



# 3pi Wireless Robot Sets

A complete wireless robotics system for education and hobby

**3pi Wireless Robot Sets** are robotics development kit that have everything that you need to get started with wireless robotics. It is a microcontroller board, a robot, a wireless system, a peripheral component system, all in one.

**3pi Wireless Robot Sets** allow the user to program and experiment with various aspects of robotics such as moving the robot autonomously, making it follow a line, reading sensors, controlling the robot through wireless ( ZigBee™ ), and many others.

**3pi Wireless Robot Sets** are fully assembled ( no soldering required ) and ready to use out of the box. The only user supplied items are 4 AAA size batteries. 3pi Robot has 32 Kilobytes of In-System Re-programmable Downloadable Flash Memory. Programs are downloaded into the 3pi robot with a personal computer through the 3pi Programmer over the USB port. All C code library files are free ( open source, under [Software Download](#) link on Pololu 3pi Robot page: <http://www.bipom.com/products/us/3245110.html> ). The system can also be programmed with the optional Flowcode® for AVR graphical programming environment; many Flowcode® examples are provided.

**3pi Wireless Robot Set I** excludes the 3pi robot that the user may already have. **3pi Wireless Robot Set II** is a complete kit that includes the 3pi Robot. **3pi Wireless Robot Sets** are fully backed by warranty, technical support and application assistance from BiPOM Electronics. A wide range of peripheral boards and accessories are also available.

These are great products for schools with tight budgets. Teachers can evaluate the student's software code and see actual results of that code by downloading it to the robot.

Pololu 3pi Robot (ATmega328 microcontroller)

Expansion board (installs on top of the robot) allows wireless control, BiPOM Peripheral support, multiple processors and many other possibilities.

Option: BiPOM Peripheral Boards (such as DAQ-128, OLED-1, GPS-1) and Microcontroller Boards (such as MINI-MAX/AVR) can be installed on top of the expansion board.

Hardware kit for expansion board ( Preinstalled, No soldering required )

Pololu USB AVR Programmer connects the robot to the PC for programming. Cables included.

XBee™/ZigBee™ USB Dongle is used to read and write XBee™ radio modules. It is connected to the PC with the included USB cable. It has activity LED lights.

XBee™ 802.15.4 RF Modules (with built in chip antenna and factory pairing) provide wireless connectivity to devices.

An assembled unit