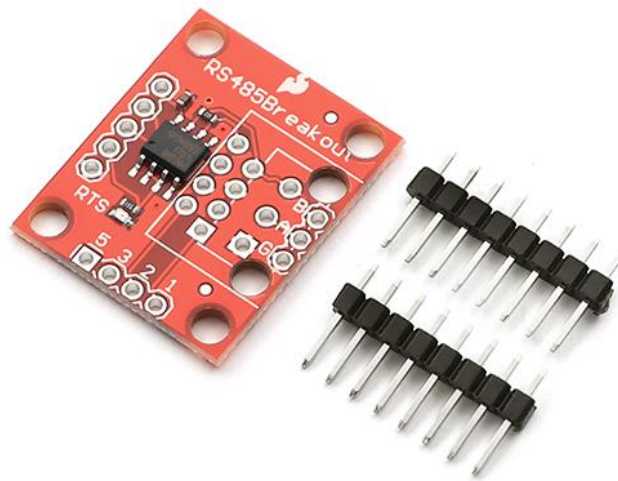# Breakout Board
Model: RS485 BREAKOUT

Description:

This is a breakout board for the SP3485 RS-485 transceiver IC, which will convert a UART serial stream to RS-485. The SP3485 is a half-duplex transceiver, so it can only communicate one way at a time, but it can reach transmission speeds of up to 10Mbps. This board requires a very low amount of power and can operate from a single +3.3VDC supply.

This breakout board includes the SP3485 RS-485 transceiver, filter capacitor, and other components shown on the schematic. We've broken out the RS-485 output to three different connections: (1) an RJ-45 connector, (2) a 3-pin 3.55mm screw terminal, and (3) a 3-pin 0.1" pitch header; none of these output connectors come populated.

Specifications:

- Supply Voltage: 3.3V.
- Compatible with 5V logic.
- Input Voltage Range: -7 to 12V in common mode.
- Fully equipped with SP3485 RS-485 transceiver and supporting components.
- 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.
- Simultaneous connection of 32 transceivers on the serial bus.
- Short-circuit protection on the driver output.
- Dimensions: 22.86 × 25.4 mm.

Made in China