



SparkFun USB to RS-485 Converter

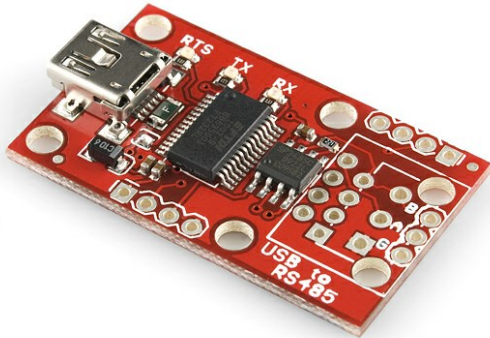
BOB-09822 ROHS ✓

★★★★☆ 5

DESCRIPTION

FEATURES

DOCUMENTS



- Fully equipped with SP3485 RS-485 transceiver and FT232RL USB UART IC
- Operates from USB supply
- RX, TX, and RTS LED indicators
- Mini-B USB connector
- USB power and RX/TX lines broken out to a 0.1" pitch header
- 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 of FT232RL
- -7V to +12V Common-Mode Input Voltage Range
- 1.55x0.9 inches



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Previous Versions ▾

SparkFun USB to RS-485 Converter Product Help and Resources

SUPPORT TIPS

SKILLS NEEDED

Dimensions

last updated about 10 months ago

Measuring with the caliper, here are some dimensions:

width = ~23.57mm (one side of PCB to the other side of the PCB)

length = ~40.40mm (end of the PCB to the edge of the mini-B connector)

height = 1.65mm (measured from the bottom of the PCB to the top of the PCB)

maximum height = (~5.71mm from the bottom of the PCB to the top of the mini-B connector)

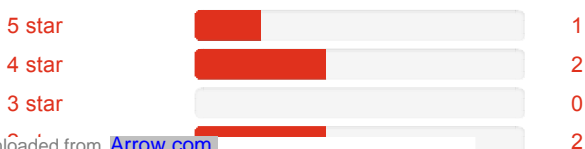
COMMENTS 33

REVIEWS ★★★★★ 5

Customer Reviews

★★★★☆ 3.4 out of 5

Based on 5 ratings:



Currently viewing all customer reviews.

★★★★☆ Does precisely what it should.

about 3 years ago by **Svartalf** 

Simple. Straightforward. Just hook it up per the pinout and go. Add a RJ45 and make it easier.

★★★★☆ Schematic vs description?

about 2 years ago by **Member #90714** 

The description states "Driver/Receiver Enable connected to RTS line of FT232RL" but the schematic shows that the driver receiver/receiver enable is connected to TXDEN. Which is it?

★★★☆☆ Serious problems with this product

about 2 years ago by **Member #478865** 

I bought 10 Pc. Three of the units work ok. Seven of them do not work.

I have checked the converters with an oscilloscope and a multimeter. In the bad pieces, level of Rx pin of the SP3485 is low, and when data arrives goes to high without following the incoming data. Resistance between Vcc and Rx pins is infinite. In the good pieces, level of Rx pin is high, and when data arrives follows data correctly. Resistance between Vcc and Rx pins is high, but not infinite.

I wait for your comments Regards Daniel

 **ROB-24601** replied on August 24, 2016:

Hmm, this is not an issue we've seen before. I'll do some testing on some boards, and contact you directly to resolve this for you.

★★★☆☆ Didn't work

about a year ago by **Member #517837** 

Bought this to interface an RS-485 sonar I purchased. Loved the price and size, but I had intermittent communications issues. Neither Sparkfun nor the sonar company could help me get it to work. Ended up buying a more expensive converter from another company which worked perfectly.

★★★★★ Works very good

about 6 months ago by **Member #162252** 

It has been working for over 3 months, no issues. I'm using it to communicate a Raspberry with a driver of a huge motor that powers a fan.



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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

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