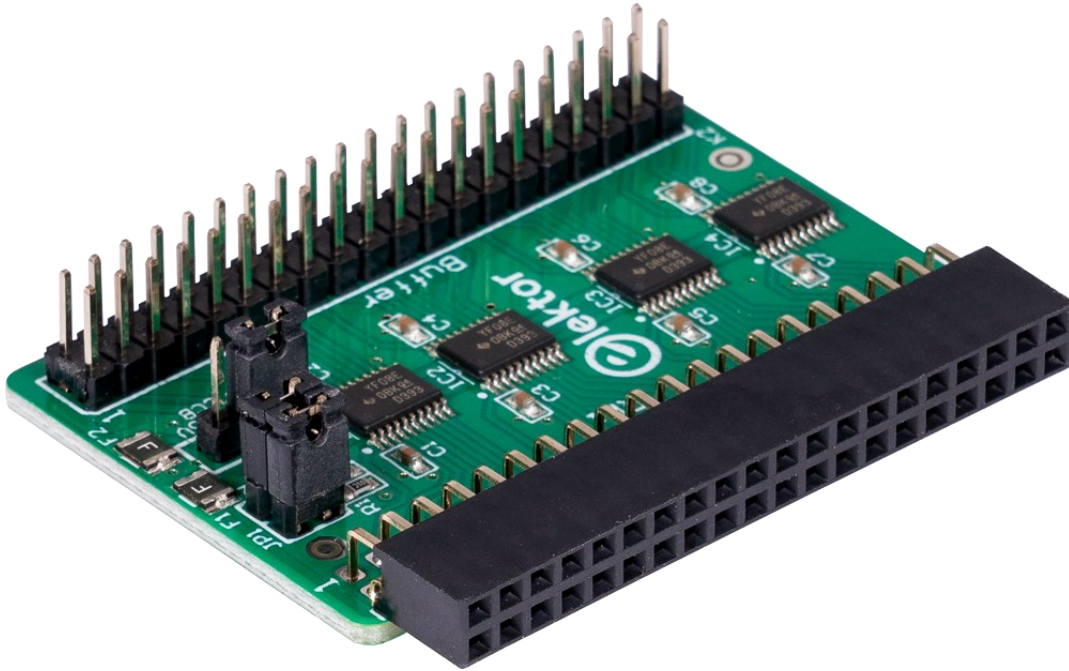


LOGIC LEVEL CONVERTER

RB-LLC



1. GENERAL INFORMATION

Dear customer,
thank you very much for choosing our product.
In the following, we will introduce you to what to observe while starting up and using this product.
Should you encounter any unexpected problems during use, please do not hesitate to contact us.

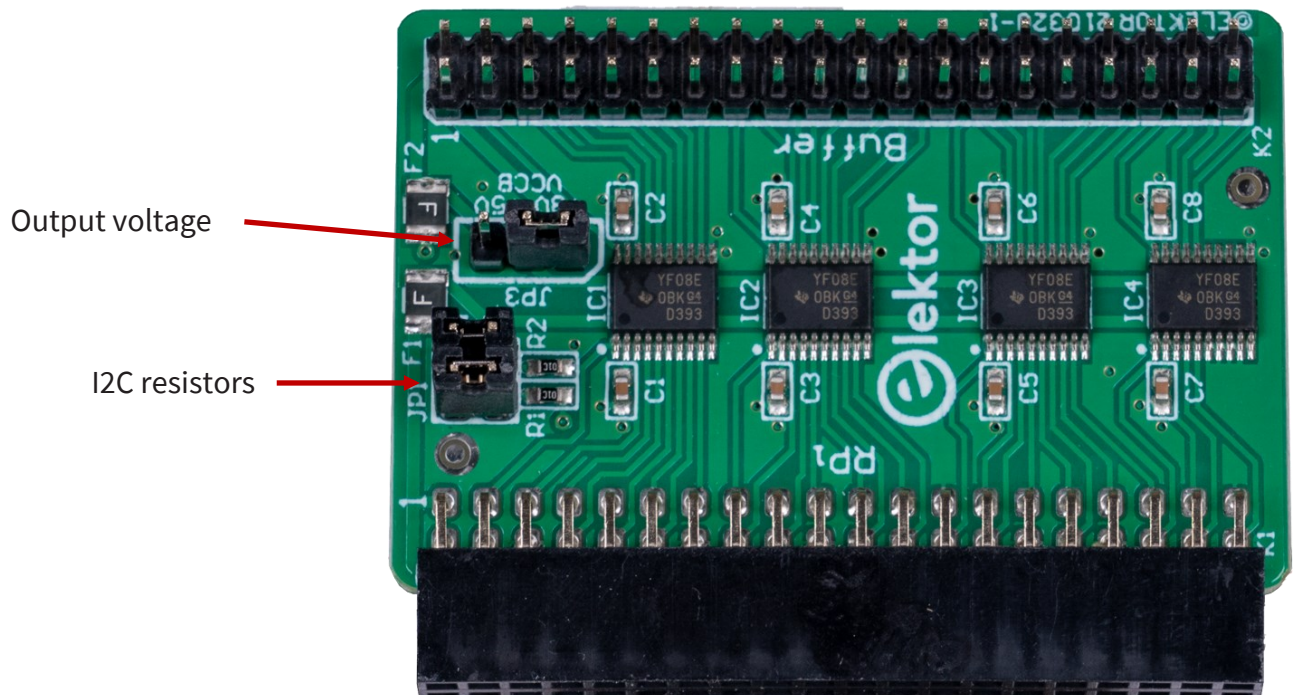
2. CONNECTION

This logic level converter is connected to the GPIO header of your Raspberry Pi.











































3. ADJUSTMENT OPTIONS

There are jumpers on the logic level converter with which you can make further settings. There is a jumper on the board which allows you to set whether a voltage of 3.3 V or 5 V is output. Furthermore, there are two more jumpers on the board, which deactivate the pull-up resistors on the I2C lines by removing the jumpers.



4. PINOUT



3.3 V DC			5 V DC
GPIO 2 (SDA1, I2C)			5 V DC
GPIO 3 (SCL1, I2C)			Ground
GPIO 4			GPIO 14 (TXD0)
Ground			GPIO 15 (RXD0)
GPIO 17			GPIO 18
GPIO 27			Ground
GPIO 22			GPIO 23
3.3 V			GPIO 24
GPIO 10 (SPI, MOSI)			Ground
GPIO 9 (SPI, MISO)			GPIO 25
GPIO 11 (SPI, CLK)			GPIO 8 (SPI)
Ground			GPIO 7 (SPI)
ID_SD (I2C, EEPROM)			ID_SC
GPIO 5			Ground
GPIO 6			GPIO 12
GPIO 13			Ground
GPIO 19			GPIO 16
GPIO 26			GPIO 20
Ground			GPIO 21

5. OTHER INFORMATION

Our information and take-back obligations according to the Electrical and Electronic Equipment Act (ElektroG)

Symbol on electrical and electronic equipment:



This crossed-out dustbin means that electrical and electronic appliances do not belong in the household waste. You must return the old appliances to a collection point.

Before handing over waste batteries and accumulators that are not enclosed by waste equipment must be separated from it.

Return options:

As an end user, you can return your old device (which essentially fulfils the same function as the new device purchased from us) free of charge for disposal when you purchase a new device.

Small appliances with no external dimensions greater than 25 cm can be disposed of in normal household quantities independently of the purchase of a new appliance.

Possibility of return at our company location during opening hours:

SIMAC Electronics GmbH, Pascalstr. 8, D-47506 Neukirchen-Vluyn, Germany

Possibility of return in your area:

We will send you a parcel stamp with which you can return the device to us free of charge. Please contact us by email at Service@joy-it.net or by telephone.

Information on packaging:

If you do not have suitable packaging material or do not wish to use your own, please contact us and we will send you suitable packaging.

6. SUPPORT

If there are still any issues pending or problems arising after your purchase, we will support you by e-mail, telephone and with our ticket support system.

Email: service@joy-it.net

Ticket system: <http://support.joy-it.net>

Telephone: +49 (0)2845 9360-50 (10-17 o'clock CET)

For further information please visit our website:

www.joy-it.net