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## Serializer Robot Controller

Price: \$99.95

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**Product Information:** (click topics to expand content)

### Overview

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The Serializer 3.0 Robot Controller provides a ready-to-use solution to interface the Microsoft™ .NET framework, or C++ applications to the most common robotic hardware.

Never before has it been this easy to interface DC motors, servos, analog sensors, I2C slave devices, single and quadrature encoders, switches/relays, and other devices to the .NET framework and/or C++ applications.

#### Develop Intelligent Apps

The Serializer was developed to allow developers to hit the ground running with their robotic application. Why waste time re-implementing bit-twiddling routines and interfacing hardware, when that time could be better spent developing a higher level (and smarter) application that allows your robot to do something meaningful?

The Serializer requires absolutely no low level programming whatsoever. Instead, developers simply take advantage of the free Serializer .NET and Serializer C++ libraries to effortlessly query or control their hardware.

#### Multiple Serial Interfaces

The new Serializer 3.0 is the third generation of the Serializer, and it allows customers to use choose from four different serial interfaces (three are interchangeable). The pluggable interface modules include RS-232, USB, or [XBee/XBee Pro](#). The TTL serial port is built into the base Serializer board. XBee, USB, and RS-232 modules are purchased separately [here](#)



Serial Interface modules (click to enlarge)



Various Serializer Configurations (click to enlarge)

Each serial interface module quickly plugs into the base Serializer board, and communication w/ the board can be established in less than a minute.

Having pluggable serial modules means you'll be able to swap the modules in/out, and you won't be stuck with a single interface. This is a great feature, especially if you plan on using the Serializer to control various projects in the future. NOTE: Only one serial interface can be used at a time with the Serializer.

The Serializer WL can be controlled by any device featuring a complimentary serial device on the other end (e.g. RS232-to-RS232, USB-to-USB, Bluetooth-to-Bluetooth, XBee-to-XBee). This could be a Personal Computer, a PDA, a Cell Phone, a PC104 board, a Single Board Computer, or a microcontroller.

#### Wireless Connectivity

The XBee/XBee Pro serial interface provides Wireless connectivity, making it extremely easy to communicate with the Serializer (and thus your robot) between distances reaching 100 and 300 feet (line of sight situations will yield longer distances, where communicating through dense/metal walls will yield shorter distances).

Thanks to the XBee/XBee Pro modules, customers can now connect to multiple Serializers using a single COM port on a host controller (PC, laptop, embedded controller, etc.). This means you can **control multiple robots simultaneously** that utilize the Serializer robot controller using a single host computer! This allows