

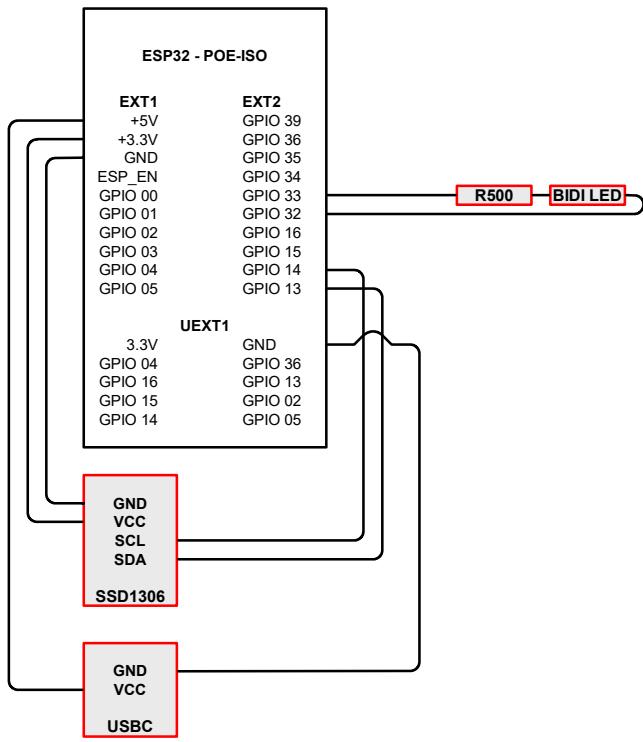
ESP32-WWW

An esp32 based network tester

Provides IP address and network time to a SSDxxxx display. Reflects connection status on bi-color LED
Powered via POE or USBC

esp32-www - Title Page		
PLEASE DO NOT TRASH	Designer:	Micah Wagoner
	Installer:	
Drawing 1 of 3	Date:	9/8/2024

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BILL OF MATERIALS

OLIMEX ESP32-POE-ISO	QTY1, \$30
GENERIC SSD1306 128x64 DISPLAY	QTY1, \$10
GENERIC USB-C BREAKOUT PCB	QTY1, \$2
GENERIC BICOLOR LED	QTY1
GENERIC 500-ish RESISTOR	QTY1

FLASH THE CODE

Project runs off esphome (esphome.io). Copy the code, and place it into a xxx.yaml file. Once you have the esphome CLI installed, you can navigate to the directory where you placed the yaml, and run the command "esphome run livingroom.yaml"

The esp will be connected to your computer via the micro-usb during this process. Once a successful compile has completed, esphome will ask which port to flash to. Pick the corresponding port.

Once you install the config once, if you boot the device and connect it via eth to your lan, you will be able to flash a new config over the network instead of de-casing the esp32

Apologies for the ugly code

CODE

li.wagoner.tech/esp32wwwcode

CASE

li.wagoner.tech/esp32wwwcase
Case is a remix of
<https://www.thingiverse.com/thing:3857281> by user Zapdos
and
<https://www.printables.com/en/model/160473-terminal-for-ssd1306-13-oled-and-wemos-d1-mini-new> by user episco

CASE CONSTRUCTION

Case put together with a lot of hot glue and some popsicle stick to serve as spacers and reinforcement

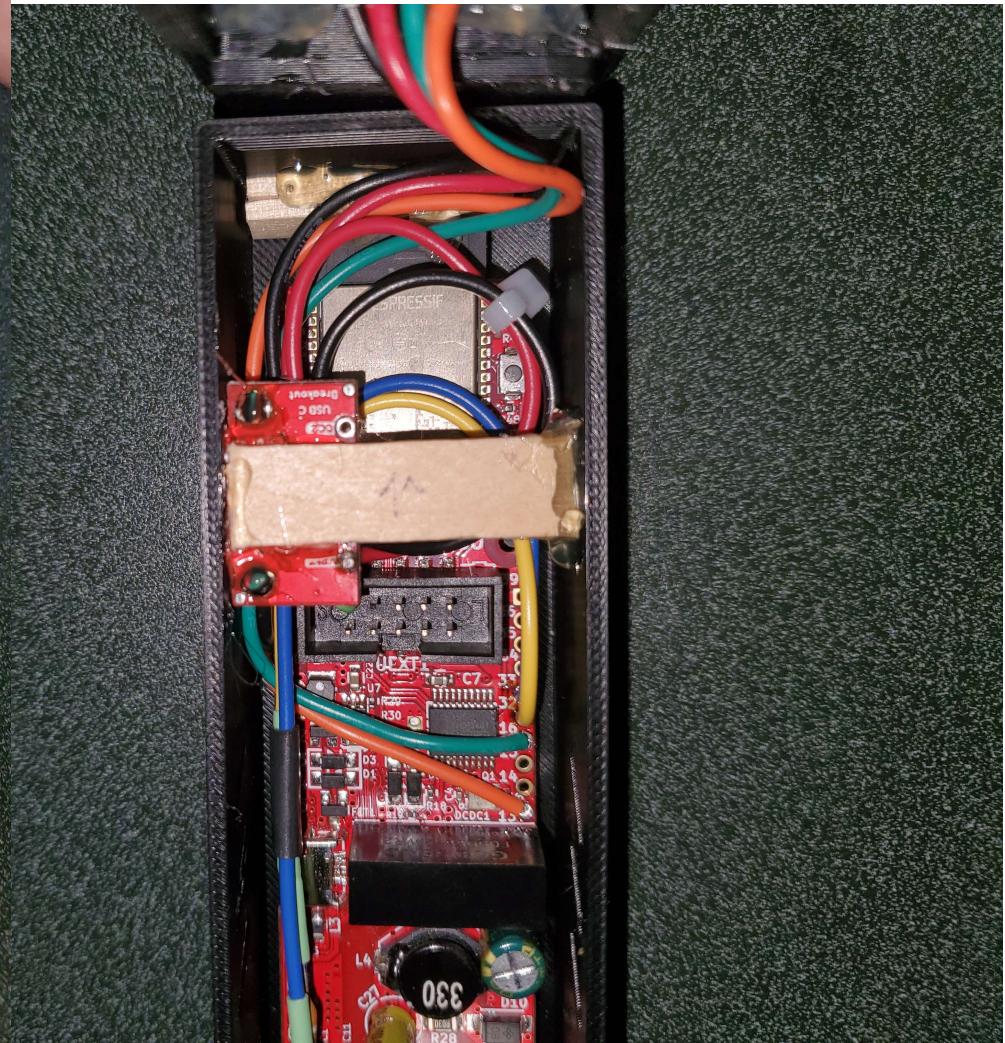
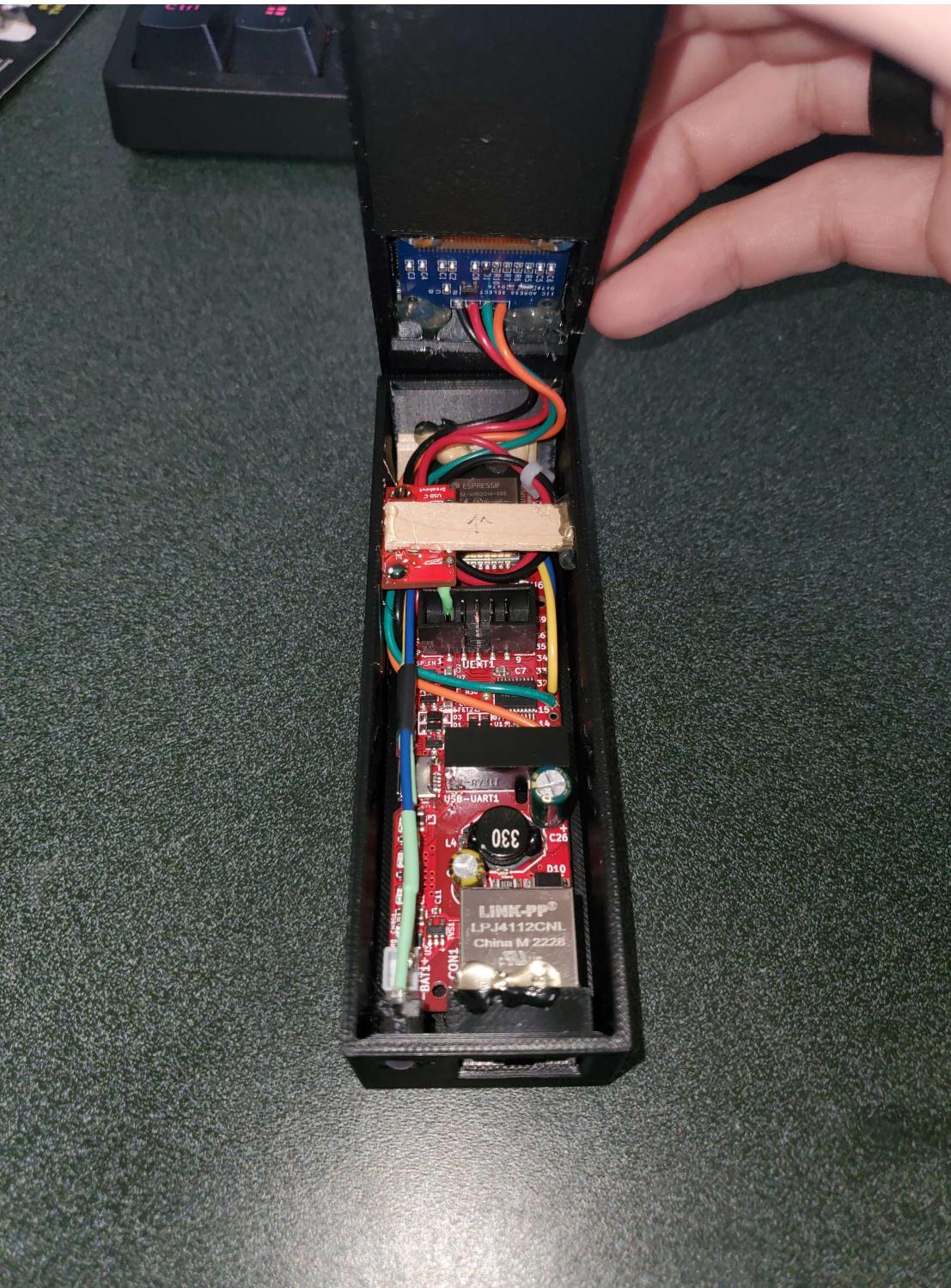
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Drawing 2 of 3

esp32-www - Wiring and Instructions

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Drawing 3 of 3

esp32-www - Pictures

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