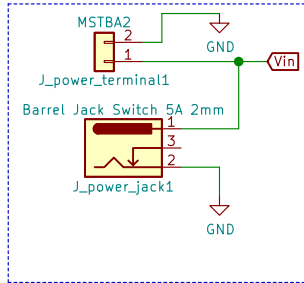
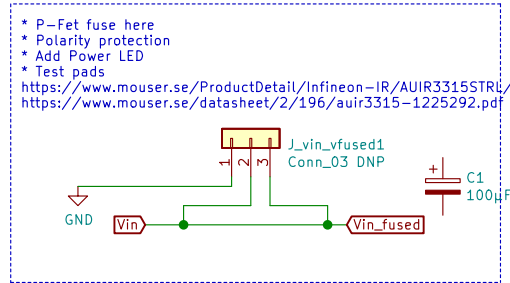


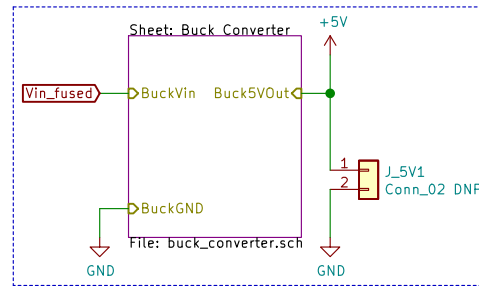
Input Connectors



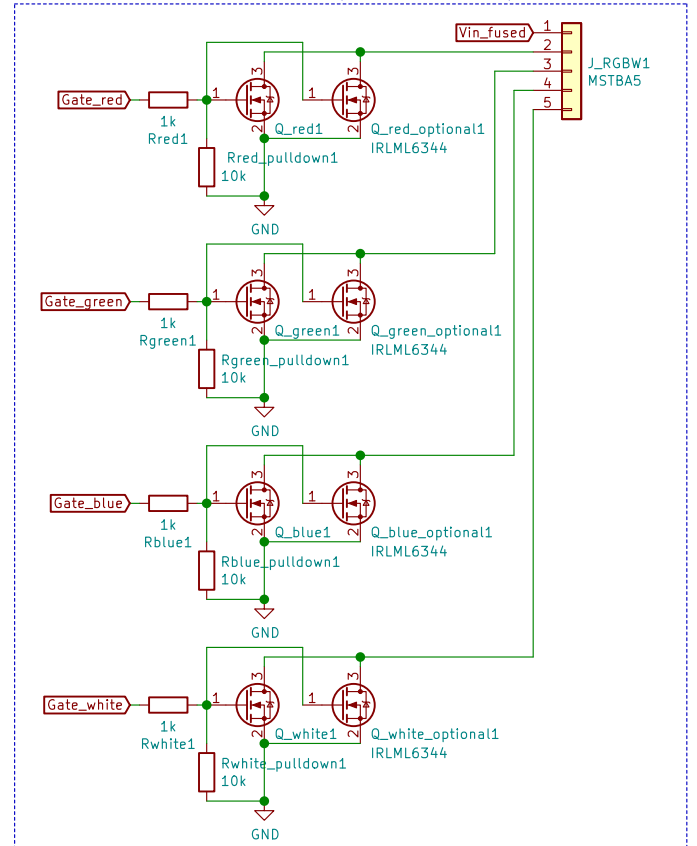
Input Protection



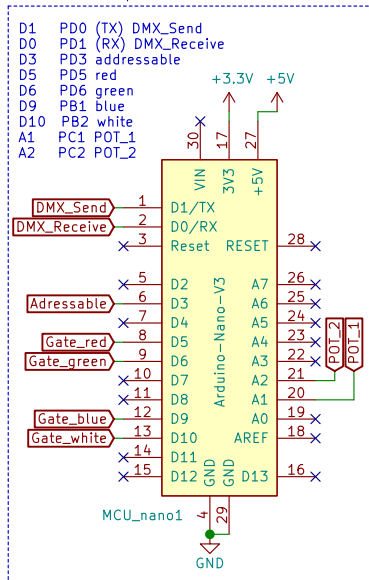
5V Buck



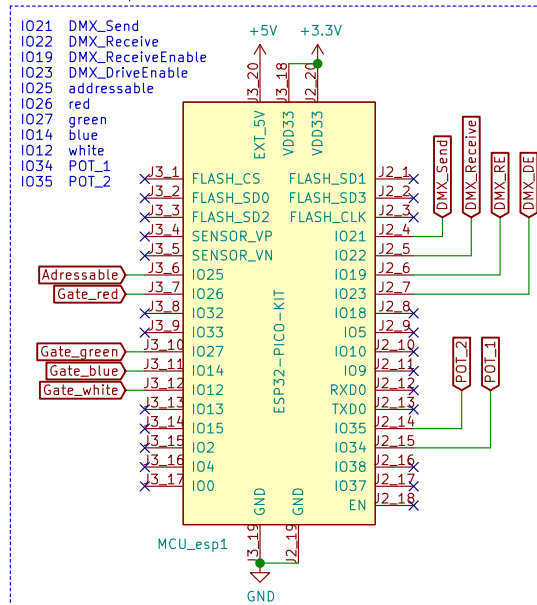
RGBW LED Driver (CV-mode)



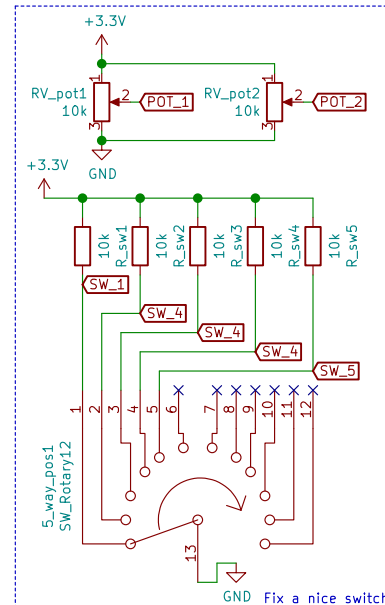
MCU Option Nano



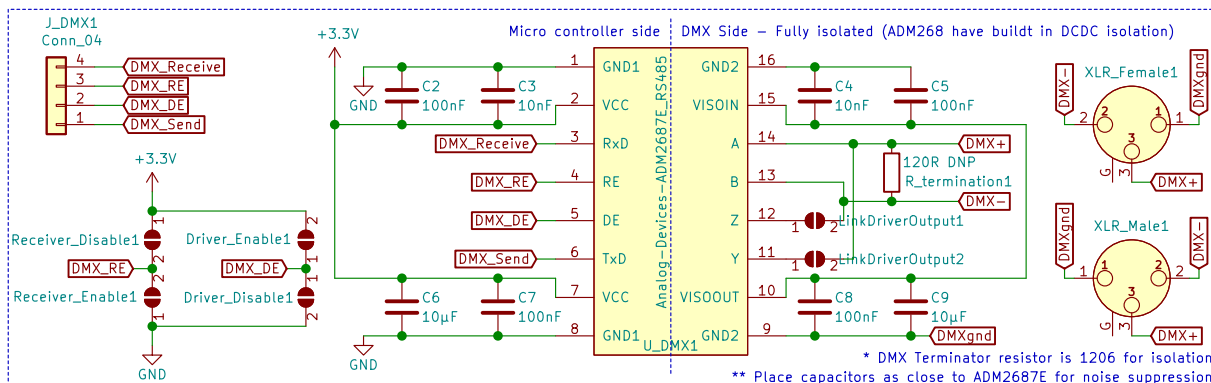
MCU Option ESP32



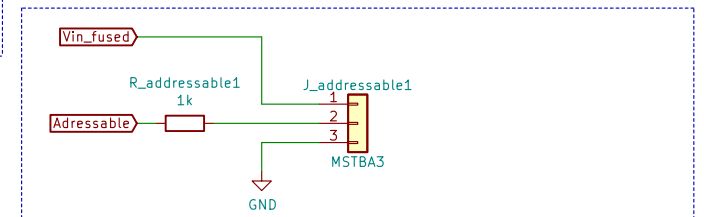
User Interface



DMX512 Isolated



Addressable LED



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

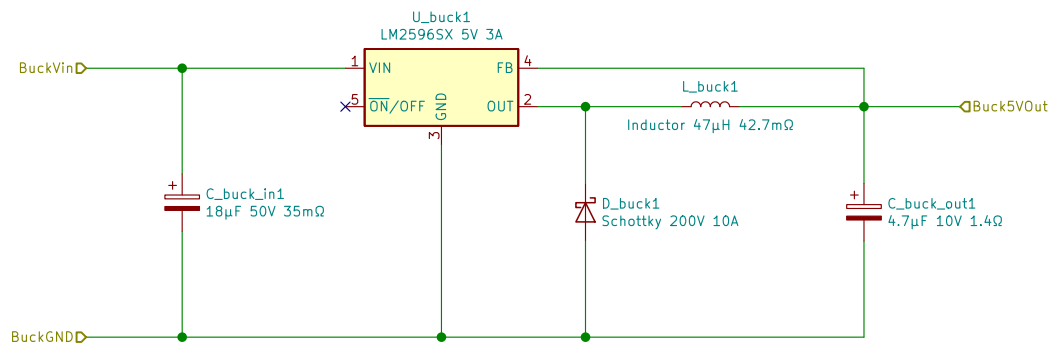
a generic PCB for controlling LED's both LED strip and WS2812
Tim Gremalm

Sheet: /
File: LightBoxNano.sch

Title: LightBoxNano - Main

Size: A4
KiCad E.D.A. kicad (5.1.5)-2

Date:
Rev:
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:

KiCad E.D.A. kicad (5.1.5)–2

Rev:

Id: 2/2