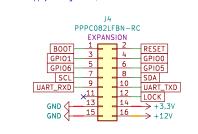


## **EXPANSION PORT**

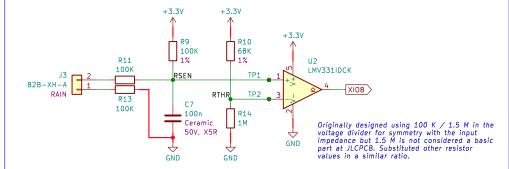
Header for accessories and factory programming

- GPIOO, GPIO1, GPIO5, GPIO6 can be used for any purpose
- UART\_RXD and UART\_TXD provide the serial port - SCL and SDA provide the I2C bus (QWIIC)
- RESET and BOOT are wired in parallel with their
- corresponding buttons (active low)
- LOCK engages the safety lock (active low)
   12 V supply is unregulated, 1 A current available
   3.3 V supply is regulated, 600 mA current available



### RAIN SENSOR

The rain sensor is only available on model 4500K; these components may be omitted for other models It is simply a pair of electrodes that are exposed to the environment and whose impedance is about 0.5 to 1.2 Mohm when in contact with water or mist and open circuit when dry The comparator pulls the output low when V(RSEN) < V(RTHR) + V(OFFSET), where V(OFFSET) is +/-5 mV for LMV331X



## SAFETY LOCK

While the input is tied to ground, stops the fan, closes the lid, and inhibits operation



github.com/j9brown/minuet

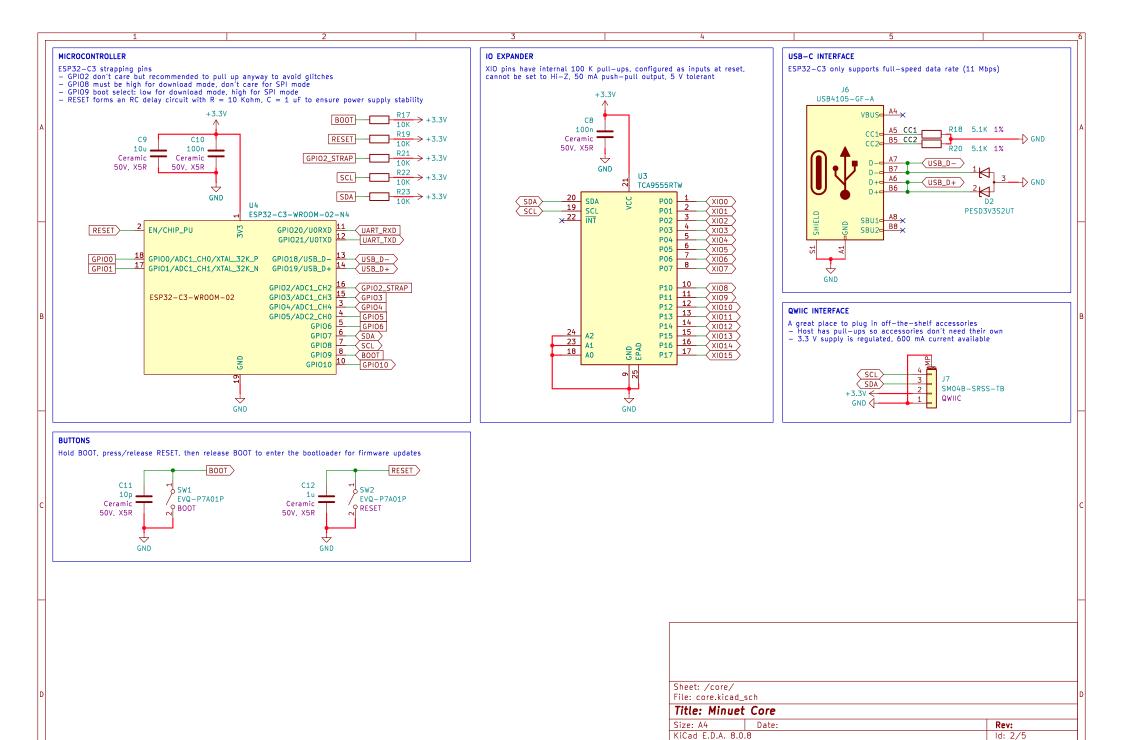
### **Brown Studios LLC**

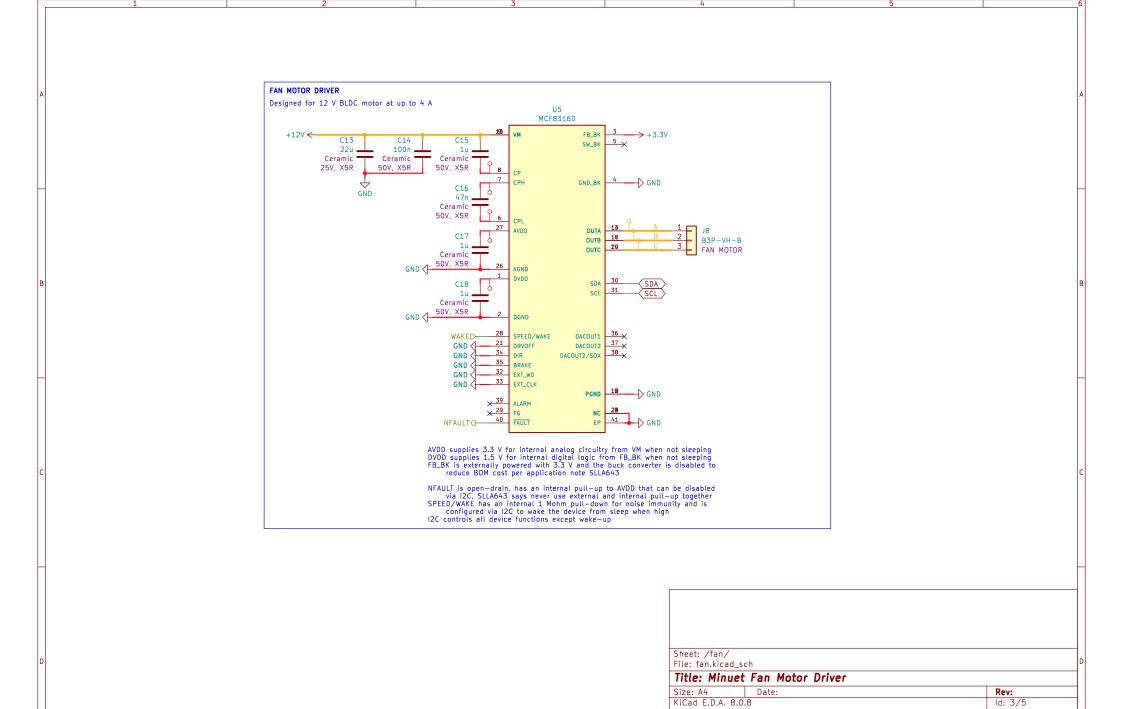
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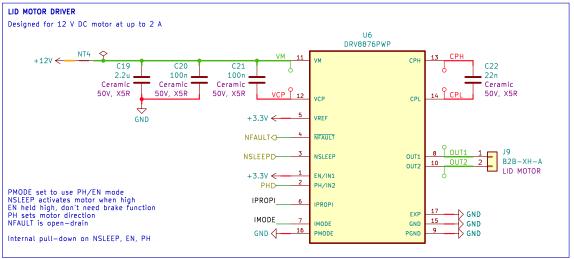
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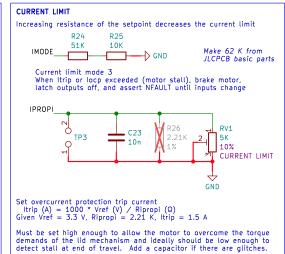
# Title: Minuet Fan Controller

Size: A4	Date: 2025-06		Rev: v3.0	
KiCad E.D.A. 8.0.8		ld: 1/5		









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Title: Minuet Lid Motor Driver

Size: A4 | Date: Rev:
KiCad E.D.A. 8.0.8 | Id: 4/5

