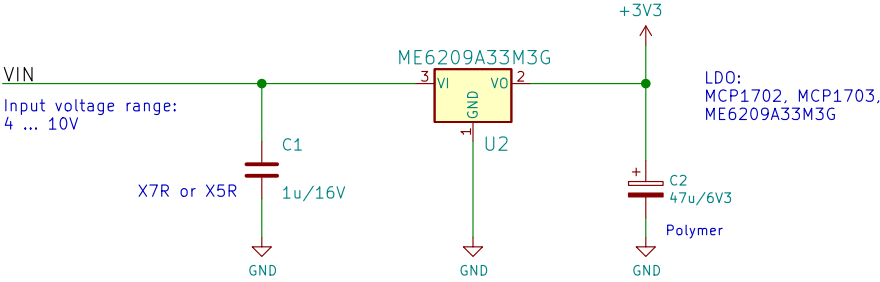
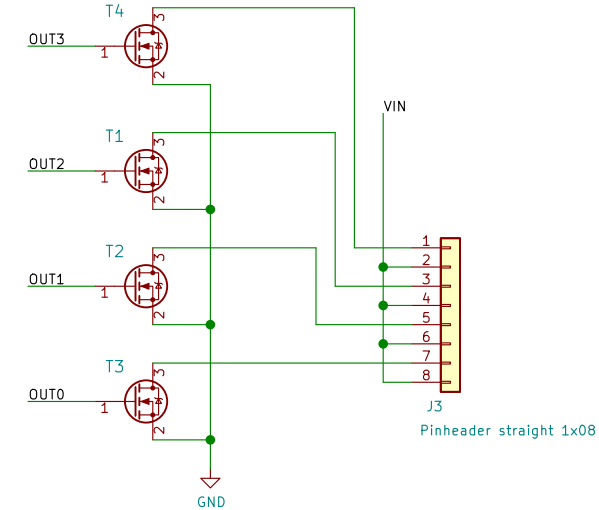


Voltage regulator

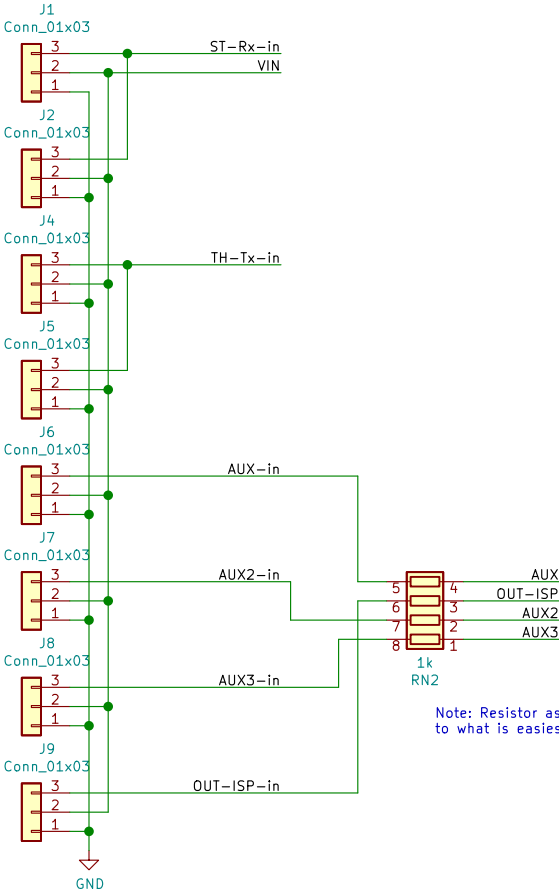


LED driver and outputs



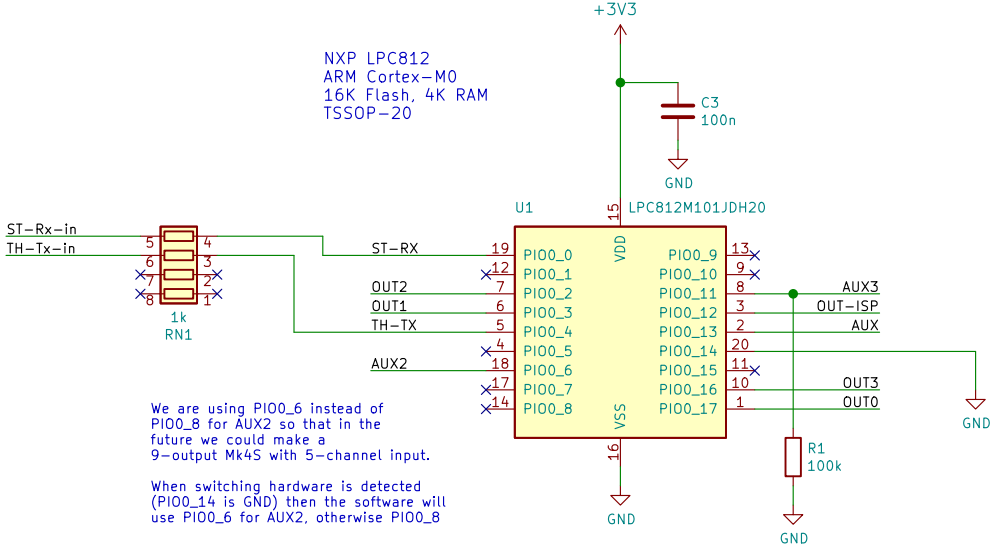
N-Channel MOSFET
SOT23 package
e.g. PMV16UN, PMV30UN,
SI2302, A03400, DMN2075U-7

Input connectors



Note: Resistor assignment according
to what is easiest for the layout

Microcontroller



We are using PI00_6 instead of
PI00_8 for AUX2 so that in the
future we could make a
9-output Mk4S with 5-channel input.
When switching hardware is detected
(PI00_14 is GND) then the software will
use PI00_6 for AUX2, otherwise PI00_8

Special pins:
PI00_0 (19) ISP UART RX
PI00_4 (5) ISP UART TX
PI00_5 (4) RESET
PI00_10 (9) Open drain
PI00_11 (8) Open drain
PI00_2 (7) SWDIO
PI00_3 (6) SWCLK

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.



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LANE Boys RC
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File: preprocessor-multi-aux-switching.sch

Title: **DIY RC Light Controller Mk4 S-mini5**

Size: A3 Date: 2021-01-04
KiCad E.D.A. kicad 5.1.10-88a1d61d5888ubuntu18.04.1

Rev: 1
Id: 1/1