seeed studio

INDUSTRIAL PRODUCT DATASHEET

RS485 Breakout Board for Seeed Studio XIAO

The RS485 Breakout Board for Seeed Studio XIAO provides reliable long-distance RS-485 communication up to 1200 meters, supports 5V/12V input, and is ideal for industrial automation, remote monitoring, and data acquisition.

SKU	UPDATED	PRICE
113991354	2026-09-20 06:20:14	$5.90(Excl. VAT)

Overview

The RS485 Breakout Board for Seeed Studio XIAO enables long-distance RS-485 communication up to 1200 meters (approximately 3973 feet) and supports 5V or 12V power input via two 3-pin terminals, with a compact design about the size of two XIAO boards. It is designed for industrial automation, remote monitoring systems, data acquisition, and other embedded serial communication applications, though it is not directly compatible with the XIAO nRF54L15 series until official Arduino support is available.

Key Features

Note:

This expansion board is currently not directly compatible with the XIAO nRF54L15 series because Arduino is not supported.

However, the hardware interface is fully compatible, and developers can manually adapt the software if needed.

Official software support from Seeed Studio is under development — stay tuned for updates!

- **Seamless Compatibility with Seeed Studio XIAO:** Designed to work seamlessly with the Seeed Studio XIAO development boards.
- **Long-Distance Transmission**: Suitable for communication distances of up to 1200 meters (approximately 3973 feet).
- **Supports Wide Voltage Input**: Compatible with 5V and 12V power supply
- **Two Terminal Connection**: two 3-pin terminals for both signal wire and power
- **Compact Design**: The breakout board features a compact form factor (size of 2 XIAO boards), making it suitable for space-conscious project

What is RS-485?

RS-485 is an efficient and reliable serial communication standard, suitable for various applications that require long-distance and multipoint connectivity. Its noise immunity and flexibility have made it widely used in industrial and communication sectors.

How does RS-485 work?

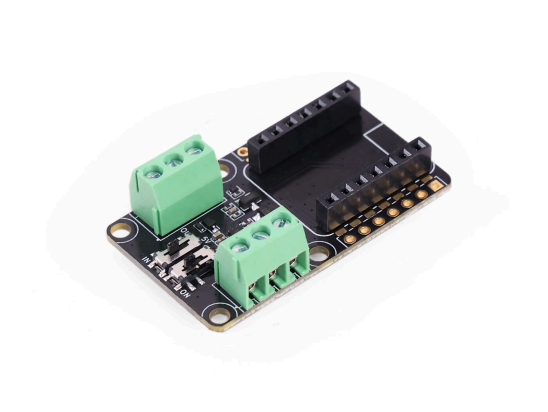
RS-485 uses a pair of signal lines (A and B) to transmit data, providing excellent noise immunity and supporting half-duplex communication modes. It allows for the connection of up to 32 devices on the same bus, with each device having a unique address for identification in sending and receiving data. This standard is widely used in industrial automation, remote monitoring, and other applications, and when combined with the Modbus protocol, it facilitates efficient data exchange and management between devices.

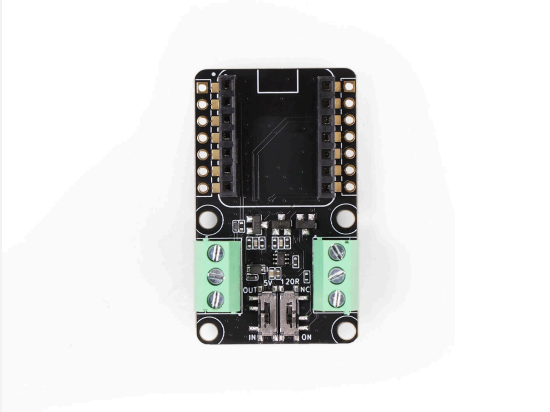
With the Seeed Studio RS-485 Breakout Board, you can harness the powerful capabilities of the **Seeed Studio XIAO development boards and their extensive ecosystem** to create projects that require reliable high-speed long distance communication. Whether you are developing industrial control systems or IoT devices, this breakout board offers a reliable and compact solution to integrate RS-485 functionality into your projects.

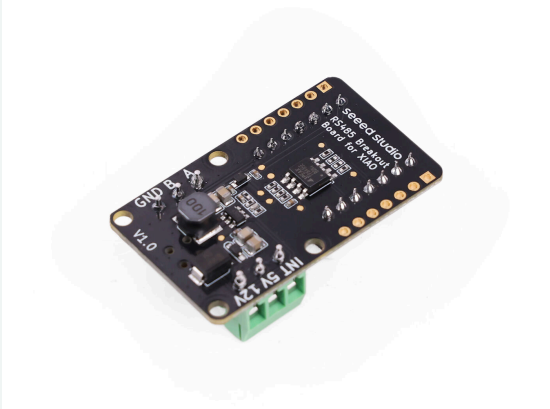
Learn more about it here.

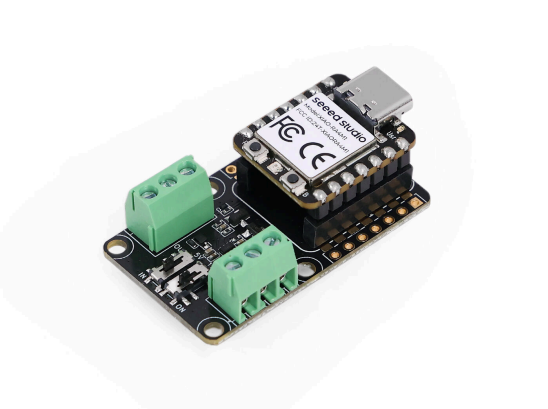
All about RS485 - How RS485 Works and How to Implement RS485 into Industrial Control Systems? - Latest Open Tech From Seeed

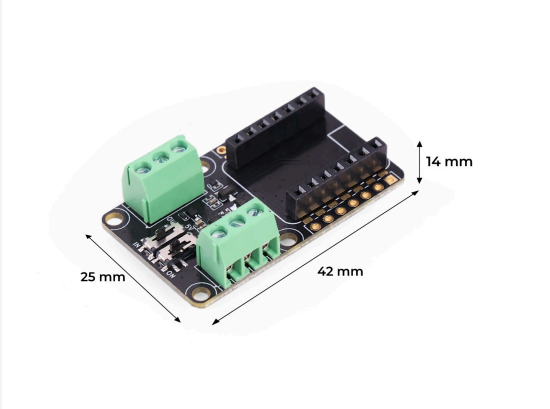
Product Gallery









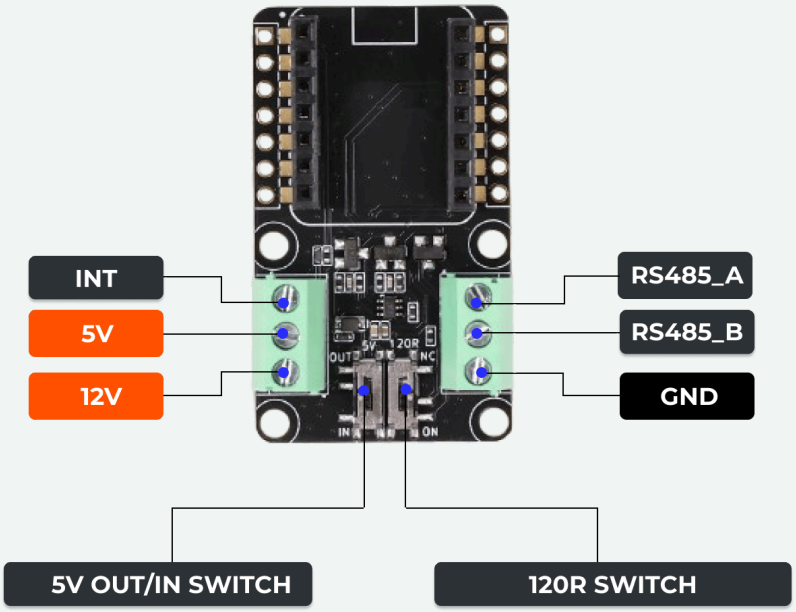


Specification

Product	Seeed Studio RS-485 Breakout Board
Compatibility	Seeed Studio XIAO dev boards, Adafruit QT Py
Communication Interface	RS-485

RS485 Chip	TP8485E, half-duplex tranceiver
Terminal Connection	3-pin terminal for signal wire and 3-pin terminal for power
Communication Distance	1200 meters
Transmission Speed	250k bps

Hardware Overview



Applications

- **Industrial Automation**
- **Remote Monitoring Systems**
- **Data Acquisition Systems**
- **Other Embedded Systems Requiring Serial Communication**

Part List

Seeed Studio RS-485 Breakout Board	x1

Compliance & Logistics

HSCODE	8543909000
USHSCODE	8543903500
UPC	
EUHSCODE	8543709099
COO	CHINA

Resource Links

- https://www.seeedstudio.com/RS485-Breakout-Board-for-XIAO-p-6306.html

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com