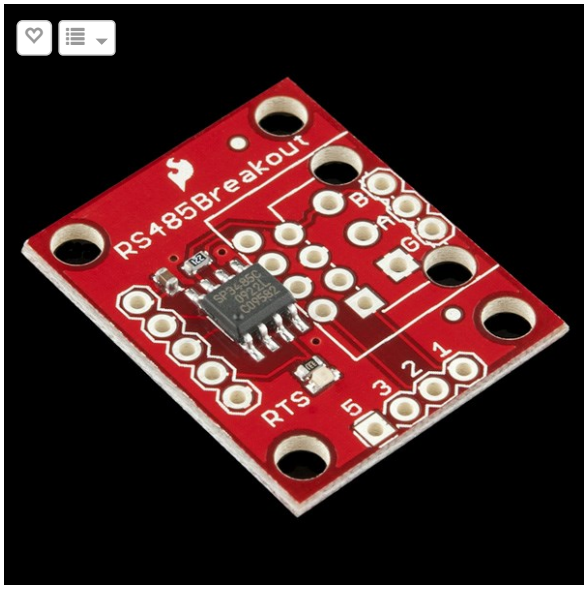




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Previous Versions

SparkFun Transceiver Breakout - RS-485

BOB-10124 ROHS

5

DESCRIPTION FEATURES DOCUMENTS

- Fully equipped with SP3485 RS-485 transceiver and supporting components
- Operates from a single +3.3V supply
- Interoperable with +5.0V logic
- RS-485 input/output broken out to RJ-45 connector, 3.5mm screw terminal, and 0.1" pitch header
- Driver/Receiver Enable connected to RTS line
- -7V to +12V Common-Mode Input Voltage Range
- Allows up to 32 transceivers on the serial bus
- Driver Output Short-Circuit Protection
- 0.9x1.0"

SparkFun Transceiver Breakout - RS-485 Product Help and Resources

SUPPORT TIPS SKILLS NEEDED

TX vs. RX:

last updated about 11 months ago

The SparkFun Transceiver Breakout - RS-485 ships configured so that are in receive only mode until you pull the RTS pin high. When RTS is high, they go into transmit mode and will return to receive mode once RTS is low again. While in transmit mode, the board will not be able to receive any data from the RS-485 bus.

COMMENTS 47 REVIEWS 5

Customer Reviews

3.8 out of 5

Based on 5 ratings:

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

3 of 7 found this helpful:

★★★☆☆ PROCEED WITH CAUTION

about 3 years ago by Member #499376 ✔ verified purchaser

Although it is reasonably priced and possessed of a clever variety of plated holes for the attachment of various connectors, if I had done my homework I would not have purchased this board. Why? Because the obscure SP3485 chip that it uses does not have automatic flow control and is therefore not compatible with many popular open source libraries for RS485 and in particular Modbus RTU.

Unfortunately there don't seem to be a lot of other choices except certain parts in online auctions and building one's own board with MAX488, MAX13487E or another flow-control transceiver.

So this board delivers what it promises, but what it promises is a clever implementation of a chip that no one else uses for quite good reasons. Not recommended.

0 of 2 found this helpful:

★★☆☆☆ Extremely Poor Documentation

about 2 years ago by Member #608682 ✔ verified purchaser

I should not have to load up Eagle to get a correct schematic and layout of the board. The Schematic file should be complete

> Single T replied on September 28, 2015:
>
> You are looking at a PDF of the Eagle schematic. It is not incomplete, it simply makes use of hidden connections that are managed within Eagle. The easiest way to view the traces is in Eagle. We post the PDF and the Eagle files so that the end user has the option to view as either. However, for best experience, using Eagle to view the schematic allows quicker and simpler navigation through the wiring.

★★★★★ Handy little breakout.

about 2 years ago by Member #422466 ✔ verified purchaser

Worked fine in my application. I needed to replace the C grade part with an E grade part for wider temperature range. The C grade part will be fine for most applications. It was nice to be able to simply swap out the part.

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