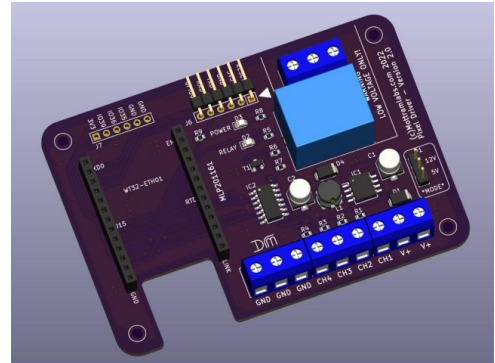


WT32-ETH01 LED Pixel (WS2812) Driver Board - MLP201161

Features and Benefits

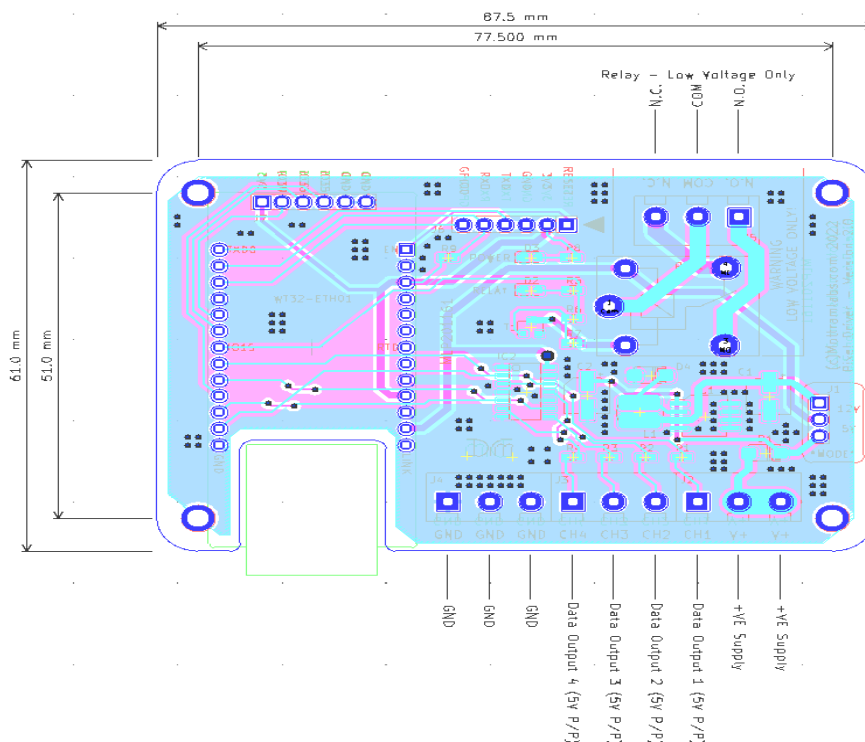
- 5V or 12V Operation
- Works With WT32-ETH01 ESP32 Boards
- On-board 5V Regulator powers the ESP32
- Reverse Polarity Protection (board only)
- 5V data output to LED pixels
- Screw terminal connections



Product Details

The MLP201161 provides a simple solution for connecting WS2812 or similar LED pixel strips to the popular WT32-ETH01 ESP32 Wi-Fi and Ethernet module. An on-board 74HCT125 line driver provides a 5V P/P output from the normal 3.3V output supplied by the ESP32 chip.

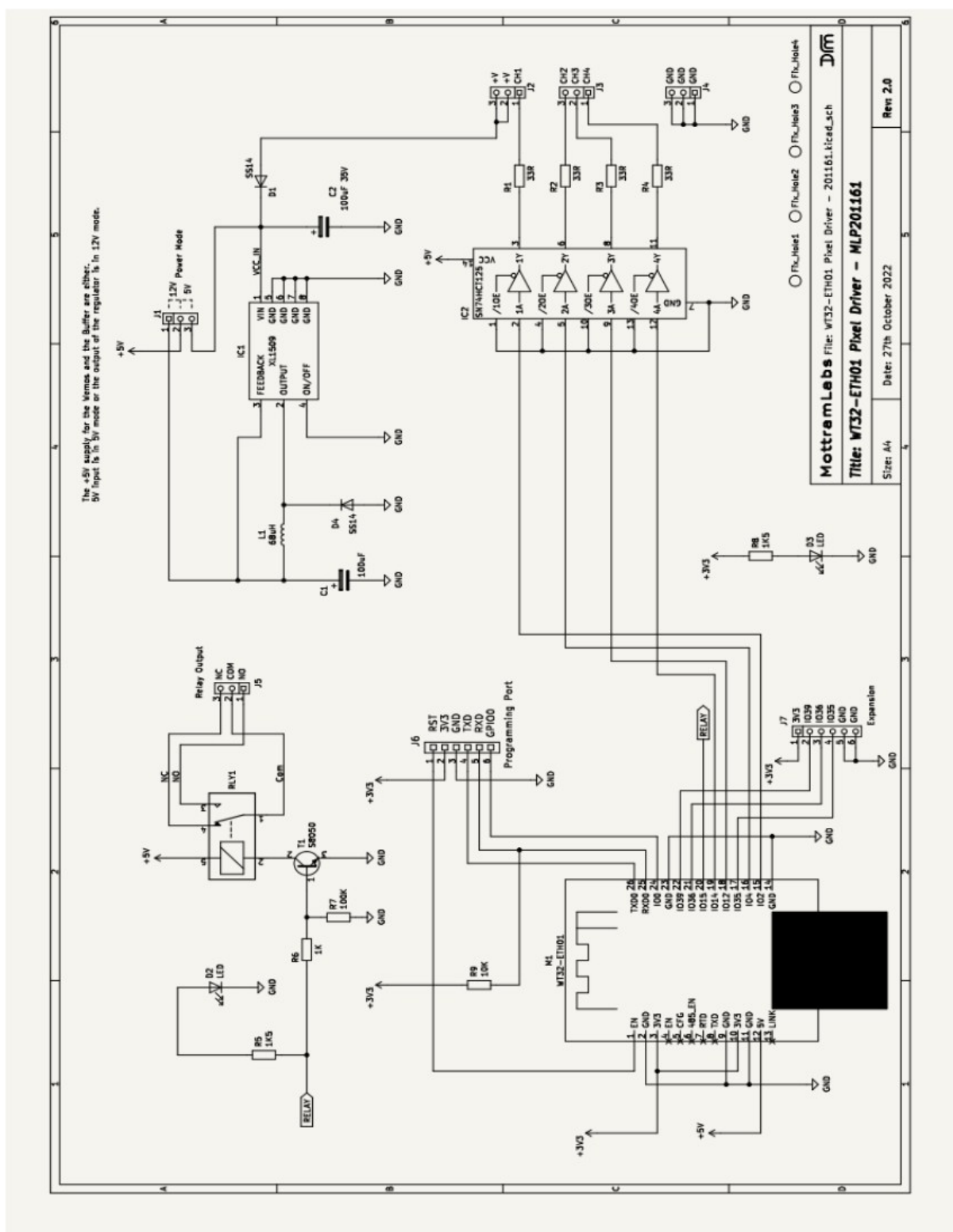
The board provides reverse polarity protection for the ESP32 and interface only. The board can be used with either 5V or 12V LED strips when using the appropriate power supply. There is an option link (J1) to select between a 5V or 12V supply, it's important to select this link for the supply used or the ESP32 will be damaged. Please note the boards 5V regulator powers the WT32-ETH01 and 74HCT125 only, it does not power the LED output.



J1 Link

The voltage selection must match the input supply, so for 5V this link must be set to 5V and for 12V select 12V. Failure to do this will damage the PCB and any WT32-ETH01 plugged in.

MLP201161 - Schematic



Software – WLED

Although the board can work with a range of software one of the most popular and feature rich is WLED. Below are some links to the WLED project page.

Flashing Tool

ESPHome-Flasher is a python utility for programming the ESP32. A USB to serial adaptor is also required.

<https://github.com/esphome/ESPHome-Flasher>

WLED

WLED Github Page

<https://github.com/Aircoookie/WLED>

WLED Releases

<https://github.com/Aircoookie/WLED/releases>
