



Stormduino 4 Layer edition Documentation

April 8, 2021

Project Overview

Stormduino is an Arduino compatible development that can be used in electronics projects and in STEM education. The project is open source hardware and designed with KiCad which makes it a lot easier for the user to modify.

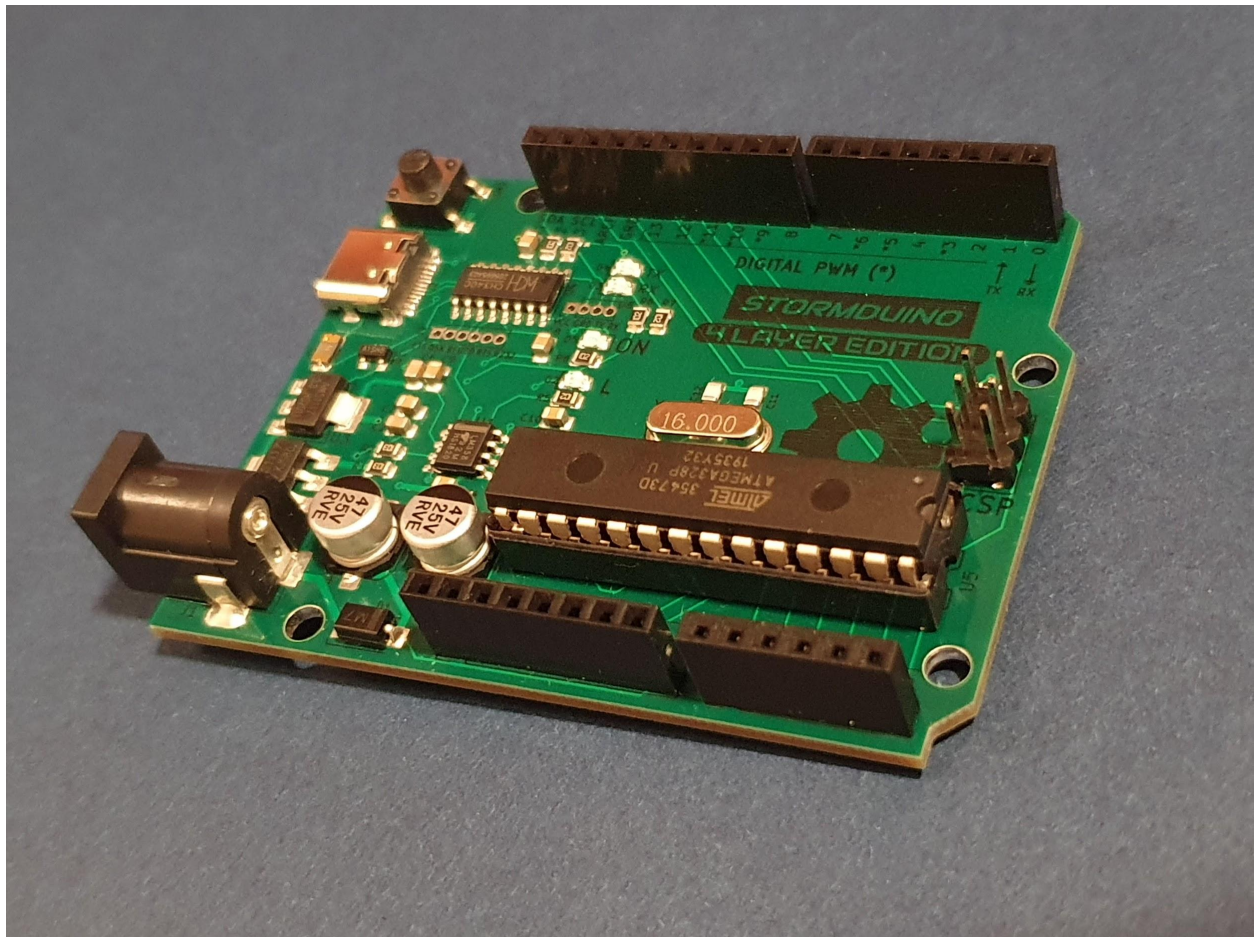
The 4 Layer edition has an inner layer for +5V and another one for GRD. The top and bottom layer layout are very similar to the original stormduino however there are some slight changes to accommodate the two inner layers. The component layout remains the same to make the surface mount assembly process compatible with the previous version.

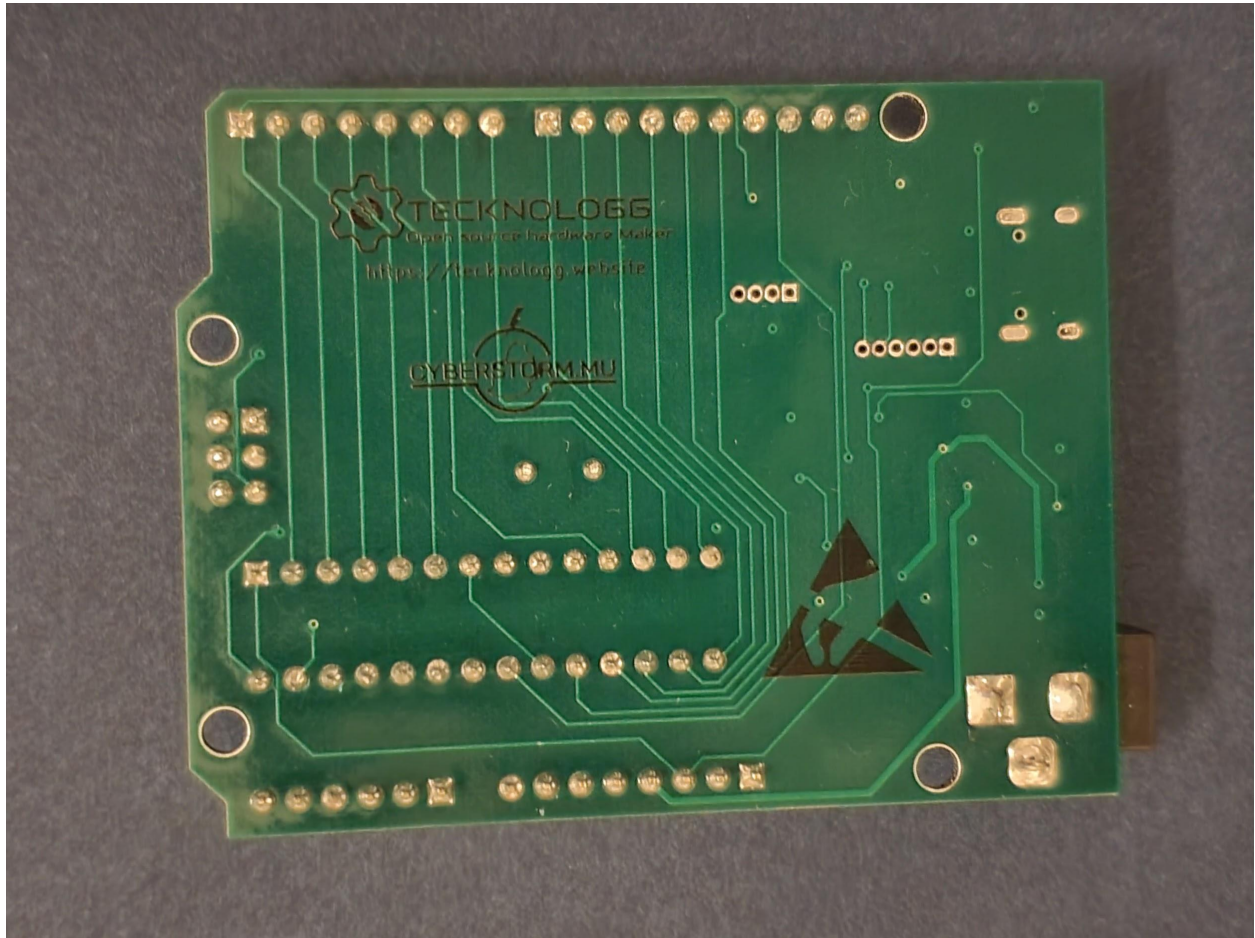
Project site where the design files and schematic can be found:

<https://github.com/Chromico/stormduino-4-layer>

Note: Please download the CH340 driver before using the board. You can get it here from the manufacturer's website, http://www.wch.cn/downloads/CH341SER_EXE.html

Assembled Board





Specifications

- Arduino bootloader
- 4 Layer Printed Circuit Board
- CH340C USB to UART bridge
- USB Type C connector for programming/communication
- Microchip AVR Atmega328P 16 Mhz (external oscillator)
- 5V and 3.3V LDO regulators
- PCB size (54.34 mm x 68.58 mm)