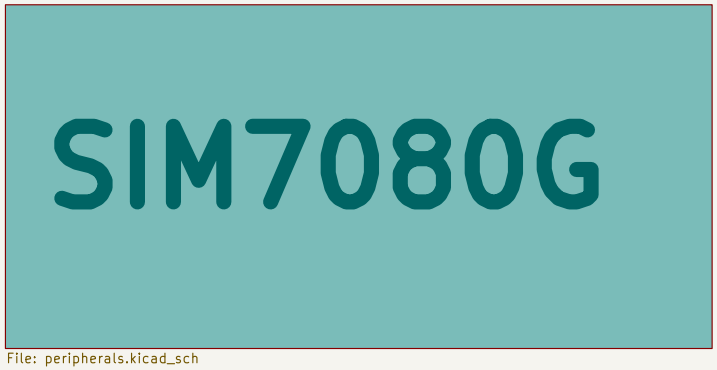

File: connector.kicad_sch




File: peripherals.kicad_sch


File: mcu.kicad_sch

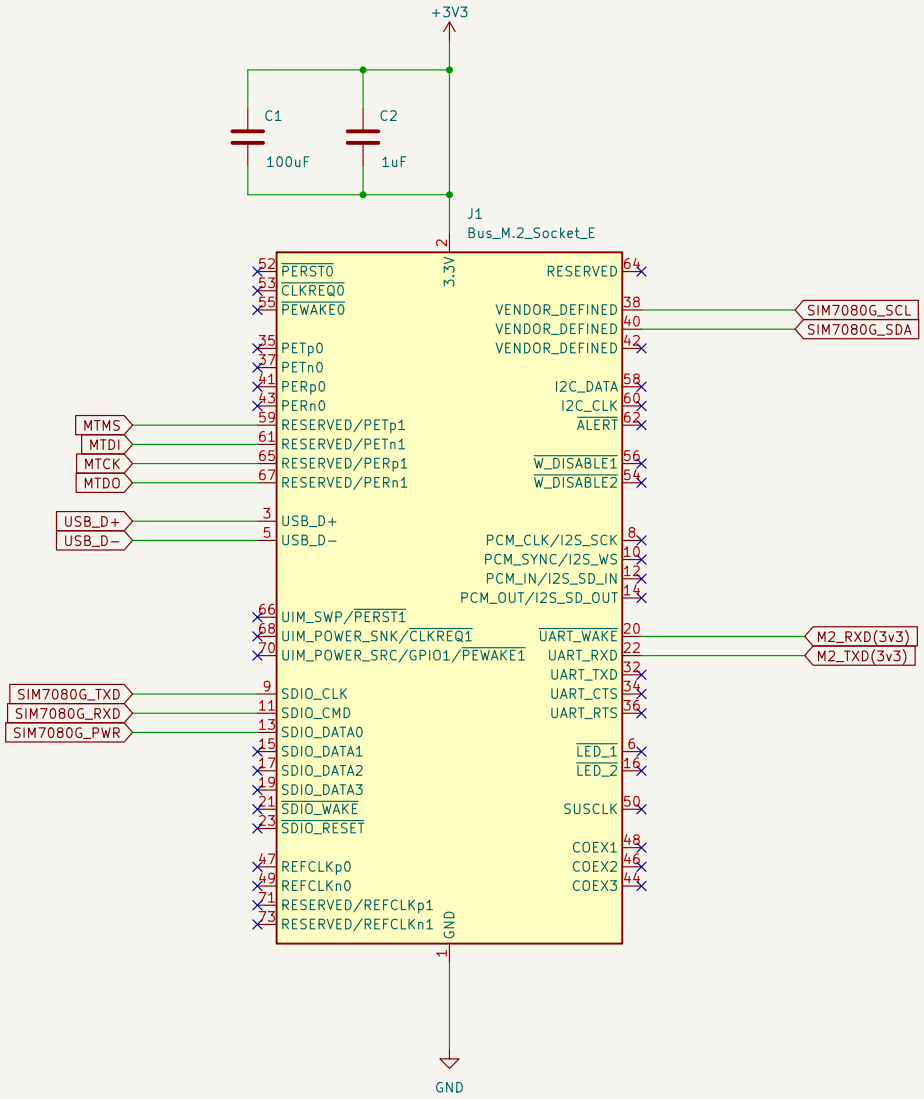
Approved By:
Designed By: Rodney Osodo
**Abstract Machines**

Sheet: /
File: am-iot-gateway.kicad_sch

***Title: IoT Gateway***

| Size: A4 | Date: 2024-10-15 | **Rev: v0.1.0** |
|---|---|---|
| KiCad E.D.A. 8.0.6 | | Id: 1/4 |

# M.2 E Key




**Resistors**

0
- RC0603JR-070RL

100
- +/- 1%
- 0.1W
- ERJ-3EKF1000V

1k
- +/- 1%
- 0.1W
- RC0603FR-071KL

4.7k
- +/- 0.1%
- 0.1W
- RC0603FR-074K7L

10k
- +/- 1%
- 0.1W
- RC0603FR-0710KL

47k
- +/- 0.1%
- 0.1W
- ERA-3AEB473V

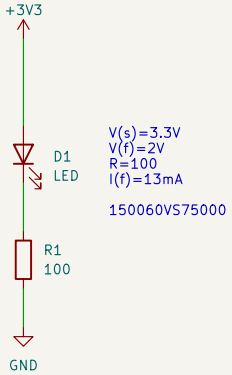
**Capacitors**

33pF
- +/- 10%
- 50V
- GMC10CG330K50NT

0.1uF
- +/- 5%
- 50V
- 0603B104J500XD

1uF
- +/- 10%
- 10V
- 0603B105K100XD

100uF
- +/- 10%
- 6.3V
- GMC31X5R107K6R3NT




V(s)=3.3V
V(f)=2V
R=100
I(f)=13mA

150060VS75000

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Designed By: Rodney Osodo
**Abstract Machines**

Sheet: /M2 Connector/
File: connector.kicad_sch

***Title: IoT Gateway***

| Size: A4 | Date: 2024-10-15 | **Rev: v0.1.0** |
|---|---|---|
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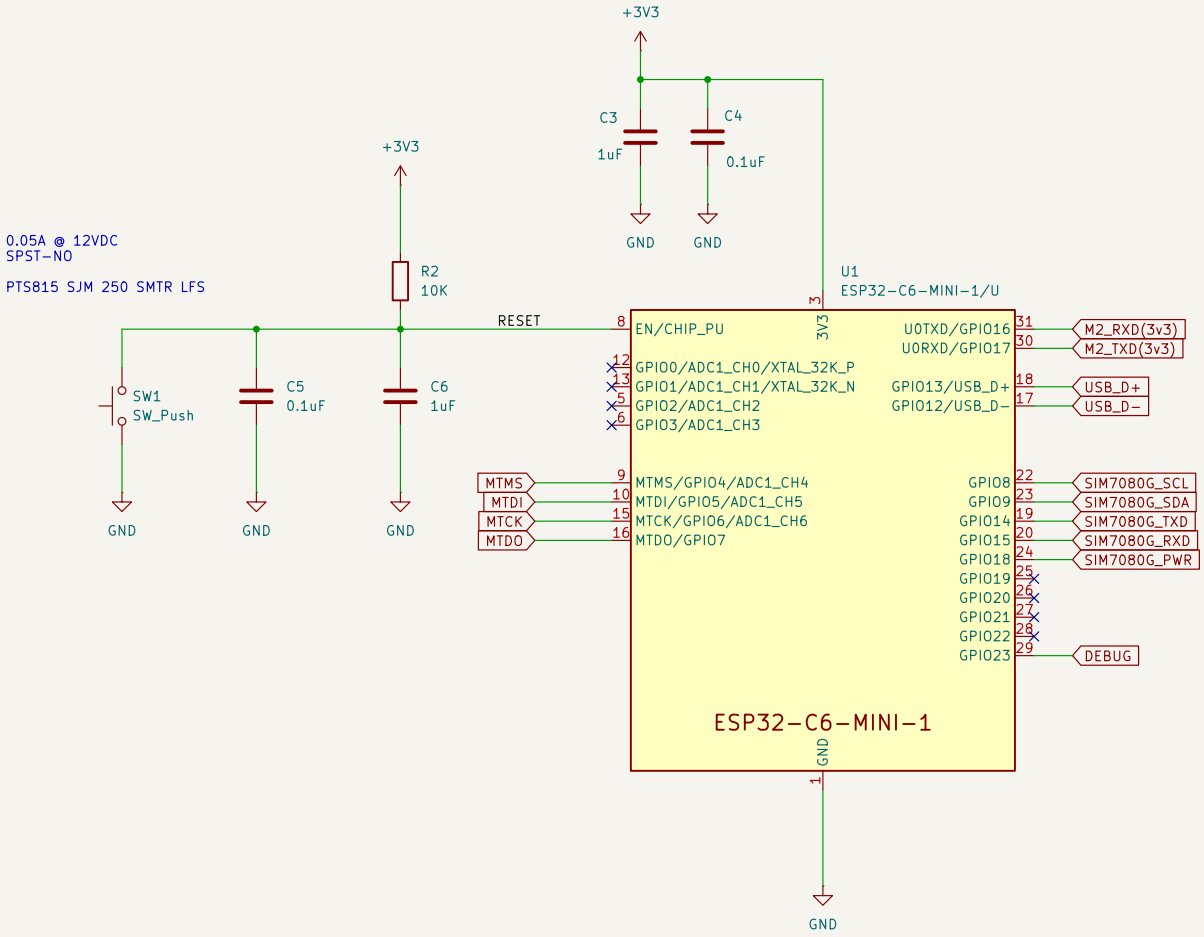
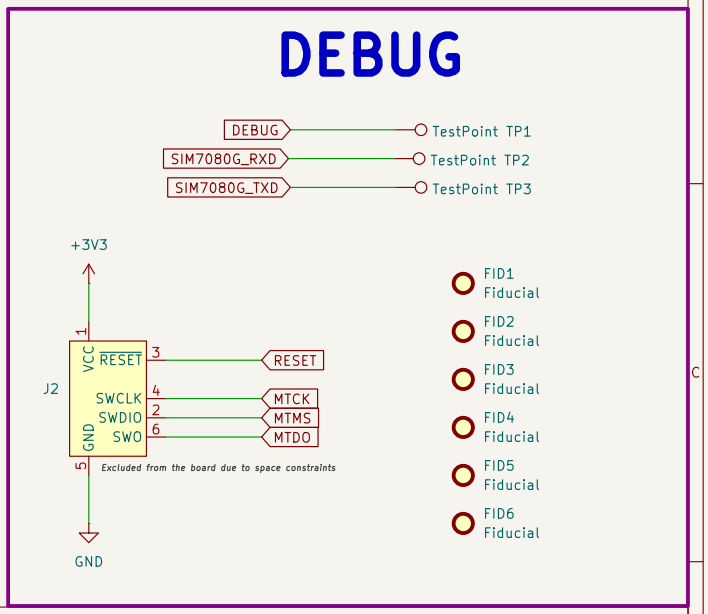
# MCU-ESP32-C6-MINI




## DEBUG

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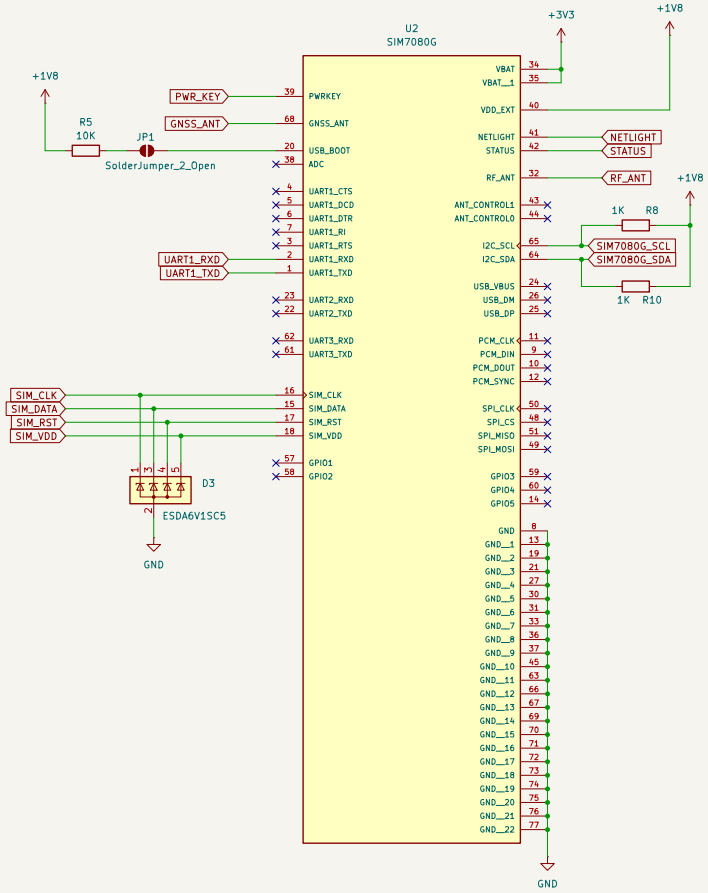
**Abstract Machines**

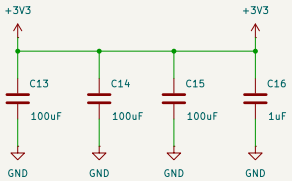
Sheet: /mcu/
File: mcu.kicad_sch

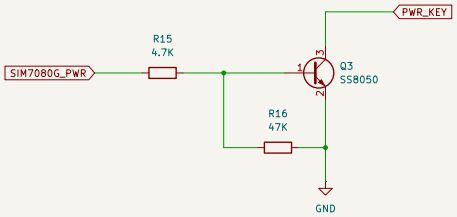
***Title: IoT Gateway***

| Size: A4 | Date: 2024-10-15 | **Rev: v0.1.0** |
|---|---|---|
| KiCad E.D.A. 8.0.6 | | Id: 3/4 |

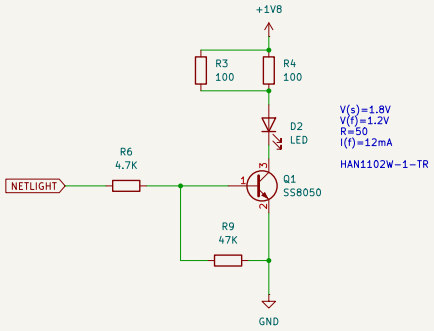
# SIM7080G

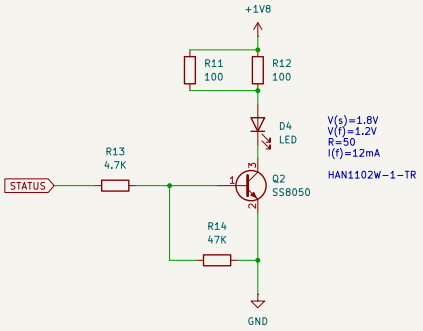


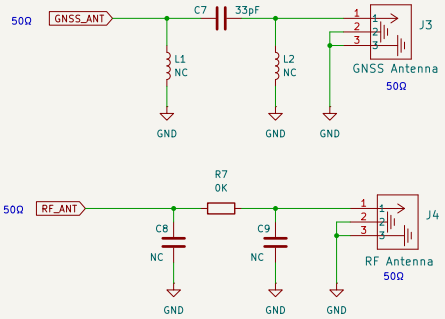




# STATUS LEDS



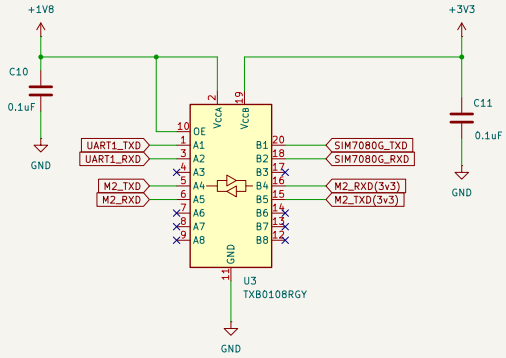




# ANTENNAE

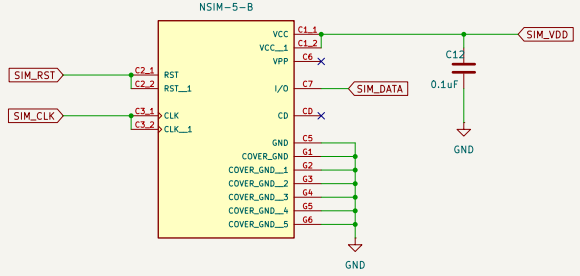



The input and output impedance are matched

# LEVEL SHIFTER




# SIM CARD

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**Abstract Machines**
Sheet: /SIM7080G/
File: peripherals.kicad_sch

***Title: IoT Gateway***

| Size: A3 | Date: 2024-10-15 | **Rev: v0.1.0** |
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| KiCad E.D.A. 8.0.6 | | Id: 4/4 |