

INDUSTRIAL PRODUCT DATASHEET

# Grove - RS232 for Communicate with The MCU

Grove - RS232 for Communicate with The MCU: High-speed 1 Mbit/s RS-232 with  $\pm 15$ -kV ESD, 300  $\mu$ A low power, and Grove plug-and-play interface for handheld and battery-powered systems.

SKU

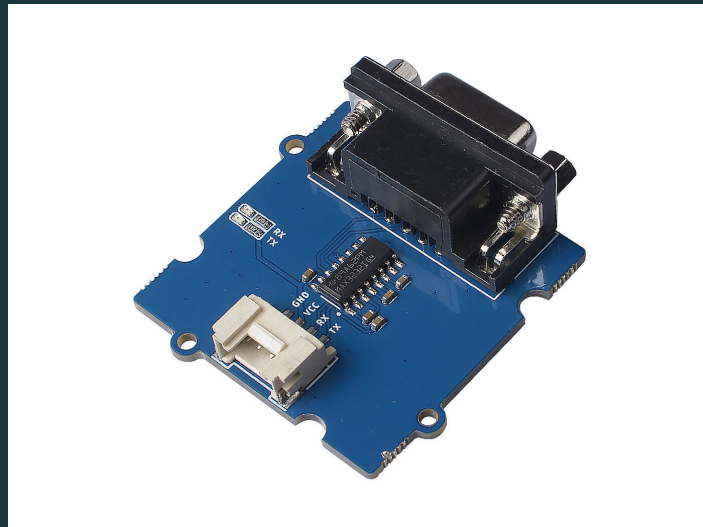
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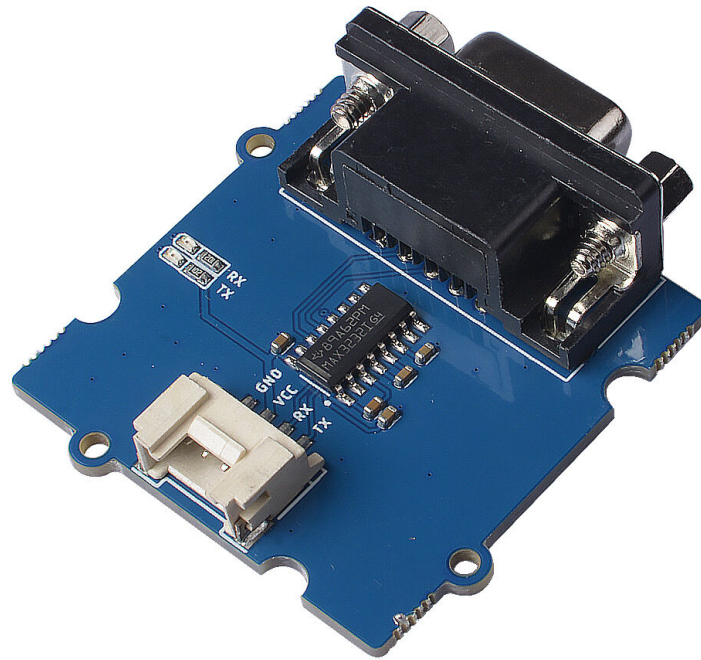
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PRICE

\$8.70(Excl. VAT)



# Overview

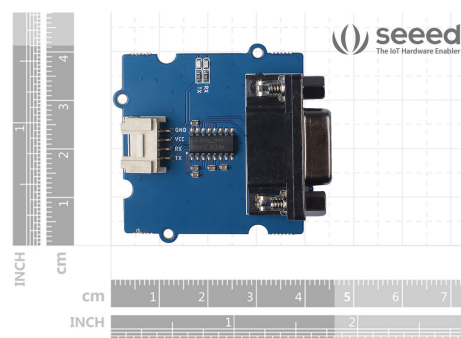
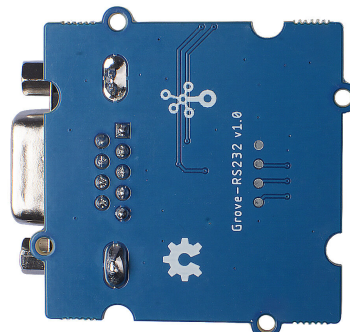
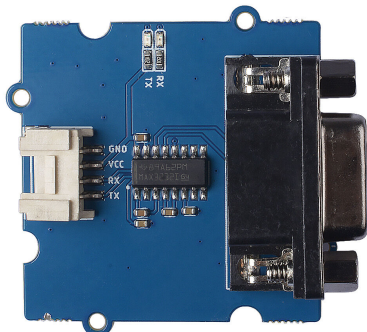


The Grove - RS232 for Communicate with The MCU provides high-speed (1 Mbit/s) RS-232 communication with  $\pm 15$ -kV ESD protection, 300  $\mu$ A low supply current, and compliance with TIA/EIA-232-F and ITU V.28 standards. It features a Grove-compatible plug-and-play interface, suitable for handheld equipment, palmtop PCs, PDAs, notebooks, and other battery-powered systems.

## Key Features

- **Stable, high speed:** Alternative High-Speed Terminal-Compatible Devices (1 Mbit/s)
- **High cost performance:** Meets or Exceeds the Requirements of TIA/EIA-232-F and ITU V.28 Standards
- **$\pm 15$ -kV ESD Protection:** RS-232 Bus-Terminal ESD Protection Exceeds  $\pm 15$  kV Using Human-Body Model (HBM)
- **Low power consumption:** Low Supply Current: 300  $\mu$ A Typical
- **Grove compatible interface:** The product ensures "Plug and Play" and could be versatile for various applications of Grove

# Product Gallery



## Specification

|                                |                          |
|--------------------------------|--------------------------|
| 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°C ~ 85°C             |
| Storage temperature range      | -65°C ~ 150°C            |
| Maximum data rate              | 250 Kbit/s               |
| Support baud rate              | 300bps ~ 230400bps       |
| Length                         | 46mm                     |
| Width                          | 42mm                     |
| Height                         | 16.5mm                   |
| size                           | L: 40mm W: 40mm H: 15mm  |
| Weight                         | 13.3g                    |
| Package size                   | L: 140mm W: 90mm H: 15mm |
| Gross Weight                   | 20g                      |

# Applications

- Hand-Held Equipment
- Palmtop PCs
- Battery-Powered Systems
- PDAs
- Notebooks
- Laptops

## Part List

|               |   |
|---------------|---|
| Grove - RS232 | 1 |
|---------------|---|

## Compliance & Logistics



|          |              |
|----------|--------------|
| HSCODE   | 8473309000   |
| USHSCODE | 8473309100   |
| UPC      | 841454121947 |
| EUHSCODE | 8471707000   |
| COO      | CHINA        |

## Resource Links

- <https://www.seeedstudio.com/Grove-RS232.html>
- [Grove-RS232 Eagle Files](#)
- [MAX3232 Datasheet](#)
- [PDF Format Wiki](#)

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