

Description:

RS232 to TTL Serial Interface Module is a board with the MAX3232 transceiver integrated circuit (IC). It facilitates serial communication between TTL and RS232 ports by providing the necessary electrical signal conversion.

These boards usually have a DB9 connector soldered at one end, and four header pins with jumper cables at the other end. The jumper cables enable the user to connect the wires to a breadboard or a microcontroller project board, the DB9 connects directly to a COM port of a computer.

The MAX3232CSE IC, which comes in a 16-pin narrow SO package. It requires between 3.0 V to 5.5 V to operate and has two receivers and two transmitters. It has a maximum guaranteed data rate of 120 kbps, and the circuitry requires four 0.1 μ F charge-pump support capacitors. It is also compatible with the famous MAX232 IC pins. These boards connect to systems with a UART, they work with ATMEL and PIC microcontrollers.

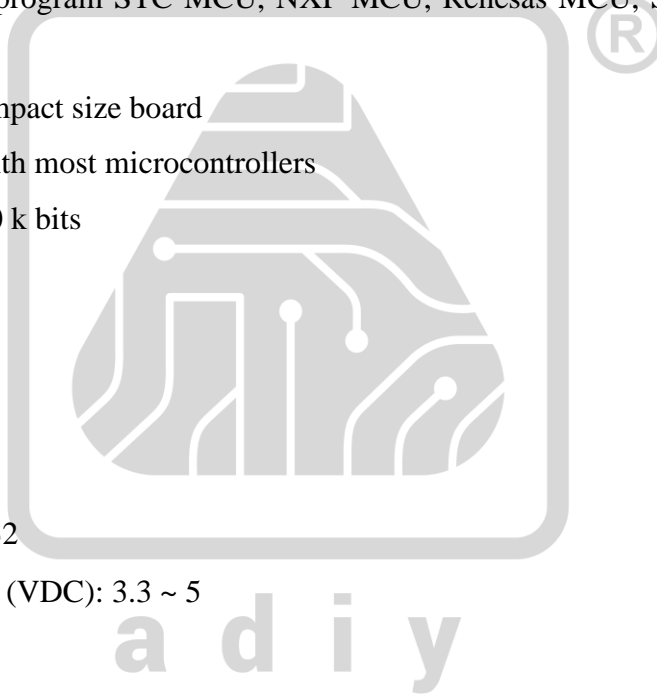
MAX3232 RS232 Serial Port to TTL Converter Module DB9 Connector 5V RS232 to TTL + Female Serial TTL + serial modules / Brush board. This module can be used to the serial port of the microcontroller module to expand DVD, router, hard drive and other equipment to upgrade.

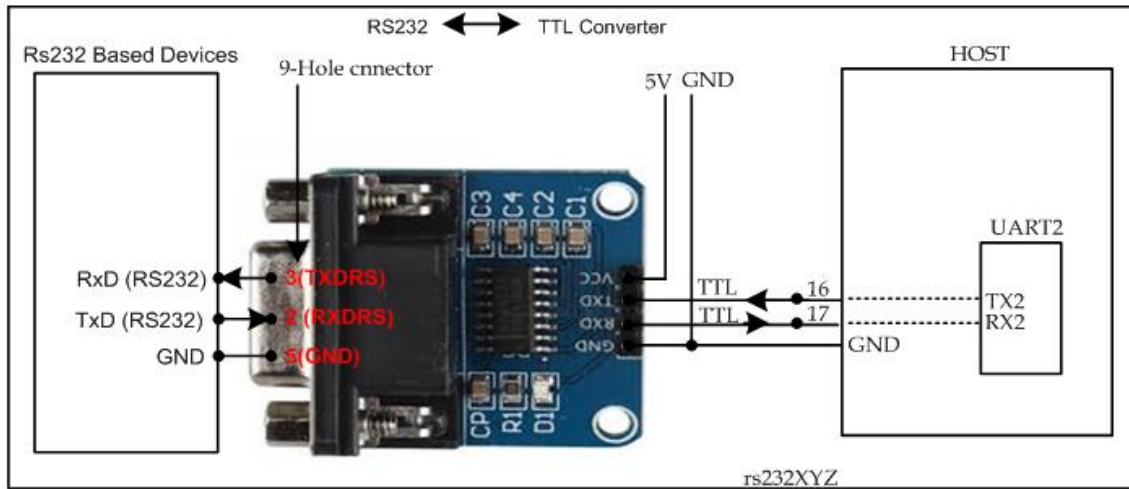
Features:

1. High-cost performance
2. ± 15 -kV ESD Protection
3. Low power consumption
4. Two Drivers and Two Receivers
5. It is widely used in radio modification,
6. Phone flash, XBOX360 flash, GPS, vehicle detection, DVD flash, hard disk repair, and set-top box upgrade.
7. It can be used to program STC MCU, NXP MCU, Renesas MCU, STM32 MCU, N+-2EC MCU
8. Pre-assembled compact size board
9. Suitable for use with most microcontrollers
10. Operates up to 250 k bits
11. Easy to use
12. Stable, high speed

Specifications:

- IC Chip: MAX3232
- Operating Voltage (VDC): 3.3 ~ 5
- Length (mm): 29
- Width (mm): 32
- Height (mm): 15
- Weight (gm): 10
- Shipment Weight; 0.016 kg
- Shipment Dimensions: 7× 5 × 2 cm

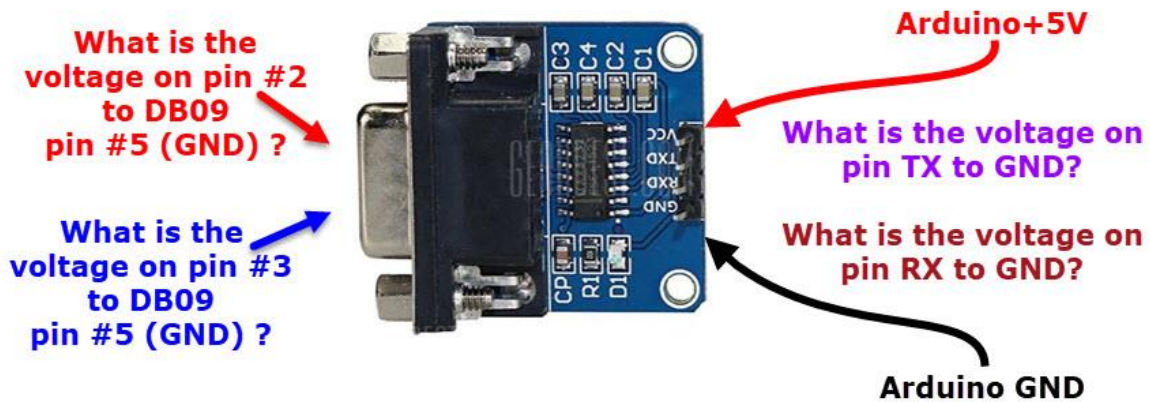




Asynchronous TTL Asynchronous RS232

Logic High: 5V Logic High: -3V to -12V (loaded)

Logic Low: 0V Logic Low: +3V to +12V (loaded)



Make the following connections between the RS323-TTL Module and the Arduino UNO.

- TXD-pin of the Module with DPin-2 (Digital Pin Connector) of UNO.
- GND Pin of the Module with GND pin of UNO.
- VCC pin of the Module with 5V-pin of UNO.

Applications:

1. Radio Modification
2. Program STC MCU, NXP MCU, STM32 MCU, etc.
3. Phone Flash
4. DVD Flash
5. Hand-Held Equipment
6. Palmtop PCs

More information check links below:

- https://wiki.seeedstudio.com/RS-232_To_TTL_Conveter-MAX3232IDR/
- https://files.seeedstudio.com/wiki/RS-232_To_TTL_Conveter-MAX3232IDR/res/RS-232_To_TTL_Conveter-MAX3232IDR.pdf
- <https://subethasoftware.com/2018/02/28/wire-up-your-own-rs-232-wifi-modem-for-under-10-using-esp8266-and-zimodem-firmware/>