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Version	Release Date	Comments
ET_RN_PR_02	11/10/2018	

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The schematic diagram illustrates the internal components and connections of a microcontroller system (MCU). The central component is the Micro controller (MCU), which is connected to various peripheral components and power sources.

Power and Grounding:

- The system is powered by VDD_3.3V and VDD_3.3V_FB.
- Grounding is established through GND connections for various components.

Micro controller (MCU):

- The MCU is connected to VDD_3.3V and VDD_3.3V_FB.
- It features multiple pins for power, ground, and signal connections.

Peripheral Components:

- USB-COM-5PIN-105017-0001:** A USB-to-UART bridge component connected to the MCU's UART pins.
- U4A:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4B:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4C:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4D:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4E:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4F:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4G:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4H:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4I:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4J:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4K:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4L:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4M:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4N:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4O:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4P:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4Q:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4R:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4S:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4T:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4U:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4V:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4W:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4X:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4Y:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4Z:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.

Indication LEDs:

- Four LEDs (LED1, LED2, LED3, LED4) are connected to the MCU's VDD_3.3V and GND pins.

Flash Memory:

- The Flash Memory (U7) is connected to the MCU's VDD_3.3V and GND pins.

Controller:

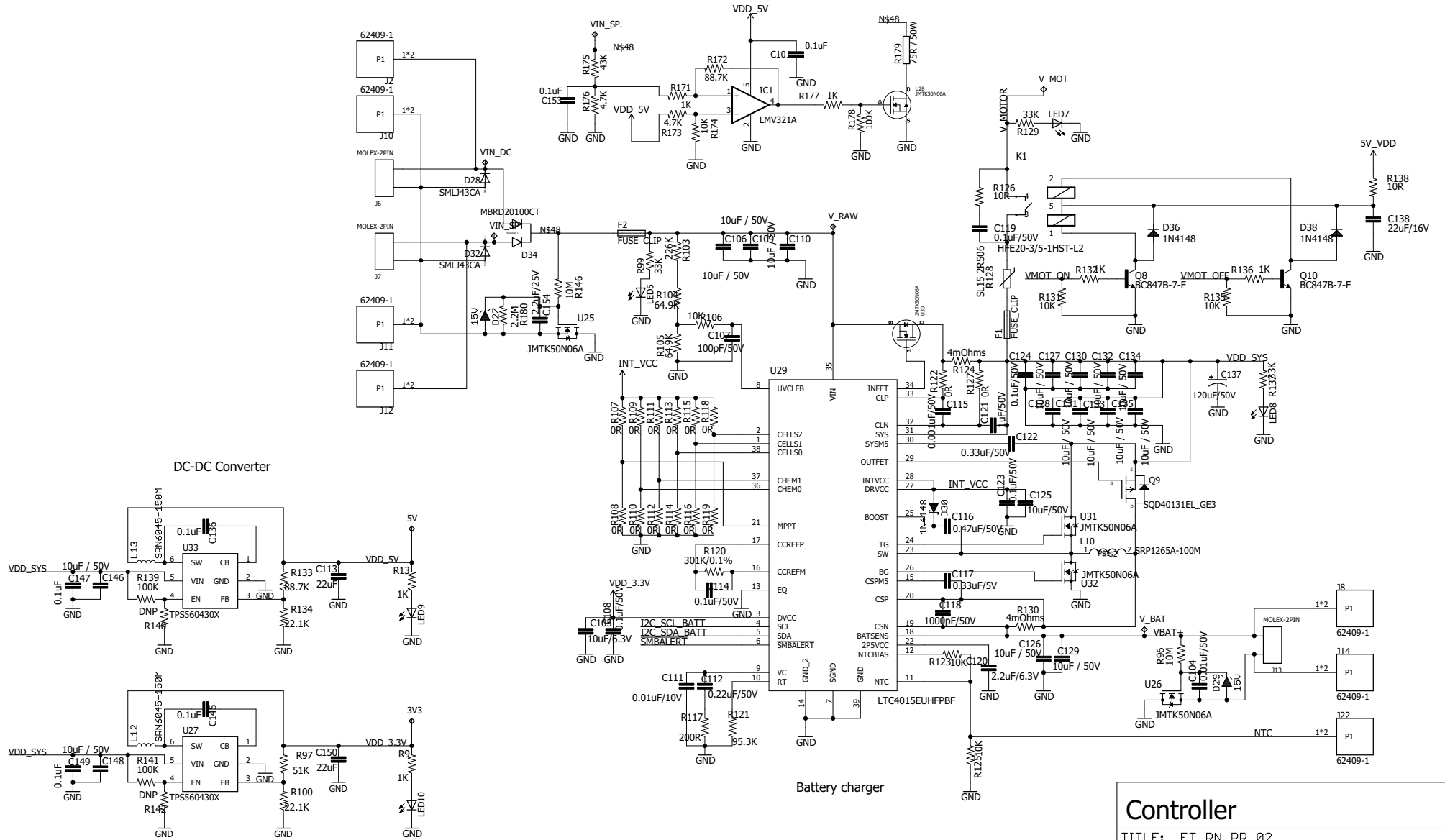
- The Controller (U8) is connected to the MCU's VDD_3.3V and GND pins.

Other Components:

- U1:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U2:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U3:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U4:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U5:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U6:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U7:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U8:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U9:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U10:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U11:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U12:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U13:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U14:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U15:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U16:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U17:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U18:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U19:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U20:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U21:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U22:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U23:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U24:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U25:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U26:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U27:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U28:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U29:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U30:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U31:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U32:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U33:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U34:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U35:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U36:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U37:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U38:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U39:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U40:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U41:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U42:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U43:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U44:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U45:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U46:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U47:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U48:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U49:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.
- U50:** A component connected to the MCU's VDD_3.3V and VDD_3.3V_FB pins.

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Power



Controller

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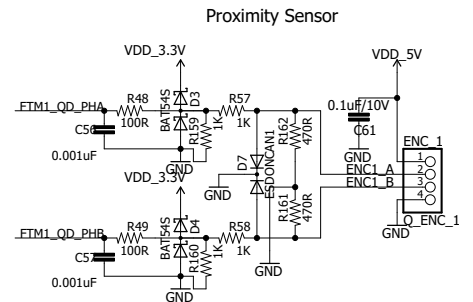
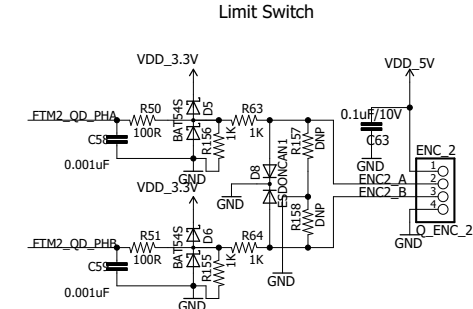
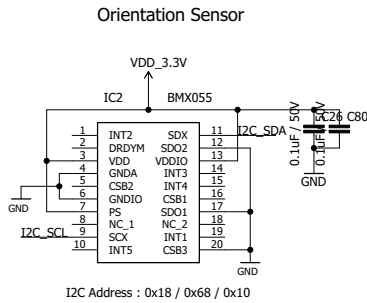
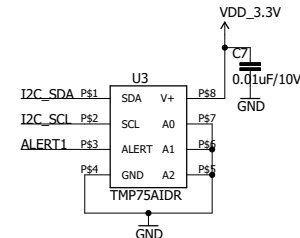
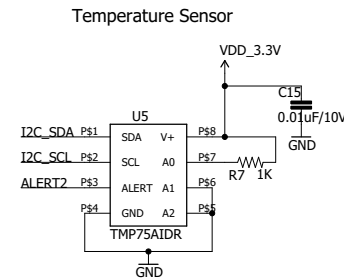
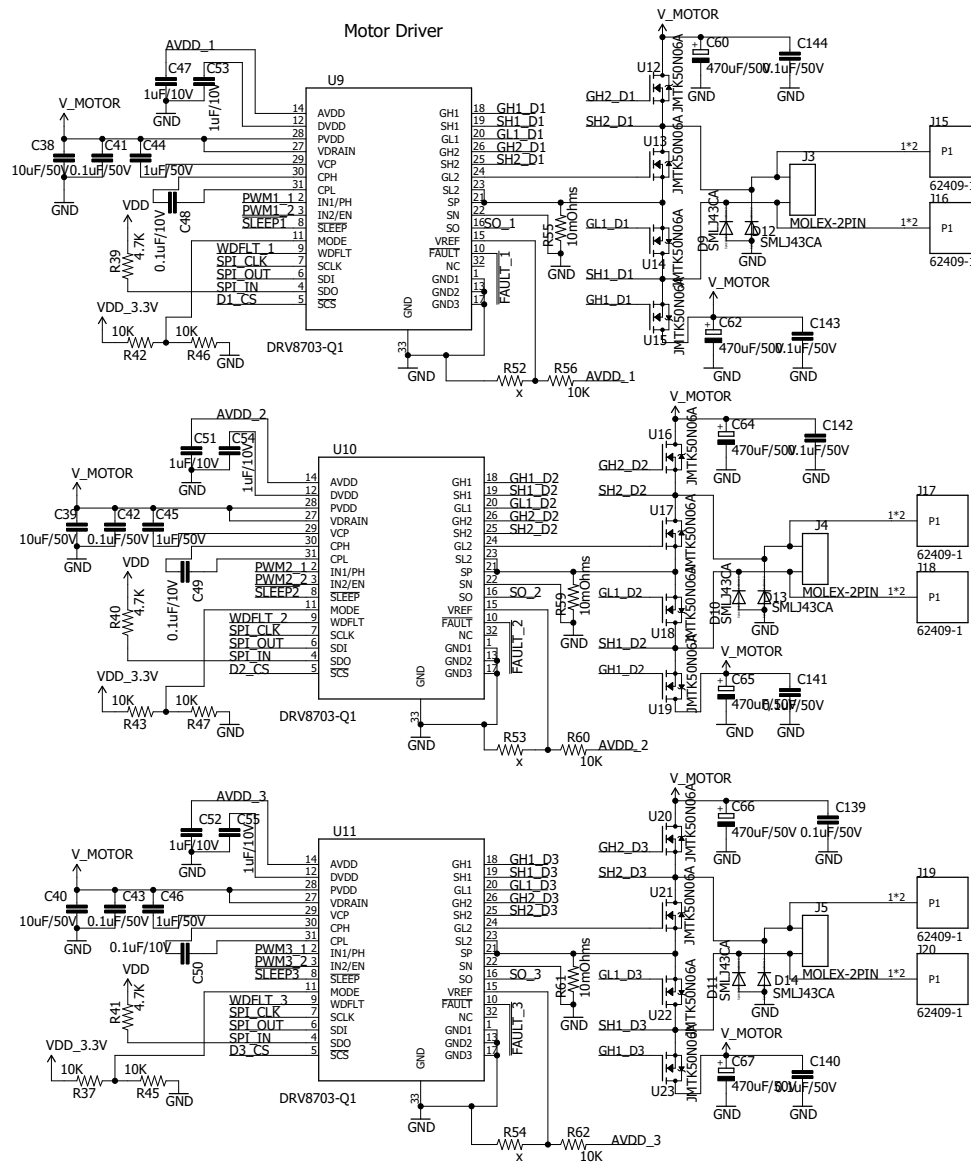
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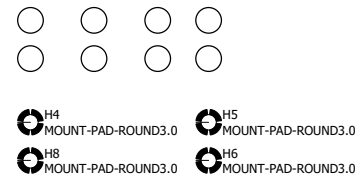
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Motor Driver& Sensors



Fiducial & Mounting Holes



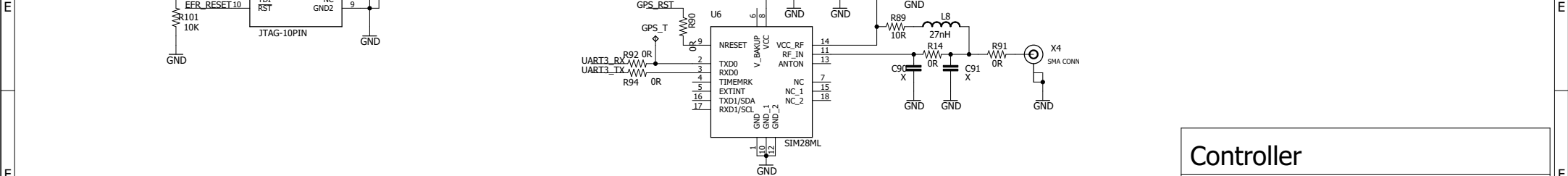
Controller

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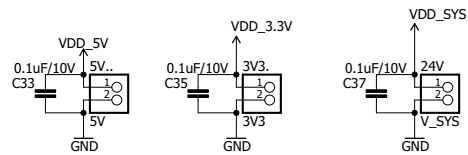
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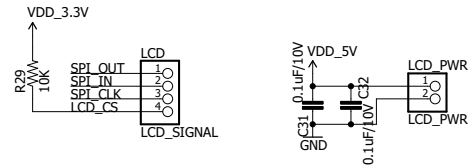
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External Interface

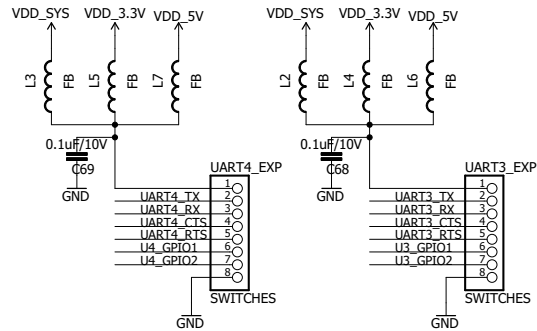
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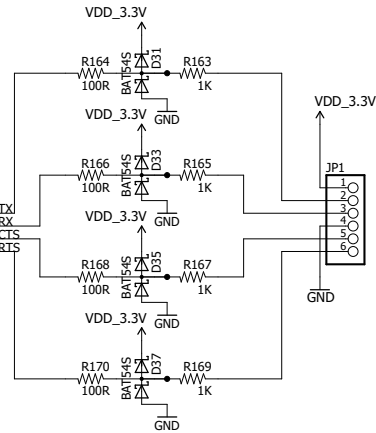
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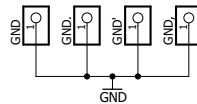
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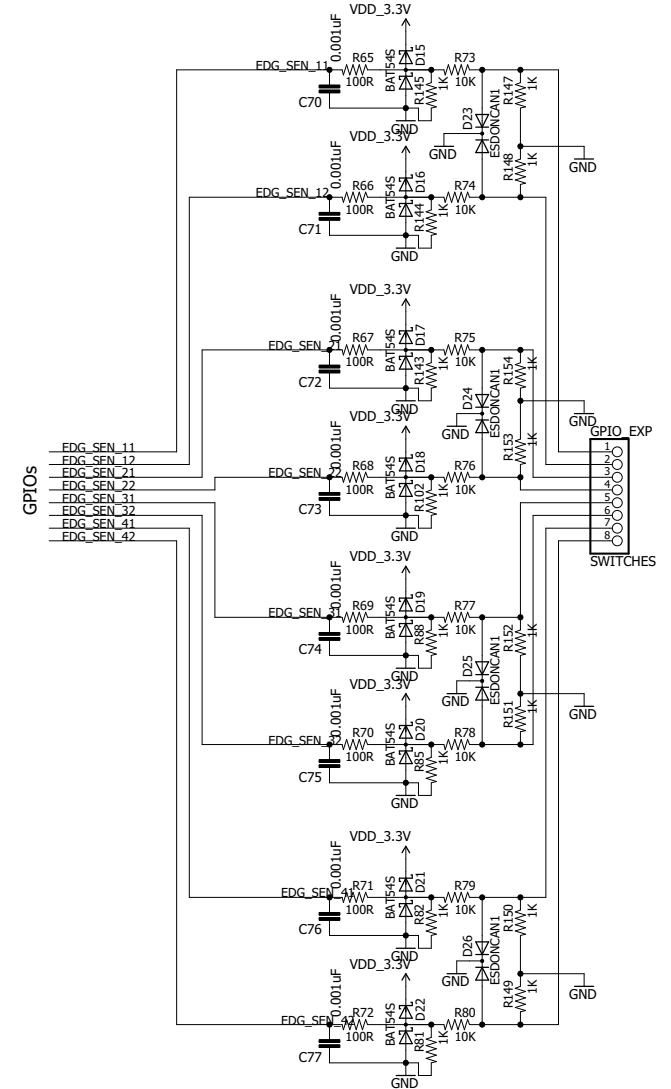
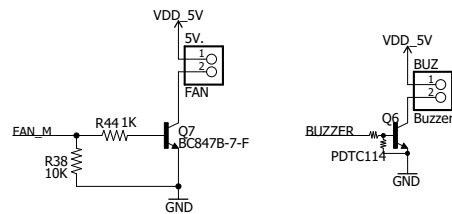
Config UART



Ground



Fan & Buzzer



Controller	
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