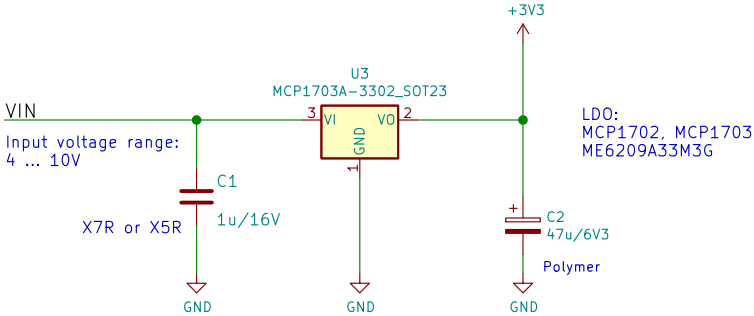
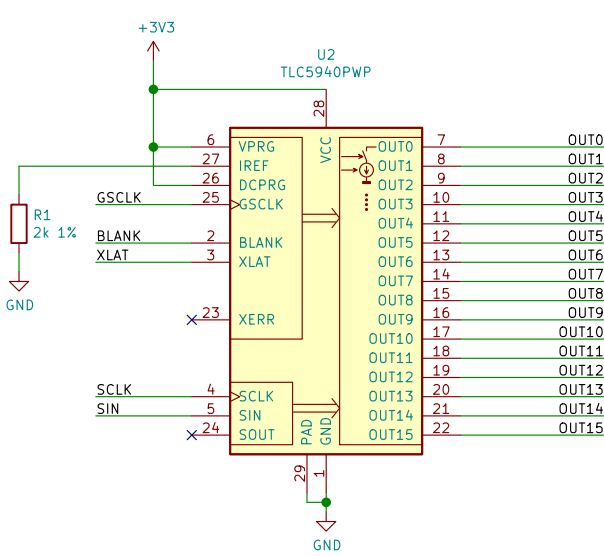


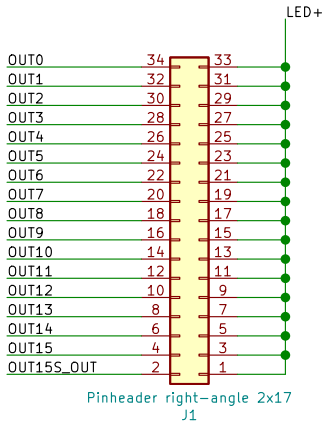
Voltage regulator



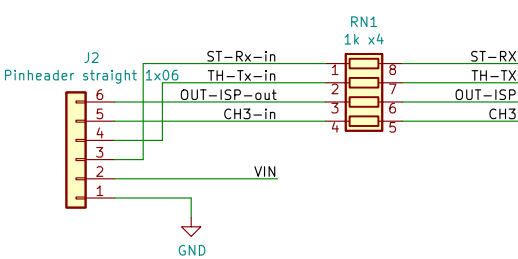
LED driver



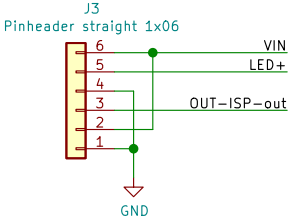
LED output



Servo/Pre-processor in/out

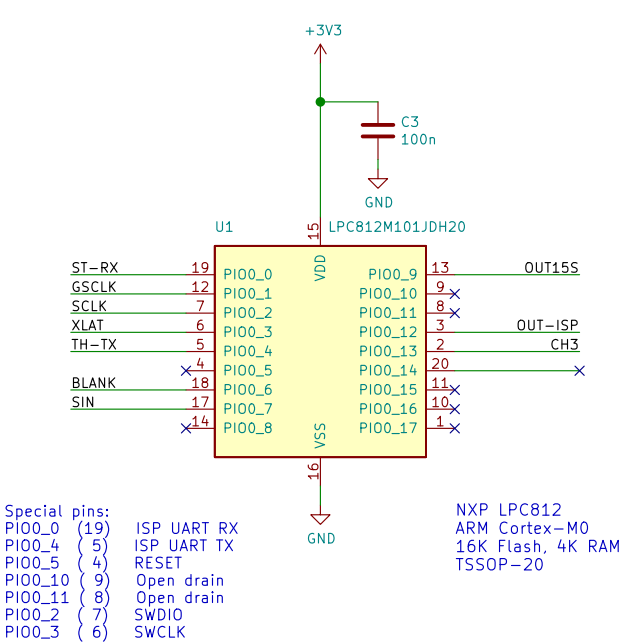


Output connector



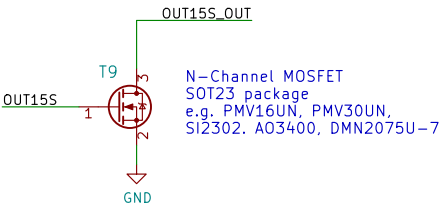
VIN1 is physically close to LED+. This allows two modes of operation:  
1) when VIN1 is connected to LED+ via a solder bridge, then the LEDs are powered from the receiver.  
2) A separate power supply can be connected to LED+ (and the nearby GND), e.g. for higher voltages

Microcontroller



PI00\_14 serves as detection whether the hardware has the TLC5940 or is the switching version. For TLC5940 it must be left floating (pull-up). For switching version it must be pulled to GND.

Switched output driver



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**LANE Boys RC**  
Sheet: /  
File: rc-light-controller-pinheader-lpc812.sch

**Title: DIY RC Light Controller Mk4 S**

Size: A3 Date: 2020-06-14  
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1

Rev: 1  
Id: 1/1