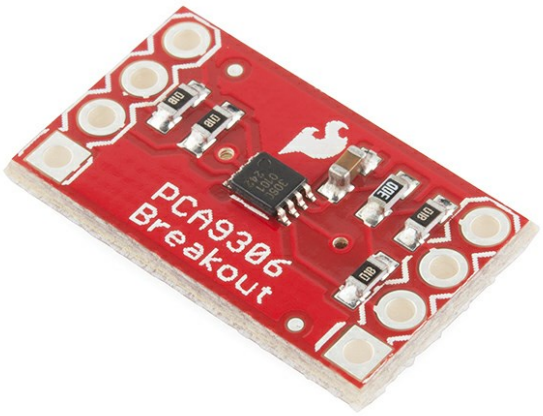




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Previous Versions

SparkFun Level Translator Breakout - PCA9306

BOB-11955 ROHS

2

DESCRIPTION DOCUMENTS

This is a breakout board for the PCA9306 dual bidirectional voltage-level translator. Because different parts sometimes use different voltage levels to communicate, voltage level translators can be the key to making different parts play nice.

The PCA9306 is a dual bidirectional I2C-bus and SMBus voltage-level translator that's operational on the low side from 1.0 V to 3.6 V and on the high side from 1.8 V to 5.5 V. Simply apply your low- and high-side reference voltages to the VREF1 and VREF2 respectively, connect your I/O and drive the Enable pin high to open bidirectional voltage translation without the use of a direction pin!

Replaces:BOB-10403

SparkFun Level Translator Breakout - PCA9306 Product Help and Resources

SKILLS NEEDED

Core Skill: **Soldering**

This skill defines how difficult the soldering is on a particular product. It might be a couple simple solder joints, or require special reflow tools.

2

Skill Level: Rookie - The number of pins increases, and you will have to determine polarity of components and some of the components might be a bit trickier or close together. You might need solder wick or flux.
See all skill levels

Core Skill: **Programming**

If a board needs code or communicates somehow, you're going to need to know how to program or interface with it. The programming skill is all about communication and code.

3

Skill Level: Competent - The toolchain for programming is a bit more complex and will examples may not be explicitly provided for you. You will be required to have a fundamental knowledge of programming and be required to provide your own code. You may need to modify existing libraries or code to work with your specific hardware. Sensor and hardware interfaces will be SPI or I2C.
See all skill levels

Core Skill: **Electrical Prototyping**

If it requires power, you need to know how much, what all the pins do, and how to hook it up. You may need to reference datasheets, schematics, and know the ins and outs of electronics.

required to know a bit more about the component, such as orientation, or how to hook it up, in

addition to power requirements. You will need to understand polarized components.
See all skill levels

COMMENTS 3 | REVIEWS ★★★★★ 2

Customer Reviews

★★★★★ 5 out of 5

Based on 2 ratings:

5 star		2
4 star		0
3 star		0
2 star		0
1 star		0

Currently viewing all customer reviews.

★★★★★ Small Easy to use

about 3 months ago by 2stacks ✔ verified purchaser

Best footprint and labeling for I2C voltage translator.

START SOMETHING.

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In 2003, CU student Nate Seidle blew a power supply in his dorm room and, in lieu of a way to order easy replacements, decided to start his own company. Since then, SparkFun has been committed to sustainably helping our world achieve electronics literacy from our headquarters in Boulder, Colorado.

No matter your vision, SparkFun's products and resources are designed to make the world of electronics more accessible. In addition to over 2,000 open source components and widgets, SparkFun offers curriculum, training and online tutorials designed to help demystify the wonderful world of embedded electronics. We're here to help you start something.

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