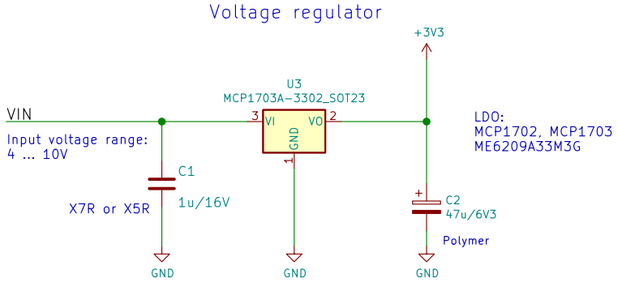
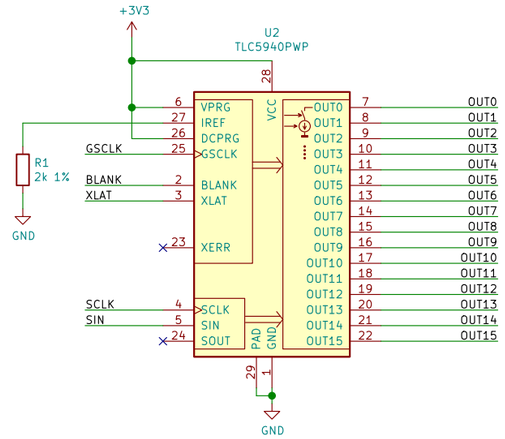
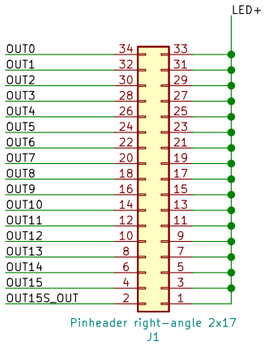
Voltage regulator



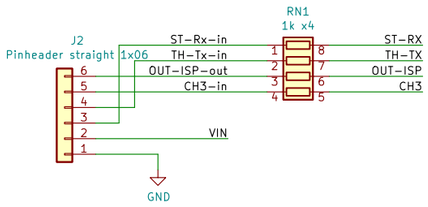
LED driver



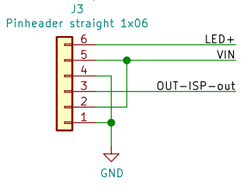
LED output



Servo/Pre-processor in/out

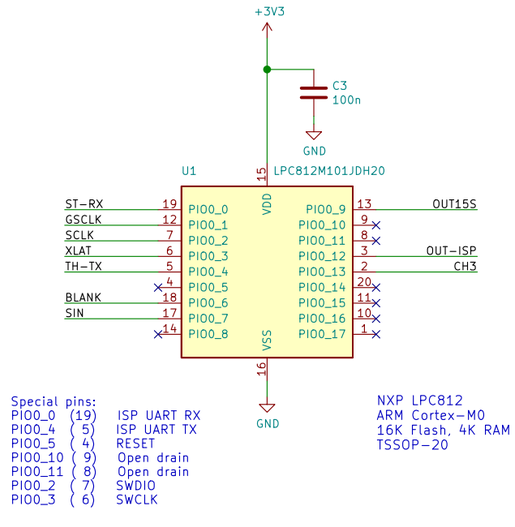


Output connector



VIN1 is physically close to LED+.
This allows two modes of operation:
1) when VIN1 is conntected 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

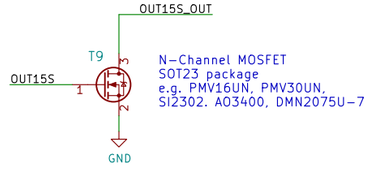
Microcontroller



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

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	**Rev: 1**
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1		Id: 1/1