

# JUPITER SYSTEM

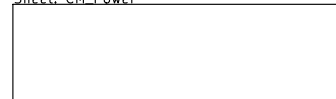
## JUPITER MODEL A

Sheet: Power\_Reg



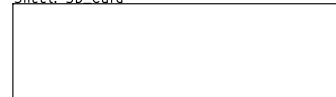
File: Power\_Reg.sch

Sheet: CM\_Power



File: CM\_Power.sch

Sheet: SD\_Card



File: SD\_Card.sch

Sheet: HDMI



File: HDMI.sch

Sheet: USB\_Wifi



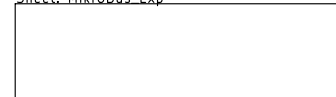
File: USB\_Wifi.sch

Sheet: Cam\_Dis



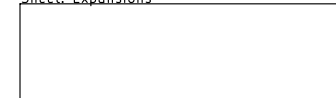
File: Cam\_Dis.sch

Sheet: MikroBus\_Exp



File: MikroBus\_Exp.sch

Sheet: Expansions



File: Expansions.sch

**Francesco Ficili**

Sheet: /

File: Jupiter.sch

**Title: Jupiter Model A**

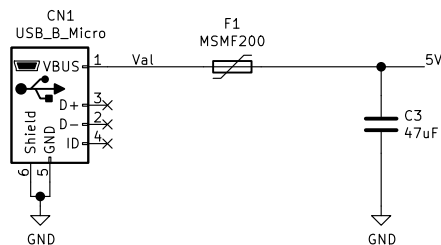
Size: A4 Date: 2020-05-23

KiCad E.D.A. kicad (5.1.5)-3

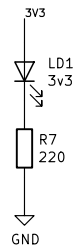
**Rev: 0.1**

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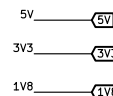
## Power Conn



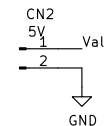
## Power LEDs



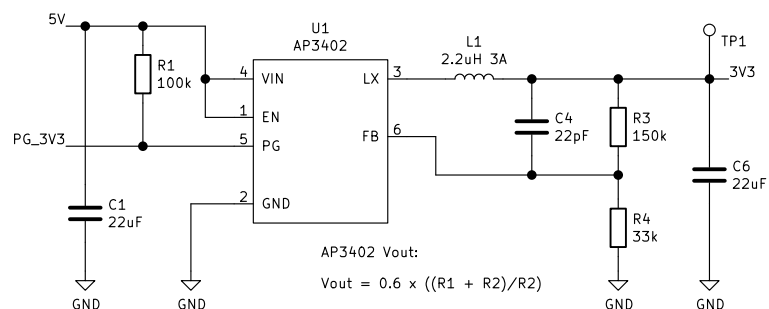
## Power Lbl.



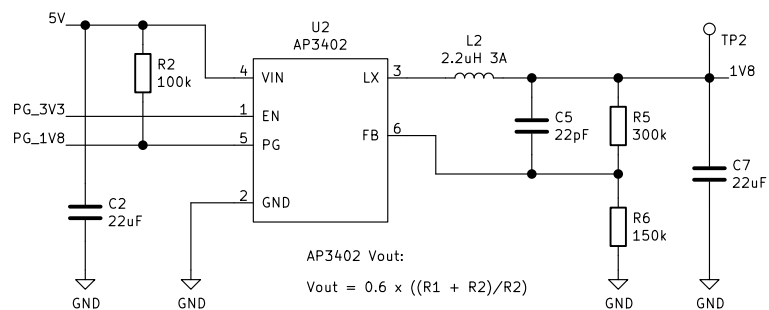
## Aux. Power



## 3V3 Stage



## 1V8 Stage



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Sheet: /Power\_Reg/

File: Power\_Reg.sch

**Title: Jupiter Model A**

Size: A4

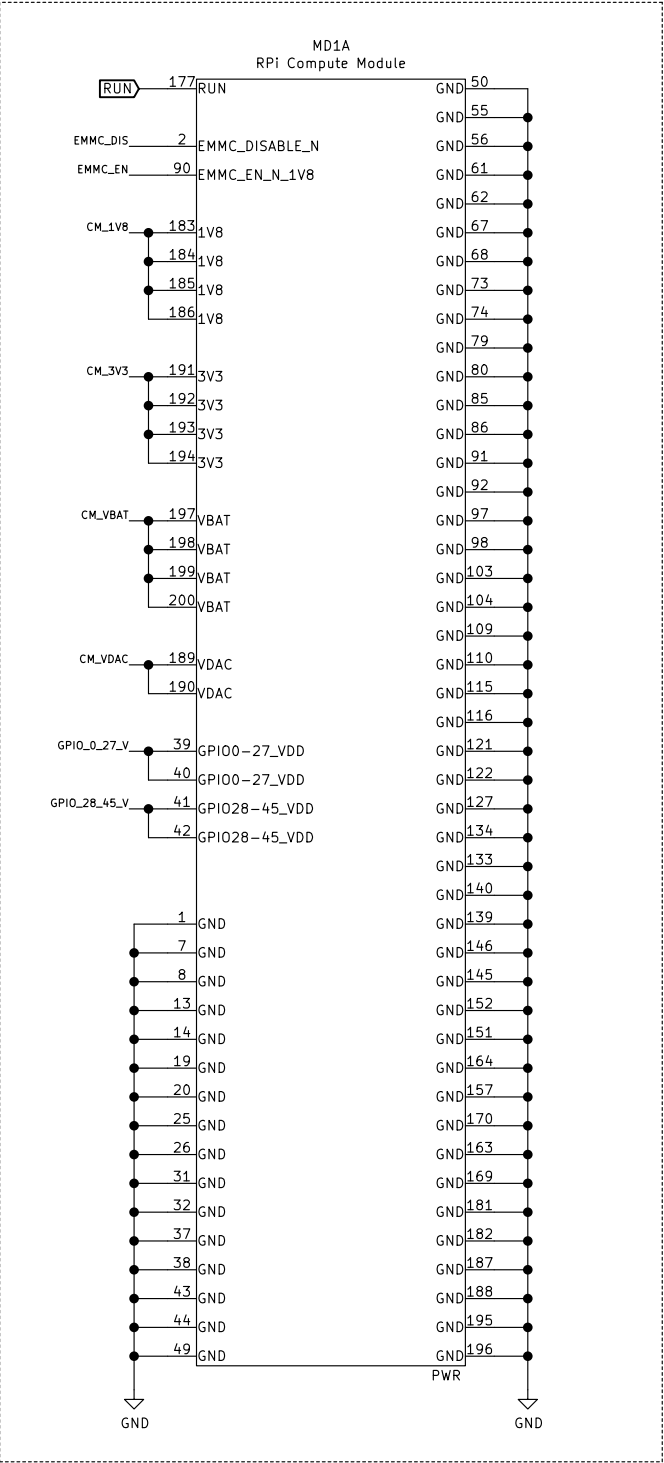
Date: 2020-05-23

Rev: 0.1

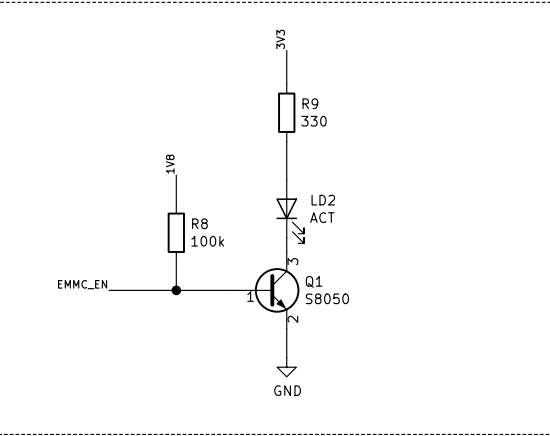
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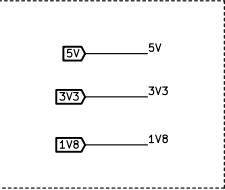
CM3 Power



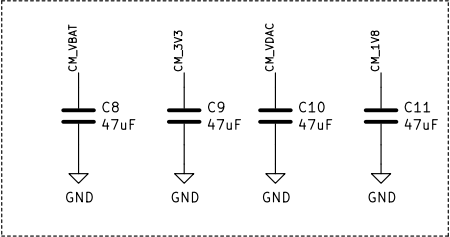
Act. LED



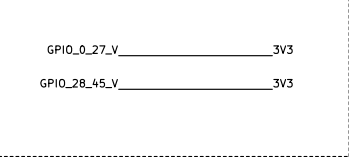
Power Lbl.



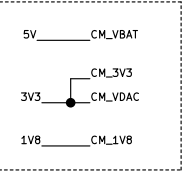
Bypass Capacitors



GPIO Voltage



Local Voltage



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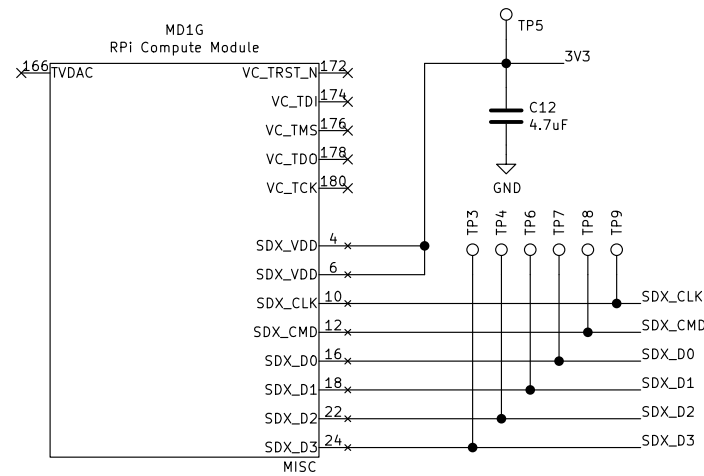
Sheet: /CM\_Power/  
File: CM\_Power.sch

Title: Jupiter Model A

Size: User Date: 2020-05-23  
KiCad E.D.A. kicad (5.1.5)-3

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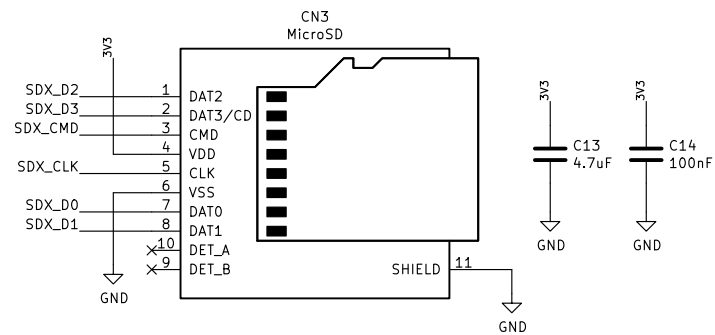
## CM SD Card



## Power Lbl.

3V3

## SD Card Connector



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Sheet: /SD\_Card/  
File: SD\_Card.sch

**Title: Jupiter Model A**

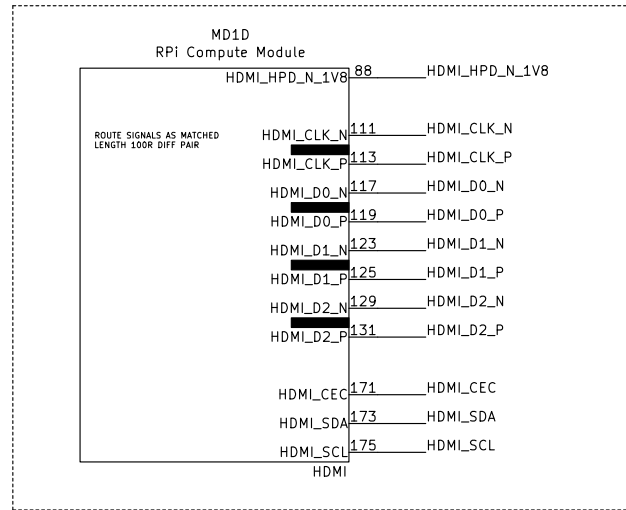
Size: A4 Date: 2020-05-23

KiCad E.D.A. kicad (5.1.5)-3

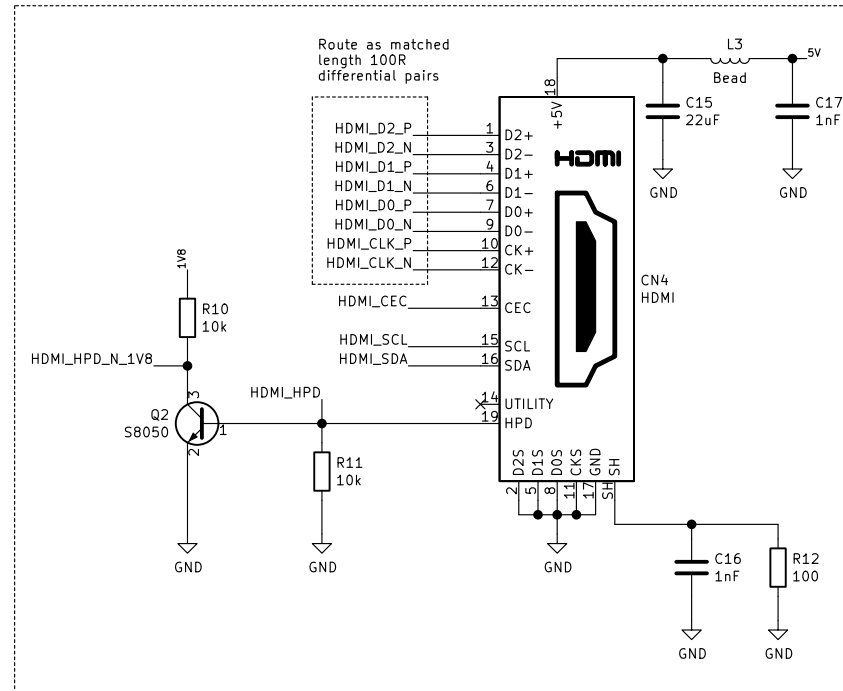
**Rev: 0.1**

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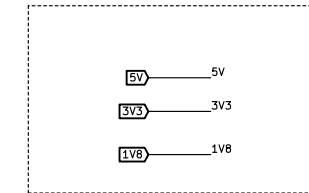
## CM HDMI Int.



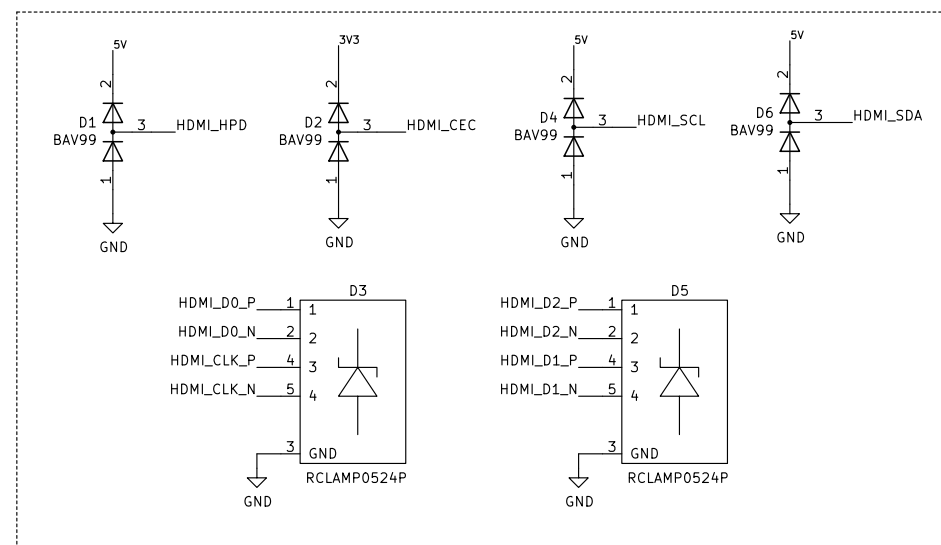
## HDMI Conn.



## Power Lbl.



## HDMI Clamps



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Sheet: /HDMI/

File: HDMI.sch

Title: Jupiter Model A

Size: A4 Date: 2020-05-23

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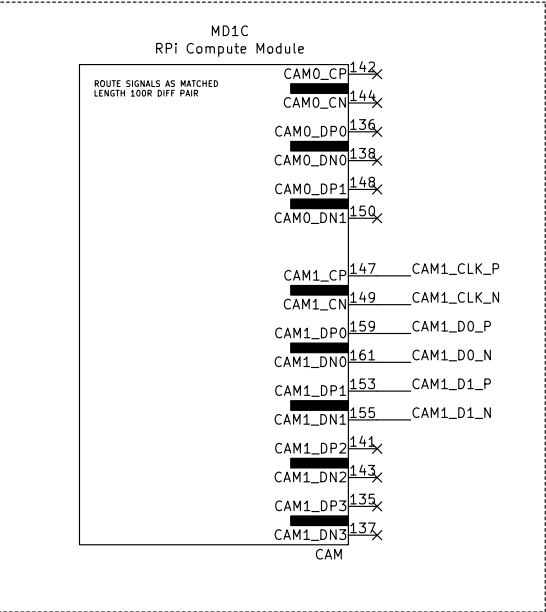
Diagram showing three parallel branches connected to a 12V source. The first branch contains a 5V source and a 3V3 resistor. The second branch contains a 3V3 source and a 1V8 resistor. The third branch contains a 1V8 source and a 5V resistor.

[illegible]

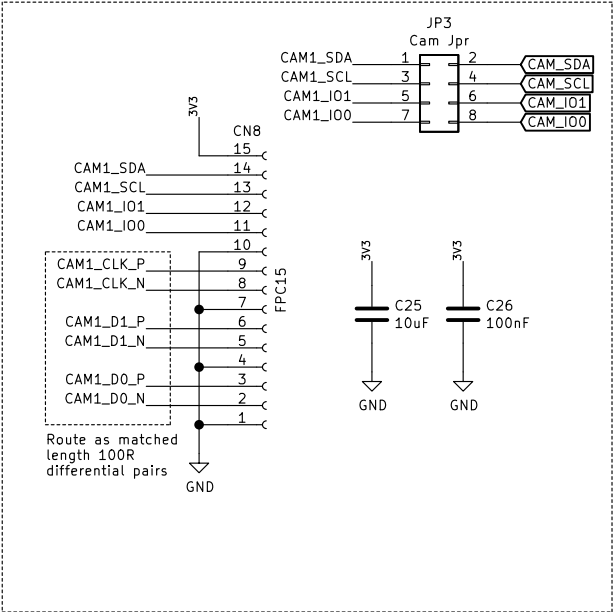
The diagram shows two MIC2026-1BM voltage regulators, U5 and U6, connected to a power supply. U5 is connected to USB\_H\_DNS2\_PWR, USB\_H\_DNS2\_OCS, USB\_H\_DNS3\_PWR, USB\_H\_DNS3\_OCS, 5V, and GND. U6 is connected to USB\_H\_DNS4\_PWR, USB\_H\_DNS4\_OCS, 5V, and GND. Both regulators have their ENA/FLGA pins connected to 5V and their ENB/FLGB pins connected to GND. The output of U5 (OUTA) is connected to USB\_H2\_VBUS, and the output of U6 (OUTA) is connected to USB\_H4\_VBUS.

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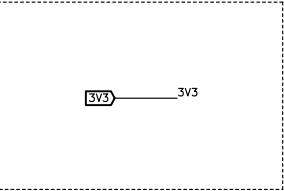
CM CAM



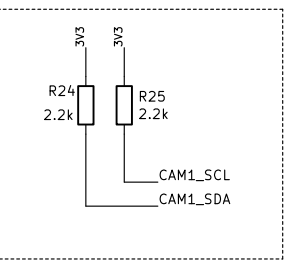
CAM Connector



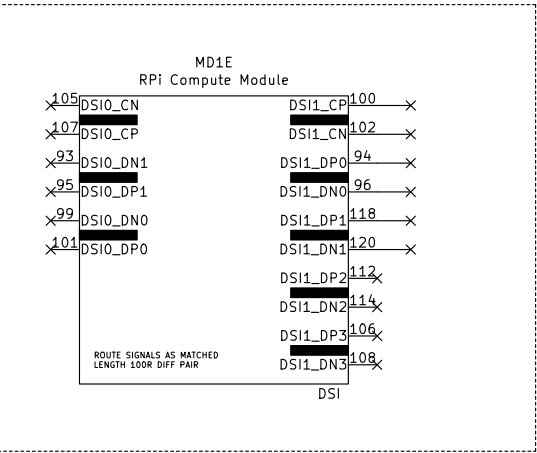
Power Lbl.



CAM/DIS I2C PU



CM Display



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Sheet: /Cam\_Dis/

File: Cam\_Dis.sch

Title: Jupiter Model A

Size: A4

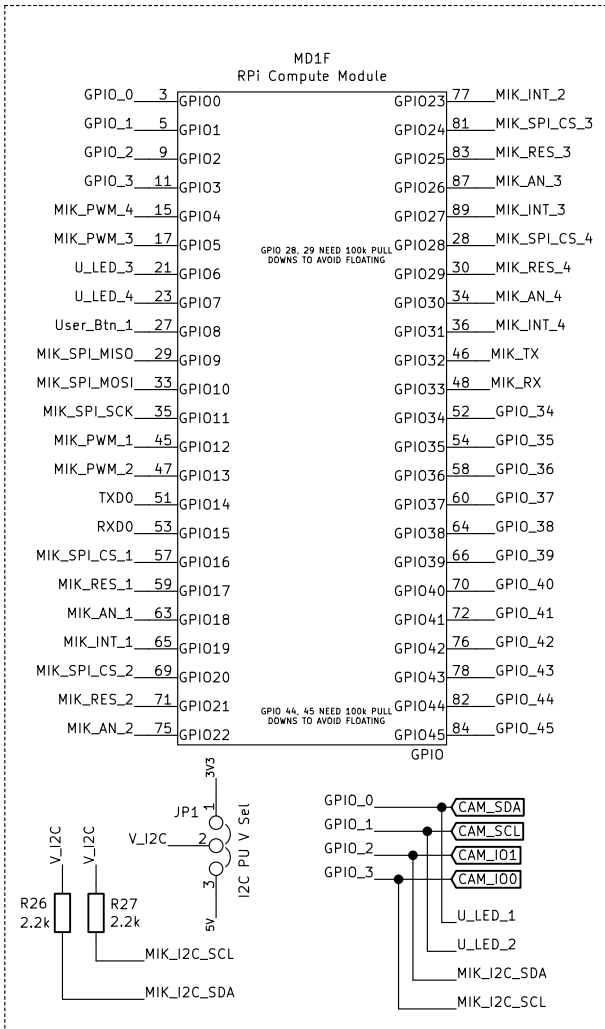
Date: 2020-05-23

KiCad E.D.A. kicad (5.1.5)-3

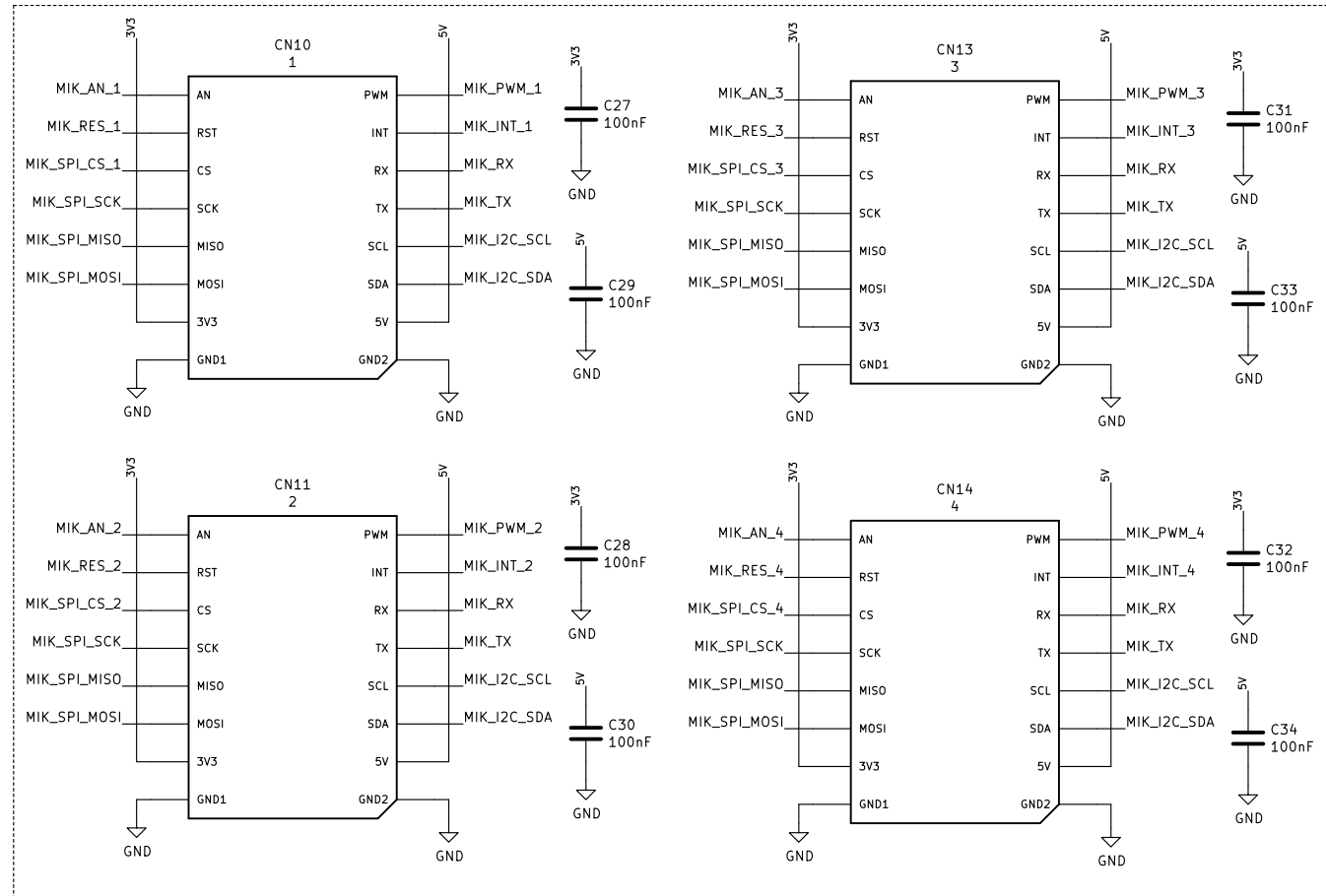
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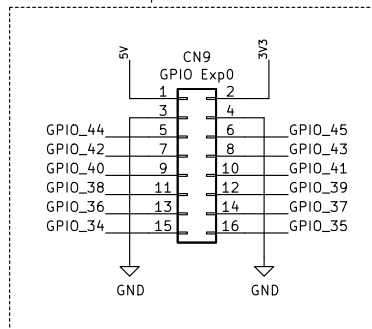
## CM Mikrobus Int.



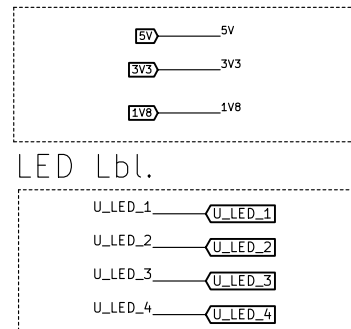
## Mikrobus Sockets



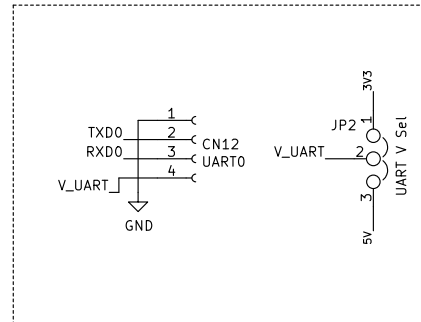
## GPIO Exp.



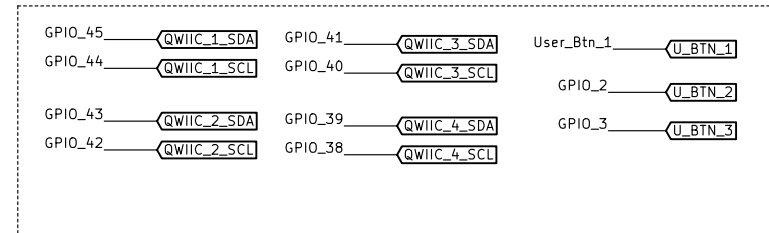
## Power Lbl.



## UART 0



## IO Lbl.



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Sheet: /MikroBus\_Exp/  
File: MikroBus\_Exp.sch

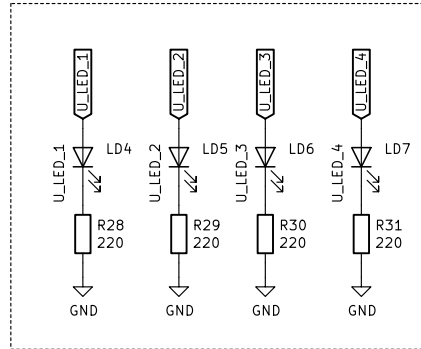
Title: Jupiter Model A

Size: User Date: 2020-05-23  
KiCad E.D.A. kicad (5.1.5)-3

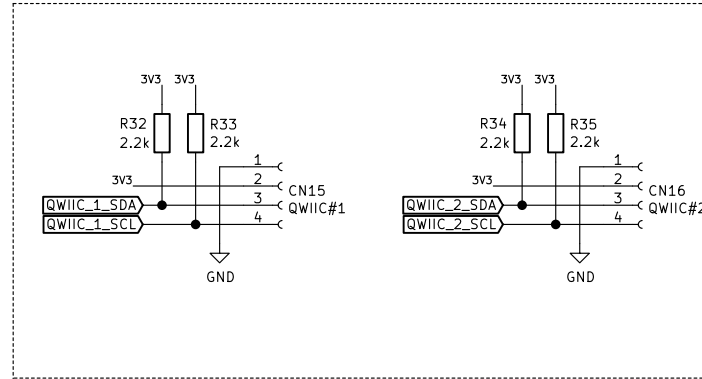
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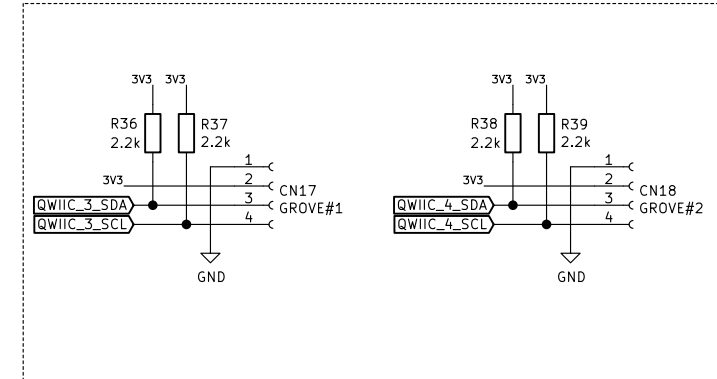
## LEDs



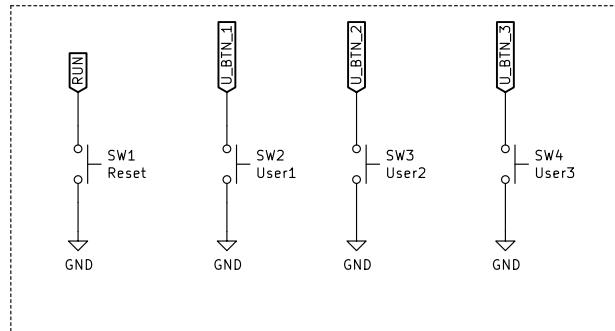
## QWIIC Exp.



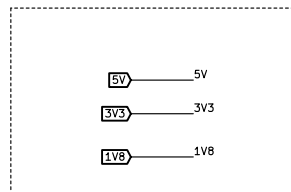
## GROVE Exp.



## Buttons



## Power Lbl.



Sheet: /Expansions/  
File: Expansions.sch

### Title:

Size: A4 Date:  
KiCad E.D.A. kicad (5.1.5)-3

Rev:  
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