

## Connections

PA0x  
CONN\_01X05  
1 AUX\_GND  
2 AUX-POS  
3 AUX\_ON  
4 USB-POS  
5 USB\_GND

## Car/Head Unit

CONN\_01X04  
4 GND  
3 ANTENNA-OUT  
2 ANTENNA-IN  
1 12V  
P102

## Ground Bus

GND  
AUX\_GND  
USB\_NEG  
LED\_GND  
GND

## Connections

Power is automotive ( 10.5 V- 14.5V)

USB is used to power Buck inverter, giving charging power to USB port  
- 5V, 3A out

AUX is used to power Aux/Bluetooth module

- Wet Sounds BT-RS  
- 12 V, 2A

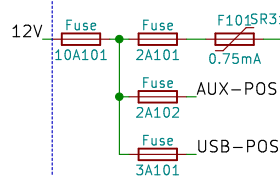
Aux On

- output from WW-BT-RS  
- switched on when unit on  
- Max 2A Source

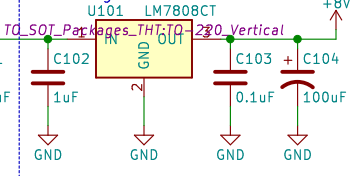
Antenna In/Out

- 12V nominal from radio to control retractable antenna  
- on when radio on  
- Powers automotive relay to power antenna motor  
- 150mA draw

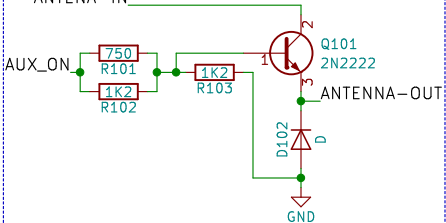
## Power Protection



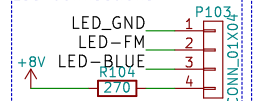
## Linear Regulator - 8V



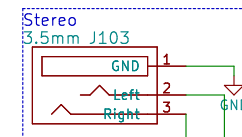
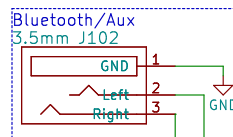
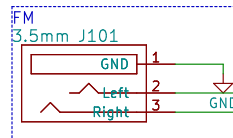
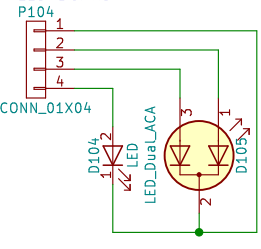
## 1/2 of And Gate



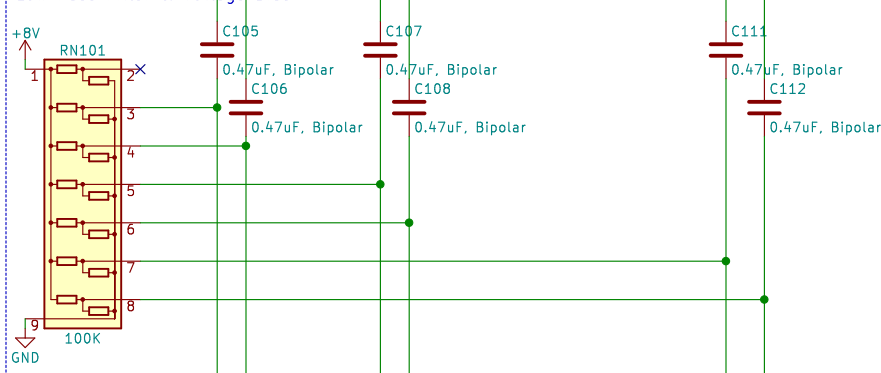
## Led Connections



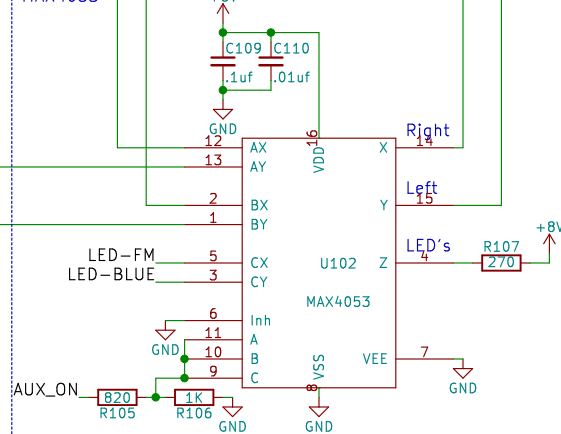
## LED BOARD



## Low Pass Filter & Voltage Bias



## MAX4053



Sheet: /  
File: Iroc Audio Adaptor V2.sch

## Title:

Size: USLetter Date:  
KiCad E.D.A. kicad 4.0.5

Rev:  
Id: 1/1