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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



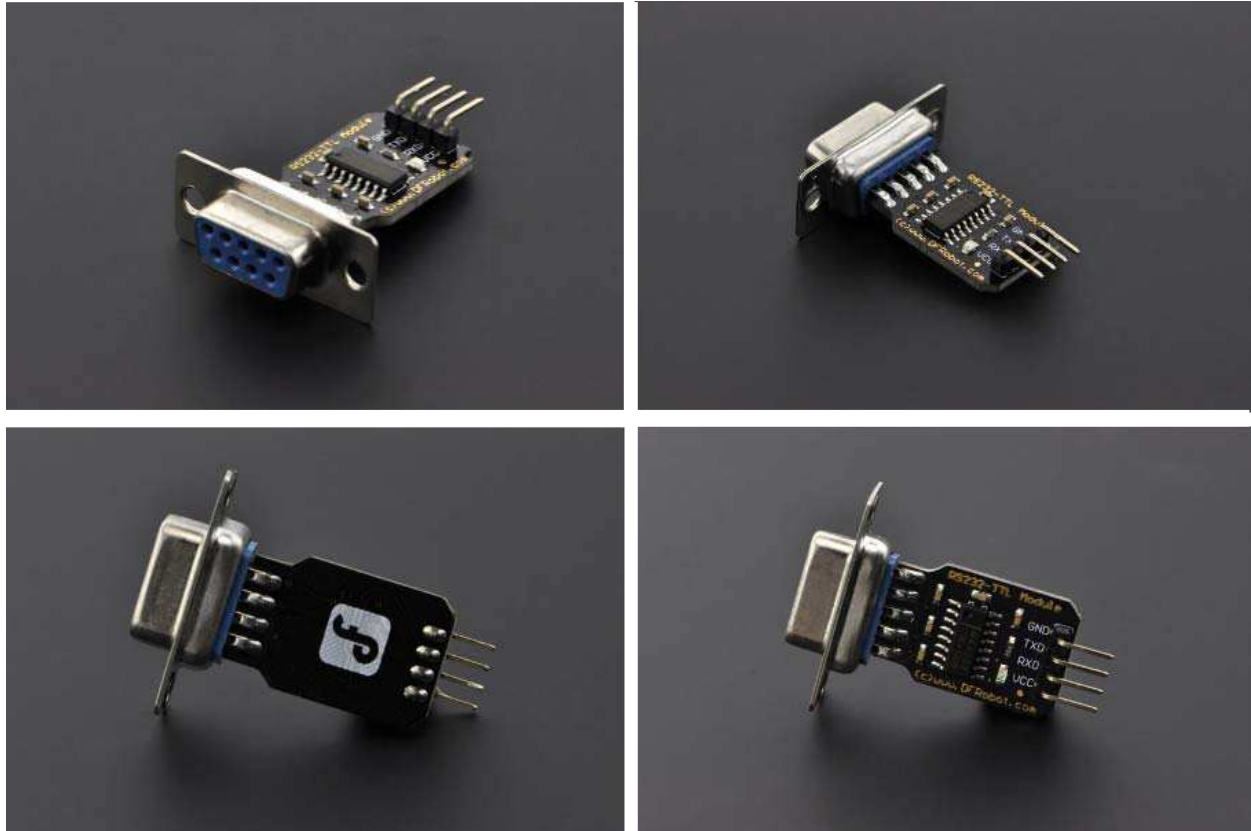
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## MAX202 RS232 to TTL Converter For Arduino

SKU:DFR0077

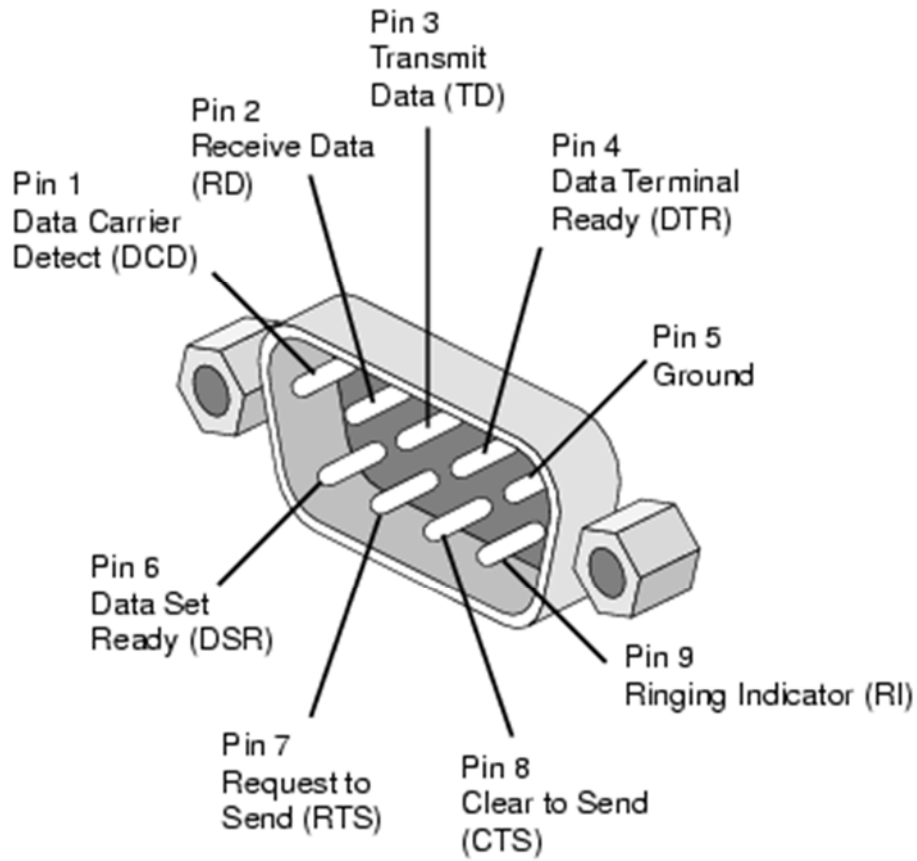
### *INTRODUCTION*

This converter uses MAX202-based level shifter for converting TTL (Transistor-Transistor Logic) -level serial to standard RS232serial.

RS232 is widely used in radio modifications, phone flash, XBOX360 flash, GPS, vehicle detection, DVD flash, hard disk repair set-top box upgrade. It can be used to program STC MCU, NXP MCU, Renesas MCU, STM32 MCU, N+2EC MCU.

This converter can be connected to an Arduino Serial pin (0,1) to convert standard Arduino ttl to RS232. It allows arduino talk to hundreds of RS232 devices.

### RS232 DB9 Pinout Diagram



### RS-232 Maximum Cable Length

The maximum cable length for RS-232 is 50ft, but in practise depends on baud rate, cable specific capacitance and ambient noise. The table below contains some rules-of-thumb from experiments done by Texas Instruments years ago.

Baud rate	Maximum range / cable length
19200	50ft
9600	500ft
4800	1000ft

## What is RS232?

"In telecommunications, RS-232 is a standard for serial communication transmission of data. It formally defines the signals connecting between a DTE (data terminal equipment) such as a computer terminal, and a DCE (data circuit-terminating equipment or data communication equipment), such as a modem. The RS-232 standard is commonly used in computer serial ports. The standard defines the electrical characteristics and timing of signals, the meaning of signals, and the physical size and pinout of connectors. The current version of the standard is TIA-232-F Interface Between Data Terminal Equipment and Data Circuit-Terminating Equipment Employing Serial Binary Data Interchange, issued in 1997." From Wikipedia

## *SPECIFICATION*

- 4 pin connector - GND, Logic out (STX), +5v, Logic In (SRX)
- Suitable for use with most microcontrollers
- 300 to 115200 bauds
- Pre-assembled board
- DB9 Female Connector (RS-232)
- Standard Header Connector (TTL)

## *SHIPPING LIST*

RS232-TTL Converter x1

- RS232 interface pinout

