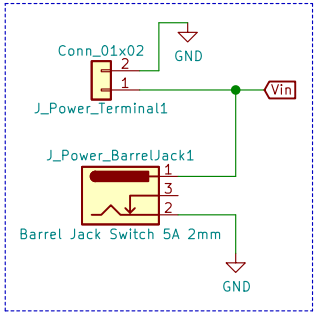
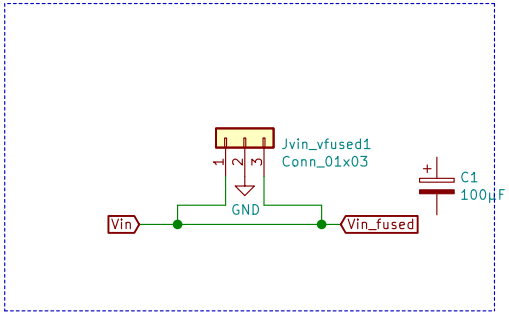
Add electric P-Fet fuse here ???
https://www.mouser.se/ProductDetail/Infineon-IR/AUIR3315STRL/
https://www.mouser.se/datasheet/2/196/auir3315-1225292.pdf

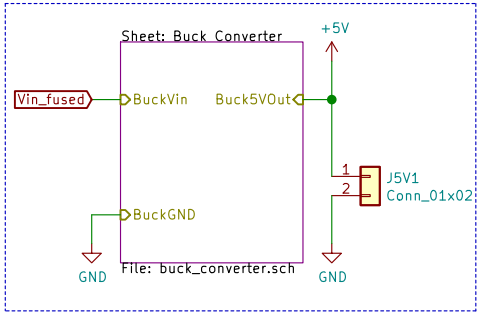
Input Connectors



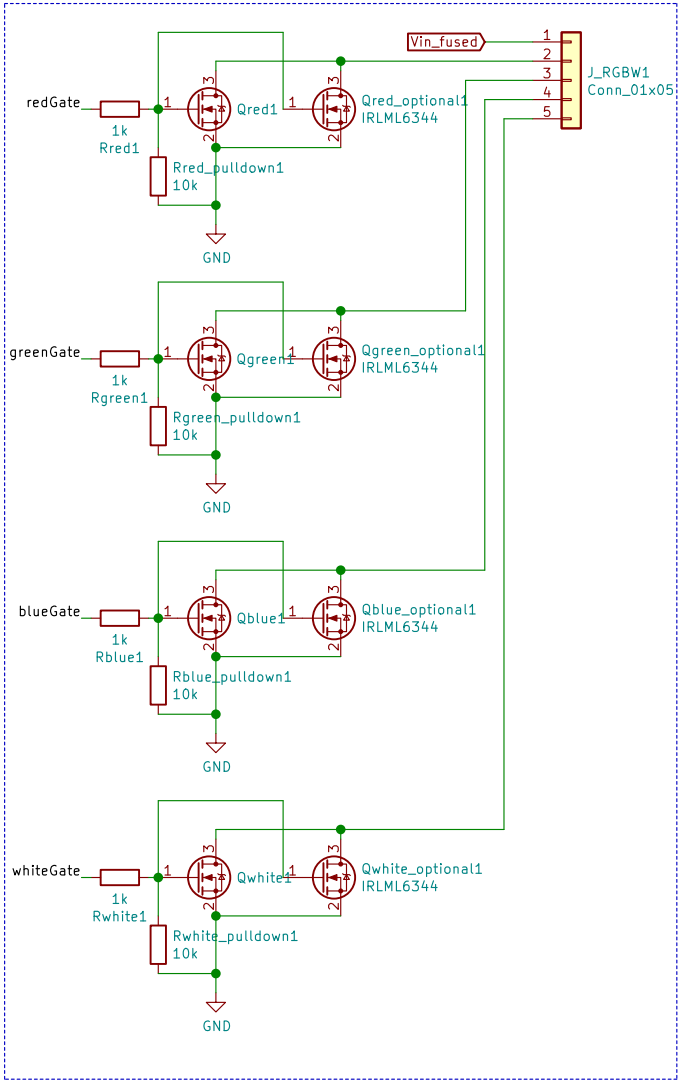
Input Protection



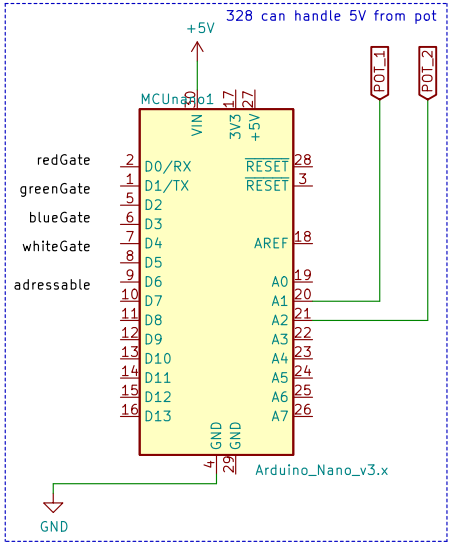
5V Buck



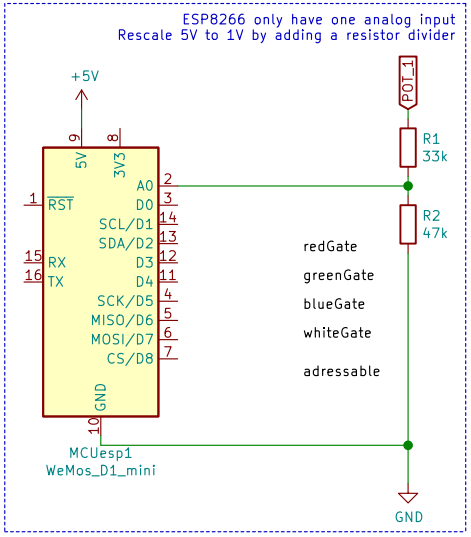
RGBW LED Driver (CV-mode)



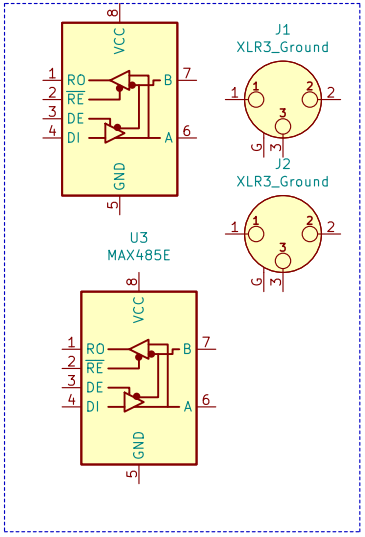
MCU Option Nano



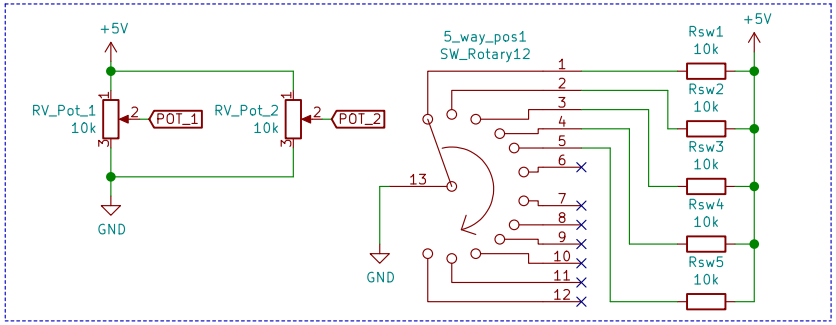
MCU Option Wemos



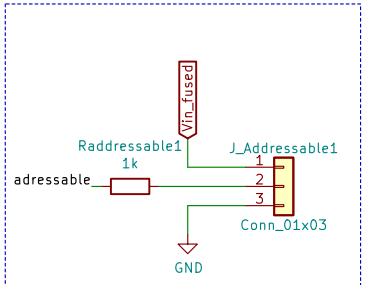
DMX



User Interface



Addressable LED



http://tim.gremalm.se/
https://github.com/TimGremalm/LightBoxNano

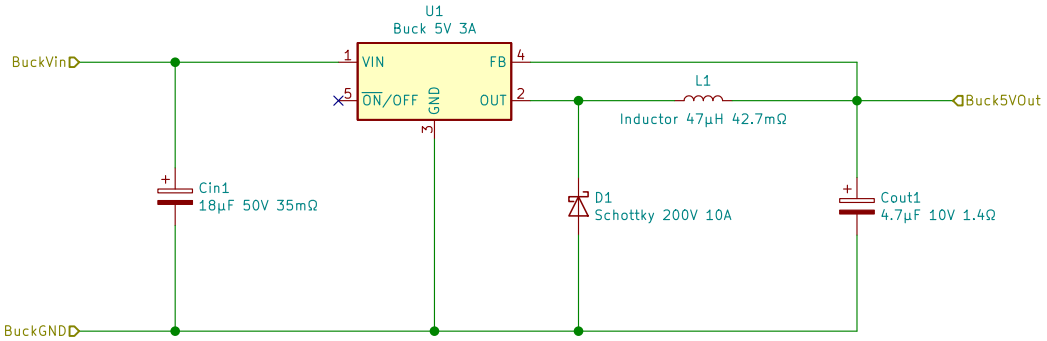
a generic PCB for controlling LED's both LED strip and WS2812

Tim Gremalm

Sheet: /
File: LightBoxNano.sch

Title: LightBoxNano - Main

Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (5.1.5)-2		Id: 1/2



Using TI's LM2596 guide:
Vin: 30V
Vout: 5V
Iout: 3A
Efficiency: 77.1%
Duty Cycle: 19.95%
Frequency: 150kHz
Vout p-p: 945.86mV
https://webench.ti.com/power-designer/switching-regulator/select
https://webench.ti.com/appinfo/webench/scripts/SDP.cgi?ID=572687AF787DDED1

http://tim.gremalm.se/
https://github.com/TimGremalm/LightBoxNano

a generic PCB for controlling LED's both LED strip and WS2812
Tim Gremalm

Sheet: /Buck Converter/
File: buck_converter.sch

Title: LightBoxNano – Buck Converter

Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad (5.1.5)-2		Id: 2/2