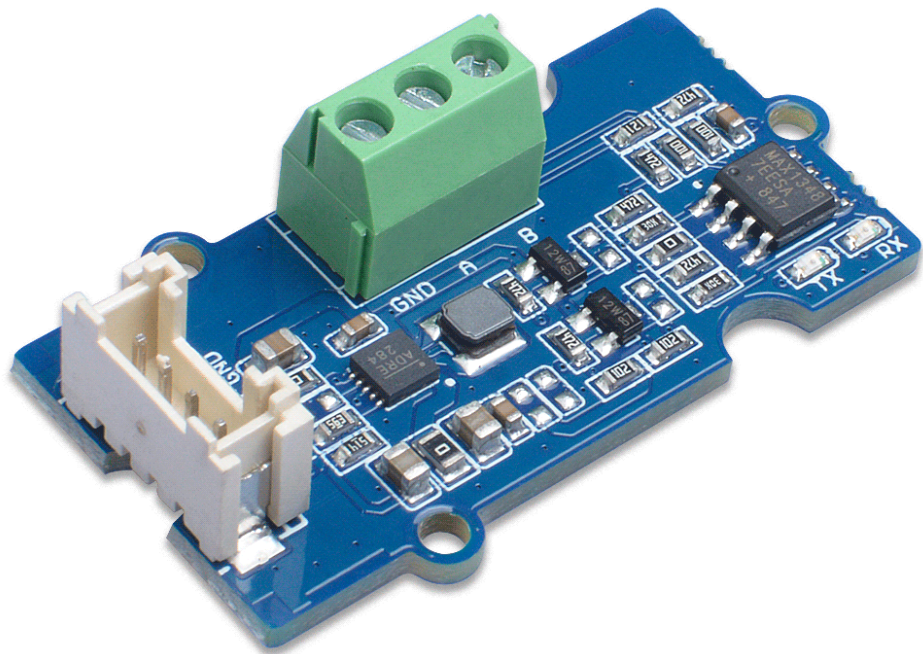# Grove - RS485 SKU:103020193

The Grove RS-485 allows your Arduino connect with RS-485 device easily, you just need to plug and play. This module is highly stable and supports error-free transmission of 500k bps.

RS485 is cost-effective solution in serial communication, it can be used to data rate at 10Mbit/s or distance up to 1200m at lower speed.

Version

Product Version	Changes	Released Date
Grove - RS485	Initial	Nov 2018

Features

- Supply voltage: 3.3V/5V
- Interface: UART
- 500k bps error-free transmission

Specification

Parameter	Value
Size	L: 40mm W: 20mm H: 12mm
Weight	4.9g
Package Size	L: 135mm W: 85mm H: 13mm
Gross Weight	11g

Hardware Overview

Pinout

④ GND: connect this module to the system GND
③ VCC: you can use 5V or 3.3V for this module
② RX: UART data reception
① TX: UART data UART transmission

⑤ Max13487E IC
⑥ RS-485 Screw Terminal Interface
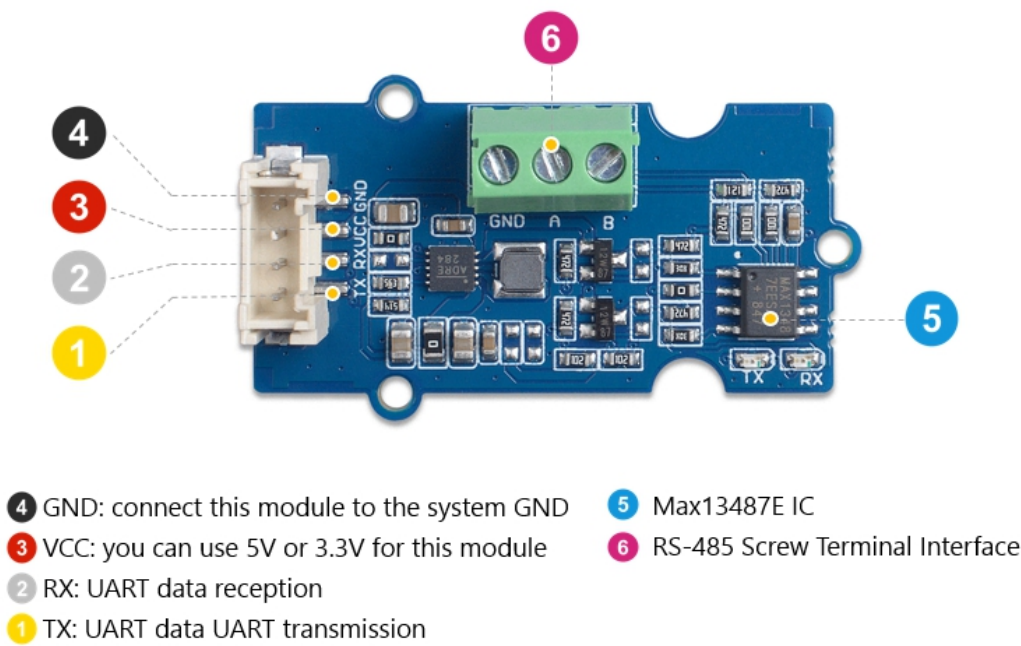
Figure 1. *Pinout*

Platforms Supported

Arduino	Raspberry Pi	BeagleBone	Wio	LinkIt ONE

Resources

- **[ZIP]** Grove - RS485 Schematic file
- **[PDF]** Max13478E Datasheet

Tech Support

Please submit any technical issue into our forum or drop mail to techsupport@seeed.cc