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RS232 Support Page

[For purchasing RS232 to TTL Cables, follow this link](#)

This converter provides two way RS232 serial communications signal conversion between the TTL (Transistor Transistor Logic) output (from an OOPic or other PIC) to and from a personal computer RS232 serial COM port. This converter can be used on any Micro controller/PIC which has TTL serial communications that needs to be converted to RS232.

Be sure to check out our newest cable. [USB to TTL](#). Since many PCs do not have RS232, this cable is key for easy TTL communication to your PC!

Our standard cables are female DB9 connectors. The females cables will plug directly into the back of the common RS232 ports found on PCs. We now carry male DB9 connectors for those that have different RS232 devices that are fitted up with a female connector. [See our manual for schematics and pin-outs.](#)

The cable converts 0v & 5v nominal TTL signal to -12v & 12v RS232 serial signal. We also have 3.3V TTL signal converters too. These cables require 5V or 3.3V power from the TTL side to operate.

The RS232 serial cable with voltage level converter comes completely assembled. The circuitry is built into the cable. You get a complete package with [RS232 serial communication instructions](#) and OOPic example code (see below). It can also be used with OOPic B.2.2+ Serial Control Protocol (SCP) for RS232 serial communications to interact with, control and debug an OOPic application while it is running.

We also have RS232 Cables with handshaking! RTS "Ready to Send" and CTS "Clear to Send".

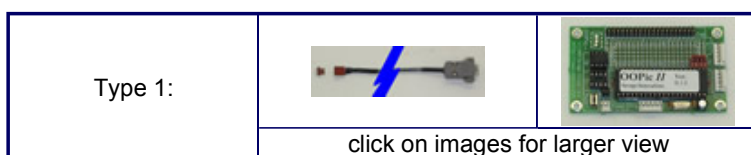
For wiring and installation with the OOPic or for your own TTL device see [Installation Instructions](#) (Last updated Sept. 19, 2006).

(Click on images to enlarge)		
Typical connector assembled (type 1 connector)	Circuitry of connector (DB9 connector housing removed)	Standard DB9 Connector - Female Pins

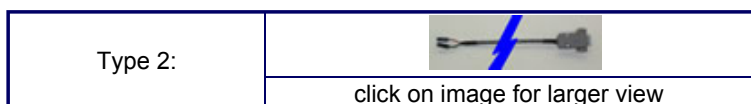
The RS232 to TTL level converter serial cable is available in two cable lengths and multiple connector configurations. **Note these converter serial cables are fully assembled and tested! - They are NOT kits.**

We sell different Types of Cables/Connectors

Type 1: RS232 to TTL signal converter serial cable (Tx, Rx, +5, GND). It is a serial cable with a single 4-pin header for mounting on the OOPic prototyping area or for your own RS232 PIC project. For the mating 4-Pin Friction Lock Header [follow this link](#). This type does not have handshaking.



Type 2: RS232 to TTL signal converter serial cable (Tx, Rx, +5, GND). It is a serial cable with two 2-pin connectors for use with the existing 40 OOPic I/O header or other PIC pinouts. This type does not have handshaking.



Type 3: This is our Handshaking cable. It has the type 1 connector for the Tx and Rx and a 2-pin connector for RTS and CTS Handshaking.



Example Code:

This is a OOPic Program that communicates with VB via the RS232 converter cable. The VB program sends a user defined number and the OOPic returns the number plus two more incremented numbers. The program can be easily expanded to transfer more variables. The VB receives the data and parses it, then displays the values. The VB code is written to allow a lot of flexibility and error checking.

- [OOPic Program](#) - oserial_test.ocs (last updated 2/13/03) using [oSerial object](#)
- [VB 6.0 Zip File](#) (last updated 2/15/03) using VB6
- [Compiled exe](#) (last updated 2/15/03) using VB6
- [Full Install of program](#) (last updated 2/15/03) (~2Mbytes)

See [terms and disclaimer](#) before downloading.

We can make cables custom to your specifications!

We can customize the cables to your needs. Many customers don't want the standard Type1, 2, or 3 connectors we stock (listed below). We can make cables to order. A large percentage of our cable orders are custom. Usually customers just want the TTL side changed to plug directly into their device, but we can also change the DB9 side too. If you need a male connector, we can do that too. We will build a prototype, a custom test fixture, then once approved we can go into production. We test every cable with an extensive array of data in both directions after assembly to verify they all work properly. At larger volumes, we can often reduce the cost of the cables too. [Contact us](#) with your requests.



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