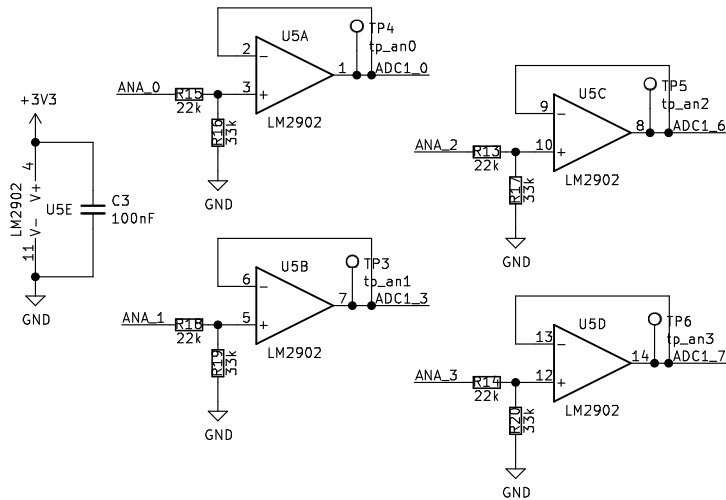
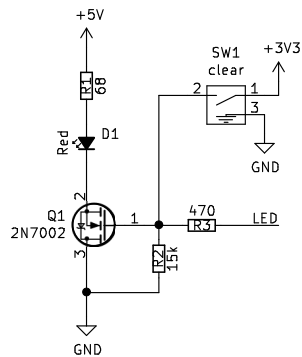


ANALOG inputs

Translate 5v analog input to 3v
(NOT 3.3v due to ESP32 non linearity)
 $V+ = 5v \times 33k / 55k = 3v$
op. amp as follower

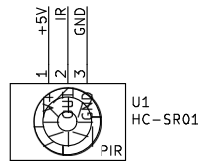


LED and SWITCHES

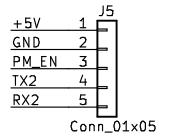
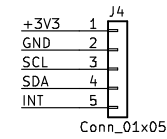
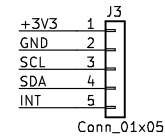
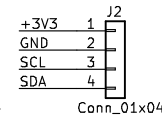
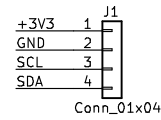


PIR sensor

HC-SR01 V+ accepts from 5 to 20v
OUT pin is 3.3 TTL

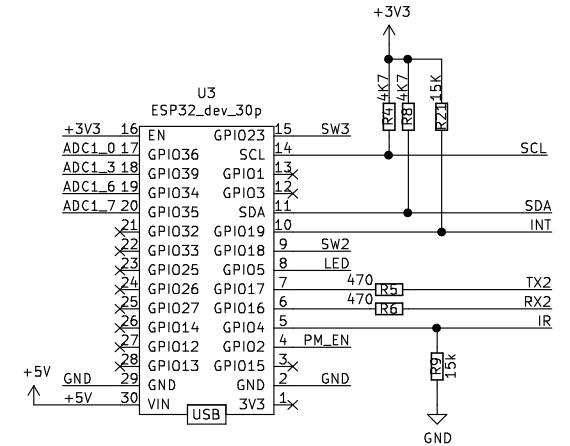


I2C sensors connectors

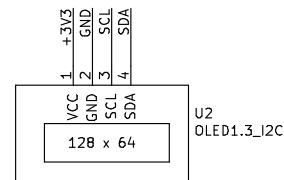


TODO:

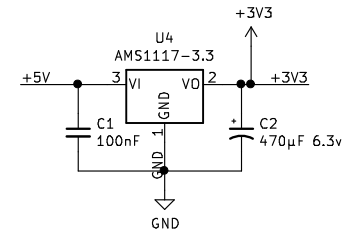
Notes:
- GPIO13 reserved for noise sensor
- GPIO5 reserved for LED + clear sw
- GPIO4 reserved for IR sensor
- ADC2 pins cannot be used when WiFi in use
- prefer ADC1 pins (GPIO32 --> 39)
- GPIO1 & GPIO3 are serial0 (prog.)
- +3V3 on EN pin is optional



Display



Power supply



Board mounting holes

GND H1
3.2mm for MH3 screw

GND H2
3.2mm for MH3 screw