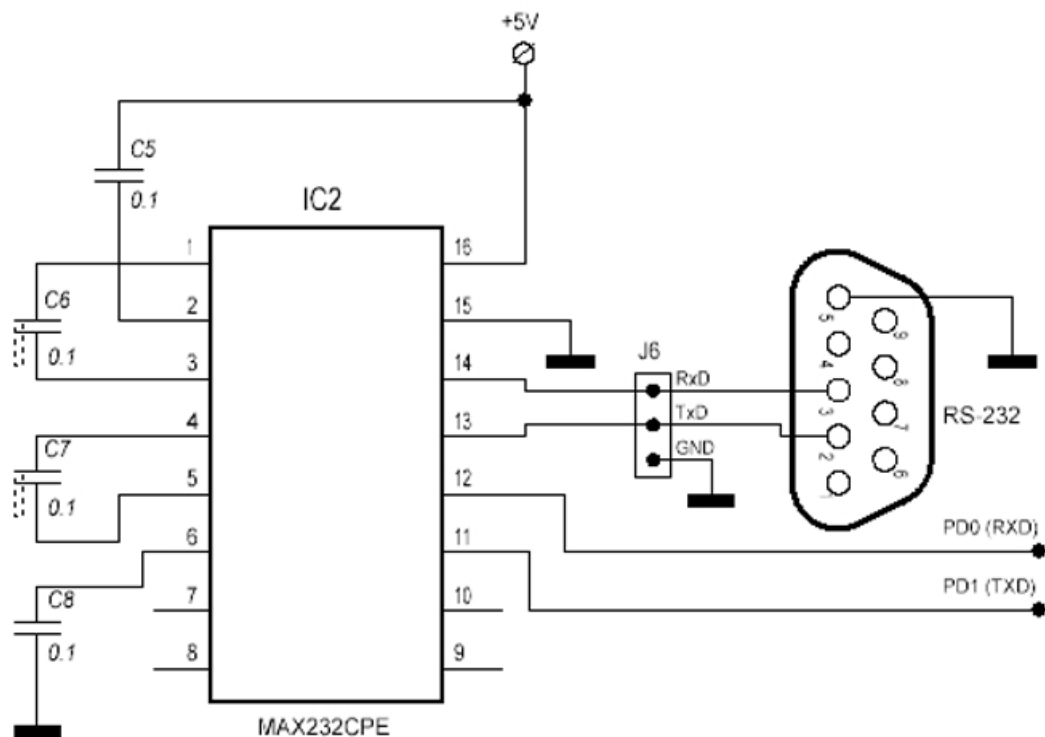


## RS-232 and USB interfaces

A connection diagram of the RS-232 interface level converter is shown below:

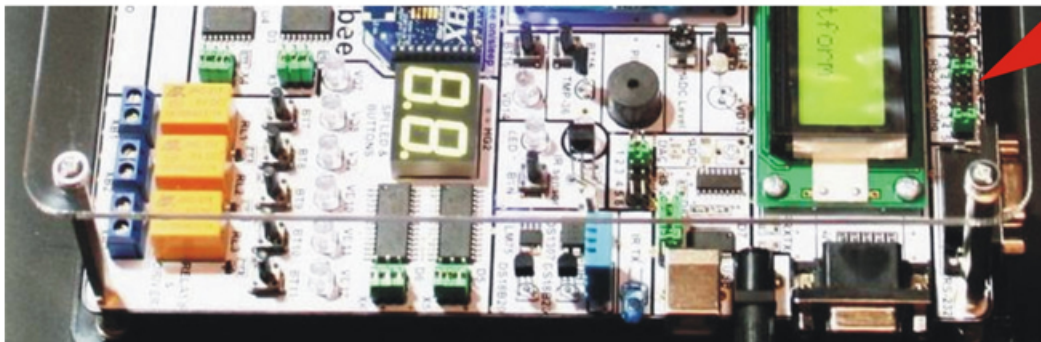


Connection diagram of the RS-232 interface level converter

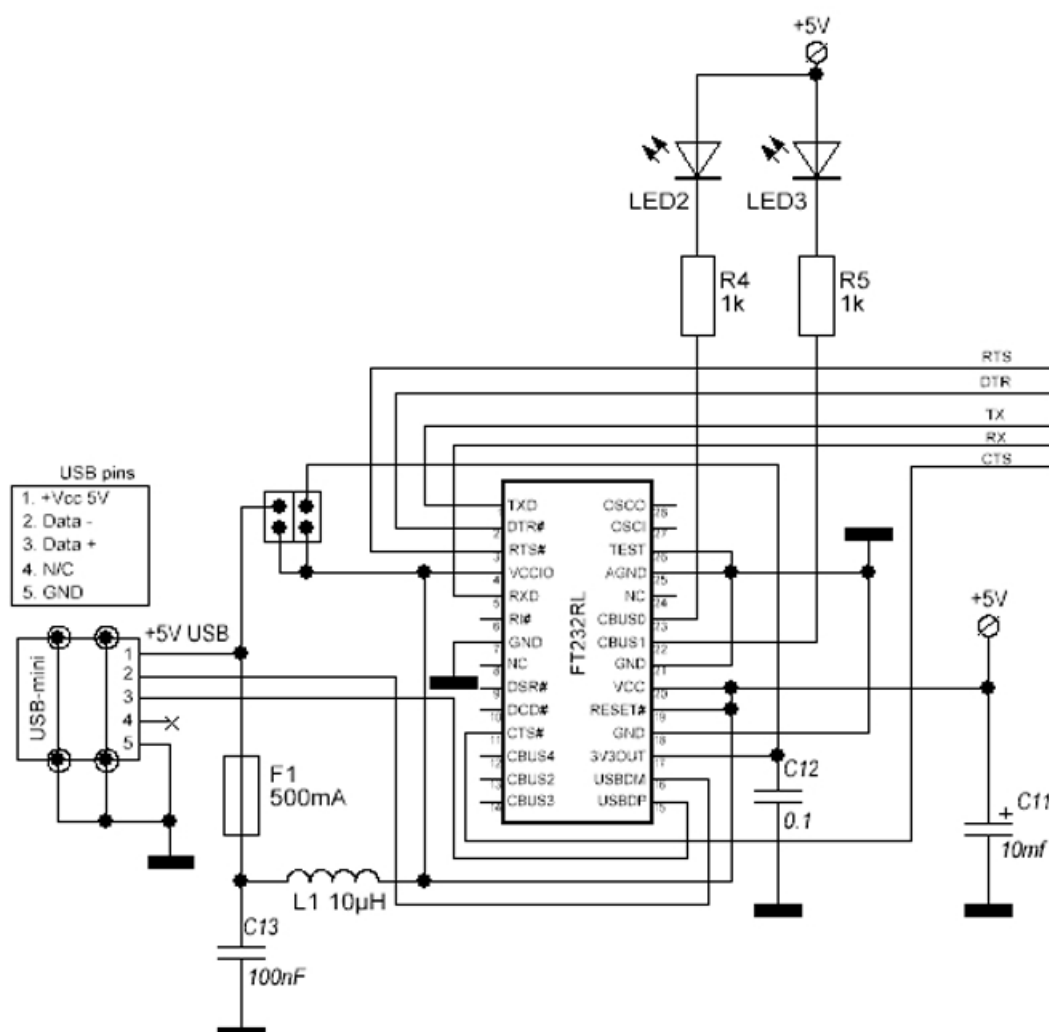
The location of the UART/RS232 interface to USB2.0 FullSpeed converter is shown below.



Location of the level converter and USB converter



Location of the connector for configuring RS-232 interface connections



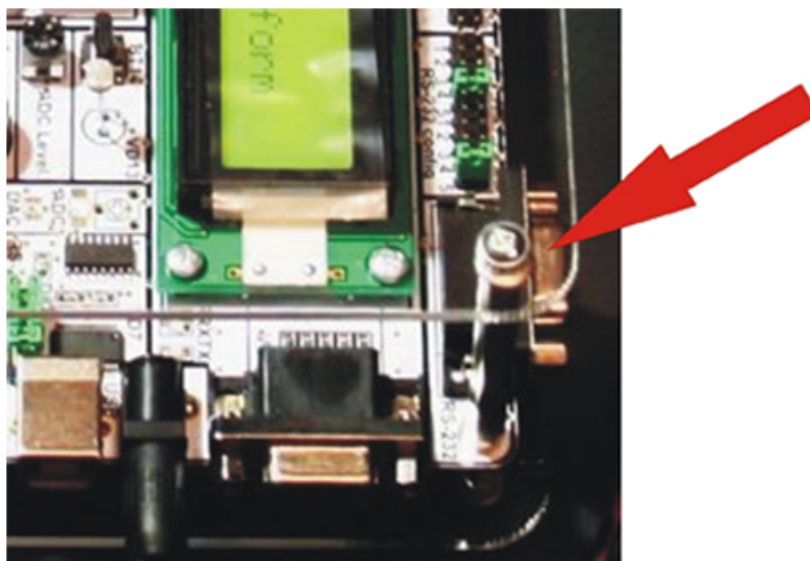
Connection diagram of the FT-232RL USB converter

At the top of the board there is a connector with jumpers for configuring the interconnection of RS-232 ports in various modules located on the board. Using the jumpers, it is possible to select one of five options for both the TX and RX signals. The connection options can be found in the table below. The numbers in the table are the same as you can see on the stand above the inscription "RS-232 config".

**Table** – Configuring the interconnection of RS-232 ports around the board

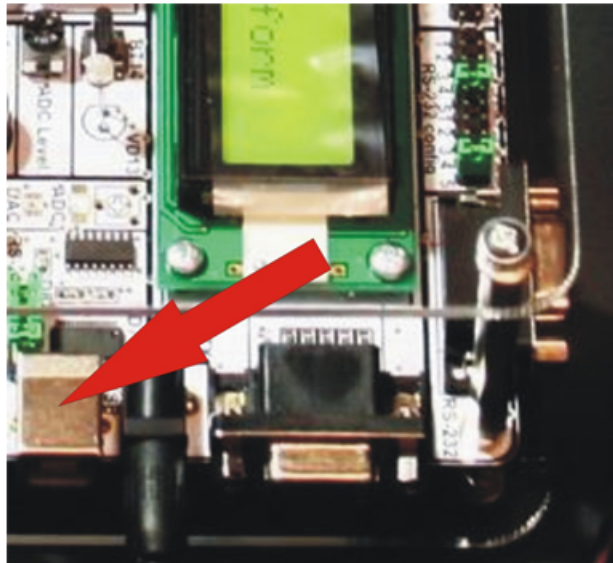
RX Signal	TX Signal	Connection options
1	1	Arduino connected to MAX232 and RS-232
2	2	Arduino connected to FT232RL and USB
3	3	Arduino connected to Zigbee module
4	4	Zigbee module connected to MAX232 and RS-232
5	5	Zigbee module connected to FT232 and USB

There is an "RS-232" (DB-9) connector located at the edge of the board, using which the stand connects to a computer's COM port. The soldered connections of the connector is typical, which allows users to connect the stand to a computer using a direct extension cord, not a Null modem cable. You can see the location of the USB connector below.



RS-232 connector location

It is also possible to connect the stand to computers without a COM for which purpose it is convenient to use the USB-COM interface converter. You can see the location of the USB connector below.



USB connector location