

# Trough Automation PCB - Documentation

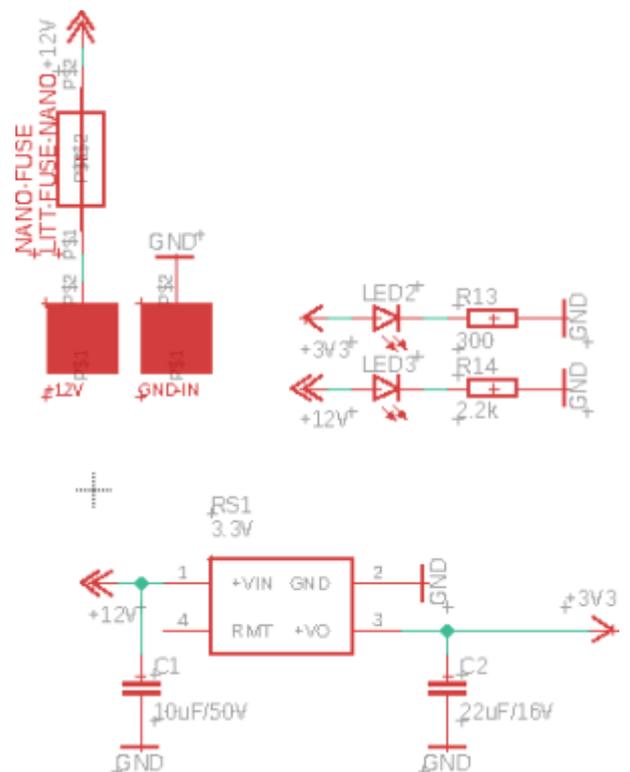
Here you can find all the necessary information to work with the Trough Automation PCB in your own project.

## General Concept and internal workings

The board was developed as an easy tool to switch high loads remotely and automatically based on sensor readings done by the same board or even other sensors in the surroundings. It can connect to Wifi and can also be reconfigured without programming the whole board, thanks to [Tasmota](#).

The board's main chip is an ESP8266, more specifically the [ESP-12F](#). It can control a relay and has a current meter connected to the ADC which meters the current attached to the high voltage output. Furthermore, all GPIOs are available for attaching sensors. GPIO 14 is routed out specifically for OneWire Devices.

## Power Management



## MCU



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