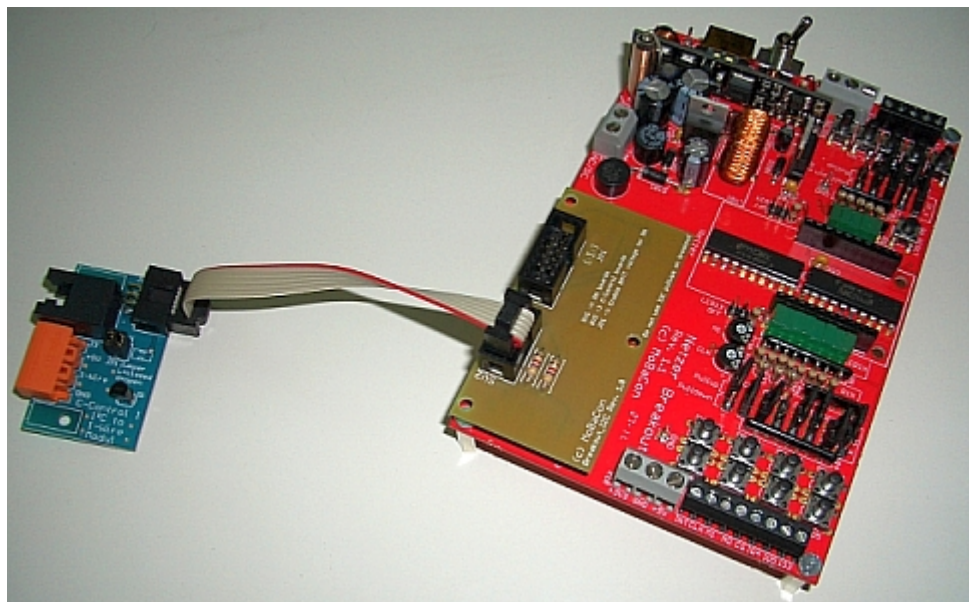


# I2C Extension board for Netzer Playground



The I2C-Extension board was developed for [Netzer Playground](#). The Ethernet gateway Netzer can be connected to add-on boards from the German community platform [Roboternetz](#) or C-Control from [Conrad](#). There are a lot of new possibilities for Netzer like connecting displays or 1-wire modules.

## Roboternetz boards

[Roboternetz \(RN\)](#) has published a standard some time ago. They standardized frequently used interfaces in the embedded world: The [RN definitions \(only in German\)](#). Among this interface are i.e. SPI or I2C.

In particular the [I2C socket](#) is often present on RN boards and that's why was chosen as one of the two interfaces on the extension board.

The following table presents RN boards, which are qualified for Netzer connect:

Board name	Function	Tested
<a href="#">RN-DIGI</a>	Big I2C digital display	No
<a href="#">RN-KeyLCD</a>	A compact universal LCD and keyboard with various interfaces.	No
<a href="#">RN-Schrittmotor</a>	Controls stepper motors via I2C, RS232, clock	No

## C-Control boards

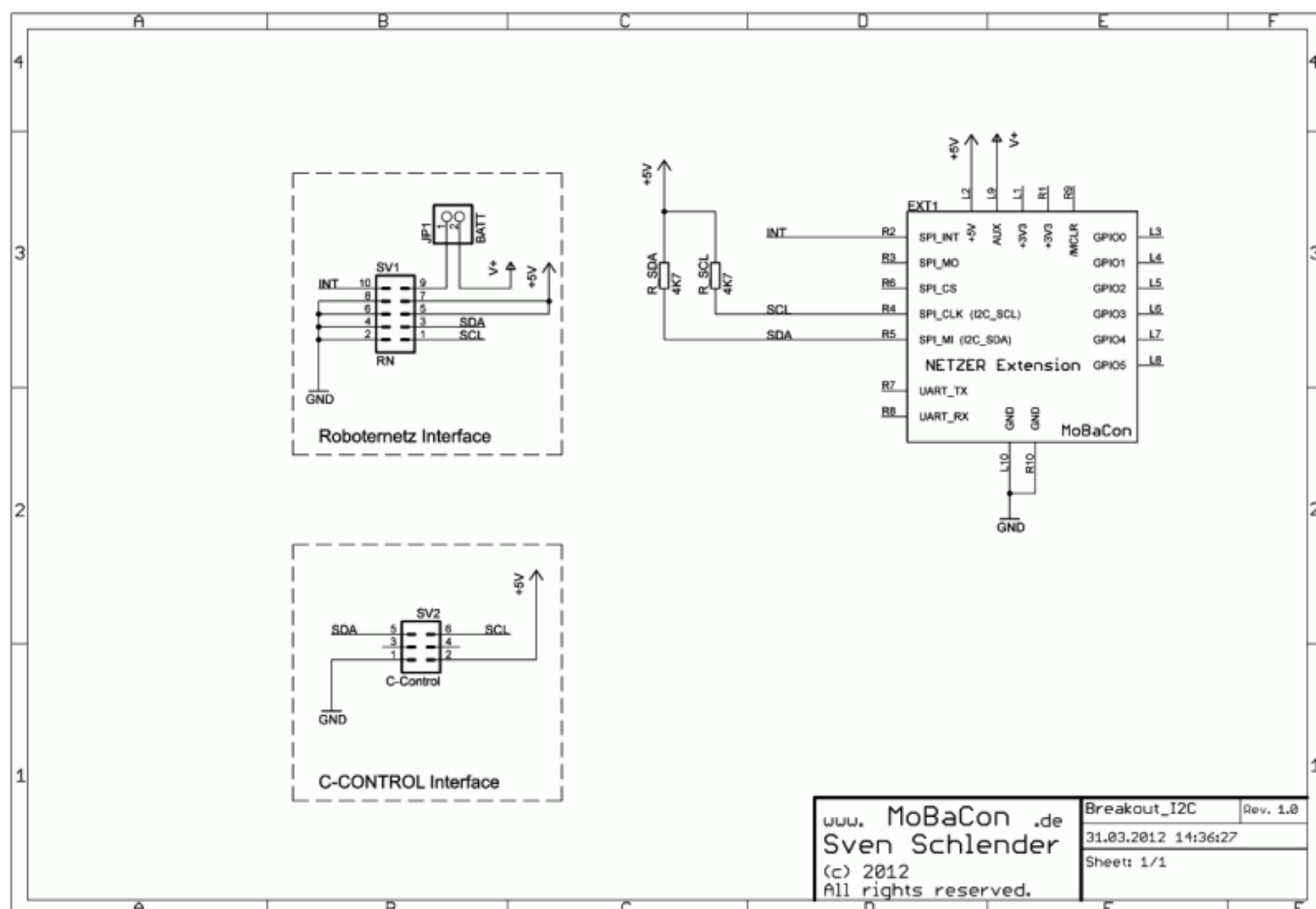
The German electronic distributor Conrad has developed the platform ([C-Control](#)). Among controller

boards also a huge offering of accessory boards. Often the I2C is used as peripheral bus - and therefore can be connected to the Netzer extension.

The following table presents boards, which are qualified for Netzer connect:

Board	Tested
<a href="#">LED-Display (4 x 7-Segment)</a>	No
<a href="#">Tastatur (4x4)</a>	No
<a href="#">Converter for 1-Wire Bus</a>	<b>Yes</b>
<a href="#">Port expander</a>	No
<a href="#">Alphanumeric display</a>	No
<a href="#">Thermometer</a>	No
<a href="#">Line driver</a>	No
<a href="#">Stepper module 1 spindle 0.8A</a>	No

## Schematic



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