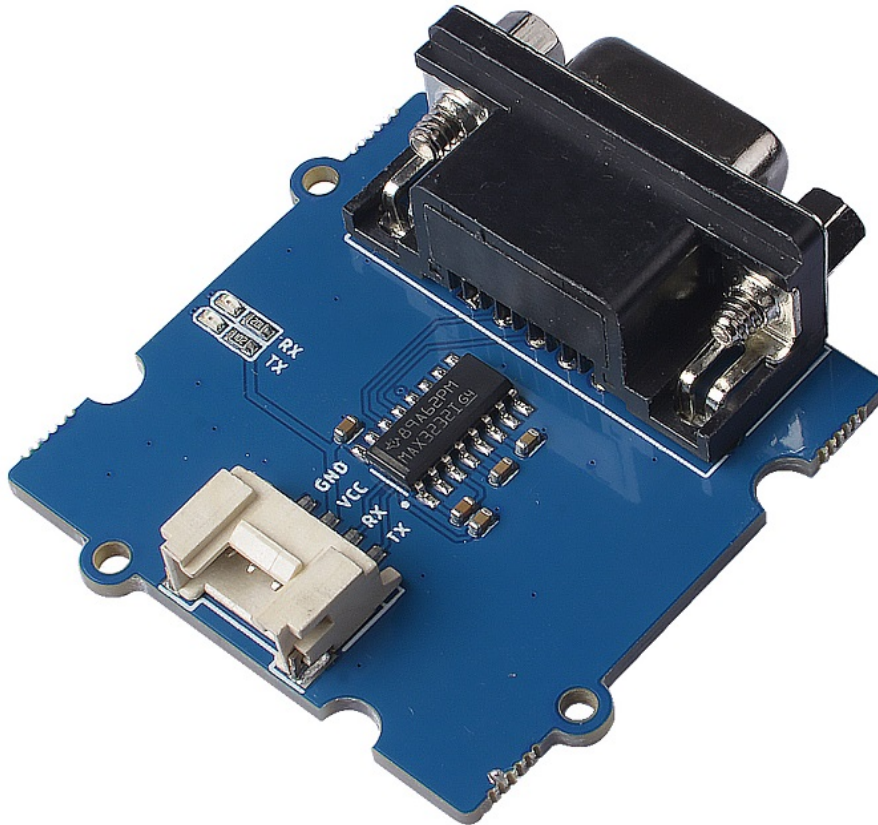title: Grove - RS232 category: Grove bzurl: oldwikiname: prodimagename: surveyurl: sku: 103020192 tags:

Most of the MCUs use TTL levels, and the computer serial port generally uses 232 levels. If we want the computer to communicate with the MCU, we need this **Grove - 232**. Communication between your Arduino and your computer will be exceptionally convenient with the integrated Grove interface

This module is based on Max3232, it supports multiple baud rate communication and theoretically supports communication up to 230400bps baud.

Feature

- Easy to use
- Stable, high speed
- High cost performance
- ±15-kV ESD Protection
- Low power consumption
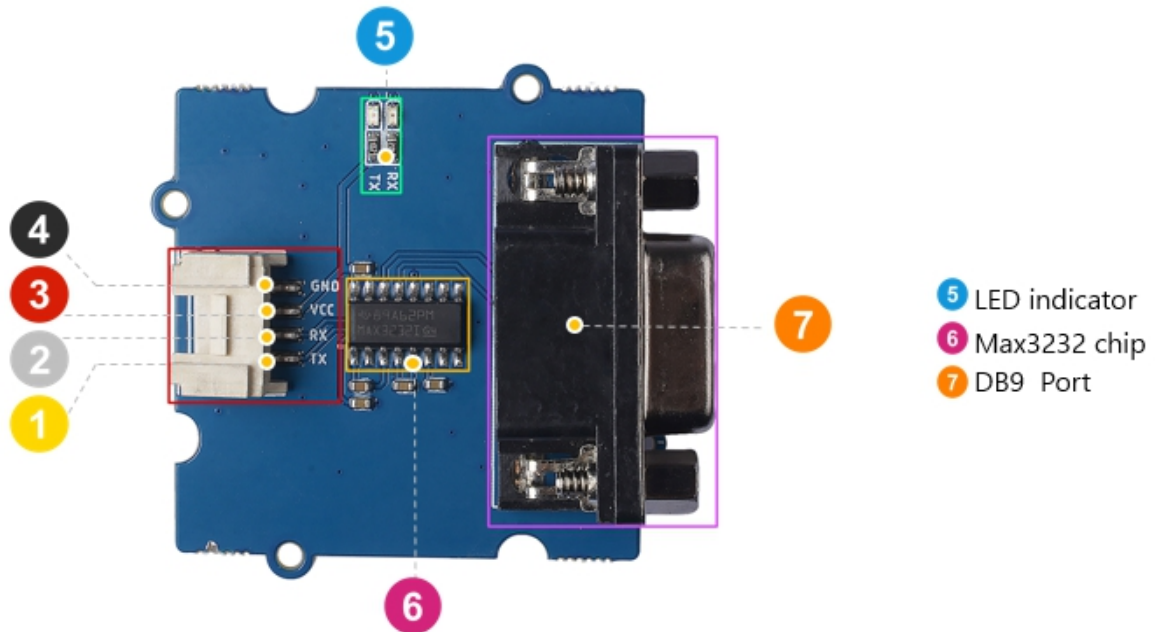- Two Drivers and Two Receivers

Specification

Item	Value
Supply Voltage	3.3V / 5V
Driver input voltage	0V ~ 5.5V
Receiver input voltage	-25V ~ +25V
Supply current(No load)	0.3mA
Operating free-air temperature	-40℃ ~ 85℃
Storage temperature range	-65℃ ~ 150℃
Maximum data rate	250 Kbit/s
Support baud rate	300bps ~ 230400bps
Length	46mm
Width	42mm
Height	16.5mm

Typical Applications

- Hand-Held Equipment
- Palmtop PCs

Hardware Overview

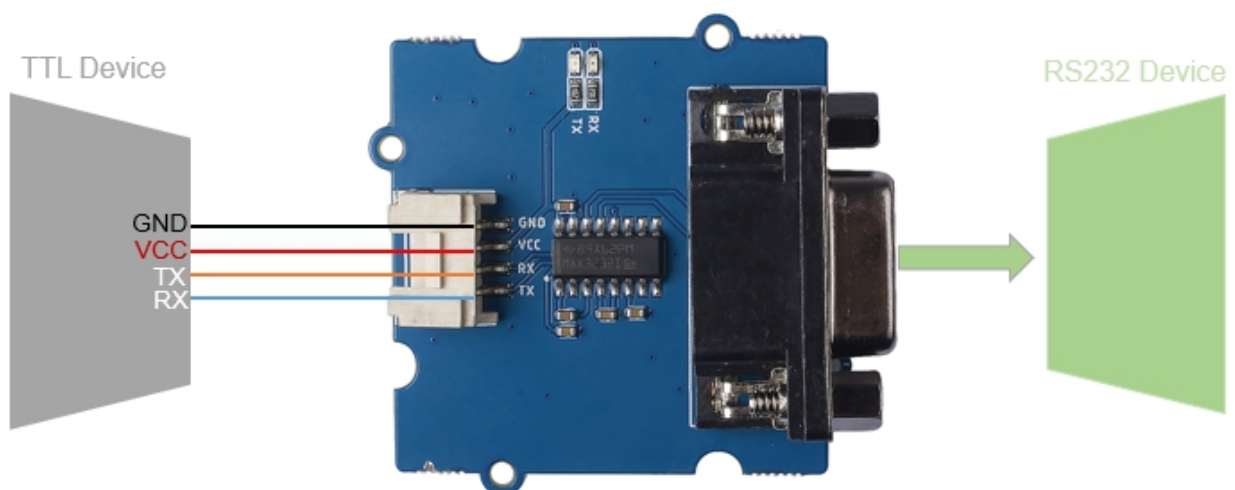Pin Out

⑤ LED indicator
⑥ Max3232 chip
⑦ DB9 Port

④ **GND**: connect this module to the system GND
③ **VCC**: you can use 5V or 3.3V for this module
② **RX**: connect to the device **TX**
① **TX**: connect to the device **RX**

Getting Started

This is a simple module that only needs to connect the corresponding interface to the corresponding device to transfer data using the serial port tool. You should note that when connecting a TTL device, the RX pin of the module needs to be connected to the TX pin of the device, and vice versa, the TX pin of the module needs to be connected to the RX pin of the device.

Resources

- **[Zip]** Grove-RS232 Eagle Files

- **[PDF]** MAX3232 Datasheet

- **[PDF]** PDF Format Wiki

Tech Support

Please do not hesitate to submit the issue into our forum