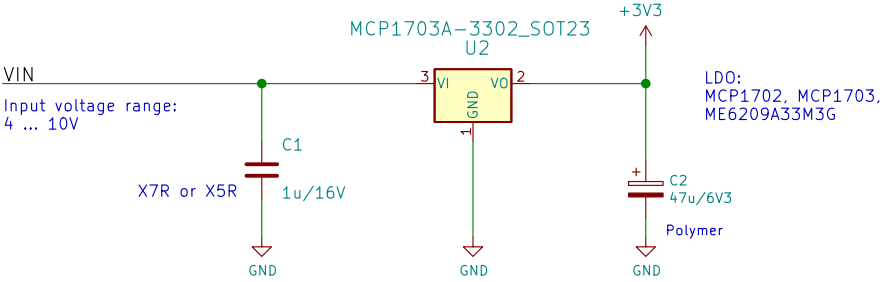
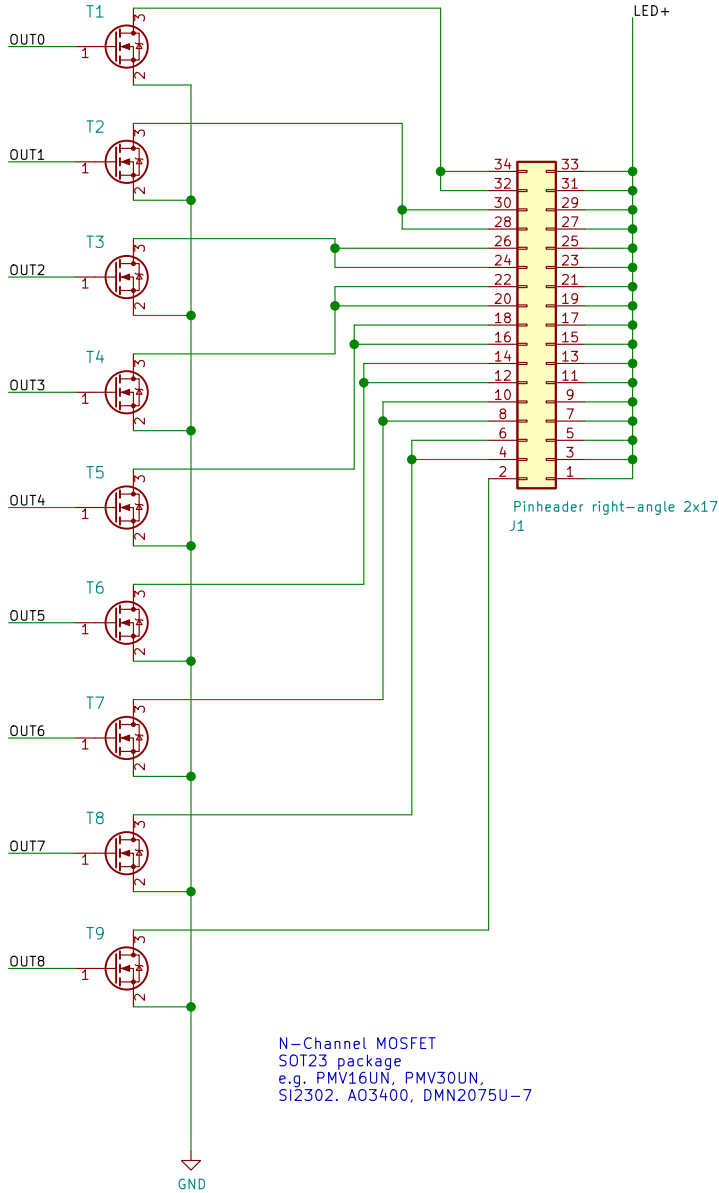


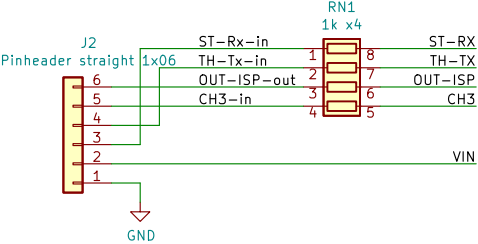
Voltage regulator



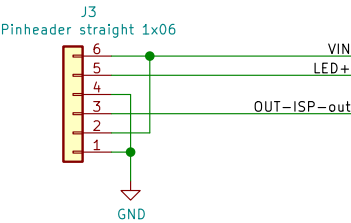
LED driver and outputs



Servo/Pre-processor in/out

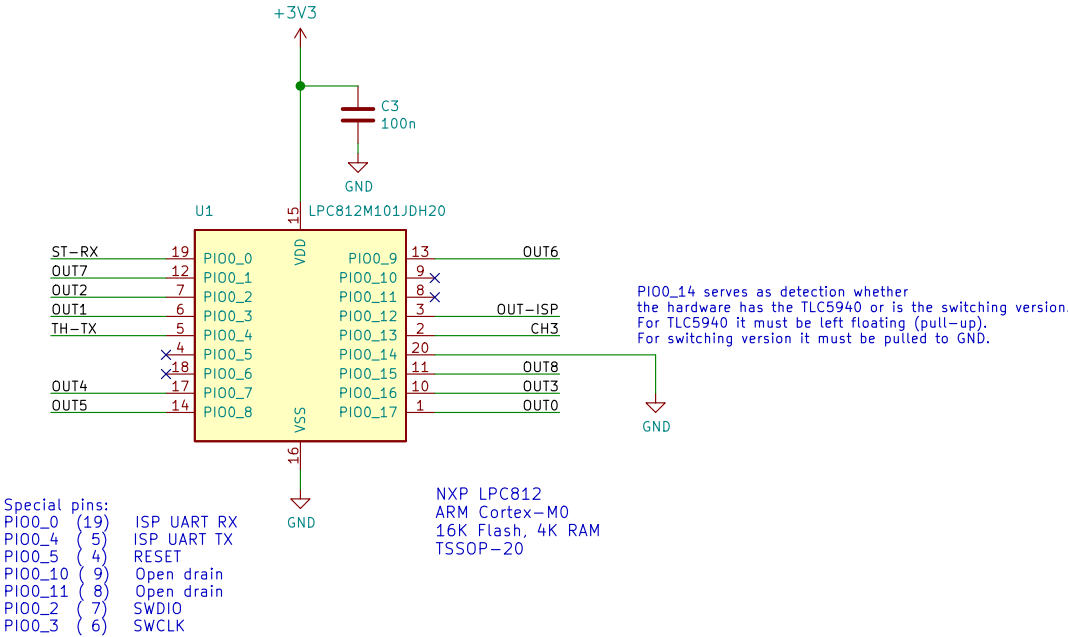


Output connector



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



Special pins:  
PIO0\_0 (19) ISP UART RX  
PIO0\_4 (5) ISP UART TX  
PIO0\_5 (4) RESET  
PIO0\_10 (9) Open drain  
PIO0\_11 (8) Open drain  
PIO0\_2 (7) SWDIO  
PIO0\_3 (6) SWCLK

NXP LPC812  
ARM Cortex-M0  
16K Flash, 4K RAM  
TSSOP-20



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LANE Boys RC  
Sheet: /  
File: rc-light-controller-switching-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