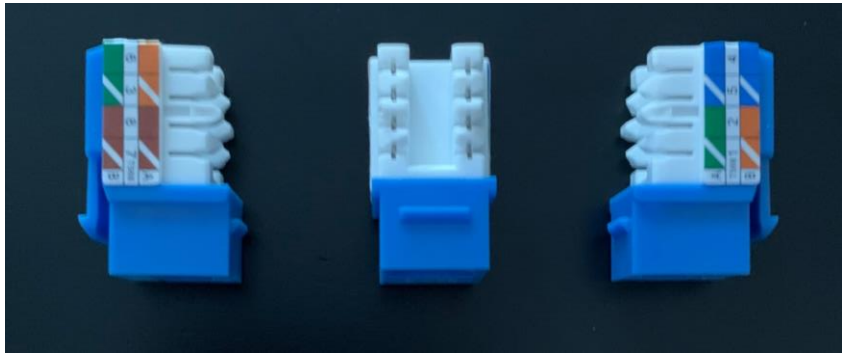
Logix Home PCB

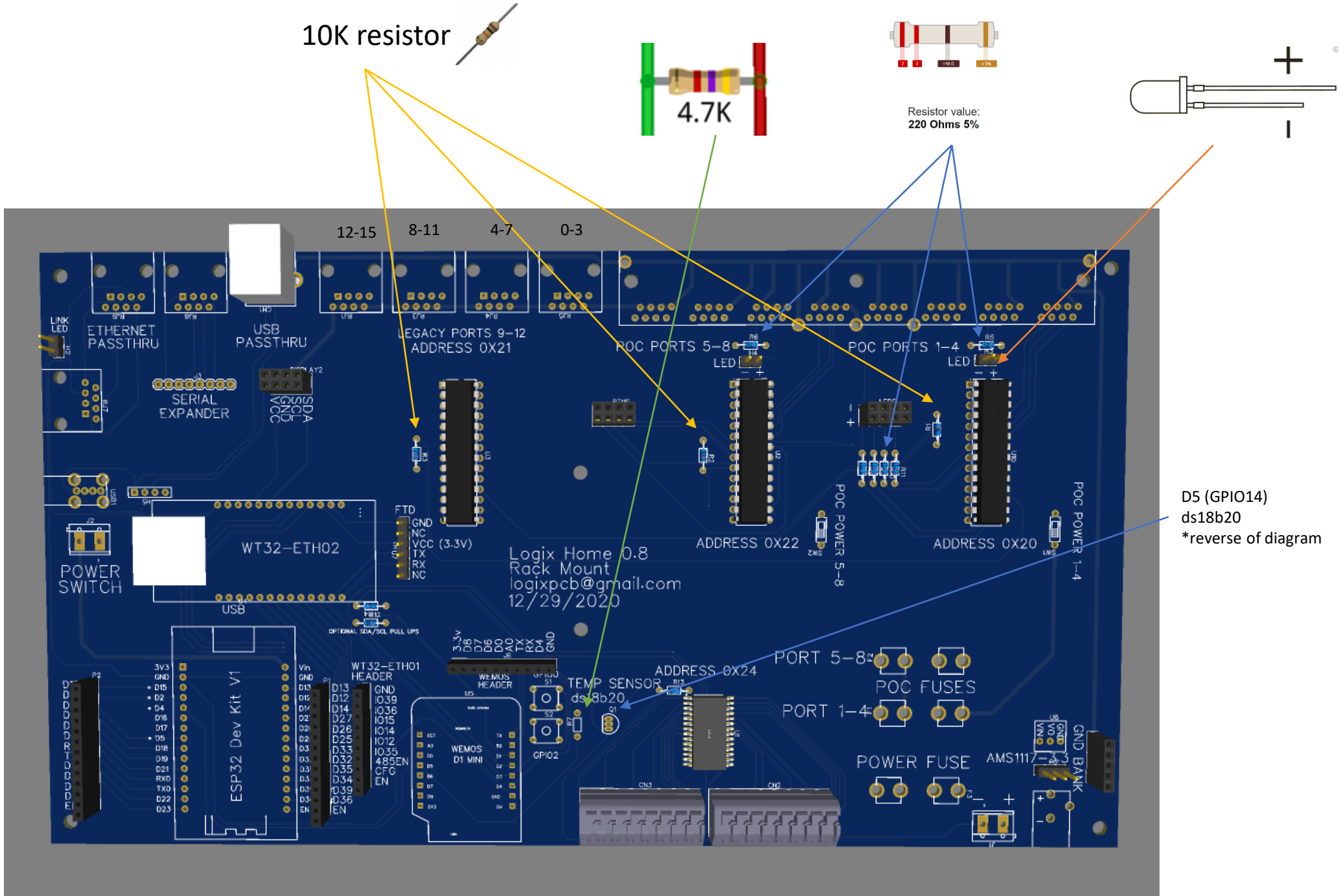
Orange = SENSOR1
Orange/White (GRND)
Brown = SENSOR2
Brown/White (GRND)



Blue = SENSOR3
Blue/White (GRND)
Green = SENSOR4
Green/White (GRND)

When I was confronted with a hoard of wire sticking out the wall where the alarm panel used to exist, it was a task itself to determine which wires went to which sensors. In my case there were 12 zones broken down as follows:
4 doors (front/back/garage entry/basement)
8 windows (living room/dining room/kitchen/bath/family room/basement/basement side)
I would note some of the windows were in pairs and had their own sensors but counted as 1 zone per pair)

I used Network RJ45 connectors to connect the wire pairs to. Each cable that was prewired had 4 wires (red/black/green/yellow)


10K resistor
4.7K
Resistor value:
220 Ohms 5%
12-15
8-11
4-7
0-3
ETHERNET PASSTHRU
USB PASSTHRU
LEGACY PORTS 9-12
ADDRESS 0X21
POC PORTS 5-8
POC PORTS 1-4
LED
SERIAL EXPANDER
WT32-ETH02
POWER SWITCH
FTD
GND
NC
VCC (3.3V)
TX
RX
NC
USB
Logix Home 0.8
Rack Mount
logixpcb@gmail.com
12/29/2020
ADDRESS 0X22
ADDRESS 0X20
POC POWER 5-8
POC POWER 1-4
ESP32 Dev Kit V1
WT32-ETH01
HEADER
WEMOS
HEADER
WEMOS
D1 MINI
TEMP SENSOR
ds18b20
GPIO2
ADDRESS 0X24
PORT 5-8
PORT 1-4
POC FUSES
POWER FUSE
AMS1117-3.3
GND BANK
D5 (GPIO14)
ds18b20
*reverse of diagram

8 ports with 3 binary sensors on each (each RJ45 port has 2 pins research for +5v/GGRND)
24 total GPIO

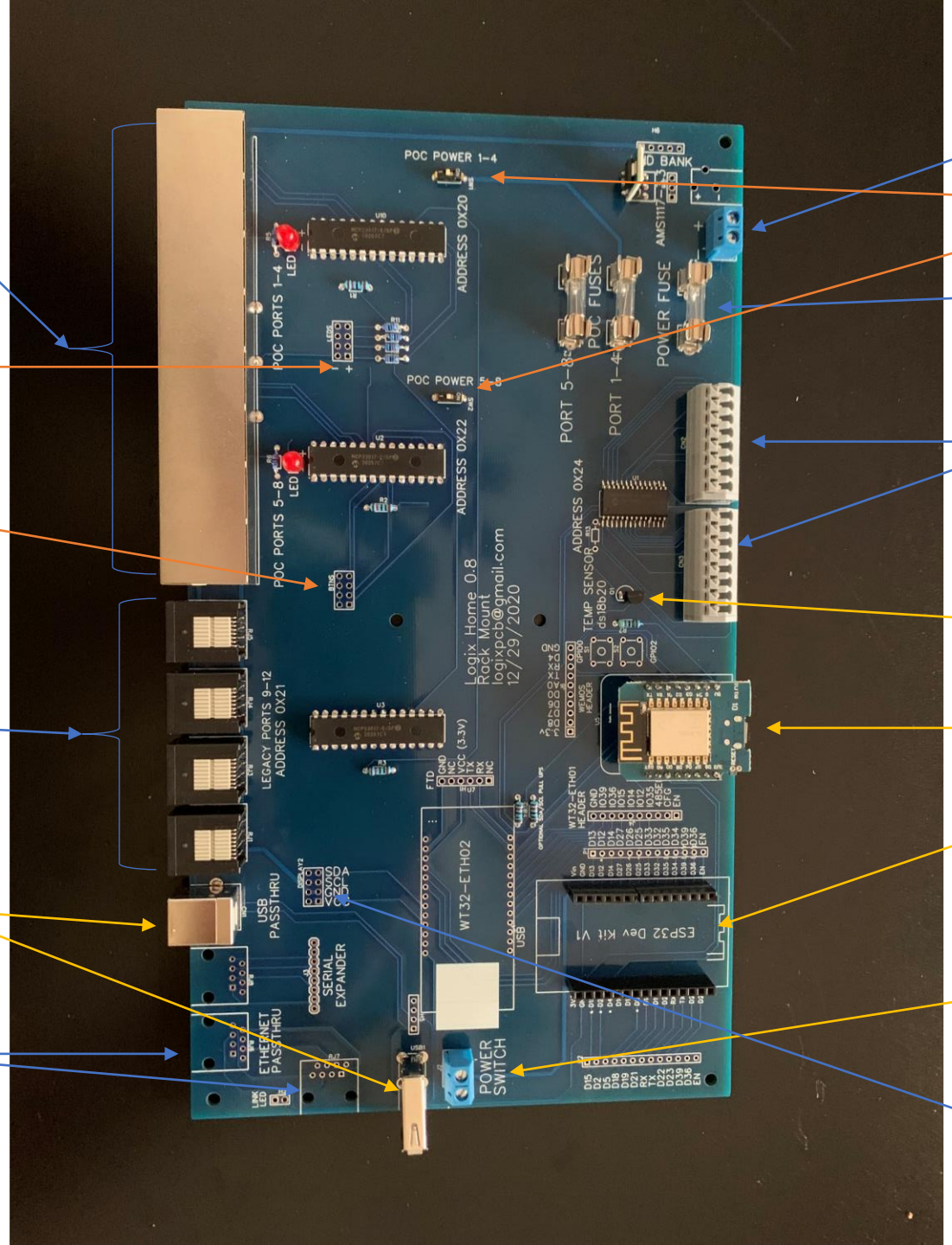
This is a header to connect 4 LED to 4 GPIO on 0x20

This is ahead to connect 4 buttons to 4 GPIO on 0x22

4 ports with 4 binary sensors on each (each twisted pair goes to a GPIO Pin and GRND)
*16 total GPIO

USB passthru (in case you want all the ports in front)

Can also add ethernet passthru if you have an ESP32 with ethernet



5v input

Power switches for POC

Main Fuse (both POC are fused as well)

16 GPIO pins (run any to ground to activate)

Dallas Temp Sensor on D5 of wemos

For Wemos

For ESP32

Connect power switch here

I2C connector for connecting an OLED and such