

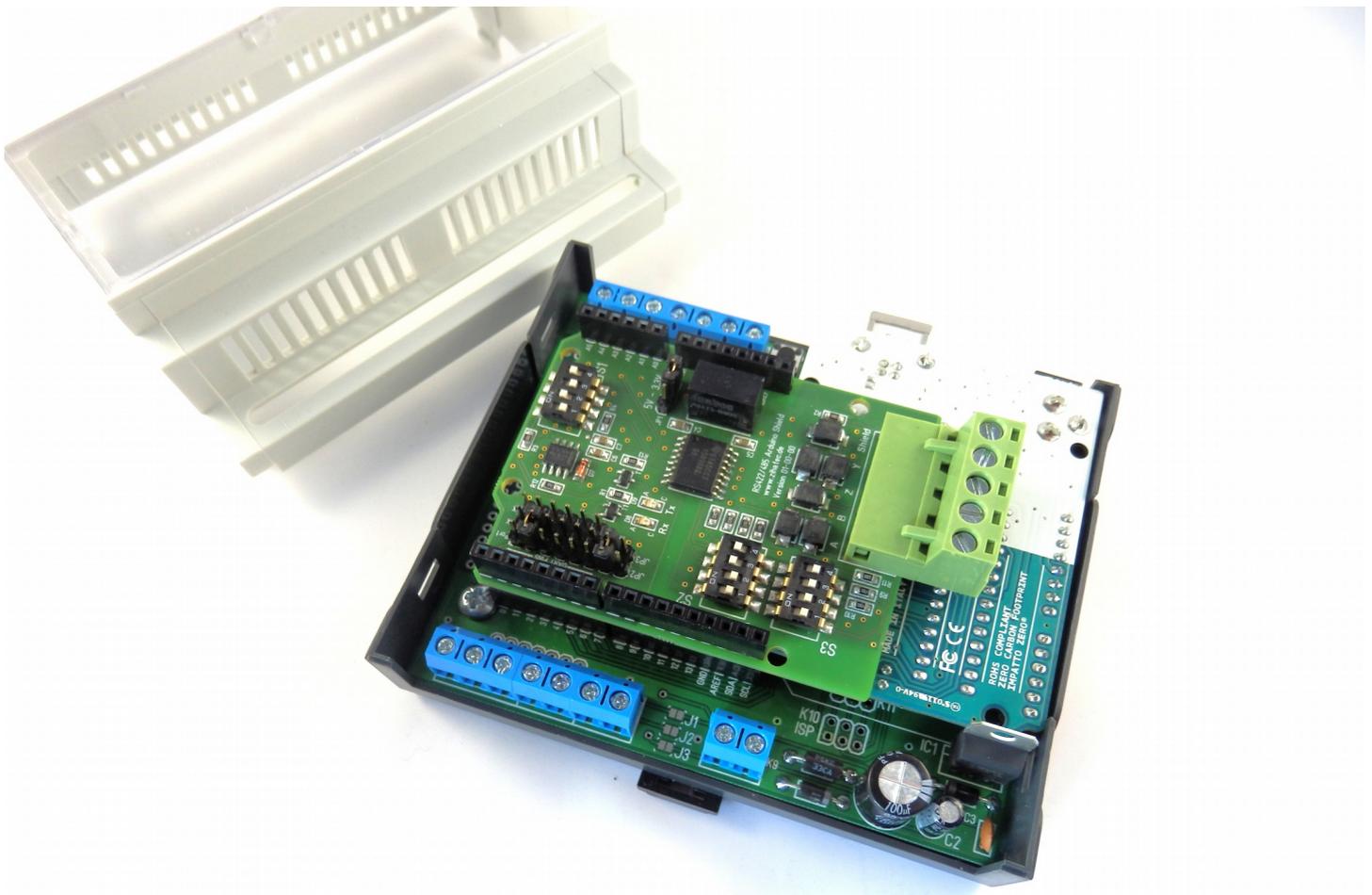
RS422/RS485 Shield

Application Note: DIN Rail Mount with ArduiBox

1 Introduction

This application note will show you how to mount an Arduino together with a RS485 shield in a cabinet on a din rail. You will get a nice and compact device to realise MODBUS slaves, DMX devices, door access units etc.

This instructable will also work, if you want to mount motor or sensor shields together with an Arduino in a cabinet.



2 Bill of Material

- Arduino UNO
(or any other single board computer with Arduino Shield sockets)
- 1-3 RS422/RS485 Shield for Arduino (available in our webstore)
- ArduiBox Open enclosure set (available in our webstore)
- Coloured hook-up wires
- wire end sleeves (optional)

3 Tools

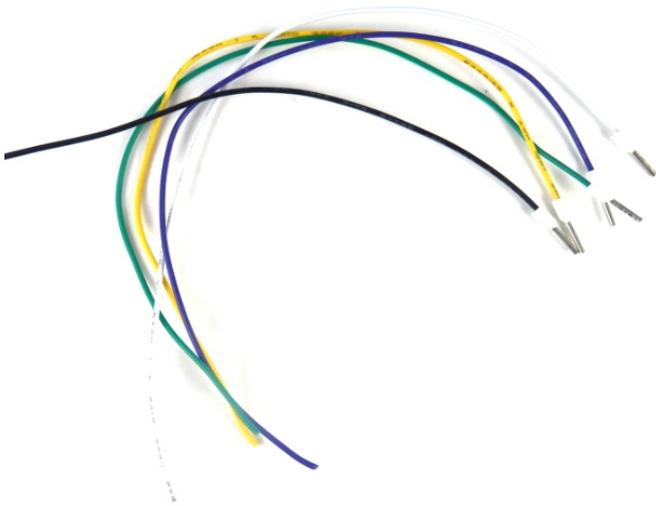
- soldering iron
- screw driver
- side cutting pliers
- jointing clamp for wire end sleeves (optional)

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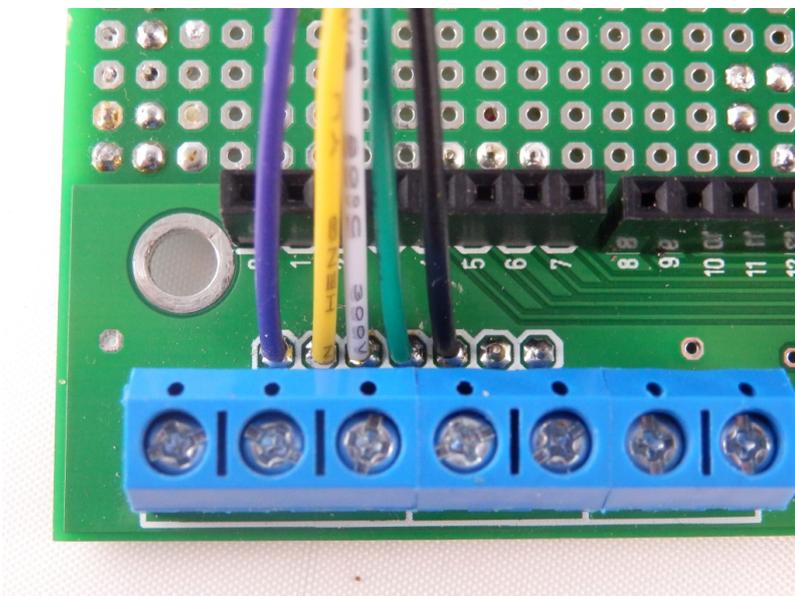
4 Prepare the wires

It's recommend to place on one end of the wire a wire end sleeve. If you don't have such wire end sleeves it's also ok to tinning the ends only



5 Soldering of the wires

Now you can solder the wires to the free soldering pads beside the terminals. The wires are connected now with the terminal.

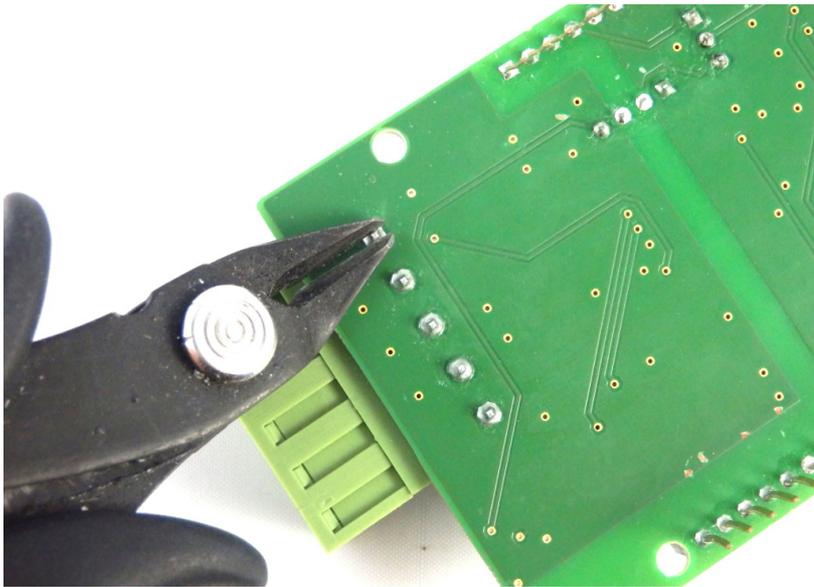


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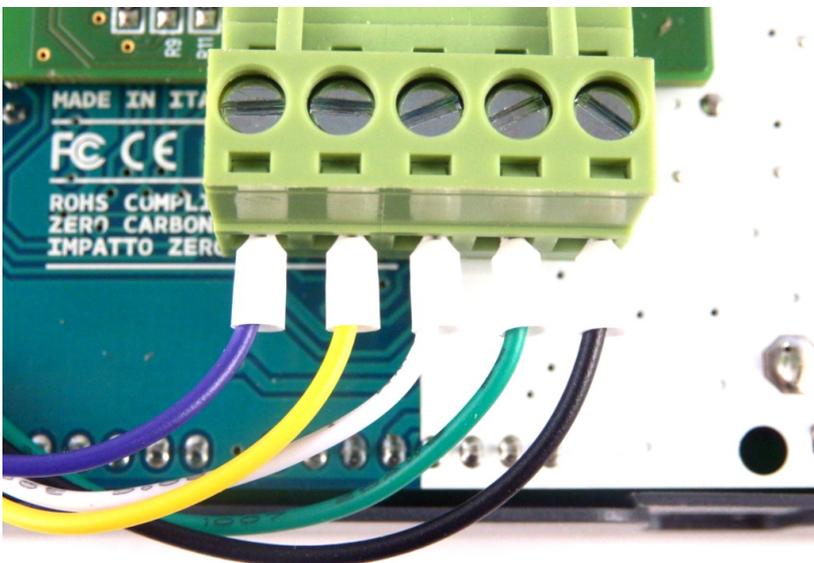
6 Preparing the Shield

The shield will overlap the Arduino. It's recommend to cut the pins of the shield terminal pins close as possible with a side cutting pliers.



7 Connect the terminal of the Shield

You can connect now the free end of the wires with the removable terminal of the shield.

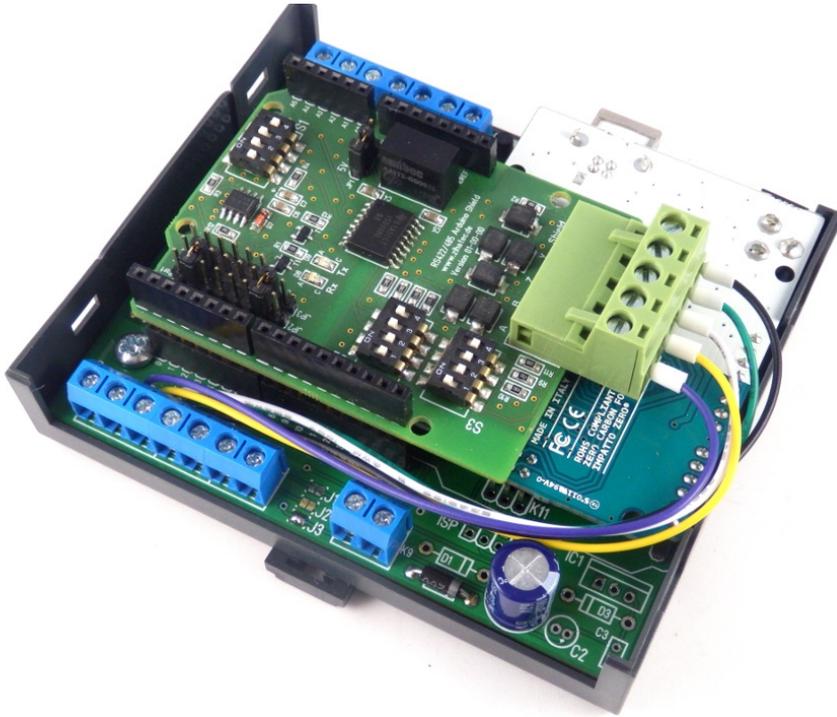


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8 Shield and Arduino assembly in ArduiBox

Please plug all components together as in the picture



9 Mount the Top Shell

You can close the device by mounting the top shell

