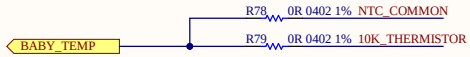
BABY THERMISTOR

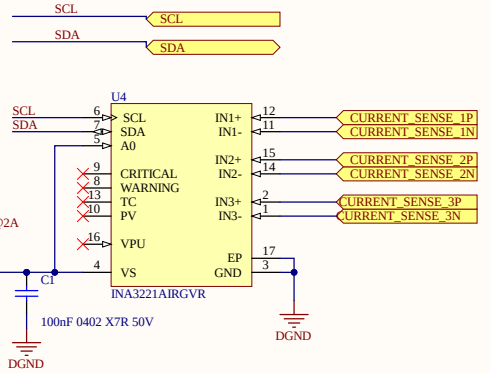


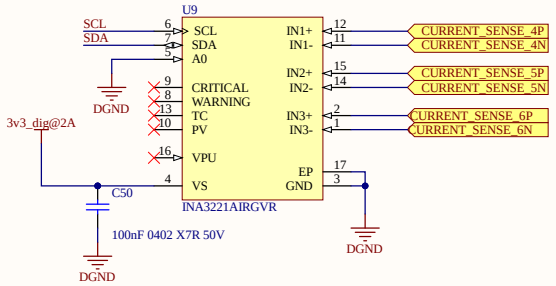
BABY THERMISTOR

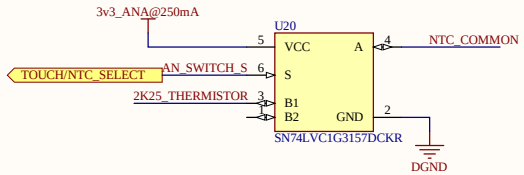


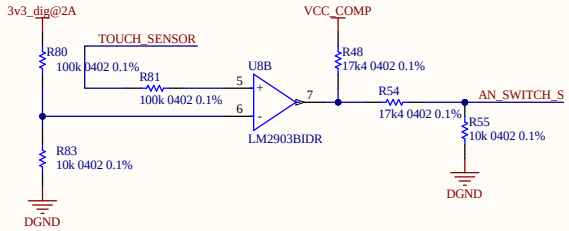


CURRENT SENSORS









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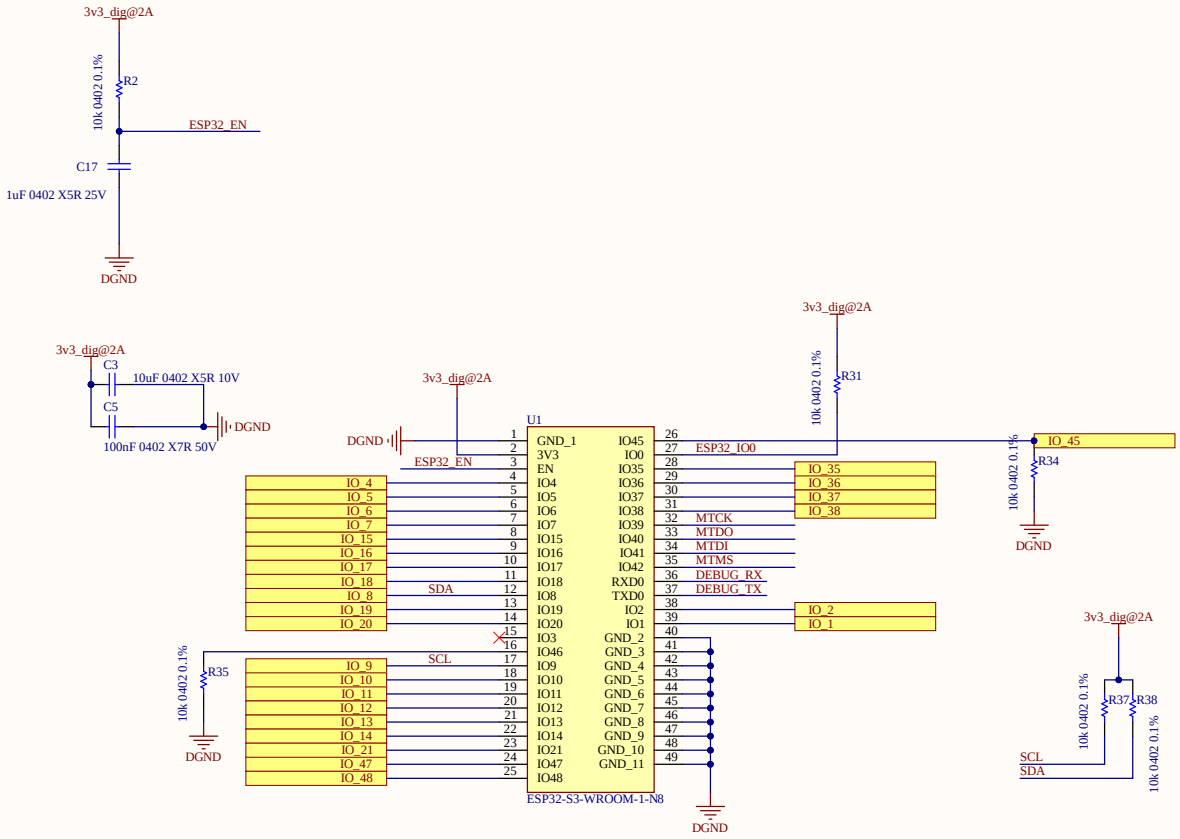
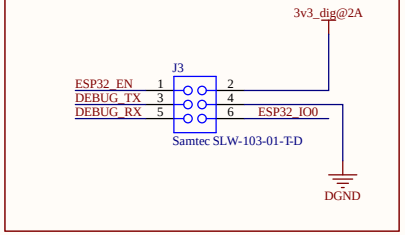
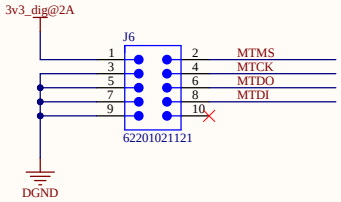


UART PROGRAMMING



JTAG



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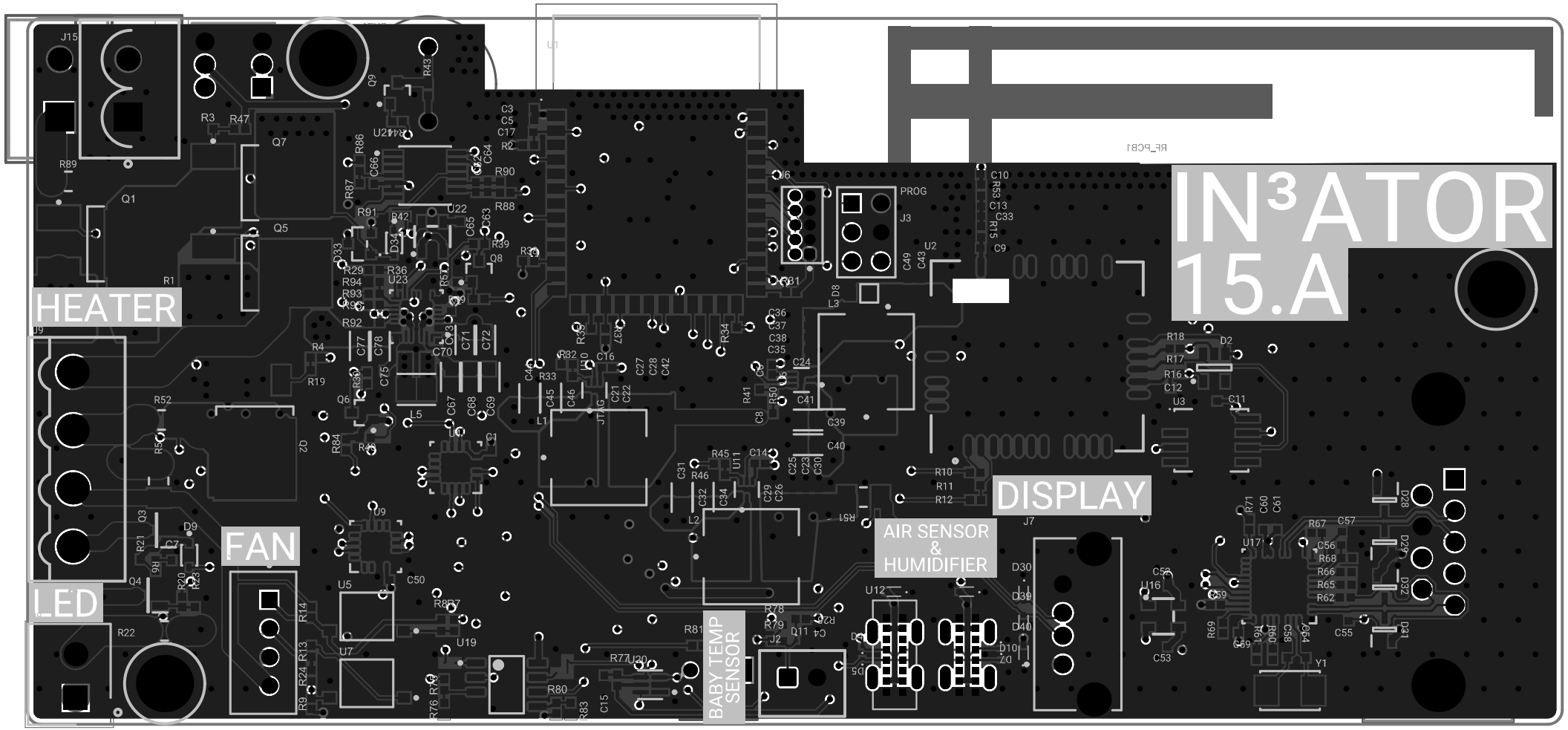
IN³ATOR
15.A
HEATER
FAN
LED
DISPLAY
AIR SENSOR
&
HUMIDIFIER
BABY TEMP
SENSOR
PROG
JTAG