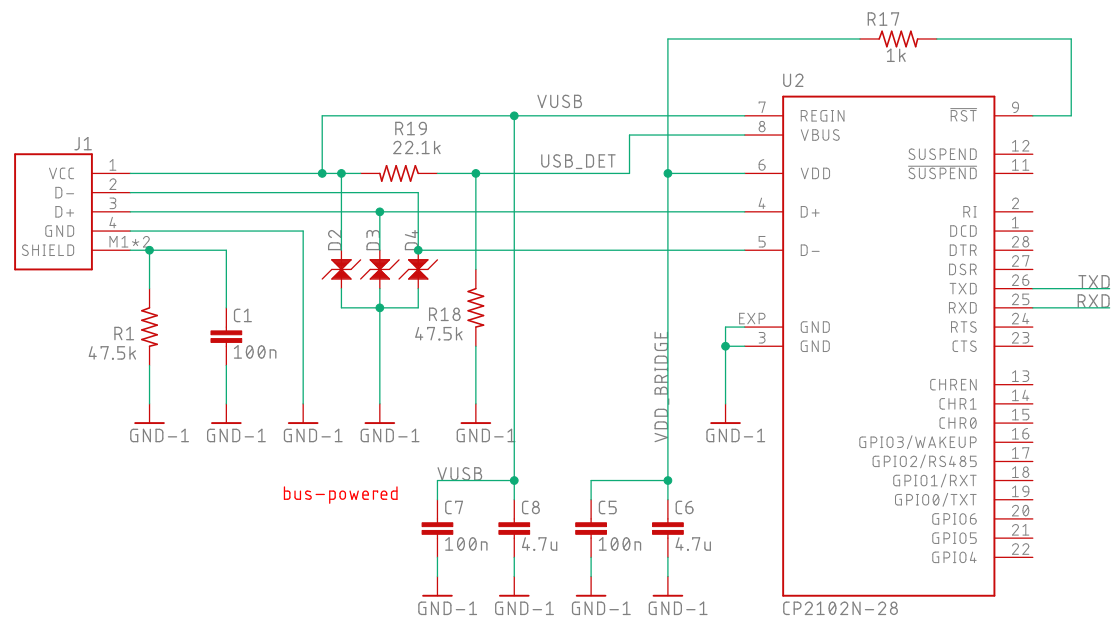


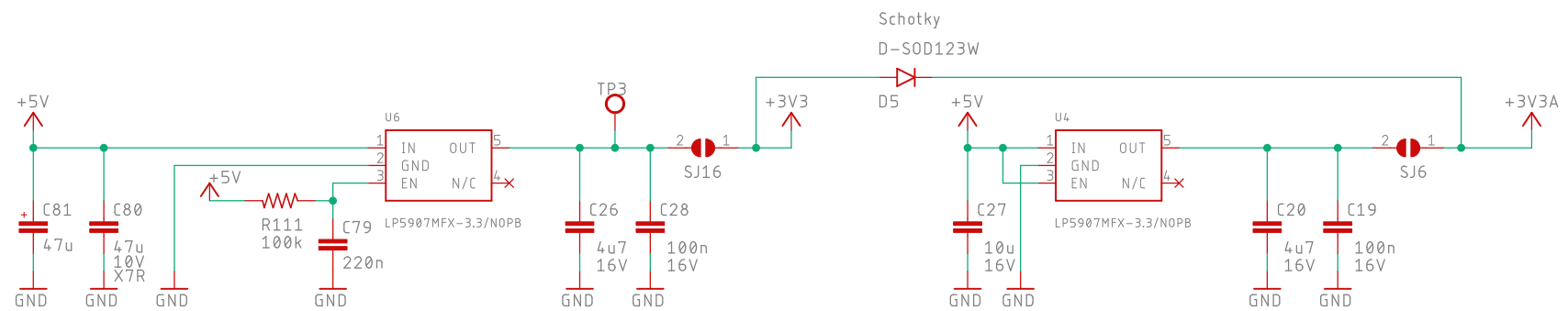
The diagram illustrates an isolated RS-485 interface circuit. At the top, a red box represents the ISO7721DR isolator, with pins numbered 1 through 8. Pin 1 is labeled VCC1, pin 2 is OUT_A, pin 3 is IN_B, pin 4 is GND1, pin 5 is GND2, pin 6 is OUT_B, pin 7 is INA_A, and pin 8 is VCC2. The isolator is connected to a USB interface (VUSB) on the left and a +5V supply on the right. A 100nF capacitor (C24) is connected between VUSB and GND-1. A 100nF capacitor (C25) is connected between +5V and GND. The USB_TXD signal (pin 6) is connected to the +5V supply through a 100Ω resistor (R16). The USB_RXD signal (pin 7) is connected to the +5V supply through a 100Ω resistor (R15). The USB_TXD signal (pin 6) is also connected to the TXD pin (pin 3) of the isolator. The USB_RXD signal (pin 7) is also connected to the RXD pin (pin 2) of the isolator. The TXD pin (pin 3) is connected to the TXD pin (pin 3) of the isolator. The RXD pin (pin 2) is connected to the RXD pin (pin 2) of the isolator. The TXD pin (pin 3) is connected to the TXD pin (pin 3) of the isolator. The RXD pin (pin 2) is connected to the RXD pin (pin 2) of the isolator.

USB-TTL MCU



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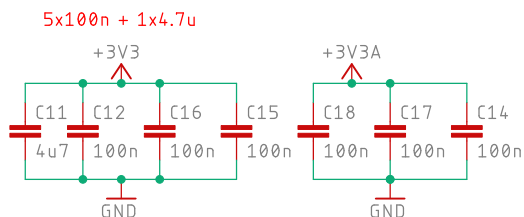
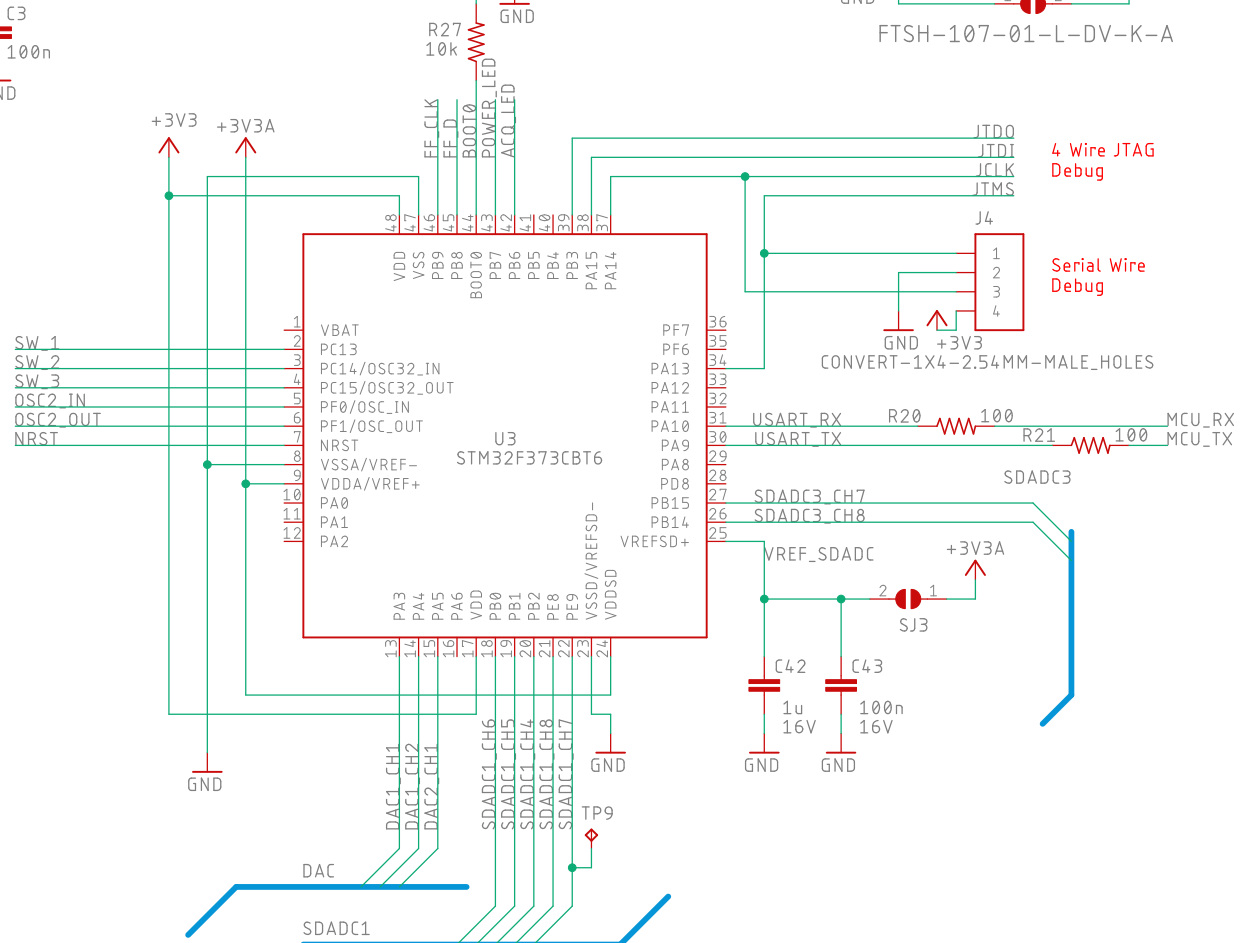
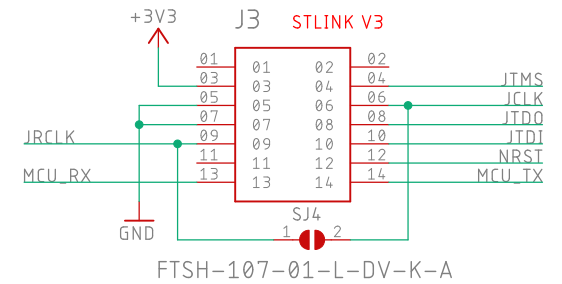
LDO and Voltage Reference

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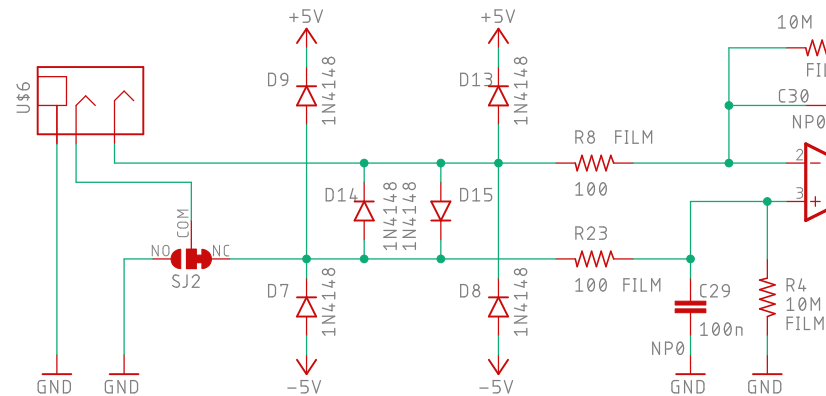
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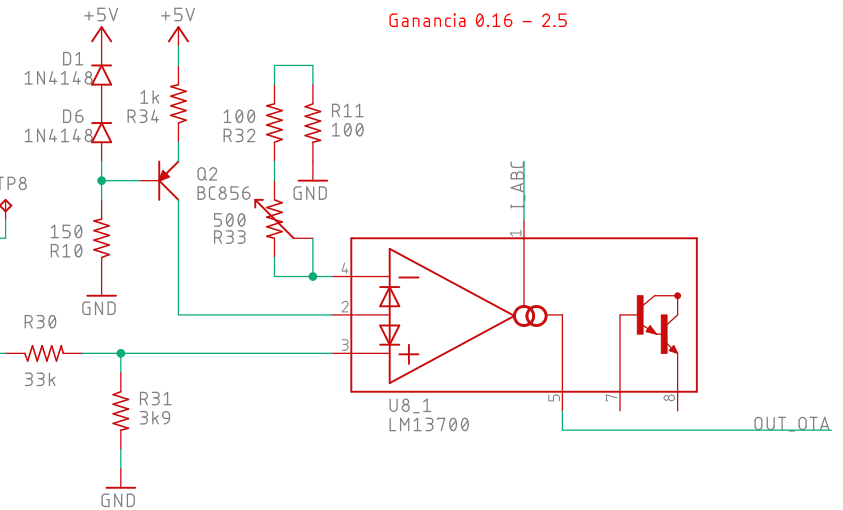
Version: 1.1

Differential Charge-Amp



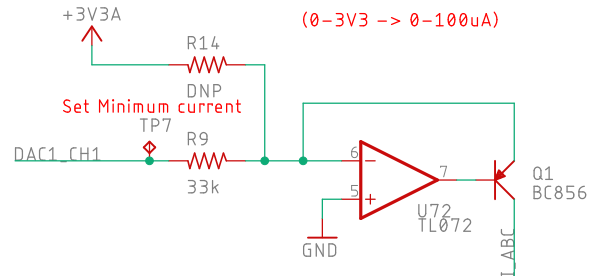
<https://www.ti.com/litv/pdf/slyt369>

Voltage Controlled Amplifier

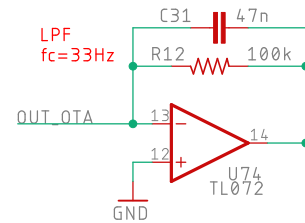


Voltage – Current Converter

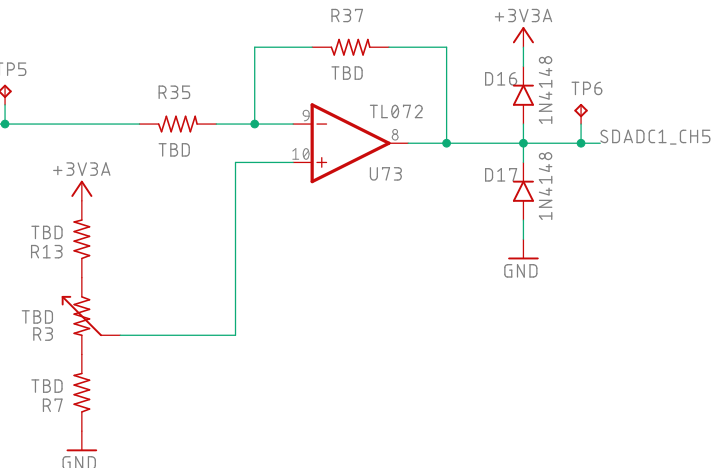
(0-3V3 -> 0-100uA)



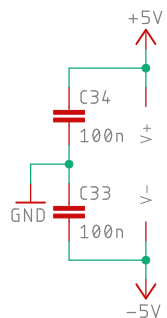
Current to Voltage



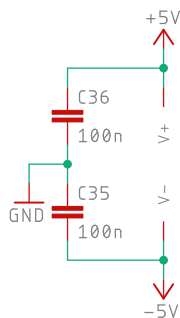
Amplifier and Offset



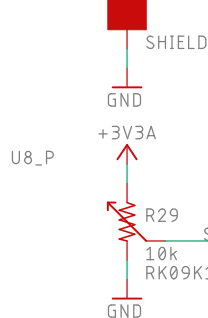
TL072
Power



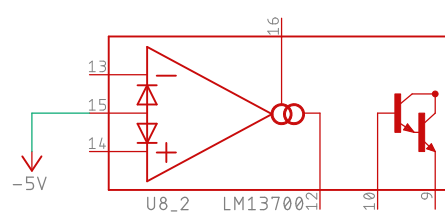
LM13700
Power



MS384-10F
MS384-10C



Unused LM13700 1/2



Front End

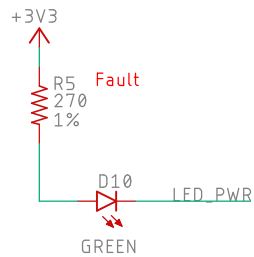
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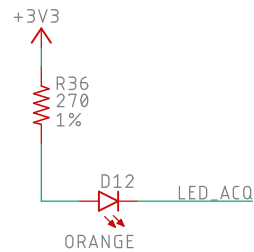
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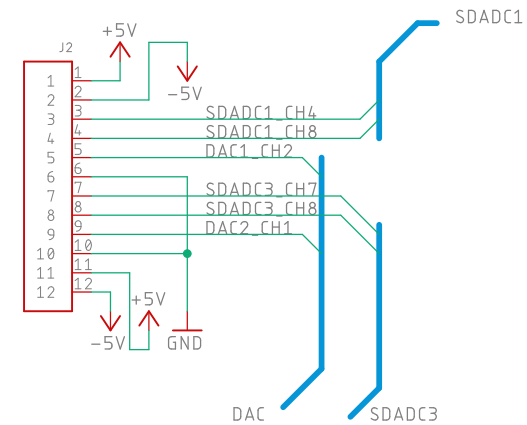
Power LED



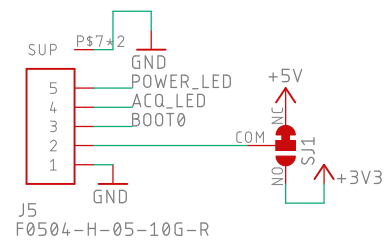
ACQ LED



Expansion Connector



Front Panel Connector



Status LEDs & Expansion Connectors

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