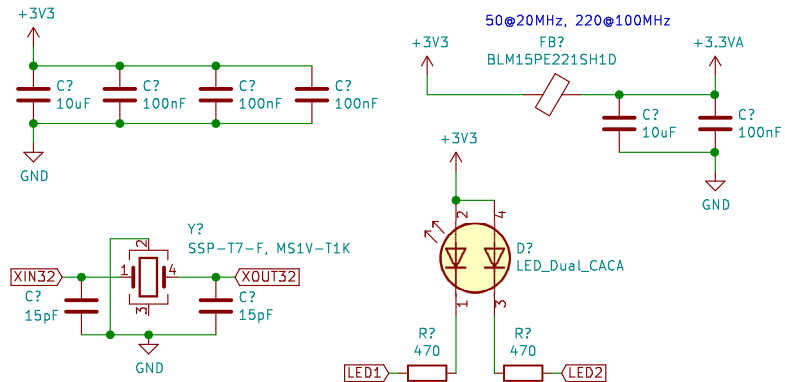
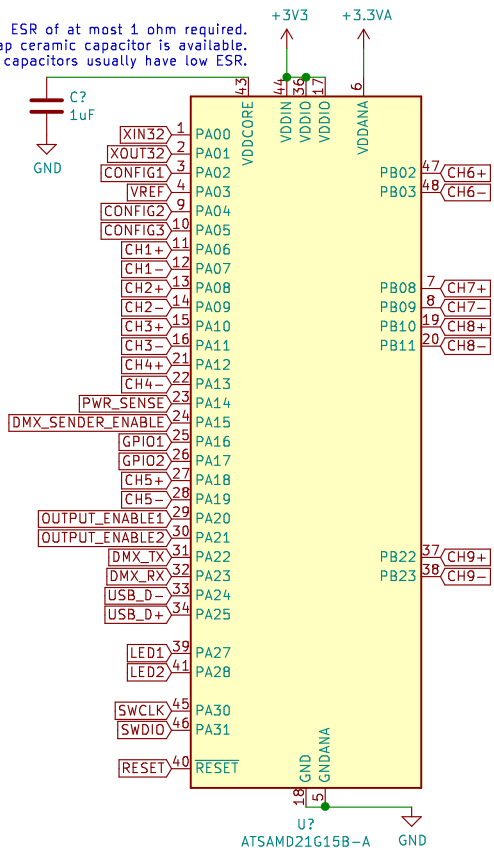


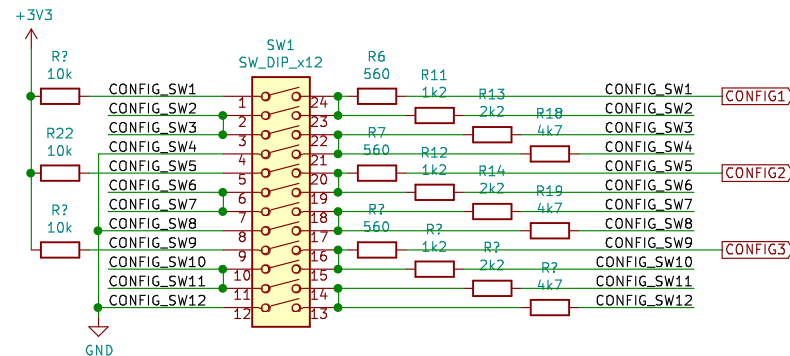
SAM D21 MCU



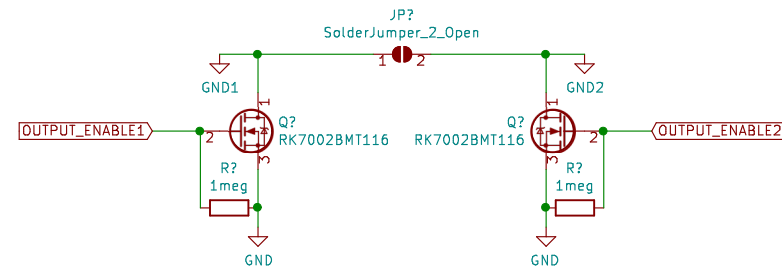
ESR of at most 1 ohm required.
However a cheap ceramic capacitor is available.
Ceramic capacitors usually have low ESR.



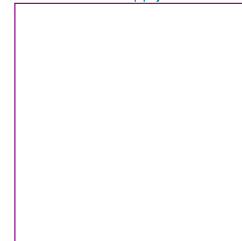
DMX channel switches



Output startup circuit

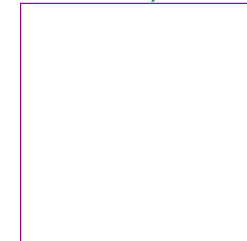


Sheet: Power supply



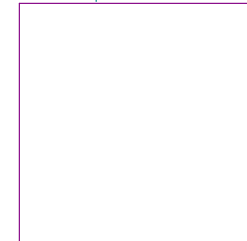
File: power.sch

Sheet: connectivity



File: connectivity.sch

Sheet: output



File: file62B628F1.sch

Light by Christian Baldus

Sheet: /

File: ELController.sch

Title: EL Controller

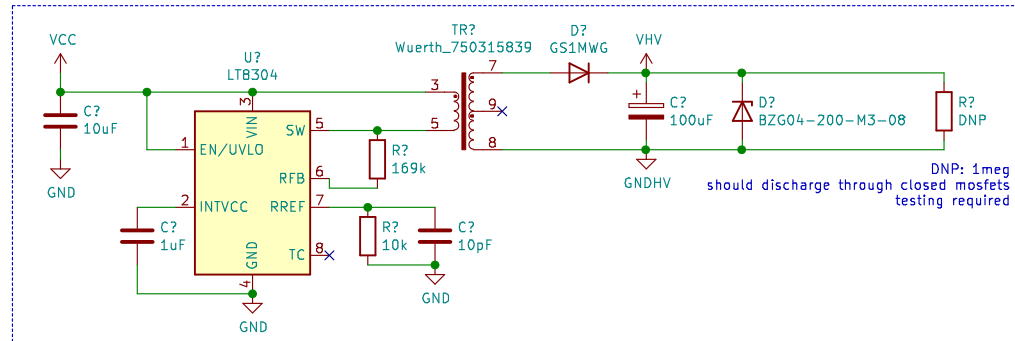
Size: A4 Date: 2022-01-22

KiCad E.D.A. kicad 5.1.12-1.fc35

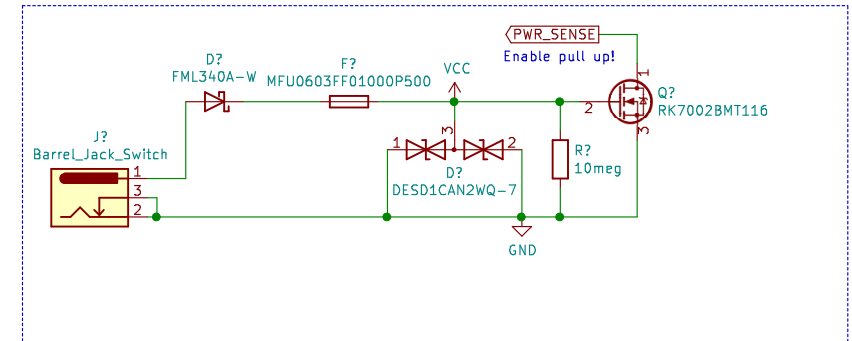
Rev: 1

Id: 1/4

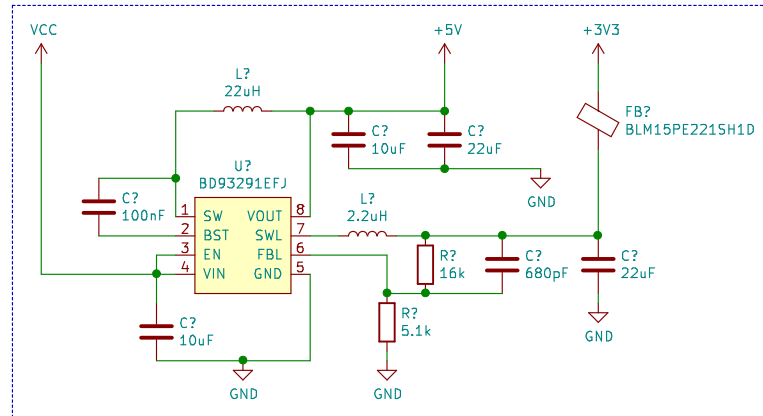
170V Power supply



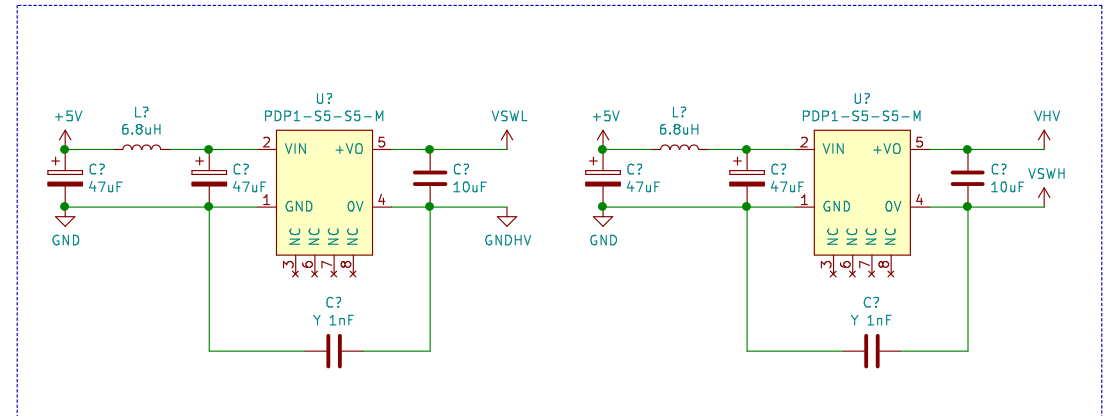
Power input



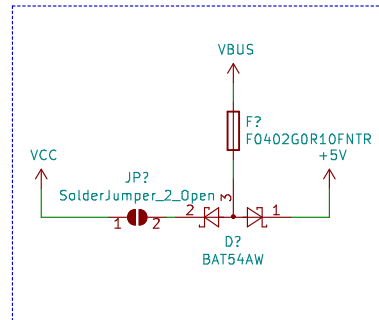
Logic power supply



High voltage switching supply



USB power input



Light by Christian Baldus

Sheet: /Power supply/

File: power.sch

Title: EL Controller

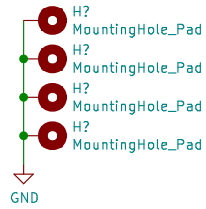
Size: A4 Date: 2022-01-22

KiCad E.D.A. kicad 5.1.12-1.fc35

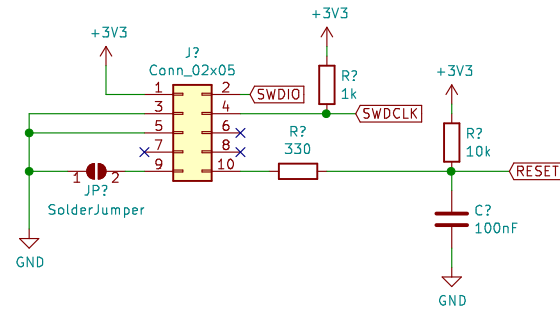
Rev: 1

Id: 2/4

Mounting

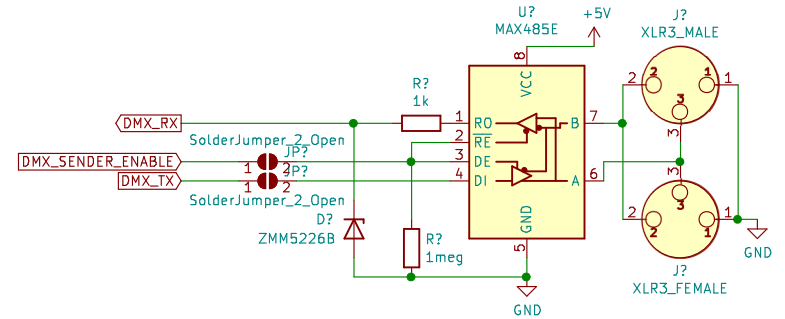


Programming connector

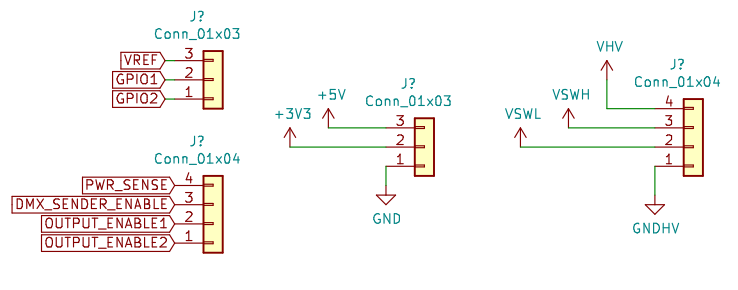


Do not place pullup and filtering cap if not necessary (test after assembly)

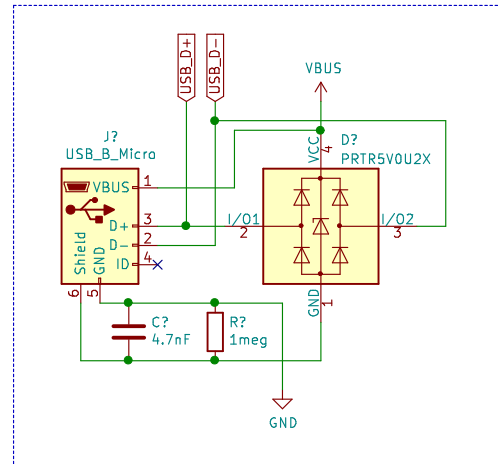
DMX



GPIO



USB



+5V PWR_FLAG

GND PWR_FLAG

Light by Christian Baldus

Sheet: /connectivity/
File: connectivity.sch

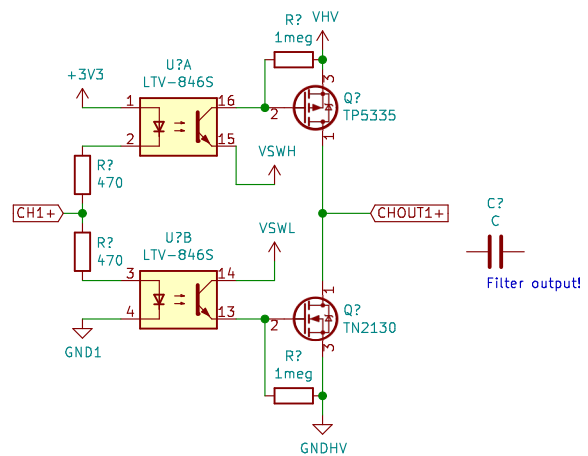
Title: EL Controller

Size: A4 Date: 2022-01-22

KiCad E.D.A. kicad 5.1.12-1.fc35

Rev: 1

Id: 3/4



Sheet: /output/
File: file62B628F1.sch

Title:

Size: A4
KiCad E.D.A. kicad 5.1.12-1.fc35

Date:

Rev:
Id: 4/4